

The Commonwealth of Massachusetts

ANNUAL REPORT

OF THE

TRUSTEES

OF THE

DANVERS STATE HOSPITAL

FOR THE

YEAR ENDING NOVEMBER 30,

**1935**

DEPARTMENT OF MENTAL DISEASES

DANVERS STATE HOSPITAL

(Post Office Address: Hathorne, Mass.)

**TRUSTEES**

MR. S. HERBERT WILKINS, Chairman, Salem.

DR. ARTHUR C. NASON, Newburyport

MR JAMES T. INGRAHAM, Peabody.

MR. THOMAS D. RUSSO, Roslindale

MR. H. C. MCSTAY, Swampscott.

MRS. ANNA P. MARSH, Danvers.

MRS. ANNIE T. FLAGG, Andover.

### **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., Acting 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. I

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. PEIRSON, 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 and the upkeep of the plant.

During the present year certain important projects have been completed.

On the wards, both male and female, fireproof staircases have been constructed to replace the old wooden staircases.

All obsolete wiring has been replaced with modern wiring in conduit, excepting the Colony.

There is a new water tank, providing increased pressure for the sprinkler system. This sprinkler has been modernized in the A and J buildings.

New Hydrotherapy buildings have been constructed, which are exceptionally well equipped to provide this special treatment.

We now have a direct connection with the Danvers electric power line, which is very important in the event of a breakdown in our plant and the utilization of power at a time when our boiler pressure is kept low, that is, in the warmer months of the year.

A new fire alarm signal system has recently been installed and is nearly completed. We are in need of a fire-tighting kit which can be used without delay in response to the alarm. We recommend the purchase of a motorized firefighting

equipment, to be kept in the Garage Building ready for immediate use. This equipment should include two 100-gallon chemical tanks, 1,000 feet of hose, ladders, axes, and other accessories, at a total cost of about \$4,000.

We again call attention to the needs of the institution, which were 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.

A new tubercular building, which will accommodate both male and female patients.

At the present time three new boilers are being installed and it is planned to utilize oil-burning equipment. However, we believe that new machinery should be provided and that the size of the Power House should be enlarged to cope with the growth of the institution since during this past year we have seen the largest number of patients in the history of the hospital (2,250).

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.

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. 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.

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 given intensive treatment over a short time, separated from the more chronic cases, would have a better opportunity to get well. This feature would, of course, again be a splendid opportunity to relieve the present congestion.

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.

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.

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. In connection with the laundry, We would report that we should replace two old wooden laundry washers with modern washers. One drying tumbler and one extractor is needed.

We would recommend re-wiring Middleton Colony, the power plant, service building, industrial building and barn, also the passageways from wards to dining hall.

The sprinkler system has been modernized in the A building and in the .1 Building. We strongly urge that this modernization be continued to the B, C, D, F, G, H and I buildings, to include new pipefittings and risers from the basement, also a sprinkler system at Middleton Colony.

Under the heading "Repairs and Renewals" we are requesting certain needs that should be given attention:

1. Reshingling roofs, Middleton Colony.
2. Repairs to Stone Crusher.
3. Replacing of kitchen equipment, Middleton Colony.
4. Renewal of hot water mains.
5. Metal screens, hydrotherapy buildings.
6. Transformers.
7. Replacement of piazza, Harrington Building, Middleton Colony.
8. Replacement of Center Building, hennery, with fireproof building.
9. Repairs to Cottage No.9.
10. Conduits, cabinets, etc. in tunnels.

We are requesting an appropriation under this heading of \$13,355.

Respectfully submitted,

MR. S. HERBERT WILKINS, Chairman

MR. THOMAS D. RUSSO

DR. ARTHUR C. NASON

MR. H. C. MCSTAY

MR. JAMES F. INGRAHAM

MRS. ANNA P. MARSH

MRS. ANNIE T. FLAGG

**SUPERINTENDENT'S REPORT**

*To the Board of Trustees of the Danvers State Hospital:*

The fifty-eighth annual report of the Superintendent for the fiscal year ending November 30, 1935, is respectfully submitted.

The clinical reports and statistics relating to patients are for the period including September 30, 1935.

### **MOVEMENT OF POPULATION**

The hospital year opened on October 1, 1934 with 2,194 patients in the hospital, 282 on visit, 12 on escape and 9 in family care, making a total of 2,497.

The year ended on September 30, 1935, with 2,201 patients in the hospital, 336 on visit; 11 on escape and 11 in family care, making a total of 2,559.

The number of admissions during the year were: 521 male; 432 female; total 953, an increase of 40 over the preceding year.

There were 4 voluntary patients admitted during the past year; 26 patients were transferred from other institutions; 312 men and 251 women were admitted on temporary care papers and 79 men and 54 women were admitted on thirty-five day observation papers.

### **FIRST ADMISSIONS**

There were 581 patients admitted to this or any hospital for the first time, which is a decrease of 81 over the preceding year.



## **DAILY POPULATION**

The total average population for the year ending September 30, 1935 was 2,176, an increase of 15 over last year. There were 3,450 patients treated during the year as compared with 3,415 in 1934.

Three hundred patients died in the institution during the year, which is 25 more than the preceding year.

## **DISMISSALS**

Five hundred ninety-two patients were discharged from the institution during the past year; 335 men and 257 women. Classified as to their condition on discharge: 48 recovered; 328 as improved; 391 as unimproved; and 125 as without psychosis. The figures for the preceding year were as follows: 44 recovered; 318 B improved; 38 as unimproved; and 146 as without psychosis.

On September 30, 1935 there were 336 patients on trial visit in care of friends or under hospital supervision as compared with 303 in 1934.

Since the organization of the hospital, 34,021 patients have been admitted and 31,561 discharged.

## **MEDICAL ADMINISTRATION**

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

### *Appointments*

Dr. Flora M. Remillard, appointed Assistant Physician July 1, 1935.

Dr. Doris M. Sidwell, promoted from position of Assistant Physician to Senior Physician November 1, 1935.

### *Resignations*

Dr. Salomon Gagnon, resigned March 10, 1935, to accept position of Assistant Superintendent at Metropolitan State Hospital.

### *Clinical Assistants*

Bernice D. Rosenthal, Woman's Medical College of Pennsylvania.

James F. Seccareccio, Tufts Medical College.

Charles A. Currier, Tufts Medical College.

Ralph P. McCarthy, Georgetown University.

### *Students in Laboratory*

H. Parker Wetherbee

Arthur H. Ruggles, Jr.

## **MEDICAL SERVICE**

This service, under the direction of the assistant superintendent, has continued to function efficiently as in former years. Several changes have been made in personnel due to promotions of various staff members. The regular daily staff conferences for the purpose of discussing diagnosis, discharge, and visit of patients have continued throughout the year as well as the usual daily and weekly night ward rounds. The number of cases of bacillary dysentery (His- Y type) has been steadily diminishing and because of the careful segregation of cases has presented a much less serious problem than in former years.

The usual periodical physical and x-ray examinations of nurses in training have been carefully carried out and a routine physical examination has been instituted before an applicant was accepted for any position.

The sixteen-lecture course in Psychiatry given to the various schools of nursing in Essex County last year was repeated this year because of the numerous requests. The first lecture was given in October to about 125 nurses from the various nursing schools. The different members of the staff have also continued their lectures in connection with the training school as well as to the four classes of affiliating nurses and two classes of Occupational Therapy students. Sixteen fourth-year medical students from Tufts Medical School have each spent a month at the hospital where they received training in Psychiatry. Many demands have been made upon the staff for speakers for different societies, clubs, lodges and associations and during the year 60 such speaking engagements have been filled by the various staff members. In May a course of lectures in Psychiatry was given by the assistant superintendent to a group of lawyers from neighboring towns. This course was greatly appreciated as it brought out a more thorough understanding of Psychiatric terminology.

The physicians and surgeons of the consulting board have been faithful throughout the year and have rendered an invaluable service by their untiring efforts in helping us solve the many special problems, which are bound to arise in so large a community.

In October, 1935, Dr. M. Gene Black of Dedham was appointed by the Department of Mental Diseases to carry on an intensive study of the tuberculosis problem.

A routine examination of all patients and an x-ray examination of all suspicious cases have been made. Most of the cases under treatment were in the inactive state and all active cases were properly isolated on wards well suited for the purpose.

The following work was accomplished in the operating room and dressing rooms during the year:

## OPERATIONS

Blood transfusions, 2; colporrhaphy; cystotomy (supra public-prostatic), 1; dilatation and curettage, 1; drainage of hydrocele, 1; evisceration of right eye, 1; excision of hydrocele sac, 1; excision of wen right side of face, 1; excision of wen of forehead, 1; fasciotomy-tendon transplanter, 1; halux valgus, 1; hemorrhoidectomy,2; herniorrhaphy, 1; herniotomy,3; hysterectomy, 1; incision and drainage of right breast, 1; incision and drainage of right hand, 1 ; incision and drainage of right frontal sinus, 1; incision and irrigation of right elbow, 1 ; laparotomy (exploratory), 2; laparotomy, 3; manipulation of feet, 1: oophorectomy unilateral), 1; perineorrhaphy, 1; prostatectomy (supra pubic), 1; removal of cervical polyp, 1; resection of ribs, 1; salpingo-oophorectomy (left) , 1; suspension of uterus (Baldy Webster), 1; suturing of laceration and ligation of severed artery, (right wrist), 1; tonsillectomy,3; punctures, spinal, 190; punctures, venal, 1,058; surgical dressings and treatments, 18,125.

### *Prophylactic Treatments*

Dick tests, (scarlet fever), 103; Schick tests, (Diphtheria), 1,373; tuberculin tests, 3,232; typhoid inoculations, 1,123; vaccinations, 50.

### *Anti-syphilitic Treatments*

Bismuth, 660; mercuric salicylate, 154; neoarsphenamine,330; tryparsamide, 401.

## HYDROTHERAPY DEPARTMENT

During the past year the hydrotherapy departments have been closed owing to extensive alterations, which will enlarge and modernize the suites. Because of this, the tonic bath treatments have been generally reduced, with the result that only 6 patients were treated during the year with 123 various types of tonic bath treatments. Now that the hydrotherapy suites are nearing completion it

equipments, being installed, a vast number of coming year and that more patients will be able an improved condition.

The wet sheet pack and continuous bath treatments have constantly been used as indicated by the following table:

Wet sheet pack:	Men	Women	Total
Number of patients treated	240	527	767
Number of packs given	4,128	15,733	19,861
Number of hours of treatment	11,610	43,622	55,232
Continuous baths:			
Number of patients treated	107	251	358
Number of baths given	2,488	2,253	4,741

### **PHYSIOTHERAPY DEPARTMENT**

The physiotherapy department has continued to function actively throughout the past year with a trained physiotherapist in charge. Students from the nursing me in this department, where they have received training in technic in all electro therapy methods as well as massage.

A total of 11,379 treatments were administered during the year ending November 30, 1935. They were as follows: Infra red, 4,938; diathermy, 1,983; sine wave, 04; ultra violet (air cooled), 704; ultra violet (water cooled), 320; auto-condensation, 266; massage, 894.

### **PERSONAL HYGIENE DEPARTMENT**

During this past year a full time personal hygienist has been in attendance and thus the work of this department has been greatly increased over that of the proceeding year. The untidy and deteriorated patient has been given special attention and the results are gratifying.

With the year ending November 30, 1935, a total of 14,831 treatments were given as follows: Hair cuts, 4,367; shampoos, 2,602; manicures, 2,443; waves, 2,265; massages, 1,630; scalp treatments, 1,524.

### **VENEREAL CLINIC**

This important service has been maintained throughout the year with the various arsenical preparations being used. These have been supplemented by mercury, and bismuth salts, as well as potassium iodide during the rest period. In selected cases malarial therapy has been used with the usual gratifying results. Two days per week have been devoted to these treatments because of the large number of cases requiring treatment.

### **DENTAL SERVICE**

This department has been active during the year. The work has been carried on by a fulltime dentist, assisted by a dental hygienist. As in former years, all newly admitted cases have been given a thorough examination and any prophylactic work, which would enhance the patients' health, has been done. A survey of the work accomplished during the past year is indicated in the following table:

Cleanings	423
Extractions	1,085

*Fillings:* Silver amalgam, 591; silver cement and silver amalgam, 6; porcelain, 271; zinc oxide and eugenol, 193; cement, 3; Gutta Percha, 5; Kryptex, 46; total, 1,115.

*Prosthetics:* Completed full plates, 29; completed partial plates, 5; completed bridges, 5; repaired full plates, 11; repaired partial plates, 8; miscellaneous corrections, 136.

*Oral Treatments:* Vincent infections, canker sores, gingivitis, abscesses, 964. Broken jaw, 2.

*Miscellaneous:* Referred to x-ray, 80; new patients examined, 808; re-examinations, 438; total number of patients treated, 3,317; lectures, 6.

## **X-RAY DEPARTMENT AND LABORATORY SERVICE**

These services have continued to be of great help to the medical service. About the usual amount of work has been accomplished during the year. The director has devoted his entire time to the usual routine procedures. The following table indicates the work completed for the fiscal year ending November 30, 1935:

Autopsies, 46; bacterial cultures (including blood cultures), 22; basal metabolism determinations, 17.

*Blood chemistry:* Blood sugar, 20; N. P. N., 3.

*Blood examinations:* Red blood cell counts, 1,126; white blood cell counts, 1,154; differential counts, 266; hemoglobin determinations, 1,126; coagulation time, 6; bleeding time, 6; blood matching for transfusion, 4; reticulocytes and platelets, 1.

Bacteriological smears (gynecological, etc.), 224.

Pleural fluid examinations, 6.

Spinal Fluids: Gold sols, 169; cell counts, 96; globulin, 96; sputum examinations (for T. B.), 60; stomach contents, 1; stool examinations, 45; tissues sectioned and stained, 148; urinalyses, 3,754.

X-Ray: cases, 790; exposures, 1,365.

## **PUBLICATIONS**

The following papers have been published during the year:

1. " Mental Health, Happiness and Efficiency " by Dr. Clarence A. Bonner, published in the July Scientific Monthly, Volume XLI (July to December) 1935.
2. " Report of a Fatal Case of Fluoride Poisoning " by Dr. Leo Maletz, published in the New England Journal of Medicine, August 22, 1935, Volume 213, No.8, pages 370-372.
3. "What the Danvers State Hospital Stands for in Treatment", by Dr. Edgar C. Yerbury, published in the Monthly Bulletin of the Massachusetts Society for Mental Hygiene, September – October, 1935, Volume XIV, No. 7-8.

## **PSYCHIATRIC CLINICS**

These clinics have been an important part of the work of the hospital as many patients on visit have continued to report at regular intervals, during which a careful check-up has been made of the patients on visit. The usual clinics have been held at Gloucester, Haverhill, Lawrence, Lynn, Malden, Newburyport and Salem. Physicians in the community have referred an occasional case for study at these clinics and in each instance a full report has been made to the one referring the case.

## **ADULT MENTAL HYGIENE CLINIC**

No change has been made during the year in the management of this clinic except that Dr. Leo Maletz took over this important work upon the resignation of Dr. Salomon Gagnon, who was appointed Assistant Superintendent of the Metropolitan State Hospital in Waltham. The usual number



of cases have been seen each week at the Lynn Hospital, where a careful study is made of them and intensive treatment is carried out. As in former years the students from Tufts College Medical School have continued to attend these clinics as part of their month's psychiatric training.

## **CONSTRUCTION REPORT**

In addition to usual maintenance, the following is the work of the department during the past year:

*Carpenters* - Re-laid slates on roofs. Laid new asphalt shingles. Laid asbestos shingles on walls of Harrington ward at Middleton Colony. Renovated Cottages 1, 3, 5, and 7. Made repairs and improvements to Cottages 2, 6, and 9. Laid linoleum. Made bookcases and cabinets for new medical library. Rebuilt cold storage section of Service Building. Sanded and refinished floors in cottages, wards and center building of Main Group. Built forms for new coal trestle. Made alterations and improvements to Grove Hall, and made alterations to laundry for new mangle.

In the shop, carpenters made step-ladders; bushel boxes for the farm; cases, cupboards and bookcases; doors, sash and frames, including seven refrigerator doors and frames; and repaired furniture of all kinds.

*Painters* - Prepared and refinished interior of front center building; exterior of laundry building; exterior and interior of kitchen and dining room building; interiors of Cottages 1, 3, 5, and 7; interior of service building; sun porches of main building; outside fire escapes; chain link fences and summer houses in yards; various rooms in ward buildings; refinished and painted various furniture and beds; prepared top floors of ward buildings for new painting; set 1,600 lights of glass and papered three cottages.

*Masons* - Poured and finished concrete floors in basement; patched and plastered in wards and administration building; put cement lining on cork in

refrigerators of service building; built new catch-basins and put in drains; put in tile floors; built concrete curbs for drives; plastering and repairs in service building and Grove Hall; repaired boiler settings; re-pointed exterior brick walls; put in cement walks; poured concrete coal trestle; re-laid rails in basements; put in foundation for mangle in laundry and did miscellaneous plastering and brickwork for repairs throughout buildings of institution.

*Blacksmith* - Shoed horses; sharpened and made tools; repaired wagons, trucks, farm machinery and tractor; repaired boiler grate bars; made pipe hangers, window grilles and other light iron; repaired fire escapes and made miscellaneous iron work and hardware for other trades.

### **ENGINEER'S REPORT**

The major accomplishments of the Engineering Department for the fiscal year ending November 30, 1935, were as follows:

The 150 K. W .Ridgeway engine was re-bored and a speed changer installed in the flywheel. This change was very necessary as we could not operate in parallel with Danvers otherwise.

Danvers current was connected to our switchboard in July and was used entirely until the heating season.

The ammonia compressor at the power plant was overhauled and new feathers installed in the ammonia valves. New piston rods were also put in.

The small refrigerator boxes in A-1, 2, 3, and J-1 and 2 were replaced with electric boxes. This change allowed the removal of over 3,600 feet of cork-covered brine lines and two brine booster pumps. This old equipment was in very poor condition. The change will greatly reduce the cost of refrigeration at these points.

In addition to the above-named places, we installed electric boxes in places where ice was formerly used. The new locations are as follows: Female T.B., B-1, D-1, and I-1; Dr. Goodman's apartment; Cottage No. I and Male T .B. building.

A new sewer line was installed from the Female T .B. to the main line near the greenhouse. This replaced an old tile line which was too near the surface of the road and had been badly broken.

The tile sewer line from the Male T .B. was removed and cast iron pipe put in its place. This work was done to avoid the possibility of a cracked sewer tile allowing leakage of sewage into the reservoir which is nearby.

A new system of plumbing was designed for Grove Hall. New water main to the building and new sewer line from the building were installed. The most of the roughing in has been completed.

The high-pressure steam line from "J " building to the Male Home was replaced this year. The old line had become unsafe from corrosion and pitting.

A new flatwork ironer was installed in place of the old one. The new machine has a much greater capacity and thoroughly dries the work. The old machine did not dry properly at the speed necessary to get the work done.

A new electric cable was installed from the transformer room in the head house to the laundry to supply A.C. current for the new mangle and other A.C. machines. This cable was installed large enough eventually to carry the whole laundry load.

This department designed equipment and installed same to convert our 80-gallon coffee urns into coffee percolators. This equipment has been very satisfactory in operation.

The problem was put to this department to design and build several metal tables and racks for the service building cold storage rooms, where meat is stored. The only material on hand was a pile of old three-inch boiler tubes. A design has been completed and the tables and racks are being built. The only materials that had to be purchased were galvanized steel sheets for tabletops and a few rivets and bolts.

The problem of finding a practical method of getting food trucks from kitchen to wards was presented to this department. The food trucks had to be able to run inside of an old track through the basements and into elevators. Trucks, after leaving the elevators, had to run on linoleum-covered floors without damage to the linoleum. A design has been worked out, drawings made, and nine trucks have been built.

There have been several contract jobs' completed, which include many things which this department has had to supervise to some extent. They are as follows:

A new water tank of 100,000 gallons' capacity was erected on the site of the old tank.

A complete new system of water sprinklers was installed in each of the "A" and , "J" building attics.

The rest of the main hospital system of attic sprinklers was equipped with new sprinkler heads and changes made to improve the system.

A new wiring system was installed throughout the main hospital and including the two T .B. buildings, Employees' Home, Male Home, Grove Hall, Carpenter shop and Machine shop.

Two extensive bathhouse additions were completed. These contain a lot of very special plumbing, also refrigeration equipment.

The old coal-fired boilers at Middleton Colony were replaced with new boiler oil-fired. Two tanks of 6,000-gallon capacity each were installed in one end the old coal bunkers.

## **FARM REPORT**

Despite a prolonged drought of unequaled severity in recent years, all farm crops yielded a fair return, with the exception of potatoes. These were planted on high ground for the greater part of the acreage and suffered from the lack of moisture most severely. The yield was 2,115 bushels of good quality tubers.

The crop of ensilage corn was not quite up to the yield of former years, but 426 tons were harvested.

The hay crop was better than the previous year, production being 295 tons.

The poultry plant may be said to have had a most satisfactory year: 17,411 dozen eggs; 6,227lbs. dressed fowl, 5,901lbs. broilers; and 359 lbs. chicken were sent to the store room.

The supply of garbage from the hospital to the piggery has been very much curtailed, due to the installation of a cafeteria system in the main dining room in the hospital for patients and employees. This has necessitated an increased amount of grain for the hogs, which necessarily has increased the cost of pork production. The amount of dressed pork sent to the meat room was 75, 715.

Besides the pork production the birthrate was such that we were able to sell to other institution farms in the department, 90 herd of young pigs, which still left us with all the stouts we could winter under cover.

It is to be regretted that our milk production per cow shows a continuous decrease over the last few years, due in large part, no doubt, to the following causes: First, the presence in the herd of infectious mastitis, resulting in much udder trouble frequently of a serious nature, and occasionally causing a partial or complete loss of milk producing ability. Fortunately, mastitis in the herd is now well under control. Second, a widespread incidence of contagious abortion. To overcome the ravages of this disease a well-defined program is being carried out, looking to the ultimate control of this serious ailment of cattle. This program is now being carried out under the direction of Mr. Garrett, Farm Coordinator for the Department, and a competent veterinarian. The nature of this program is such that much improvement will not be apparent for some time. The two unfavorable factors above-mentioned caused considerable breeding trouble, which further lessened the milk supply.

Production from the vegetable garden was well up to the average of former years, the only exception being squash, which was somewhat less than in previous years on account of dry weather.

Much grading was done around the I and J buildings after the old bathhouse was demolished, and a new up-to-date hydrotherapy building erected in its place. This grading was seeded to grass this fall, and will no doubt be an asset to that particular part of the grounds next summer.

Work has progressed steadily on the filter bed project. The cement work and piping has been dug out and removed, and the banks in a large part leveled. The concrete pipe, which takes care of the water in a brook at one time running through the farm, has been extended to a point as near the Ipswich River as was considered practicable for good drainage, covered with about two feet of soil, and the land is now ready for cultivation.

The eight-inch iron soil pipe which served Middleton Colony as a sewer before the completion of the South Essex sewer system has been disinterred and removed.

The Culvert under Dayton Street, near the old filter beds, which was very unsightly at both ends, has been neatly graded up and sown to grass seed, which eliminates a poor looking spot on the farm, although not adding much from a utilitarian viewpoint. The complete reclamation of the land occupied by these abandoned filter beds will doubtless furnish work for a period of several years, both for a large group of disturbed patients as well as for the teams which have to be employed during the winter months when regular farm work is in abeyance.

Drain tile has been laid below the cemetery at Middleton Colony, which will make possible the cultivation of a hitherto impassable swamp, adding about three-quarters of an acre to the arable land.

A number of old apple trees well past their usefulness and serving only as hosts and shelter for disease and insects, have been dug up and removed.

Preliminary work has been started on stoning up the sides of the main ditch running from the piggery to the Ipswich River. This project will be carried forward as soon as the ground freezes hard enough to allow teaming to be done on this low land. The object in doing this work is to straighten out and narrow up this ditch which is more or less irregular and in places twelve feet wide.

The old sand pit adjacent to the abandoned Boston and Maine Railroad track was finally completely filled in and graded, and a fair crop of ensilage corn was raised thereon.

The triangular piece of land, part of field No.9, which was civilized a year ago, was planted this year and a fair crop of string beans was harvested.

A strip of land lying between field No. 16 and the B. & M. right of way was cleaned up this past summer. This land had been unsightly for many years and had served as a dump for all manner of rubbish and debris, but is now cleared completely and will be planted at an early date.

The south side of field No. 16 was cleaned up at the same time. A hollow in field No.29 which has been too wet heretofore for cultivation is now being filled in with overburden from the gravel pit; this hollow lies between Middleton Colony and the old filter beds, and when finished it will straighten out one side of a field, which heretofore had been quite irregular.

The filling in of the sand pit near the Engineer's house at Middleton Colony is almost done and will be ready for hay land in the near future.

Around the base of a new water tower, which was erected the past year, a cement curbing, fifteen inches in height, was built and the oval filled in and grassed over. This is now much more pleasing to the eye than the conditions existing before the old water tower was pulled down. A somewhat similar curbing was built and filled in on the site of the center house of the passageway, which formerly connected the male wards with the old congregated dining room.

Square yards of road built: Much work has been carried on in the construction of a large parking place near the Female T. B. Building. This is a project of considerable magnitude and will require a good deal of time and labor before it is finished. Large quantities of subsoil must be removed and field and crushed stone must be brought for the surface, but when completed this will eliminate a serious parking problem which has existed for some years and is annually getting more acute.

In October, all our main roads and driveways were surfaced with Tarvia and sand and are now in an improved condition. Approximately 350 square yards in front of machine shop were cleaned up and surfaced with Tarvia and sand,



which has greatly improved the means of ingress and egress to the machine, black-smith, plumber, and electrician shops.

The road from the main hospital to Middleton Colony as well as the various roads around the farm have been maintained in a satisfactory condition by scraping at regular intervals with a tractor-drawn road scraper, and by resurfacing with gravel whenever and wherever the necessity arose.

### **RELIGIOUS SERVICES**

The usual religious services have been held each Sunday in the Chapel by both Protestant and Catholic clergymen, as well as the monthly service at the Middleton Colony. The Jewish patients have met with the Rabbi, who held a monthly service as in former years.

The following clergymen have held services at the hospital during the past year: Rev. Remi B. Schuver, Rev. Frank Peverley, Rev. William Grimes, Rev. Wayne Haskell, Rev. Charles M. Charlton, Rev. Kenneth Henley, Rev. John Knight, Rev. Nathan Matthews, Rev. Moses L. Sedar.

### **ACKNOWLEDGEMENTS**

In conclusion, I wish to express my sincere appreciation to all those who have so generously contributed to our library and Entertainment Fund during the past year, and to the societies and organizations who have brought pleasure to our patients through entertainment I also wish to express my thanks to all hospital officers and employees, who have so faithfully discharged their duties and through their efforts have made the work of this year possible. I am extremely grateful to the Department of Mental Diseases and the Board of Trustees for their continued interest and helpfulness.

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-sixth annual report of the Training School for Nurses.

Nurses connected with the school, November 30, 1935:

Principal, School of Nursing	1
Assistant Principal, School of Nursing	1
Chief Supervisor	1
Assistant Supervisors	3
Graduates	30
Hydrotherapists	2
Danvers State Hospital pupil nurses	30
Pupils at Boston City Hospital	15
Affiliating Nurses	9

There were one hundred and fifty-six requests for information in regard to the Training School, thirty-three more than in 1934. Forty-five applications were returned. Nineteen applicants were accepted.

November 30, 1935, our students were as follows: Seniors, 12; Intermediates, 15; Probationers, 18.

The affiliated nurses for the year ending November 30, 1935 were as follows:

### *Somerville Hospital*

Bertha M. French

Louise Boylen

Alda R. Prime

Agnes Gallaher

Gertrude DeCoster

Margaret Rogers

Gladys H. Briggs

Florence L. Hunt

*Leominster Hospital*

Margaret E. Leighton

Alice Bills

Charlotte Gamblin

Caltha W. Staples

Madeline Smith

Brynhilda Larsen

Natalie G. Alterie

Gladys M. Peel

*Henry Haywood Memorial Hospital*

Josephine Pobieglo

Marion E. Moriarty

Roslyn B. Gould

Ruth F. Perritt

Mary R. Ryder

*New England Sanitarium and Hospital*

Roy Smith

*Chelsea Memorial Hospital*

Eleanor F. Powers

Anna L. White

Elsie Olson

Stacy Matikooris

Dorothy Robbins

Evelyn C. Ekstrom