

The Commonwealth of Massachusetts

ANNUAL REPORT

OF THE

TRUSTEES

OF THE

DANVERS STATE HOSPITAL

FOR THE

YEAR ENDING NOVEMBER 30,

1936

DEPARTMENT OF MENTAL DISEASES

(Post Office Address: Hathorne Hill.)

TRUSTEES.

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RESIDENT OFFICERS

CLARENCE A. BONNER, M.D., Superintendent.

EDGAR C. YERBURY, M.D., Assistant Superintendent.

WILLIAM CHARLES INMAN, M.D., Senior Physician.

LEO MALETZ, M.D., Senior Physician.

DORIS M. SIDWELL, M.D., Senior Physician.

CHARLES C. JOYCE, M.D., Senior Physician, Pathologist.

VELMA H. ATKINSON, M.D., Assistant Physician.

SALVADOR JACOBS, M.D., Assistant Physician.

MELVIN GOODMAN, M.D., Assistant Physician.

LOIS E. TAYLOR, M.D., Assistant Physician.

FLORA M. REMILLARD, M.D., Assistant Physician.

GEORGE W. WHEELER, D.M.D., Dentist.

GRACE H. KENT, Ph.D., Psychologist.

HEADS OF DEPARTMENTS

MR. ADAM D. SMITH, Steward.

MISS HULDA ARONSON, Treasurer.

MR. SAMUEL A. CLARK, Chief Power Plant Engineer.

MISS MARY H. HOLLAND, Head Social Worker.

MISS MARY K. MCPHILLIPS, Principal Clerk.

MR. ARTHUR E. REED, Chief Hospital Supervisor, Male Department.

MISS OLIVE F. ESTEY, R.N., Principal of School of Nursing.

MISS GRACE MANNING, R.N., Chief Hospital Supervisor, Female Dept.

MR. IRVING L. HYLAND, Maintenance Foreman.

MR. WILLIAM GORDON, Head Farmer.

MISS POLLY K. FRANCIS, Head Occupational Therapist.

CONSULTING PHYSICIANS

S. CHASE TUCKER, M.D., Surgeon.

PHILIP R. DWYER, M.D., Ophthalmologist.

HAROLD C. BEAN, M.D., Orthopedic Surgeon.

RALPH E. STONE, M.D., Internist.

PAUL E. TIVNAN, M.D., Roentgenologist.

BERNARD APPEL, M.D., Dermatologist.

EDWARD L. PEIRBON, JR., M.D., Urologist.

TRUSTEES' REPORT

To His Excellency, the Governor and the Honorable Council:

The Trustees of the Danvers State Hospital respectfully offer the following annual report, including the report received by us from the Superintendent and the reports received by him from the various departments:

The Board has continued to hold monthly meetings at the hospital for conference with the Superintendent concerning the development of the institution the upkeep of the plant.

During the present year certain important projects have been completed.

We are pleased to report that the new Hydrotherapy Buildings have been completed and are an excellent adjunct to the methods of treatment at this hospital; also the new fire alarm system has been installed with boxes properly located in every part of the institution.

The Power House has been enlarged and renovated and we now have three new 400 h.p. boilers with oil-burning equipment, which provide plenty of steam heat and power for the institution.

We again call attention to the needs of the institution, which have been requested in the previous messages:

A new building on both the male and female sections, and connected with the present buildings, to better provide for the infirm and convalescent patients, these buildings to be approximately of the same size and shape as our present ward buildings, and to house approximately two hundred more patients on each side. This will aid greatly in relieving the present congestion on certain wards. The cost of these buildings would be about \$700,000.

A new tubercular building, which will accommodate both male and female patients, at a cost of \$300,000.

The Chapel should be enlarged to accommodate three times the number of patients that it now will care for. This will mean making room for some thirty-

five employees now quartered in the Rear Center section, in order to follow through with this contemplated reconstruction. The cost of the building would be \$125,000 and the furnishings, \$7,500.

At this time we would call attention to the fact that both the Front and Rear sections of the Administration Building should have other means of egress than that which now exists. The ideal plan for the Front Center would be a fireproof staircase extending from the fourth floor and with an outside exit on the ground, at a cost of \$6,000. As to the Rear Center, plans have long been recommended to do away with the section and increase the size of the Chapel with modern construction. Therefore, at this time it does seem feasible to recommend the type of staircase mentioned as desirable for the Administration Building, front section.

For some time we have realized that the roofs of the main building need attention. In some instances the foundation boards show deterioration. Therefore, the slate shingles cannot be secured properly. This would mean extensive alterations of a difficult nature. It might be well in making this recommendation to request that one building be done at a time. The cost of the alterations on one building would be about \$6,500.

We have long felt that the Danvers State Hospital has now reached a population so large that an acute reception building would be highly advisable. This building would provide facilities for the care of acute cases and we would expect that many cases, would have a better opportunity to get well. This feature would, of course, again be a splendid opportunity to relieve the present congestion. The cost of the building would be \$350,000, while the equipment would cost \$50,000.

We are greatly in need of room for our employees and would request the building of a home for married couples. This would also permit of room space for the employees now quartered in the section known as Rear Center, and which

would be removed in the event of the enlargement of the Chapel. The building would cost \$150,000 and the furnishings, \$15,500.

Additional living quarters are needed for the new employees made necessary by the 48-hour week law. It will be necessary to have additional space for approximately 117 employees. This could be cared for by building an addition to the Male Home, the Female Home, and the building used by employees at the Middleton Colony group. The cost would be approximately \$225,000.

We again make the request of fireproofing the entire first floor. This would be a splendid step forward in fireproofing the institution and would serve as a preventive measure in basement fires, and, coupled with the sprinkler system in the attic, would safeguard our patients in the event of fire. The cost would be \$153,000.

With the added number of new employees, the laundry should be enlarged and reconstructed in order to do more efficient work and to be in position to accept the greater volume which it now has to meet. This could be done at a cost of \$64,000.

In connection with the laundry, we would report that we should replace the following old equipment with modern equipment: 1 Compressor; 5 clothes presses; 2 extractors; 3 washers; 3 drying tumblers. The cost would be \$28,133. We would recommend re-wiring Middleton Colony, barn, piggery and henery. Walk lighting is also needed from the public entrance to Maple Street. The total would be \$17,000.

The sprinkler system has been modernized in the A building and in the J building. We strongly urge that this modernization be continued to the B, C, D, F, G, H and I buildings, to include new pipe fittings and risers from the basement, also a sprinkler system at Middleton Colony, at a cost of \$43,000.

Eight more continuous tubs and controls are needed for the Hydrotherapy Buildings. The cost would be \$8,000.

The following is somewhat of a repetition but represents a summary of recommendations as made by Mr. Harry Atkinson, Building Inspector from the Commission of Public Safety, who made an inspection of the Danvers State Hospital and submitted a report under the date of March 31, 1936:

1. The sprinkler systems in the attics of buildings B, C, D; E, F, G, H, and I, although approved in the report, are no adequate and are not up to present standards, both in spacing of heads and size of mains. The complete renewal of these systems, as requested in the last year's budget, is recommended.

2. The report states that standpipes should be re-located so as to be more accessible in buildings D, G, H, I and J. The standpipes in buildings A, B, and C are in the same relative locations as the ones mentioned in the report and should be re-located if the others are changed. If these standpipes are moved they should be located in a wall of the alcove mid-way of the ward. A flush hose cabinet should be provided. It is felt that the re-location of these pipes is of lesser importance than most of the other recommendations.

3. It is recommended that a metal cabinet be provided in each ward for the storage of floor oil, mops, etc. This would be a very good safety measure. A good-sized steel locker would be sufficient.

4. It is recommended that sprinklers be provided in all closets used for storage of clothing and other materials; also, the use of "Firetox " automatic tetrachloride extinguishers in the above-mentioned places. We asked for them in last year's budget but they were not granted, and we would repeat the request in this year's budget.

5. It is recommended that fixed sash be provided between wards and enclosed fire escapes and that wired glass replace the common glass in these

sash. This situation occurs at buildings C to H and at Grove Hall. This is a very necessary precaution.

6. Concrete floors, throughout, on the first floor of the main group, are recommended. They would be an excellent protection against the spread of fire from the basements.

7. We recommend that wide exit doors with ramp to ground be provided from A-1 and J-1 sun porches. This is to better facilitate the removal of infirm patients from these wards.

8. It is recommended that the open fire escapes from B and I sun porches be replaced with enclosed stairways, at least three feet, six inches wide, between hand rails. This would be desirable.

9. It is recommended that the section of D basement now used for paper storage be discontinued. This room is now equipped with water sprinklers and the ceiling is fireproofed.

10. Better exits are recommended, except as before noted, at E and F buildings. These changes are very desirable.

11. It is recommended that the sprinkler system be extended in the mechanical building to include all space beneath the carpenter shop. This takes in the machine shop, plumber's shop and electrician's shop. This work should be done.

12. It is recommended that the basement in "Gray Gables ", employees' home, be equipped with sprinklers, and the front stairs enclosed on each floor with fireproof partitions and self-closing fire doors. These changes are very necessary for the safety of occupants of this building.

13. It is recommended that all hardware on the exit doors at the Male Home be changed to the type which requires operation of the knob only for exit

purposes; make all doors to stairways self-closing; provide hand rails on stairs in old section.

14. It is recommended at the Middleton Colony that all stairways be enclosed at second floors; provide hand rails on stairways; provide metal cabinets for floor oil, mops, etc.; swing all exit doors outward where not so arranged.

A perusal of this report will indicate the work done by the various departments throughout the last year. It will be seen that the work may be divided for the purpose of study into several important divisions. First, the maintenance of the physical plant, of which many parts have been constantly in operation since 1878 when the institution was accepted. Secondly, the care of nearly 2,300 patients who have been entrusted to us. This means adequate and proper food service, adequate and proper shelter, with medical and nursing supervision for those who are unable to help themselves.

A study of departmental reports will show, without question, the effort made by the employees of this institution to measure up to the standards required by our State, and it is our feeling, in a measure, that the spirit and attention of these employees directed to the care of the patients have been praiseworthy and satisfactory. Not only is the interest of the Danvers State Hospital directed intensively to the above procedure but more than that, as has been pointed out in previous communications, this institution has a series of mental hygiene clinics for adults and for children in the nearby towns of Beverly, Haverhill, Lawrence, Lynn, Melrose, Newburyport and Salem; so that again reviewing our problem, we see that our work is two-fold, namely, the best possible care for patients in our institutions and the maintenance of the plant. Secondly, with an eye toward the prevention of mental illness by reaching those children in the community who are showing signs of nervous instability and who can be reached through advice to the parent. It should be said, in explanation, that these clinics are patronized as any other form of health clinic is utilized, that

they are very busy and require the intensive work of two experts in child guidance, both physicians of splendid training, plus the attendant duties of the Social Service division of the institution and the Psychological Department.

In order to meet changing conditions and in order to give the best service possible, it is necessary to make progressive changes from time to time and it is our feeling that this institution has done these things to the best of its ability. This Board has met regularly each month, has discussed in detail with the Superintendent each and every problem, and it is our feeling that a word of approval should be given the nearly 520 employees of the institution for their duties well-performed during this last year and representing the substance of this report.

Respectfully submitted,

MR. S. HERBERT WILKINS, *Chairman*

DR. ARTHUR C. NASON

MR. JAMES F. INGRAHAM

MISS MARY T. O'SULLIVAN

MR. THOMAS D. RUSSO

MR. H. C. MCSTAY

MRS. ANNIE T. FLAGG

Trustees.

SUPERINTENDENT'S REPORT

To the Board of Trustees of the Danvers State Hospital:

The fifty-ninth annual report of the Superintendent for the fiscal year ending November 30, 1936, is respectfully submitted.

The clinical reports and statistics relating to patients are for the period including September 30, 1936.

MOVEMENT OF POPULATION

The hospital year opened on October 1, 1935 with 2,193 patients in the hospital, 349 on visit, 11 on escape, and 11 in family care, making a total of 2,564.

The year ended on September 30, 1936, with 2,297 patients in the hospital, 299 on visit, 15 on escape and 10 in family care, making a total of 2,621.

The number of admissions during the year were: 522 male; 428 female; total 950; a decrease of 3 over the preceding year.

There were 6 voluntary patients admitted during the past year; 27 patients were transferred from other institutions; 310 men and 238 women were admitted on temporary care papers and 80 men and 62 women were admitted on thirty-five day observation papers.

FIRST ADMISSIONS

There were 573 patients admitted for the first time to this or any hospital, which is a decrease of 8 over the preceding year.

DAILY POPULATION

The total average population for the year ending September 30, 1936 was 2,232, an increase of 56 over last year. There were 3,514 patients treated during the year as compared with 3,450 in 1935.

During the year 262 patients died in the institution, which is 38 less than the preceding year.

DISMISSALS

During the past year 889 patients were discharged from the institution; 494 men and 395 women. Classified as to their condition on discharge; 61 recovered; 342 as improved; 370 as unimproved; and 116 as without psychosis. The figures for the preceding year were as follows: 48 recovered; 328 as improved; 391 as unimproved; and 125 as without psychosis.

On September 30, 1936, there were 349 patients on trial visit in care of friends or under hospital supervision, as compared with 336 in 1935.

Since the organization of the hospital, 34,974 patients have been admitted and 32,450 discharged.

MEDICAL ADMINISTRATION

The following changes in the personnel of the Staff occurred during the year:

Appointments

Dr. Leo Maletz, promoted from position of Assistant Physician to Senior Physician, December 1, 1935.

Dr. Margaret D. Welch, appointed Senior Physician from February 24, 1936 to March 14, 1936 and again from May 21, 1936 to July 7, 1936, during a leave of absence granted Dr. Doris M. Sidwell.

Resignations

Dr. Charles C. Joyce, Senior Physician, Pathologist, was placed on leave of absence on November 21, 1936, due to illness.

Clinical Assistants

Janith Stewart Kice, University of Vermont.

H. Parker Wetherbee, University of Vermont.

Irving M. Pallin, Tufts Medical College.

John J. Driscoll, Tufts Medical College.

Maurice F. Mulville, Tufts Medical College.

MEDICAL SERVICE

The Assistant Superintendent has continued to supervise the medical work during the past year in addition to his usual administrative duties. This service is now well organized and the usual degree of efficient work has been turned out. Besides the usual daily ward rounds, weekly night visits by the physicians have been continued. The usual staff conferences have been held daily and the diagnoses, visits and discharges of patients have been considered carefully.

The work of periodical physical and x-ray examinations of nurses in training, as well as routine physical examinations of all new applicants for employment, have been valuable adjuncts in the preventive field.

A new position of medical director has been created but to date the position remains vacant. No changes in personnel have been made. For a period of five months we were fortunate in having the services of a full-time resident physician, also another who remains for a month. These physicians lent valuable assistance to the arduous duties of the regular staff members

The sixteen-lecture course in psychiatry for the various schools of nursing Essex County was completed in February. This fall a few schools requesting

instruction were given lectures by the members of the staff. Lectures to the students of our own training school, as well as to four of affiliating nurses and two classes of occupational therapy students, have been given by the staff members. The Assistant Superintendent has continued to give instruction to the 16 year medical students from Tufts College Medical School. Each student has spent a month at the hospital for practical training in psychiatry. The demand for speakers for various clubs, societies and associations has been increasingly but has been met.

During the months of August, September and October, Dr. Leo Maletz spent me at the Boston Psychopathic Hospital assisting in the Neurosyphilitic Clinic. During his leave of absence Dr. I. Paley Rubin substituted.

Dr. M. Gene Black has continued her intensive study of the tuberculosis problem so that most of the patient population has now been checked up thoroughly and all active cases have received modern treatment. Dr. James F. Seccareccio spent a great part of his time assisting in this work.

The invaluable assistance rendered by our consulting board of physicians and surgeons has been of the highest order, and I wish to express my sincere appreciation of their continued faithfulness and untiring efforts.

The following report indicates the major work accomplished by them during the year: appendectomies, 6; bone operations, 11; cystotomies, 7; cystoscopies, 2; dilatation and curettage, 1; emergencies, 18; fracture reduction, 6; incisions and drainage, 17; laparotomies, 6; manipulations (manual), 3; septum resection, 1; transfusion, 1.

HYDROTHERAPY DEPARTMENT

In March the newly completed hydrotherapy buildings were officially opened for the administration of treatments to both men and women patients. Each building consists of three continuous bathrooms, one pack room, one

colonic irrigation room, one tonic bath suite and a general bathing suite, with complete modern equipment. Since the opening date these buildings have been in constant use in spite of the fact that no increase in personnel was allowed. The following table indicates the vast number of treatments that have been given during the year:

	<i>Men</i>	<i>Women</i>	<i>Total</i>
<i>Wet sheet packs:</i>			
Number of patients treated	263	546	809
Number of packs given	5,470	12,308	17,778
Number of hours of treatment	13,574	33,496	47,070
<i>Continuous baths:</i>			
Number of patients treated	119	325	544
Number of baths given	2,314	3,356	5,670
Number of hours of treatment	6,394	14,449	20,844
<i>Tonic baths:</i>			
Number of patients treated	144	112	256
Number of baths given	1,898	3,391	5,289
<i>Colonic irrigations:</i>			
Number of patients treated	51	89	140
Number of treatments given	194	332	526

PHYSIOTHERAPY DEPARTMENT

The work of this department has continued to be very active during the past year and has required the services of a full-time trained therapist. For several months assistance from the nursing service was available, but was discontinued at the time of the opening of the new Hydrotherapy Buildings.

Beside carrying on the active treatments, the physiotherapist has conducted classes in massage for 'student nurses.

A total of 12,628 treatments were administered during the year ending November f30,1936. They were as follows: infra red, 5,238; diathermy, 2,460; sine wave, [2,869; ultra violet (air cooled), 479; ultra violet (water cooled), 358; massage, 1,224.

PERSONAL HYGIENE DEPARTMENT

Treatments of the deteriorated and untidy patients have continued throughout the year and the results have been most gratifying. This department has now become an indispensable part of the treatment program and requires the work of full-time personal hygienist as well as several patients who take an assistant's part. The work has increased considerably throughout the past twelve months, I is indicated by the table: hair cuts, 4, 778; shampoos, 2,640; manicures, 2,907; waves, 2,278; massages, 2,031; scalp treatments, 1,959. Total number of treatments, 16,593.

VENEREAL CLINIC

The service has continued to function without interruption and many patients have been treated with the various arsenical preparations as well as by Malarial Therapy. Those receiving a course of each showed better results than those receiving only one form. As in the past, two mornings a week have been devoted to this work, so that men and women could be treated at different times. There were 60 men and 35 women who received active treatment which consisted of 840 tryparsamide treatments, 475 neosalvarsan treatments, and 510 treatments with bismuth.

DENTAL SERVICE

A full-time resident dentist and a dental hygienist have carried on the work of this department during the year. All newly admitted cases have been given a thorough examination, and prophylactic treatments have been administered to the whole population. A survey of the work for the year ending November 30, 1936, is herewith submitted in tabular form:

Cleanings, 423; extractions, 1,044.

Fillings: Silver amalgam, 495; porcelain, 300; zinc oxide and Eugenol, 243; kryptex, 1; silver cement, 3; cement, 3. Total, 1,045.

Oral treatments in general: Vincent infections, canker sores, gingivitis, toothache, abscesses -Total, 681.

Prosthetics: Full plates completed, 20; partial plates completed, 9; bridges completed, 3; gold crown, 1; plates repaired, 8; false plates marked for identification, 112; miscellaneous corrections, 58. Total, 211.

Fractured jaws, 2; Dr. Doherty visited fracture case, 8 visits; referred to x-ray, 37; new patients examined, 883; re-examined patients, 246; total number of patients treated, 2,922; lectures to student nurses, 6 hours.

X-RAT DEPARTMENT AND LABORATORY SERVICE

These services have been carried on in spite of the fact that the director has been ill for some time. The work of the laboratory has been done by the technician, supervised by various members of the medical staff. Both Dr. Edgar C. Yerbury and Dr. Salvador Jacobs have carried on the work of the x-ray department, giving much of their time to this important service. The amount of work completed during the past year is herein reported:

Autopsies,30; bacteriological smears, 42; bacterial cultures, 10; basal metabolic rate determinations, 2.

Blood Chemistry: blood sugar, 8; N.P.N., 5. Blood cultures, 3.

Blood examinations: red blood counts, 1,153; white blood counts, 1,146; hemoglobin estimation, 1,153; differential counts, 147; sedimentation test, 1; typing, 1; coagulation time, 14; bleeding time, 14.

Gastric analysis, 1.

Gynecological smears, 34. Pleural fluids, 3.

Spinal fluids: gold sols, 146; cell counts, 146.

Miscellaneous: sputum examinations, 147; stool examination! (including culturing), 35; urinalysis, 3,854; phenolsulphonphthalein test, 1.

X-ray: Cases, 540; exposures, 980.

PUBLICATIONS

Only two papers were published during the year, the titles and authors being as follows:

1. "Traumatic Psychoses: A Study of Fifty Committed Cases" by Clarence A. Bonner, M.D. and Lois E. Taylor, M.D., published in the American Journal of Psychiatry, Vol. 92, No.4, January 1936.

2. "Overlapping Symptoms in Catatonic Excitement and Manic Excitement" by Clarence A. Bonner, M.D. and Grace H. Kent, Ph.D., published in the American Journal of Psychiatry, Vol. 92, No.6, May 1936.

PSYCHIATRIC CLINICS

The usual clinics for patients on visit have continued throughout the year and have been held at Gloucester, Haverhill, Lawrence, Lynn, Malden, Newburyport and Salem. Several of these clinics have been built up to considerable size, due to the greater number of patients permitted to go out on visit. Only an occasional case is referred by physicians in the community. although this service has been extended to them for several years.

ADULT MENTAL HYGIENE CLINIC

This clinic has continued to function efficiently under the direction of Dr. Leo Maletz. Many cases have been seen each week at the Lynn Hospital, where a thorough study has been made of them and followed by intensive treatment. Students from Tufts College Medical School are assigned to this clinic as part of the month's clinical training.

CONSTRUCTION REPORT

The maintenance department cares for the general buildings consisting of approximately 700,000 square feet of floor area and 325,000 square feet of roof surface.

The work of the department includes carpentry, mason work, painting and glazing, sheet metal roofing, blacksmithing and light iron work.

During the past year repairs, renewals and alterations were made to woodwork, doors and sash; tile, concrete and linoleum floors; plaster and masonry walls; iron and metal work; and to slate, tar and gravel, asphalt and metal roofs.

Grove Hall building was completely renovated and new toilet and shower rooms were installed. Terrazzo floors were installed in these rooms and throughout the basement. Cottages No.6 and No.7 were repapered and

renovated inside. The exteriors of the laundry building, kitchen and dining room building, green- house, and cottages No.1 and No.5 were painted. The interiors of the main group of eight ward buildings were completely painted throughout by W.P.A. labor, working in conjunction with the hospital's regular crew of painters.

The carpenters laid several new wood floors and prepared the floors of four wards to receive 2,400 square yards of new linoleum.

The masons laid new granolithic in basements, put new tile floors in bathrooms in three wards, laid new slate floors in creamery building, and re-plastered ceilings and rooms in main ward buildings, Grove Hall and Employees' Homes.

Besides shoeing of horses and maintaining the trucks and wagons, the blacksmith made a new fire escape for the laundry building and made all light iron fixtures used in new work and repairs of the buildings.

The carpenter shop milled out all stock, mouldings, doors, sash and frames used in the work of the department and made furniture, desks, farm boxes and truck bodies.

During the last month of the year a mechanic to do roofing and sheet metal work was added to the department. It is expected that this mechanic will be able to care for all ordinary repairs and replacement of slate, tar and gravel, and metal roofing with the exception of certain large areas which are in need of complete renewal.

ENGINEER'S REPORT

The major projects completed during the fiscal year are indicated in the following report:

A new lighting system was installed in the tunnels under the main hospital group.

Telephone conduit was installed throughout for all telephones.

Switching of the ward lights in the main corridors was changed from single to double circuit.

Thirty-nine drinking fountains were installed throughout the main hospital. A new plumbing system was installed at Grove Hall.

All basement track for trucks was taken up, repaired by welding and re-laid.

Ventilating fans in A-B-I-J buildings were equipped with new bearings and motor drives were installed.

Equipment for our new cannery was installed and put into operation.

A new ventilating fan was installed in the surgical building, also condensers were made up and installed to condense the excess of vent steam from the instrument and pan sterilizers.

Three new bathrooms were installed in the B building.

All steam traps on the heating system were tested and repaired where necessary.

Dial thermometers were installed on the main shower baths in the new hydrotherapy buildings. Two cooling fans were installed in each of the two hydrotherapy buildings.

Electric hot plates were installed in place of gas plates throughout the main ward buildings.

New electric cables were installed to each of the two tubercular buildings.

The head and foot pieces of 32 new pack beds were cut down nine inches and re-welded, also one-inch pipe side rails were attached to each bed.

Two portable blanket dryer racks were made for the bathhouses.

Guide rails were also made and installed to guide the blanket dryer racks into the drying closets.

A new lighting system was installed in the passageways from wards to dining room, greatly increasing the visibility.

A new ventilating fan was installed in the ceiling of the employees' dishwashing room.

The surge tank on the refrigerating system was removed from the attic over the chapel, was repaired and reinstalled on the roof of the new kitchen building.

A flow valve was installed in the feed line to the attic sprinklers at Grove Hall. This valve automatically gives the alarm in case a sprinkler head operates.

A new electric dumb waiter was installed in the administration building to re- place a very old and "worn-out hydraulic machine.

New kitchen sinks were installed, one in ward G-1 and one in ward 1-1.

Three iron tables and four meat racks were made and installed in the cold storage meat rooms at the Service Building.

The motor and drive for our stone crusher were relocated and wired with safety switches for better and safer operation.

The following changes and additions were made in the laundry equipment: Rebuilt the ventilating fan and installed new motor drive in mangle room. Rebuilt one old wooden washer; installed two soap tanks in wash room; installed one

new washer, electric driven; relocated one of the old washers; removed one of the old extractors; installed wiring for new Troy extractor; installed a new starch kettle; installed two new garment presses; installed a new air compressor to furnish air to operate the new presses; relocated and reconnected the old shirt and collar machines.

The following projects were done by contract under a P. W .A. grant:

A fire alarm system has been installed with a total of eighty fire alarm boxes.

A complete new boiler equipment is being installed at our main power plant. It consists of three 400-horse power boilers, oil-fired, a new feed water heater and two new feed pumps. The job is about 80% completed.

FARM REPORT

This year was marked by a drought, the severity of which effected a considerable reduction in the crops which we might otherwise have expected. Our hay in particular was the most severely affected, the yield being but 215 tons. Part of this was of decidedly poor quality. The potatoes likewise were reduced to 1,735 bushels.

With increased efficiency of the farm, productivity has been greatly increased; each tractor more than carrying on the work of the two teams which it supplanted. By adapting our available equipment to tractor use, together with the acquisition of such new machinery as may be found necessary, we believe that the slow and inefficient horse may, in time, be entirely displaced.

The ensilage yield was 494 tons of excellent quality. Other yields were pork 76,257 lbs., eggs 18,941 doz., beef 20,248 lbs. By the control of cannibalism and a consequent reduction in the mortality of laying birds lost through this cause, our yield should be materially increased this coming year.

The cattle are now entirely vaccinated for contagious abortion. In cooperation with the Federal Bureau of Animal Industry our calves are being vaccinated as, they arrive at the proper age, and we feel that we have this dangerous malady well under control.

During the last two years the incidence of infectious mastitis has been reduced from in excess of 90% to practically nothing. This has been achieved through systematic vaccination and rigid adherence to practices of cleanliness and disinfection.

By recourse to rigorous culling a number of superannuated cows, those with sore feet, blind quarters, etc., have been removed from the herd. We start the year with a herd of young healthy animals and feel that we may expect a substantially increased production. The total yield this year was 995,388 lbs.

The raspberry bushes were transplanted from field No.16 to field No.20 where there are now nearly an acre of these useful plants. A bookkeeper has been added to the farm force this year and this will result in more complete records being kept with a corresponding increase in efficient farm operation.

The new cannery has provided an unexcelled method of storing surplus vegetables for winter use. This year despite some losses at the first of the canning season there were 5,452 No.3 cans of corn, 4,864 gallons of beans, and 1,035 gallons of tomatoes put into storage.

Due to the increasing mechanization of our farm there has not been the usual amount of activity in this work the past year. Previously most of this work has been accomplished during the idle season as a means of keeping the teamsters and horses occupied. Limitations inherent in tractor farming, deep mud, snow, ice, etc., circumscribe to a certain degree the work which may be done through the winter months. The greatly increased efficiency, however, of machine farming more than compensates for any losses which may be incurred through these faults.

Work has gone forward upon the large parking space and this will probably become available sometime this year.

Owing to the installation of oil-burning furnaces the unsightly coal pile in the rear of the powerhouse has been removed and the grounds about this building are in process of beautification. Grading is being done, and with grass sown upon the banks the general appearance will be greatly improved.

An unusually large number of stones, both large and small, have been removed from the fields. This work, while not apparent to the casual observer, greatly facilitates agronomical operations and aids in eliminating costly and untimely breakage of farm equipment. Many of these stones have been employed as filling in the abandoned gravel-pit adjacent to the engineer's house at the Middleton Colony. We hope that this year will see the completion of the project, and after grading and seeding this unsightly spot will be no more.

The roads have been maintained in their usual excellent condition. Scraping at regular intervals, together with judicious application of surfacing materials have resulted in a hard, smooth roadbed.

During the past year bus service has been instituted to the hill which has required sanding the roads to an unprecedented degree. This work has been so successfully prosecuted that the service has been practically uninterrupted throughout the icy season.

In field No.16 nearly a half acre has been reclaimed on the site of the abandoned railroad track. Aside from the value of the land the improved appearance of the field amply recompenses the time expended on this project.

RELIGIOUS SERVICES

The religious services, which have been held each Sunday throughout the year, have contributed in bringing spiritual inspiration to our patient population.

The following Catholic, Protestant and Jewish clergymen have officiated at these services during the past year: Rev. Remi B. Schuver, Rev. Charles M. Charlton, Rev. William Grimes, Rev. Wayne Haskell, Rev. Kenneth Henley, Rev. John Knight, Rev. Russell T. Loesch, Rev. Nathan Matthews, Rev. Arthur Wright, ev. Alfred F. Ferguson, Rev. Moses L. Sedar.

ACKNOWLEDGEMENTS

I again wish to express my sincere appreciation to all those who have been so thoughtful in making contributions to both our library and Patients' Entertainment Fund; and to all the various organizations who have given so freely of their time to bring pleasure to our patients, I wish to express my thanks. To my hospital officers and employees, who have given me such loyal support during the year, I wish to extend my appreciation. I am indebted to the Department of Mental Diseases and the Board of Trustees for their continued support and helpfulness, for which I am indeed grateful.

Respectfully submitted,

CLARENCE A. BONNER, M.D.
Superintendent.

REPORT OF TRAINING SCHOOL FOR NURSES

To the Superintendent of the Danvers State Hospital:

It is my privilege and pleasure to submit the forty-seventh annual report of the Training School for Nurses.

Personnel, November 30, 1936:

Principal, School of Nursing	1
Assistant Principal, School of Nursing	1
Chief Hospital Supervisor	1

Assistant Supervisor (day)	2
Assistant Supervisor (night)	1
Head Nurses, graduates of Danvers State Hospital	12
Head Nurse, graduate of Salem Hospital	1
Head Nurse, graduate of J. B. Thomas Hospital	1
Hydrotherapists	2

There were 106 requests for information in regard to the Training School. Twenty-three applications were received. Eight failed to meet the requirements. Thirteen applicants were accepted. Eight changed their minds. The remaining 7 reported for duty October 1, 1936. Five applicants who were too late to join the class entering October 1, 1935, entered this year, making 12 probationers. Two of these have withdrawn.

On November 30, 1936, our students were as follows: Seniors, 11; intermediates, 8; probationers, 11.

The affiliated nurses for the year ending November 30, 1936 were as follows:

Leominster Hospital: - Mary Agnes Carter, Marjorie B. Firman, Elizabeth Ann Sacino, Rita Manning, Ruth Anne Keefe, Rose Margaret Dion.

Somerville Hospital: - Lucie M. Powers, Amy Elizabeth Dearborn, Thelma Elizabeth Gray, Helen M. Cheever, Mareta Hardy Frotten, Emma Deunen, Dorothy E. Rich, Dorothy J. Higgins.

Chelsea Memorial Hospital: - Hazel Raugdale, Mary Agnes Crowley, Cecelia McNulty, Mary Louise O'Donnell, Florence Shaw Auderberg, Virginia Rose Small, Mary Elinor Hilyard, Doris Martin, Dorothy Birch, Sabina Rigione, Helen Hood, Marion Doyle.

New England Sanitarium and Hospital: - H. Elton Roach.

Henry Heywood Memorial Hospital: - Julia Orelia Martin, Alice Martha Hedge, Dorothy Mulcahy, Mary A. Pillsbury.

Melrose Hospital: - Margaret Walsh, Beatrice Woodbury.

The graduating exercises were held September 16. The following nurses received diplomas:

Mary Boyko	Mildred Catherine Jarosz
Dorothy Lovell Briggs	Sally Kozalska
Lucille Marie Charest	Edna Earle Mewborn
Margaret Collopy	Mary Grace Moran
Eileen Virginia Eaton	Muriel Emily Paul
Ellen Mary Farley	Anne Florence Shanahan

Mildred Catherine Jarosz was awarded the Alumnae prize of ten dollars for the highest rank for three years.

Beginning October 1, 1936, our students received for the first time an allowance of ten dollars a month instead of the attendant nurse salary.

New equipment consists of an ear and eye model, a new anatomical chart (life size), skeletal system.

Changes in Personnel: - The following nurses resigned to accept head nurse positions at the Metropolitan State Hospital: Madelyn Alita Douglass, Class of 1930; Julia Ethel Kealey, Class of 1935; Antoinette Piragis, Class of 1935.

Rita Catherine Flynn, Class of 1935, resigned to be married. Catherine Patricia Greene, Class of 1935, resigned to do post-graduate work in pediatrics. Hilda Dillon Hogg, Class of 1935, transferred to the male service.

I wish to thank the following members of the medical and hospital staff for their kind cooperation and help with the teaching:

Dr. Edgar C. Yerbury
Dr. Salvador Jacobs
Dr. Leo Maletz
Dr. Melvin Goodman
Dr. William C. Inman
Dr. George W. Wheeler

Dr. Velma H. Atkinson
Dr. Philip R. Dwyer
Dr. Bernard Appel
Miss Mary H. Holland
Mrs. Madeline Beagin
Miss Polly Francis

Respectfully submitted,

OLIVE F. ESTEY, R.N.,
Principal, School of Nursing.

OCCUPATIONAL THERAPY DEPARTMENT

To the Superintendent of the Danvers State Hospital:

It is my privilege to submit the following report of the Occupational Therapy Department for the year ending November 30, 1936:

Personnel:

The Occupational Therapy Department is composed of four graduate therapists and one graduate physical education instructor. The remaining members of the department consist of four students affiliating from the Boston School of occupational Therapy for six-month periods and three special attendants. Miss Frances Howard, therapist from April, 1935 until May, 1936, left to assume a directorship at the Institute of Human Relations in New Haven. She was replaced by substitutes until July when Mrs. Olive Campbell, 1936 graduate of the Boston School, was installed as a regular member of the department. An intensive program including all types of activity possible is maintained by the present staff.

I. Reception Service:

As a part of the Reception Service over 800 patients were seen and interviewed during the year. The interview consists of an informal visit by an occupational therapist who reads or presents a letter of reassurance from the Superintendent and answers questions regarding the institution and its resources. Purposes of this service are to aid in orientation of the patient, adjustment, and to help make a more satisfactory contact.

II. Adjustment Classes - Shop and Ward:

The class service for the female wards is much heavier than for the male at present: four daily classes and two weekly classes. The male service consists of three: two of which average a daily attendance of thirty patients each. There are additional smaller groups for bookbinding, recreation and other activities, irregularly conducted throughout the year. Bi-products of supervised activity as treatment are grouped under the following classifications:

1. Household furnishings.
2. Creative arts: sketching, sculpture, miscellaneous craft and party decorations.
3. Recreational, musical and dramatic productions.
4. Educational - correspondence courses, exhibits, hobbies. 5. Book repair and typing.
6. Personnel training for library management, etc.

Under classification No.1 and part of No.2, patients produced under supervision (as treatment for sedation, stimulation, concentration, physical correctives or social adjustments depending on activity selected and individual being treated) the following articles:

One hundred thirty-six (136) woven rugs; 7 braid weave rugs; 7 hooked rugs; 415 embroidered runners; 41 woven runners; 22 covers; 121 pillows; 4 choir sets; 54

prs. of curtains for the wards; 4 door wedges; 16 fern boxes, as well as several each of the following: waste baskets, mats, book-ends, book racks, name signs, toys, boxes, games - checkers and cribbage for the wards - ash trays, footstools, etc. All of these are utilized throughout the hospital; special attention is being paid to the unity of design and color to stimulate appreciation and interest of the patients in the environment. Other work habit-forming activities such as sand-papering, re-fluffing cotton for stuffing pillows, rolling strips for weaving, pulling burlap, etc., are classified as low-grade performances. Many senile, arteriosclerotic and agitated patients derive more benefit from this type, often progressing with encouragement to higher level activities. An average of 200 patients receive individual treatment each month in these classes. The turnover of groups and patients is variable depending on visits, promotion to industries and other similar factors.

Reports:

Bi-weekly conferences have been held with the psychiatrists in charge of each service for preparing prescriptions and receiving advice concerning the treatment of the patients in classes. Reports are prepared on each patient whose case is being presented at staff conference if he or she has had any prescribed occupational therapy; these are presented to the doctor to be used as a reference during the presentation of the case. Monthly remarks are also prepared on each patient receiving individual attention and a report on the department as a whole.

Recreational:

Groups of cribbage and checker players have been organized on the admission wards and where there are groups of non-workers as stimulating and socializing activities. Weekly dances during the season are utilized as another medium of treatment under student and graduate therapist guidance. Seclusive and shy patients are helped to make social contacts and those patients wishing

to learn to participate are aided in their adjustment. W .P .A. vaudeville performances have been conducted weekly with a therapist as official hostess. Band concerts and other entertainments have been supplied by outside societies. The month of December, 1935, was almost entirely devoted to recreation, music and dramatics as treatment. An elaborate program included parties on the admission wards, a pageant by the choir in addition to the customary dance, carnival, shop parties and caroling.

Music:

The choir has expanded from 30 members to 70 and continues weekly rehearsals with an educational feature provided by one of the members each week. During the Bummer four community singing evenings were conducted; the average attendance was 130 patients.

Industrial Efforts in Occupational Therapy:

For patients not requiring as individually planned activity there are three daily groups of work habit classes under special attendant management, with occupational therapy department supervision. Over 60 additional patients from the wards of non-workers have been re-educated into this program. Several have been inactive or destructive and the therapy has been an aid in caring for them. This branch is very gradually expanding. A total of 1,056 cafeteria napkins, 106 doilies, 113 washcloths, and over 1,000 flour sacking handkerchiefs and washcloths have been made in these and other classes of a similar nature conducted throughout the year by nurses, attendants and occupational therapists. These are very short- time projects to stimulate the sense of quick accomplishment among patients who lose interest easily. Interest is retained by breaking up the activity into small units of time and production.

Education:

There are over 4,000 books in the library. These have been for the most part donations from visitors, church societies and other libraries. For this reason it has been necessary to conduct a bookbindery and censor board. An average of 900 books are withdrawn monthly. The distribution of books is encouraged in three ways: 1. Parole patients may visit the library freely. 2. A group of non-parole patients are escorted weekly by an occupational therapy student to the library in order that they may select books or magazines for the week's reading. 3. The wards are visited each week in order that patients who are unable to make the visit may select reading matter. The five patients who have been trained to care for the library as their treatment have weekly conferences with the director or student in charge of the service. At this time problems are discussed and improvements or suggestions made. The Danvers State Hospital Librarian (Occupational Therapist, ex-officio) was made a charter member of the Group of Institution Librarians. At the present time the hospital medical library is also being managed by the department.

Educational and Exhibit Interests:

An art exhibit of patient and employee talent was held in May with an attendance of approximately 500 visitors. An issue of poems written by patients was presented to the staff, other Occupational Therapy Departments, wards and contributors after a tea and meeting of the patient-contributors. The annual exhibit at the Essex Agricultural Society Fair consisted of material depicting the types of activities, gradation of work and purposes of work as treatment. Other professional people, educators and laymen were very much interested in the display of material. At the Massachusetts Association of Occupational Therapy Convention in Boston, the Danvers State Hospital was represented by the reception service exhibit with the letter also reproduced in the Italian language as prepared by a member of the staff.

Physical Education:

There are four groups receiving physical education as treatment: male and female groups of deteriorated patients for which simple programs of exercise, drill, marching and games to music are planned and the other two groups of special activities for men and for women. The group of women during the summer enjoyed nature hikes. The other activities were tennis, shuffleboard, croquet, etc. During the colder seasons, ice-skating, hiking and other games are substituted. The special class for men have more varied activities: hiking, tumbling, cage ball, basketball, croquet, etc., according to the season. There are 32 patients as an average attendance for the group of deteriorated and untidy women, 55 in the special female group and an average of 22 in each of the male classes. The special groups consist of patients in the more acute condition of mental illness.

Employees' Recreation Room:

The Occupational Therapy Department equipped with temporary furnishings a room to be used as a recreational room for the employees and planned the schedule of the matron in charge.

Patients' Ironing Room:

A room is being reconditioned in the Rear Center for parole patients to do their washing and ironing. This has been long needed and is expected to be ready in the near future.

Summary:

Added features during 1936: Development of work habit classes on the back wards as industrial therapy; ward furnishings planned according to design and color; creation of a recreational room for the employees; recreational classes on the wards, parties on the admission wards and choir pageant at Christmas; preparation of the interview letter in Italian; publication of the poetry issue; concert given by the choir; and folk dancing class.

The total number of patients contacted is estimated to be over 700 monthly. These include only those participating as individuals in the following activities: reception service, adjustment and industrial occupational therapy classes, physical education, special library groups, bookbinding, choir and folk dancing classes. Intensive treatment with individual records is maintained with 200 patients.

Respectfully submitted,

POLLY K. FRANCIS, O.T. Reg.
Director of Occupational Therapy.

SOCIAL SERVICE REPORT

To the Superintendent of the Danvers State Hospital:

The following is the report of the Social Service Department for the year ending November 30, 1936:

A total of 1,654 cases were handled by the Social Service Department. Of these, 1,131 were new cases. Five hundred and sixty-one hospital histories were taken at the hospital. Three hundred and fifty-nine histories of hospital patients were taken in the community. One hundred and seventy-eight Child Guidance histories and 46 Adult Mental Hygiene histories are included in the total number of histories. Two thousand fifteen visits were made in behalf of hospital and clinic patients. These visits were to patients, their families, relatives, interested friends, social agencies, doctors, lawyers, and others in the community interested in the patients' welfare.

As in the past few years, history work is monopolizing most of our time and efforts at the expense of supervision of patients on visit in the community, placement of patients in homes, and home investigation prior to the discharge of

patients, where the real talent of Social Service should be utilized. Only 18 cases were referred to us for investigation of home conditions prior to discharge.

At least three additional trained social workers are needed to carry on the work of our Department adequately.

Miss Sara Karp, a former student in the department, was appointed to fill the vacancy caused by Miss Helen Riley's transfer to the Metropolitan State Hospital.

Miss Barbara Redden, a graduate of New Hampshire State University, and Miss Gertrude Allen, a graduate of Smith College, were students in our department during the academic year. Miss Redden substituted during the summer vacations of our regular workers.

In September 1936, Miss Harriet Smith, a graduate of Smith College, came as a student of the Department of Mental Diseases training course.

Miss Anna Appel, who is a Master student at Simmons College School for Social Work, is doing her field work in connection with the school in our department.

May I take this opportunity to thank the Superintendent, the Assistant Superintendent, and others of the Staff for their cooperation and support.

Respectfully submitted,

MARY HENDERSON HOLLAND,
Head Social Worker.

REPORT OF THE CHILD GUIDANCE AND SCHOOL CLINICS

To the Superintendent of the Danvers State Hospital:

It is my pleasure to submit the following report for the Danvers State Hospital Out-Patient Department in its work with children for the year ending November 30, 1936.

From year to year it is interesting to note the consistent increase in the number of cases referred to our Clinics. This year while the total number of cases referred is, as usual, slightly greater than the preceding year, it is gratifying to note a decrease in the number of cases referred for examination under Chapter 215, General Laws of 1931 for Juvenile Delinquents, with a corresponding increase in new Child Guidance and School Clinic referrals. We also had more problem children recommended for examination in the Traveling School Clinics than in the previous years as compared with those three or more years retarded.

Our regular Clinic personnel has remained the same as last year. Dr. Margaret D. Welch, of Salem, kindly stepped in and substituted for about ten weeks during part of the time when the writer was ill and on leave of absence. We are grateful to her for the comprehensive reports which she left in closing the Child Guidance Clinics at the beginning of the Summer respite. Dr. Remillard at this time carried on all of her usual duties in the School Clinics and in addition did most of the work with the juvenile delinquents. We are grateful at this time to the other physicians on the hospital staff who made some of the Chapter 215 examinations when it was impossible for this department to cover the assignments completely. Dr. Remillard and Miss Georgie Brimigion, stenographer, carried particularly heavy schedules over a period of several months and are to be highly commended for their interest and efficiency. We congratulate Dr. Remillard in the completion of her National Board examinations during the year.

In the School Clinics, 670 examinations were conducted according to the Walter E. Fernald plan in a total of 23 towns.

In the district courts of Essex County and in the Chelsea District Court from October 1, 1935 to October 1, 1936, we examined 208 Juveniles with the following results:

NOTE: Due to the time consuming process of reproducing tables they will not be included at this time.

This compares most favorably with the total of 265 Juveniles we examined the preceding year.

Our Child Guidance Clinics are held in the same seven cities and in the same locations as last year. A total of 215 new cases were studied in these clinics and 101 cases were carried over from the previous year for further study. Included in this figure Miss Agnes Reardon, speech teacher, carried a total of 36 cases in the Salem and Lynn Clinics.

The following list shows the actual number of new cases in each clinic. Lawrence and Newburyport Clinics are each held but twice a month, the other clinics being conducted weekly:

Lynn Child Guidance Clinic	61
Haverhill Child Guidance Clinic	20
Beverly Habit Clinic	41
Lawrence Mental Hygiene Clinic	16
Newburyport Child Guidance Clinic	12
Salem Child Guidance Clinic	40
Melrose Child Guidance Clinic	25
Total new cases	215

As in previous years student nurses, including affiliates, clinical assistants from Tufts Medical School and the Occupational Therapy students, attended our clinics to observe methods. A number of addresses were given to Parent-Teacher groups, Mothers' Clubs and similar societies during the year.

Respectfully submitted,

Doris M. Sidwell, M.D.

PSYCHOLOGICAL REPORT

To the Superintendent of the Danvers State Hospital:

It is my privilege to offer the annual report of the Department of Psychology for the year ending November 30, 1936.

The assistants with us at the opening of this fiscal year were Alice Schoenfuss, Faith Kelloff and Jane Sullivan. In the course of the year all three of these young women resigned and their places were taken by Rosemary Mehan, Margaret L. Kelly and E. Barbara Redden. (Owing to the increase of the extra-mural work of this department, we are now in need of an additional assistant).

The number of psychometric examinations administered during the year is 1,591, distributed as follows:

Hospital patients, tested soon after admission	527
Children of the various Child Guidance Clinics	198
Adolescent patients of the Adult Clinics	4
Juveniles examined in court under Section 215	191
School Clinic cases, in various public schools	636
Unclassified psychometric examinations	35
Total examinations individually administered	1,591

Our cooperation with other institutions of this vicinity has been continued. In June we furnished material for individual study of the children cared for through the summer at the Essex County Health Camp; and in September we gave a group examination to 114 students of Essex County Agricultural School.

A ten-hour lecture course in psychology and psychometrics has been given every three months in the Nurses' Training School for the resident and visiting nurses; and an informal four-hour course in psychometrics has been presented each month for the medical interneees.

Two papers came to publication during the year, one of them a study which had been in progress for more than six years. Also, two minor contributions concerning the work of the department were mimeographed for private circulation.

Respectfully submitted,

Grace H. Kent. Ph.D.