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The Commonwealth of Massachusetts

ANNUAL REPORT

OF THE

TRUSTEES

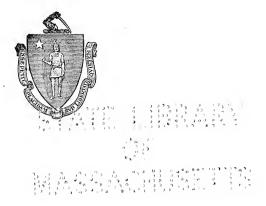
OF THE

WORCESTER STATE HOSPITAL

FOR THE

YEAR ENDING NOVEMBER 30,

1937



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OCCUPATIONAL PRINTING PLANT DEPARTMENT OF MENTAL DISEASES GARDNER STATE HOSPITAL EAST GARDNER, MASS. STATE LIDEART OF MACLASTICOLIS

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TRUSTEES' REPORT

To His Excellency the Governor and the Honorable Council:

In the management of a mental hospital a Board of Trustees can be of great service to the Commonwealth in two ways:

1. Through frequent consultations with hospital officials and the Department, professional and financial policies can be established that will enable the institution to function efficiently and at the same time protect the interests of both patients and taxpayers. It is our belief that a Board of Trustees should not participate in the actual administration of these policies. It is a board responsibility to select a competent administrator who has shown executive ability and set up such checks and balances as are needed to know that the standards as agreed upon by both board and executive are being carried out. Boards should be policy-forming, factfinding agencies. In the day by day operation of the hospital the members find themselves in difficulty because they have not been trained in the intricacies of institutional management. Executive decisions, when made by a group will inevitably be slow, wasteful and cumbersome.

2. One of the important responsibilities of the trustees is to correctly interpret the hospital to the citizens of the community. Such interpretation should be based upon an accurate knowledge of the guiding policies of the institution and particularly upon a confidence in the ability of the administrator in charge of the organization. In spite of the excellent educational work that has been going on in the community over a long period of time there is a great deal of misunderstanding regarding the purpose and function of the mental hospital. The idea of disgrace in connection with mental disease is still the governing factor in establishing the mental attitude of many citizens. Fear and apprehension are still present in the minds of many people. A Board of Trustees made up of men and women who have a certain degree of prestige in the community is a powerful aid in building up public confidence.

Your board wishes to reiterate its belief in the policies of the hospital such as are mentioned in previous reports. These policies are:

1. Active treatment for all patients in the hospital. The idea of the mental hospital as a custodial institution dies hard. If the best interests of the public are to be considered every mental hospital must be a real treatment center and patients must be promptly discharged when they have recovered. This is, in our opinion, the way to an eventual decrease in the cost of mental disease. Such treatment must include the care of physical disease. It is our belief that the mental hospital should be as well-equipped and manned for the treatment of physical illness as the best general hospital.

2. Research is an important part of this hospital and we believe that it is sound policy to support it to the limit of our resources. If the efficiency of the institution is to be judged on the basis of the number of patients cured and discharged, new methods of treatment should be developed as soon as possible. Every effort must be made as rapidly as funds will permit to try new avenues of approach to the problems of mental disease. 3. We feel that the policy of teaching young men and women of the medical and allied professions something about the difficulties of this great public health problem is proper. The tremendous changes that our country is going through and the necessity for the individual to readjust his thinking and emotional life to these changes, make it imperative that those who are fitting themselves to minister to human beings be familiar with the rocks on which lives are wrecked. Nowhere can this be learned more readily than in work with patients who have failed to make satisfactory social adjustments.

4. We believe it is a proper activity of the hospital to work in the field of prevention and it seems to be commonsense to say that the favorable time for such preventive measures is in childhood. The work of the Child Guidance Clinic shows that many children are already laying the ground work for future mental dificulties through bad emotional adjustment and every effort should be made to study and help these children before a worse condition develops.

This is the program and policy of the hospital and your board thoroughly believes in its soundness. But to carry it out more than a program is required. Finances and personnel are important considerations and the extent to which these policies can be carried is limited by the other two factors. The program cannot proceed faster than finances will permit and personnel of the quality and number to make an advance in the march towards the goal is dependent upon the amount of money available. Your board believes that expenditures of money for equipment and personnel to futher the program of treatment, research, teaching and prevention will earn rich dividends for the Commonwealth, not only in decreased cost but in increased human happiness among our citizens. The dreadful toll that mental disease takes in the community is appalling and it is the firm belief of this board that constructive and vigorous measures should be taken to combat it on a large scale and along a considerable front.

The report of the superintendent and other officers of the hospital gives the details of work done during the year. We wish to express our satisfaction with the general activities of the institution and to register our belief that both officers and employees have been diligent and active in carrying out these policies of the Board.

Respectfully submitted,

| WILLIAM J. DELAHANTY, Chairman |
|--------------------------------|
| ANNA C. TATMAN |
| |
| JOSEPHINE ROSE DRESSER |
| John G. Perman |

JOHN L. BIANCHI ROBERT R. PORTLE HARRY F. KENNEY Trustees.

SUPERINTENDENT'S REPORT

To the Trustees of the Worcester State Hospital:

I herewith respectfully submit the following report of the hospital for the year ending November 30, 1937, it being the one hundred and fifth annual report.

The annual report of any hospital is an account of the stewardship of those charged with the responsibility of rendering certain services to the community and expending the money appropriated by the legislature for this service. This report is designed to enumerate the professional services carried on for the benefit of those who have been committed to our care during the year. It is likewise a record of the return to the Commonwealth on the financial investment.

The practice of judging hospital efficiency on the sole basis of per capita cost is misleading. This cost can be cut to a point at which the purpose for which the institution was built is defeated. The hospital with the highest per capita cost may be getting more for the money expended than the one which is maintained at a low rate. It is important in the comparison of hospitals that both quality and quantity of professional work be taken into consideration. Admission and discharge rates are important. The standard of custodial and therapeutic care established by the hospital, and the degree of success with which these standards are carried out governs the cost. The investment return and to some extent the real index of hospital performance must be based on the number of patients returned to the community thus relieving the State of the responsibility of further care. It is only when these factors are studied in conjunction with per capita cost that conclusions can be drawn regarding hospital efficiency.

Mental hospital administration has passed beyond the one-man stage and entered into a period of large scale production. Cooperation, in the best sense of that misused term is essential if these complicated organizations are to function as integrated machines. The administrator must ever keep in mind the triad of factors that motivates every hospital policy. These factors are: *Program, finances, personnel.* These are so interwoven and intermingled that it is impossible to consider one to the exclusion of the others.

There is both a professional and business side to the administration of the mental hospital exactly as there is a technical and business aspect to most industrial activities. The two viewpoints are not antagonistic but supplementary. Like everything in the institution, the finances are a tool for the psychiatric administrator to use in the treatment of patients. But he must know something of its possibilities and what it can accomplish. He must be the master and not the slave of finances.

When the professional group in the hospital can grasp the simple fact that they could not exist without those who carry on the business activities and the latter group realize that the professional work is the only justification for their existence, the entire matter of mental hospital administration will be simplified. If each group will broaden its viewpoint and take in the entire horizon instead of a small segment, the resulting integration would lead to increased efficiency.

The most important factor in the operation of any organization is the people who make up the group. Hospitals are not made of bricks and mortar but of human beings, patients and employees. The progress the institution makes in its advance towards a given goal is dependent, in a large measure, upon the paid personnel. The several aspects of this personnel problem may be outlined briefly as follows:

Number of Personnel. — The present quota of employees in many departments of the hospital is inadequate. The ward service is an outstanding example of this fact. When vacations, days off and sickness are taken into consideration the number actually on ward duty at any given time is entirely too small to permit the very highest standard of psychiatric care and treatment. Increased supervision of patients will mean more treatment, fewer accidents, less destruction and higher standards of care.

A recent study made on the medical and surgical service of this hospital shows the time devoted to bedside nursing care per patient in twenty-four hours to average approximately one hour and twenty-five minutes. The nursing care per individual patient on some of the psychiatric wards is as low as nine minutes per patient for twenty-four hours. The top is one hour and fifty-one minutes on the reception and insulin wards. If the hospital is to maintain what we believe the proper standards of psychiatric treatment more personnel is an absolute necessity, and to carry on special therapies such as Insulin and Metrazol treatment a still further increase in personnel must be forthcoming.

The number of physicians on the medical staff is inadequate to give the close personal supervision to small groups that is essential to good therapy. I am convinced that there will always be a limit to intense psychotherapy with individual patients. The future of psychiatric treatment for psychotics in mental hospitals must be built around group therapy. Small groups of individuals must be treated by physicians rather than dealing with the individual alone, but there is not a sufficiently large medical staff to carry out this procedure properly, and to the point where it will give maximum results. I, therefore, make the following recommendation:

There are certain special positions that are given to all hospitals regardless of size and admission rate. The professional administration of the hospital requires a certain number of individuals whose duties prevent them from actively treating patients. Their positions are highly specialized and contribute to the patients only indirectly and these should not be a part of the general ratio. It is my recommendation that the following positions be considered exclusive of the guota:

Superintendent Assistant Superintendent Clinical Director Director of Laboratory Director of Out-Patient Clinics Dentist Psychologist I would suggest the following for establishing a quota of medical officers for the hospital:

1. One physician for each 125 patients admitted yearly.

2. One physician for each 250 patients in the resident population. This would be equally divided between the Senior and Junior physicians.

What I have said in regard to the ward service is equally true of other depart-

ments. I call attention particularly to the value service is equally true of other departments. I call attention particularly to the clerical staff, and the maintenance group. As treatment increases and the professional load is added, record keeping becomes more complicated, and it adds to the burden of the clerical group. A careful study and survey should be made and repeated at frequent intervals to determine the proper amount of personnel to handle the clerical side of the administration, both financially and professionally.

The Summer Street Department of this hospital is 104 years old. The main hospital was completed in 1878. Both are very old buildings and their maintenance in a high stage of efficiency becomes increasingly difficult each year. The quota of maintenance workmen is entirely insufficient to keep the building up in the way it should be to protect the investment of the state. I also recommend that a cost accounting system be established with the goal of bringing about a more equitable adjustment of the quota of maintenance personnel.

Some flexibility in regard to number would be a great advantage to the administrator in assigning available employees and would concentrate nursing energies during peak loads of the day.

Quality of Personnel. — The selection of ward and other personnel is a part of this problem. Well trained and experienced ward nurses and physicians are indispensible in maintaining high standards of professional care. It is our opinion that the nursing personnel should be built around the graduate nurse rather than untrained attendants. There are many reasons why this should be so, and there will be no dearth of graduate nurses if the field of psychiatry is open to them, and if the salaries paid are commensurate with the investment required for special training. We need an additional classification for nurses to make the service more flexible. The grade required is comparable to that of charge attendant, but being a salary one step higher than the latter. Such nurses should be called floor duty nurses. This would add a great deal to the present service.

The problem of building morale and integrating the organization in the direction of better care and treatment is always with the administrator. The eight hour day has been of inestimable value in this particular regard. It is our belief that eight hours is sufficiently long for anyone to spend with psychotic patients and keep up a high standard of ward administration. Our experience with this system proves to us that it is a forward step in improving the service to the patient.

As an expedient for gaining improved morale, we have found it preferable to handle the disciplinary problems with employees through a group of medical officers and supervisors presided over by the Superintendent or Assistant Superintendent rather than to charge one person with the responsibility of making a decision which penalizes an employee. The employee is protected from the emotional reactions and prejudices that are inseparable where these matters are handled by one person.

Training Personnel. — While higher qualifications required for ward nurses and attendants are useful, they do not take the place of actual training in the specific problems of the particular hospital where they are employed. We have carried on during the year a limited training and educational program for ward personnel. We feel that it is deficient in that the employee is not required to fit himself for the job before he or she actually goes on duty. It is our opinion that every new employee regardless of the department he is employed in should be given a minimum training period to acquaint him or her with the problems of the particular institution, and preferably this training should be given before they take the position. Unfortunately, the number of employees allowed does not permit this to be done.

Therapy. — The emphasis upon therapy has more and more permeated the organization during the past year. It is my opinion that the mental hospital will never attain real prestige in the community until it is organized on the basis of a therapeutic approach, rather than upon a policy of mere humane and kindly care.

While a high standard of custodial care is the foundation for all psychiatric treatment, this in itself is not sufficient. Therapy means the difference between a hospital and the custodial institution. Perhaps the most significant therapeutic development has been the work with Insulin and Metrazol in Schizophrenia. There can be no question that these methods of treatment have brought about changes in the system of individual patients that cannot be explained away as fortuitous in character. The hospital has kept in mind constantly the necessity for caution in the evaluation of results, and is not prepared, even after a considerable experience, in drawing any sweeping conclusions, and only time and careful research work will determine the place in psychiatry of these methods of treatment.

Work has been carried on with the Narcosis treatment, Vitamin B and Photodyne. No definite conclusions can be given, as they are being scrutinized from the research point of view.

It is not my purpose to elaborate on the individual reports. They show in some detail the work of the various departments of the hospital, and a perusal of these reports will give a fair indication of the amount that is being carried on.

CONSTRUCTION RECOMMENDATIONS

These may be considered seriatim. It is understood that all of these recommendations cannot be carried out at once. Each recommendation is considered in order of importance:

A. MAIN HOSPITAL

I. Laundry Building

This is the first step in a program of development that will lead to better efficiency on the business side of the hospital. The present laundry is entirely inadequate for handling the load required in the maintenance of proper standards of patient care. It cannot be adapted to present-day needs. It is proposed to erect a new laundry building with modern equipment on the site of the present garage. The building will be one story but because of the conformation of the land a basement is necessary. This will be adequate to care for the garage needs of the institution so far as the state owned cars are concerned. The laundry will be planned to take care of the future needs of the institution.

II. Conversion of Present Laundry Building into a Storehouse

The present storeroom facilities are wasteful and inefficient. The storeroom of a hospital is the neck of the bottle through which *all* materials and supplies should be received and issued on requisition. When the facilities are so limited that this cannot be done, waste inevitably results. The present laundry building is an ideal location for a storeroom. It is the center of the institution, easily accessible from all points. With a comparatively small expenditure of money the building can be converted into an excellent storeroom with adequate facilities for the proper storage of all supplies.

III. Conversion of the Present Strawbarn into an Industrial Building

The building located in the rear of the institution known as the "strawbarn" is now an adjunct to the storeroom and is used for the storage of heavy materials. If and when the storeroom is moved to the present laundry building this material will be in the central store. The present second floor of the so called "industrial building" will be needed for storage of supplies and the present industrial shops will have to be moved. The sewing room must also be relocated. It is proposed to renovate the present "strawbarn" and convert it into industrial shops, including a sewing room.

IV. Replacement of Floors

A program of floor replacement in the Main Hospital is an important part of a developmental plan. There are two reasons why this should be done. In the first place these old splintered wood floors, soaked with oil and wax are a dangerous fire risk. In the second place they increase the difficulty of keeping down vermin of all kinds. This program will require at least ten years to complete. Only one building can be completed each year.

Floor replacements will also include certain changes that are essential for the proper classification of patients. Dividing the large wards, Washburn, Phillips, Lincoln and Salisbury would enable us to segregate disturbed patients and care for them in smaller units. To make this division of wards additional toilet sections must be built.

V. Modernization of Medical and Surgical Service

A. Improvement of Feeding Facilities. — A complete renovation of the facilities for supplying food to the patients on these wards is badly needed. A basement diet kitchen on each service will permit a centralization of the food service which will tend to lower the cost and increase the efficiency. Trays will be prepared in the kitchen and sent to the ward. They will be returned to the diet kitchen to be washed and no dishes will be kept on the wards. This will relieve the ward personnel of the duty and responsibility of food preparation and permit them to utilize the time in other necessary service to the patients. All tray preparation and dish washing will be centralized in these diet kitchens. Centralization means economy.

B. Installation of Elevators. — A general hospital of four floors without passenger elevators is laboring under a great handicap. Sick patients must be carried up and down stairs. A passenger elevator sufficiently large to take a bed should be installed in each service.

C. Surgical Suite. — The number of examinations, special treatments and surgical procedures carried on by this hospital calls for a better lay-out than we have at the present time. If the present quarters of the Superintendent could be used, a modern surgical and diagnostic suite could be established. The space on the second floor of the Sargent building now occupied by employees could be utilized and an excellent surgical ward for patients would be arranged.

D. Tubercular Wards. — The facilities for the care of tuberculosis are entirely inadequate at this hospital. There are several ways in which this problem can be dealt with. A new building is not indicated but changes can be made in the existing structure which will improve the present way of caring for these tubercular patients.

VI. Employee Housing

If the present policy of employees living in the hospital is to be continued, additional accommodations must be furnished in the very near future. An addition of at least 100 beds to the present Nurses' Home is indicated and the present farmhouse should be converted into a building for physicians and employees. Additional cottages for physicians should also be erected at an early date.

VII. Porches

Additional porches should be built for the Salisbury, Lincoln, Appleton, Woodward, Howe and Phillip wards. The porch on Quinby ward should be demolished and rebuilt. This will permit additional day space.

B. SUMMER STREET DEPARTMENT

The future development of the Summer Street Department should call for careful and serious consideration. There are three possible ways in which the present institution can be planned.

- 1. Continue to use the building for quiet, chronic patients.
- 2. Convert it into a receiving service for the main hospital and a psychopathic hospital for the City of Worcester.
- 3. Convert it into a psychiatric research institute.

Arguments for and against each of these courses may be made but no matter what the future use of the building is to be certain improvements should be made.

I. Replacement of Floors

The need for floor replacement is as acute at Summer Street as it is at the Main hospital. The building has the same kind of wooden floors. These constitute a decided fire risk.

II. Improved Dining Facilities

The need of this improvement is more urgent every year. The present method of feeding patients is wasteful and results in poor food for those patients who are housed there. The present dining room should be used for other purposes and a modern cafeteria system installed in the center of the building on the first floor.

If the building is to be used for either the second or third purpose, certain other changes will have to be made.

II. Porches

Porches should be built on the front of the Summer Street buildings to provide day space and eliminate the over-crowding in this department.

C. FARM

I. Completion of Present Farm Unit, in Order that the Herd may be brought together

The present farm unit should be completed in order that the herd may be brought together. The present separation is expensive and adds to the cost of milk production. This improvement is, of course, based upon the continuation of the policy of mental hospitals producing their own milk. This is a question that should receive serious and careful study. In my opinion, any utilitarian procedure that cannot be defended on the basis of lessened cost or treatment of patients should be eliminated from every institution. The herd can only be defended on the basis of lower costs. It has little importance in the actual treatment of patients in an industrial community like our own.

The matter of food conservation should receive early consideration and records should be installed that will permit an accurate estimate as to whether canning on a commercial scale should be continued in the institutions. Other methods of food conservation should be given more thought and attention than has been the case in the past. A freezing plant for all institutions might be seriously considered. Gardening should always be retained because of its value in patient therapy, but canning or freezing have no such value and must be judged solely on the basis of economy.

In conclusion may I record my sincere appreciation to the Board of Trustees for their continued enthusiastic support. Their aid and counsel has definitely lightened my administrative burdens. I also wish to express my thanks for the loyal cooperation I have received during the year from the officers and employees of the hospital. It is a real pleasure to publicly commend their efforts to improve the service rendered by the Worcester State Hospital.

STAFF CHANGES

Appointments. — Dr. James Watson — appointed assistant physician, January 4, 1937, Psychiatric Service; Dr. Beatrice Kershaw — appointed assistant physician. April 3, 1937, — Medical Service; Dr. Joseph De Marco Jr., appointed assistant physician, September 27, 1937 — Medical Service; Dr. Frances Cottington promoted from interne to assistant physician, November 1937; Dr. Edward J. Kelley appointed assistant physician — November 8, 1937 — Medical Service.

Resignations. — Dr. Thomas C. Murray appointed assistant physician December 19, 1935, resigned December 17, 1936, to continue studies in pediatrics. Dr. Beatrice Kershaw resigned September 25, 1937, to teach in Boston. Dr. Benjamin Simon, Senior Physician, was given leave of absence for one year to study at Queen's Square Hospital in London, September 16, 1937.

PSYCHIATRIC SERVICE Morris Yorshis, M.D., Clinical Director

Movement of Population

During the year there were 540 first admission patients received — 44 less than the previous year but there were 34 more patients readmitted. The total number received was 800. The total number discharged was 402; patients discharged as recovered, 134; patients discharged from the hospital as improved, 167; patients out of the hospital on visit or otherwise absent, 489.

Diagnosis of the patients admitted:

| General paresis . | | | | | | | | | | | | 31 |
|---------------------|-------|------|-------|--------|-----|-------|-------|--------|-------|-------|----|-----------|
| Suffering from psyc | hosis | wit] | h cei | rebral | art | erios | clero | osis o | r sen | ile d | e- | |
| mentia . | | | | | | | | | | | | 139 |
| Dementia praecox | | | | | | | | | | | | 123 |
| Without psychosis | | | | | | | | | | | | 70 |

Among the discharges:

| General paresis . | • • | • | .• | • | . • | | • | • | • | • | 17 |
|---------------------|------|------|-------|--------|-----|--|---|---|---|---|-----|
| Psychosis with cere | brai | arte | riosc | eleros | sis | | | | | | 20 |
| Dementia praecox | | | | • | | | | | | | 106 |
| Without nevchosis | | | | | | | | | | | 101 |

The increase in the number of patients with arteriosclerosis presents a very difficult problem since these patients rarely recover — 20 such patients being discharged from the hospital during the fiscal year. Thus the age of the hospital population is definitely increasing, necessitating more personnel and more wards to be devoted to debilitated senile patients. The number of patients admitted and discharged as without psychosis shows the frequency with which various agencies and local hospitals are making use of the hospital a diagnostic and treatment facility. During the year, 27 patients were discharged from family care and placed on visit; 4 patients were discharged outright as recovered. There were 108 patients that remained in family care on September 30, 1937.

In order to further the opportunities for intensive treatment, the psychiatric service was divided into male and female reception units and a continued treatment service.

The reception service because of its greater concentration on therapy necessitated increasing the ratio of employees to patients. Prior to the segregation of the chronic patient from the acute, the ratio on the psychiatric services was one employee to twelve patients. Now it is one to eight thus enabling the physicians on each acute service to arrange carefully worked out therapeutic programs.

Insulin and metrazol therapy, sodium amytal narcosis and encephalography are all now part of the daily ward work.

Remodeling of the Quimby building made it possible to include into it a portion of the admission ward. This combination unit has provided single rooms for the acutely disturbed patients immediately adjacent to the renovated hydrotherapy unit.

During the year the new therapeutic approaches to schizophrenia were instituted on the female service. Courses of insulin and metrazol treatment were carried out with encouraging results. The use of endocrine preparations in certain patients suffering from involutional melancholia was undertaken and the results obtained warrant continued employment of this form of treatment.

During the past year the new hydrotherapy building for female patients was opened for use. This event greatly increased our therapeutic facilities and resulted in the availability of this form of treatment for a much larger number of patients. The utilization of the newest mechanical devices in the various hydrotherapeutic procedures reduced to a minimum the factors that were not conducive to optimal results. The addition of the new cafeteria for disturbed patients enabled one to feed the patients without interrupting the hydrotherapeutic treatment. Even the most disturbed patients could, after a period of re-education, conduct themselves at the table in a decorous manner.

The completion and use of an out-door enclosure for disturbed female patients made outdoor exercise available for a greater number. Furthermore the enclosure greatly increased the efficiency with which such patients could be cared for.

PSYCHOTHERAPY

Dr. Conrad Wall has continued along the usual lines of psychotherapy, persuasion and symptomatological analysis being the chief weapons of attack. With psychoneurotics attention has been devoted to methods of approach. Verbal methods were tried entirely with the exception that unfruitful attempts were made to interest several schizophrenics in finger painting. In general, the indirect approach was better, that is, more productive than a direct question and answer method. It was found that a fairly good rapport could be obtained with some patients who had been non-productive by the usual methods of investigation. The conduct of some of these could be changed but there was no evidence that the essential psychosis was affected.

During the latter half of the year some attention was devoted to psychological interference with cases under insulin treatment. As a patient approached a stage when his contact with the outer world seemed to be increasing, he was interviewed

at length one or more times. Attention was devoted to explaining anything which was puzzling him and persuading him that his psychotic symptoms, *e.g.*, auditory hallucinations, might be coming from him. This seed of doubt as to the source of his symptoms having been planted, at a later date direct persuasion was attempted. Although the results were not conclusive and could not be separated from the effects of the insulin, this procedure seemed to be of definite value. Attempts at suggestion while the patient was emerging from a hypoglycemic state were completely unsuccessful. Whether the suggestions were related or not related to the psychosis made no difference.

RECREATIONAL FACILITIES

The traditional hospital dance was discontinued and in its place a "therapeutic dance" substituted. These affairs were usually held on the eve of a holiday. Special decorations were planned to fit the occasion. A select group of patients were picked by the psychiatrists.

Improved facilities made possible by the addition of a second motion picture projector provided more enjoyment of the weekly pictures with a definite reduction of disturbance among patients who have been ill long periods.

Outdoor recreational opportunities were increased. Concerts on the lawn, a new outdoor dance pavillion, a skating rink and soft ball games were some of the specific privileges extended to patients under active therapy.

CONTINUED TREATMENT WARDS

The continued treatment wards first under the direction of Dr. Benjamin Simon, and now headed by Dr. William Holt, is for the first time a separate division of the psychiatric service. Most of the patients on this service have been in the hospital over one year or are in the senium. Despite this, therapy was instituted at once among a group of chronic disturbed patients. Amytal narcosis, metrazol, endocrine preparations, have all yielded results, thus making chronic untidy uncooperative patients more agreeable, working, and institutionally adjusted. Chemical sedation is much less utilized, and seclusion and hydrotherapy can be more carefully prescribed. In the re-classification of patients, all luetics under active treatment were placed on wards nearest to the luetic clinic.

FAMILY CARE AND EXTRA-MURAL PSYCHIATRY

The year 1937 saw the provision of a physician to devote his full time to family care patients and Out-Patient Department problems. This was most urgently needed and hope is expressed that many of the community problems can thus be handled — without requiring hospitalization. Dr. James Watson, the physician, has recommended the discharge of a few of the patients in family care. By contacting these patients much oftener than had been possible heretofore he has been able to dispose of cases that otherwise would have been allowed to become chronic and difficult to discharge ultimately from the hospital.

CERTIFICATION IN PSYCHIATRY

This year the hospital executives became certified by the American Board of Psychiatry and Neurology. The medical staff is especially grateful to Drs. Leo Alexander and Paul Yakovlev, both of whom gave freely of their time instructing the staff in neuroanatomy and neuropathology. Dr. Theodore Von Storch contributed by his illustrative lectures on neuro-roentgenology. All of the senior staff made application to take the board examinations in December.

STAFF LUNCHEONS

For some years it has been the custom to have men from various research centers visit the hospital and address the staff on subjects allied to psychiatry. This year we were very fortunate in having Dr. Stanley Cobb discuss phases of the cerebral circulation. Dr Tracy Putnam reviewed some of the research activities of the Neurological Unit at the Boston City Hospital. Dr. Houston Merritt spoke about neurosyphilis. Dr. Julius Loman spoke on "Intracranial Hydrodynamics." The above papers, in addition to the added stimulus of the reviews of the literature by various staff members at the journal club and the increased knowledge disseminated by the instructors in neuroanatomy, neuropathology and neuroroentgenology all helped to raise the level of the staff conferences, which in the past year have emphasized "what can we do for the patient."

With a newly equipped neuro-roentgenological outfit and surgical instruments and a consultant neurosurgeon the hospital is in an excellent position to carry out remedial measures not available heretofore.

During the past year a definite quota of students has been established for the hospital. In 1937 approximately 60 senior medical students from Tufts College Medical School and Boston University School of medicine were in residence, in addition to the other students in disciplines allied to psychiatry.

NURSING DEPARTMENT

Katherine M. Steele, R.N., Superintendent of Nurses

With the increased emphasis on therapy at the Worcester State Hospital, the problems involving the nursing care of these patients have increased.

In the early months of 1937, it became necessary to go over the ratio of personnel to patients on the different services and redistribute some of the personnel in order to have the highest quota on the services where the most treatment was done.

For the medical and surgical service, the ratio established at this time was one employee to four patients. On the research service, where insulin and metrazol treatment of schizophrenics has become a part of the routine, the quota is one employee to 4.5 patients. On the acute psychatric service, which includes the admission wards, the wards for the acutely disturbed newly admitted patients and the treatment wards, the ratio established was one employee to nine patients. The continued treatment service and the Summer Street Department, where the more chronic cases are placed, have a ratio of one employee to thirteen patients. These ratios were figured, of course, on the number of positions now assigned to the nursing service and the personnel quota is far too low to give adequate nursing care to any of these groups of patients. The ratio on the medical and surgical service and research, we believe, should be one to three; on the acute psychiatric, one to six; and on the continued treatment service, one to ten. This would mean a coverage of the wards during vacations and sickness and would make available a concentration of nursing personnel during emergency situations. At present, the coverage of the wards is adequate only when all personnel is on duty. Every employee has one day off each week which means that one-seventh of all employees are off each day. Vacation of two weeks is granted each employee during the year. These vacations are distributed as evenly as possible throughout the year. Approximately fourteen employees are on vacation at one time. Illness varies with the season, two to ten employees being sick at one time. Thus, at a glance, it is obvious that the number on duty every day is much less than 382, the total nursing payroll.

The type of personnel necessary is another important consideration. The graduate nurse personnel has been concentrated on the research, medical and acute psychiatric services with about twice as many nurses on these services as on the continued treatment services and the increase necessary is entirely for graduate nurses' position, not for attendant positions because the therapy used is demanding more expert nursing skill and knowledge.

The patients being treated with insulin and metrazol must be most carefully watched during treatment and it is essential for nurses to be trained in these techniques and the observations of the reactions of these patients.

The rating of head nurses and charge attendants has continued to be a very useful and fair method of summarizing a nurse's ability and usefulness. These individual rating slips are given to the physician in charge of the service, the supervisors on the service, and anyone else who has immediate supervision and knowledge of the person's work. This group of individuals, with the superintendent of the hospital and the superintendent of nurses, evaluate the individual ratings with comments. The person rated is then shown the result with suggestions as to how she can improve her work and efficiency. The system is invaluable to the administration when promotions are to be considered. As a rule, an individual is rated automatically every six months, but a special rating may be held at any time for consideration of promotion or unsatisfactory work. This relieves any one person of the entire

responsibility for an employee's standing and gives the employee a feeling that his rating is not due to judgment of one or two people.

When mistakes of a serious nature are made by ward personnel, statements by those concerned are submitted to the nursing office. A conference is then held of the same group that rates the individual. The persons under criticism are given an opportunity to present their side of the story. The decision as to handling the case and the punishment is made by the majority of the group in conference.

The ward therapy charts continue to be valuable in maintaining the standard of nursing care at a high level. It is a method for checking the number of bed baths, shaves, hair cuts, entertainments, recreation and occupation given the patients each day of the month and is summarized and criticized by the physician in charge of the service, the supervisor and the administration.

NURSING EDUCATION

Miss Evelyn Pettee, a graduate of Peter Bent Brigham Hospital, who received her B. S. in nursing, June, 1937, at Teachers College, Columbia University, and who has been a member of the nursing staff for several years, is the present Educational Director.

Worcester Hahnemann Hospital, Memorial, and St. Vincent's Hospitals have continued to send 7 of their students to us every three months for psychiatric affiliation, 28 students being taught during the year. The lecture course was given to the large group of nurses from these hospitals for whom a psychiatric affiliation could not be provided.

Curriculum for Affiliates:

| | Therapeutic Approaches | | | | | | | | | | | |
|---------------------|------------------------|----------------|--------|-------|-----|-------------------|---|------|----|--|--|--|
| | Hour | s | | | Hou | ırs | | | | | | |
| Psychiatry | . 20 | Hydrotherap | у. | . 8 | 8 | Music — radio | | | 2 | | | |
| Psychiatric nursing | . 23 | Occupational | therap | у. а | 3 | Psychotherapy | | | 1 | | | |
| Ward Clinics . | . 20 | Social service | э. | . 4 | 4 | Recreational | | | 4 | | | |
| Four staff conferen | 0.000. | and excursions | to the | State | ò ! | School for Feeble | m | inde | he | | | |

Four staff conferences; and excursions to the State School for Feeble-minded, the Child Guidance Clinic, and the Worcester Court.

There have been a number of requests for affiliation from general hospitals this year which could not be granted because of inadequate housing facilities and due to the student quota permitted by the Department of Mental Diseases.

Five post-graduate nurses were graduated in May, 1937, All of these nurses have continued in psychiatric nursing, one in a private mental hospital in New York State, two at this hospital and two returned to their native country, Panama, to assist in conducting a hospital for mental patients there. Four students were enrolled in the class of 1937. We feel that as these nurses have all stayed in psychiatric work, the course is well worthwhile and pays for itself in improved care of mental patients.

Curriculum for Post-Graduates:

| | | | | Hours | H | Hours |
|--------------------|------|-------|------|-------|---------------------------------|-------|
| Psychiatry . | | | | . 30 | Psychiatric Nursing | . 30 |
| Dynamic Psycholo | gyo | f Beh | avio | 15 | Development Behavior of Childre | en 5 |
| Sociology . | | | | . 15 | Ward Clinics | . 40 |
| Neuro-Anatomy | | | | . 10 | Therapeutic Approaches | . 61 |
| Endocrinology | | | | . 5 | | |
| Sixty Staff Confer | ence | s. | | | | |

This includes occupational therapy, recreational therapy, physiotherapy, religion, music and radio.

| Visitations: | |
|-------------------------------|----------------------------------------------|
| State School for Feebleminded | Lancaster School |
| Child Guidance Clinic | Baldwinsville Hospital Cottages for Children |
| Worcester Court | Florence Crittendon Home |
| Lyman School | Norwood School Project. |
| | |

Miss Margaret Diamond has continued to instruct all attendants and new employees in the hospital routine and the essentials of the care of mental patients.

| Ho | urs | | | | | \mathbf{H} | ours |
|----|--------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| | 6 | Practical Nursing | | | | | 16 |
| | 1 | Hospital Routine | | | | | 4 |
| | 2 | Hydrotherapy | | | | | 4 |
| | 1 | 0. T . | | | | | 2 |
| | | | | | | | 36 |
| • | Ho | $\begin{array}{cccc} Hours & & 6 \\ & & 1 \\ & & 2 \\ & & 1 \\ & & 2 \\ & & 1 \end{array}$ | Hours 6 Practical Nursing 1 Hospital Routine | Hours 6 Practical Nursing . 1 Hospital Routine . | Hours 6 Practical Nursing 1 Hospital Routine | Hours . 6 Practical Nursing . 1 Hospital Routine | Hours H . . 6 Practical Nursing 1 Hospital Routine . . |

OCCUPATIONAL THERAPY DEPARTMENT Dorothea W. Cooke, O. T. Reg. Director

For the past year the occupational therapy department has devoted all its abilities toward the further development of a program that will provide therapeutic activity for the greatest number of patients. Realizing that the present ratio of occupational therapists to patients makes individual treatment impossible for more than a small percentage of the total patient population, we have aimed at a more comprehensive program whereby the trained registered occupational therapist shall direct others in the carrying on of a daily therapeutic program for all patients.

The occupational therapy department is responsible for the supervision of the three following services, directly and indirectly:

I. NURSES' WARD CLASSES

This is the first indirect service under the direction of occupational therapy.

The department is responsible for a supply room, which is open three times a week at regular hours for the nurse to obtain craft articles, materials, patterns, instructions, and advice for projects to be carried out on the ward under her supervision. This type of occupational activity has been started for the senile, the infirm, the disturbed, and all patients who are unable to adjust to industrial or work therapy, due to physical and mental contra-indications. The policy of this hospital states that the psychiatric nurse has a very distinct and definite responsibility in any program of occupation designed as a treatment measure. Ward housekeeping and the simpler handicrafts are all introductory types of work that serve to prepare the patient for the next step in his or her rehabilitation, namely, industrial therapy.

It is the responsibility of the occupational therapist to guide, to stimulate, and to assist the nurse through teaching and suggestions of various kinds of activity best suited to the patient, but the therapist's efforts during this period should be directed, not towards the patient (except indirectly) but towards the nurse herself, in order to obtain the best and most effective results for the greatest number of patients.

II. PRE-INDUSTRIAL SHOPS FOR MEN AND WOMEN

These shops are located on each service and are directly supervised by a registered graduate therapist.

1. *Male Shop.* — Classes are pre-industrial in nature for the physically handcapped patient who has progressed beyond the nurse's ward class. We find as a rule that male patients adjust to industrial placement without a period of orientation in the shop.

2. Female Shop. — There are two types of classes in this shop.

(1) Morning Class. — For further re-education and habit training of the continued-treatment patient who has progressed in the nurse's ward class to a point where she is potentially a candidate for hospital industry.

(2) Afternoon Class. — For orientation and determination of the therapeutic needs of the newly admitted patient. We have found that some sort of work, however limited in the beginning, makes it easier for the newly admitted patient to adjust to the new circumstances of living in the hospital. A summary of the patient's occupational, avocational, and educational hsitory with her aptitudes, interests, and capabilities is presented by the therapist to the senior physician at a weekly clinic for consideration of an occupational program. The ultimate aim is a therapeutic placement in industry as soon as possible, in an endeavor to restore the patient to economic and social adequacy.

III. INDUSTRIAL THERAPY

This is the therapeutic use of hospital maintenance industries for the benefit of the patient through work activities. It does not indicate just any work in contrast to idleness, but work prescribed by the physician for its physical demands, its emotional effects, its social influences, its mental stimulus, and its integrating power in relation to the individual patient.

We consider industrial or work therapy an indirect service which necessitates the following responsibilities of the occupational therapist:

1. The therapist shall introduce the patient to the job, following the physician's industral assignment based on the patient's needs.

2. The therapist shall guide, stimulate, and instruct employees who are directing the work of the patient in the hospital maintenance industries.

3. The therapist shall act as a liaison between the physician and the industrial supervisor, interpreting the physician's therapeutic aims in adapting a patient to a particular task, so that the employee's supervision shall be intelligent and therapeutic and his knowledge of the characteristics and peculiarities of the patient shall be thorough.

During the past year patients have been placed in the various services as follows:

| FEMALE PSYCHIATRIC TREATMENT SERVICE (Main Hospital) Industrial Office: Monthly Average Total industrial placements by prescription. 109.7 Adjustments and promotions. 90.8 Promotions from pre-industrial shop 18.9 Patient Census: 372.8 Total Patient population 372.8 Patients in industry 268.8 Patients in pre-industrial shop 32.9 Patients occupied in nurses' ward classes as able 71.1 MALE PSYCHIATRIC TREATMENT AND RESEARCH SERVICE (Main Hospital) Industrial Office: 101.3 Adjustments and promotions 71.1 Placements of newly admtted patients directly in industry 24.9 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total industrial placements by prescription. 109.7 Adjustments and promotions 90.8 Promotions from pre-industrial shop 18.9 Patient Census: 372.8 Total Patient population 268.8 Patients in industry 268.8 Patients occupied in nurses' ward classes as able 71.1 MALE PSYCHIATRIC TREATMENT AND RESEARCH SERVICE (Main Hospital) Industrial Office: 101.3 Adjustments and promotions 71.1 |
| Patient Census: 372.8 Total Patient population 268.8 Patients in industry 268.8 Patients in pre-industrial shop 22.9 Patients occupied in nurses' ward classes as able 32.9 Patients occupied in nurses' ward classes as able 71.1 MALE PSYCHIATRIC TREATMENT AND RESEARCH SERVICE (Main Hospital) 101.3 Industrial Office: 101.3 Adjustments and promotions 71.1 |
| Patient Census: 372.8 Total Patient population 268.8 Patients in industry 268.8 Patients in pre-industrial shop 22.9 Patients occupied in nurses' ward classes as able 32.9 Patients occupied in nurses' ward classes as able 71.1 MALE PSYCHIATRIC TREATMENT AND RESEARCH SERVICE (Main Hospital) 101.3 Industrial Office: 101.3 Adjustments and promotions 71.1 |
| Patient Census: 372.8 Total Patient population 268.8 Patients in industry 268.8 Patients in pre-industrial shop 22.9 Patients occupied in nurses' ward classes as able 32.9 Patients occupied in nurses' ward classes as able 71.1 MALE PSYCHIATRIC TREATMENT AND RESEARCH SERVICE (Main Hospital) 101.3 Industrial Office: 101.3 Adjustments and promotions 71.1 |
| Patients occupied in nurses' ward classes as able |
| Patients occupied in nurses' ward classes as able |
| Patients occupied in nurses' ward classes as able |
| Patients occupied in nurses' ward classes as able |
| MALE PSYCHIATRIC TREATMENT AND RESEARCH SERVICE (Main Hospital) Industrial Office: Total adjustments by prescription. Adjustments and promotions 71 |
| Industrial Office: Total adjustments by prescription |
| Adjustments and promotions 71 1 |
| Adjustments and promotions |
| Placements of newly admitted nations directly in industry 24.0 |
| |
| Promotions from pre-industrial shop |
| Patient Census: |
| Total patient population |
| Patients in industry 264.0 |
| Patients in pre-industrial shop 200 |
| Patients in industry264.0Patients in pre-industrial shop20.0Patients occupied on ward as able35.5 |
| |
| FEMALE CONTINUED TREATMENT SERVICE (Main Hospital) |
| Total industrial placements by prescription |
| Patient Census: |
| Total Patient population |
| Patients in industry 210.0 Patients in pre-industrial shop 14.4 |
| Patients in pre-industrial shop |
| Patients occupied in nurses' ward class as able |
| MALE CONTINUED TREATMENT SERVICE (Main Hospital) |
| Total industrial placements by prescription |
| Patient Census: |
| Total Patient population |
| Patients in industry |
| Patients occupied in ward classes as able |
| |
| SUMMARY (Main Hospital) |
| Female Male |
| Total monthly average number of patients in hospital861.5895.4Total monthly average per cent of patients in pre-industrial |
| |
| shop.3.8%2.23%Total monthly average per cent of patients in industry55.5%73.04% |

For the remaining patient population, ward classes on the medical and psychiatric services were conducted by nurses, under the supervision of the Occupational Therapy Department. The number of patients varied, as was to be expected, due to the physical and mental condition of the patient.

We are fully cognizant of the fact that a well-balanced program of occupational therapy should have organized recreational activity. We are looking forward to the time when a well-trained experienced recreational director will be a member of our department. Until such a time recreation on the wards is limited to the nurses' initiative and ablity to promote ward parties, simple table games, pool, ping pong, and marching. Community recreational activity is the responsibility of occupational therapy and this past year included dances, community singing, holiday celebrations, and all social activity for the general patient population.

SOCIAL SERVICE DEPARTMENT

Barbara Estes, M.A., Chief Social Worker

At the time of our last annual report the Social Service Department had on a temporary basis Mrs. Adriene Wise to work with Miss Harrington on Family Care. Many applications were investigated during the six months period from September 21, 1936, to April, 1937, in an attempt to find more boarding homes, thus enabling us to place more patients on this basis. It was found that because of the rise in food prices, it was extremely difficult to find families willing to accept patients for the \$4.50 per week paid by the State for boarding patients. Several homes were found which would take patients at \$7 per week and up, but for the same economic reason, few of our families felt themselves able to pay even that sum for their relatives. Consequently, we were unable to place the number of patients deemed essential for the maintenance of two workers on family care and when her second appointment of three months was concluded Mrs. Wise was not reappointed. We feel that it is impossible for one worker to supervise over a hundred patients scattered over such a large area, and in addition, to have the burden of finding and investigating new boarding homes.

Our routine work has progressed smoothly during the year. Statistics include the following:

| Histories taken | 407 | Patients placed in Family Care . | 82 |
|---------------------|-----------|----------------------------------|----|
| Investigations made | 905 | Patients status changed from | |
| Interviews held . | 3,175 | family care to visit | 24 |

As in previous years, certain cases have been selected by the staff for intensive follow-up work by the Social Service Department. Many of these have involved close cooperation with outside agencies to whom we wish to express our sincere appreciation for their insight and aid.

Educational Work

We have had, as usual, during the past year, social service students, three from Smith College and two from Simmons College, Schools of Social Work. They carry on well their share of the work of the department and are of value to the permanent workers as they serve to keep us acquainted with the latest theories and trends in the field of social work as taught by their respective schools.

Our part in the training program of the hospital has continued with lectures to medical students and nurses, as well as the special program arranged for our own students. Lectures have been given by the different workers in the department to clubs or other interested groups outside the hospital. We welcome always the opportunity to explain the role of the social worker in a mental hospital. Two workers attended the conference for supervisors at Smith College in July, while the State Conference of Social Work, held in Boston in November, was attended by all members of the department.

Several projects in research have been suggested to us by other departments, which would be of value to both services. With our present staff of four paid workers, we are unable to carry on efficiently anything more than the essential routine work. We believe that two additional paid workers, one to be assigned to family care, would enable us to cooperate more fully with other departments in the hospital and would increase markedly the efficiency of our service.

RADIO DEPARTMENT Wallace F. Searle, Director. Routine Activites

After seven years of experimentation and careful study we have found that the radio system does definitely contribute to the happiness and health of patients. Because of this fact we make an effort to run the "station" along commercial lines with as careful attention to details as would be paid in any network station. An increasing effort has been made to increase the responsibility of patients working in the department giving them every opportunity to manifest new thought, new ideas, initiative, and originality.

The activities of the radio director can be divided into the following items:

1. Teaching newly assigned patients to operate and announce over the radio.

2. Operating and announcing when patients are ill or discharged until another patient is assigned. Sometimes this is for a period of weeks for only a certain type of patient can be assigned to the department.

3. Minor repairs and trouble finding on the radio system. This includes relay troubles, "shorts", loose connections and trouble that is not of a highly technical nature.

4. It is the business of the radio director to announce all important programmes such as staff members, local talent from Worcester, W.P.A. bands etc.

5. When either patients, employees, or outside talent perform over W.S.H., it is necessary for the radio director to rehearse their program, accompaning them on the piano if necessary, taking microphone tests and playing and announcing the feature when broadcast.

6. Several features a year are presented over the radio by the Director including daily news bulletins, and reading of papers prepared by staff members. Both piano and organ recital series have also been presented.

7. During the year many lectures and talks have been given by the radio director to outside groups including clubs, church groups, study groups, etc. A series of lectures is also given to different nursing groups and to the occupational therapy department.

8. The musical end of church services is under supervision of the Radio Director who also presides at the organ at the main hospital and "fills in" at the Summer Street branch when necessary.

9. Several community sings throughout the year are conducted in the chapel for patients.

10. All activities in the chapel are indirectly under the supervision of the radio department.

11. All typing of records, reports, indices, requisitions, orders, notes, programs, etc. are done by the director.

New Features

After having written to all state hospitals in the country requesting them to fill out a questionaire relative to music and radio in their institution it was necessary to compile the information we received. This information is so complete that we know practically how many loud speakers there are in every state hospital; how many hours a day they operate; if they have a centralized installation; if they use the radio for therapeutic purposes; the cost of their equipment. It is an interesting fact that one State Hospital allows their most musical patients to go down once a month to the local broadcasting station and put on a program. It is not hard to imagine the amazement of the public upon hearing good musical programs broadcast by mental patients.

With the installation of A. C. current many vital changes were necessary with the radio equipment. About a 1,000 feet of copper shielded wire were installed in the rear of the radio panel to prevent leakage, feedbacks, etc. Two splendidly constructed rheostat volume controls were installed in microphone and master panels. All low level lines were isolated from high level lines in lead conduit. A tapering battery charger was installed to take care of the signal system. Elimination of four amplifiers were made possible by feeding the receiving set directly from our new 20-watt power amplifiers. New acoustically treated material similar to Celotex was installed both in the control-room and studio. This insures better quality, less echo, and has a tendency to make both rooms sound-proof.

From year to year new demands are being made upon our radio system. Among some of these is our present system of march recordings to the wards. The wards both on the male and female side call the radio when they wish their patients to exercise. We in turn play about 10 minutes of march music, and they march the patients up and down the wards. Request programs from various wards continually come to the radio room. Sometimes these are numbers which we have in our victrola list of recording and again it may be for some program from the outside.

A plan is under way which will in about five years give us a fairly complete index of victrola recordings but also a complete replacement of radio loud speakers. The plan is to purchase one new album of records a month and also replace one speaker a month until the entire hospital is equipped with permanent magnete speakers.

MEDICAL AND SURGICAL SERVICE

W. Everett Glass, M.D., Director

The following report summarizes briefly the activities of the medical and surgical service from December 1, 1936 through November 30, 1937.

1. Movement of population on service:

There were 1,082 cases admitted to the service during the past year: this is an increase of 127 cases over the figures of last year. One hundred and thirty six cases were admitted for study only. The largest number of cases were admitted during the months of December, January, February, March and April. During. the year 402 males and 403 females were discharged. Discharges from the service detailed as to physical condition are shown in the following tables:

Table I

| | | | | | | | | Male | Fe male | Total |
|---------------|-----|-------|----|--|--|--|---|-----------|----------------|-------|
| Recovered and | imp | prove | ed | | | | | 365 | 373 | 738 |
| Not improved | | | | | | | | 13 | 12 | 25 |
| Not treated | | | | | | | • | 24 | 18 | 42 |

2. Death:

During the fiscal year 268 patients died as compared with 204 the preceding fiscal year. The following table gives the details of the deaths and autopsies.

Table II

| | | Male | Female | Total |
|---------------------------------------------------------|--------|------|--------|-----------|
| Total number of deaths | | 155 | 113 | 268 |
| Total number of autopsies | | 79 | 52 | 131 |
| Total number of medico-legal cases | | | | 26 |
| Autopsies confirmed ante-mortem diagnoses (70 $\%$ or 1 | more) | | | 123 |
| Autopsies confirmed partially ante-mortem diagnos | es (50 |) | | |
| to 70%) | | | | 7 |
| Autopsies refuted ante-mortem diagnoses (less than 5 | | 1 | | |
| | ,,,, | | | |

Autopsy percentage of deaths, 48.9.

During the year 12 patients died at the Summer Street Department.

The autopsy percentage is 48.9%, a decrease of 11.68% from last year. A total of 131 autopsies were done as compared with 124 during the last fiscal year. The survey of the deaths reveals that as usual pneumonia caused the largest

number of deaths, 110 or 41.03%. This is an increase over last year and is directly related to the pneumonia epidemic at this hospital during the year.

In this group there were 31 lobar pneumonia which is equivalent to 29.47%. There is a marked increase over last year. The average age of the pneumonia group is 69.82 years, a slight increase over last year.

Seventy-two patients died as a result of senile changes. This is 26.86% of the total deaths. The average age of this group is 73.46 years, a slight increase over last year's figures.

Twenty-one or 7.83% died from general paresis. The average age of this group is 51.86 years. This is an increase of 5.46 years when compared to this group last year.

Sixteen of 5.97% died from pulmonary tuberculosis. The average age is 54.93 which is about the same as it was last year.

Cancer was the cause of death in 8 cases or 2.98%. This is practically the same figure as last year.

Eight patients died directly or indirectly as a result of fractures, 2.98%. The average age of this group is 76.6 years.

Six patients or 2.23% died as a result of chronic nephritis; the average age was 51 years.

Twenty-seven patients or 10.12 % died of miscellaneous causes.

Table III

| Consultations: | | | | | | | |
|----------------------------------|--------|-----------------|-------|------|-------|-----|-----------|
| Eye | 104 | Medical . | | | | | . 13 |
| Ear, nose and throat | 17 | Orthopedic | | | | | . 6 |
| Gynaecology and Obstetrics . | 23 | X-ray . | | | | | . 1,361 |
| General Surgery | 47 | Others . | | | | | . 31 |
| There is no significant change i | n this | part of the med | dical | serv | rice. | The | ere was a |

decrease of 46 surgical consultations and about 212 X-ray consultations.

Obstetrics:

a

There was a decrease in the activity in this department during the past fiscal year. A total of 4 babies were born during the year, as compared with 9 the preceding year. Two of these babies were premature and died soon after delivery.

• Table IV

| Surgery Detailea: | | | | |
|-------------------------|---|---|------------------------------|----------|
| Amputation, minor . | | 4 | Spinal manometrics | 37 |
| Appendectomies | | 3 | Suturing | 79 |
| Bimanual exams (anaes.) | | 1 | Teeth extrac. (anaes.) | 12 |
| Biopsies | : | 8 | Thoracotomy | 2 |
| Blood transfusions . | | 4 | Tonsillectomies | 4 |
| Chest aspirations . | | 4 | Suprapubic cystotomy and re- | |
| Cauterization of cervix | | 3 | moval of urethral stone | 1 |
| Cholecystectomy . | | 1 | | |

There has been a considerable increase in the number of encephalograms done. A very convenient encephalogram chair was designed and constructed at the hospital. During the year new surgical instruments have been added to our present equipment and we now have a quite complete set of instruments for neurosurgery.

| Circumcision | | 1 | Skin Grafts | 2 |
|----------------------------|---|--------|-----------------------------------|---|
| Cystoscopic examinations | | 1 | Reparing vesico vaginal fistula | 1 |
| Dilatation and curettage | | 2 | Injection and ligation of vari- | |
| Deliveries | | 3 | cosities | 1 |
| Dislocations | | 1 | Reduction of volvulus | 1 |
| | | 30 | Excision of ingrown toenail . | 1 |
| Enterocolostomy | | 1 | Dlivery, episiotomy with repair . | 1 |
| Exploratory laporatomy | | 2 | Suspension of uterus | 1 |
| Foreign body removal. | | 4 | Chalazion | 1 |
| Fracture closed, reduction | | 37 | Reduction of volvulus, 1st stage | |
| Hemorrhoids | | 1 | colostomy | 1 |
| Herniorrhaphies | | 7 | 2nd stage colostomy | 1 |
| Hydroceles | | | Aspiration of Bursitis | 2 |
| Hysterectomies | | 3 | Thoracotomy and rib — resection | 1 |
| Incision and drainage . | | 125 | Removal of corn | 1 |
| Injection of varicosities | | 39 | Prolapsed rectum repair | 1 |
| Intestinal obstruction . | | 3 | Ventral hernia | 1 |
| Perineal repairs | | | Sigmoidoscopic, reduction of vol- | |
| Pneumothorax | • | 8 | voulus | 1 |

19

| P. | D. | 23 |
|----|----|----|
| | | |

| Proctoscopic examination | | 1 | Manipulation of fracture, nasal |
|--------------------------|--|----|---------------------------------|
| Rib resection | | 2 | bones 3 |
| Saphenous vein ligation | | 1 | Salpingoophorectomy 3 |
| Sigmoidoscopes | | 11 | Oophorectomy 1 |
| | | | Excision of new growth 2 |
| | | | |
| Total | | | |

There has been a considerable decrease in the amount of work done in this item. The decrease is due mainly to the decreased number of pneumothoraces done. This year 8 were done as against 335 last year.

m 11 TT

Clinics Detailed:

20

| | Tc | ible | V | | | | |
|-----------------------------------|--------|------|---|--|--|-----|--------|
| Eye examinations | | | | | | | 748 |
| Ear, nose, and throat examination | ns. | | | | | | 422 |
| Gynecological examnations . | | | | | | | 412 |
| Luetic treatments | | | | | | | 8,515 |
| Small-pox vaccinations | | | | | | | 564 |
| Lumbar punctures | | | | | | | 521 |
| Typhoid and para-typhoid inocula | ations | ι. | | | | | 1,987 |
| Hinton tests | | | | | | | 1,358 |
| Others | | | | | | | 107 |
| Pneumococci-antigen injections. | | | | | | · . | 2,076 |
| | | | | | | | |
| Total | | | | | | | 16,710 |

There were about 2,000 less treatments and examinations given this year; the total was boosted by the pneumococci-antigen injections making this year's total about the same as last year. There were 1,561 fewer typhoid and para-typhoid inoculations this year. This accounts mainly for the drop in the total figure exclusive of pneumococcic antigen injections.

Dressings Detailed:

| | | Tab | le V | 7I | | | | | | |
|----------------------------|-----|-----|------|----|--|---|---|---|---|--------|
| Abrasions and lacerations | | | | | | | | | | 2,102 |
| Boils and carbuncles . | | | | | | | | | | 770 |
| Burns | | | | | | | | | | 506 |
| Infections | | | | | | • | | | | 2,922 |
| Ulcerations | | | | | | | | | | 1,259 |
| Others | | | | | | | | | | 3,359 |
| Total "out patient" dressi | ngs | | | | | | | • | • | 10,618 |
| Total "ward" dressings | | | | | | • | | | | 31,906 |
| | | | | | | | | | | |
| Total | | | | | | • | • | • | • | 53,442 |

There is no significant change in this figure over last year.

Employees. — During the year 2,499 examinations and treatments were given. There were 1,264 males and 1,235 females in this group. This is a decrease of 871 over the last fiscal year. Sixty-two males and 89 females were hospitalized during the year. Thirteen males and 17 females required operations. The total number of working days lost by hospitalization was: males 371, female 657, a total of 1,028, an increase of 33 days over the preceding fiscal year. During January 12 farmers and milk handlers were given physical checks and during February 6. PD 23

Dental Report:

| | | | | Tab | le V | II | | | |
|-----------------------|-------|----------|-------|-------|------|----|------------------|---------------------|-------|
| | | | | | | | Main Hospital | Summer St. Dept. | Total |
| Alveolectomy . | | | • | | | | . 5 | | 5 |
| Bridges | | | | | | | . 1 | - | 1 |
| Cleanings . | | | | | | | . 1,420 | 94 | 1,514 |
| Examinations (routin | ne) | | | | | | . 3,505 | 244 | 3,749 |
| Extractions | | | | | | | . 945 | 75 | 1,020 |
| Fillings | | | | | | | . 810 | 76 | 886 |
| Microscopic examina | tions | | | | | | . 1 | _ | 1 |
| Plates | | | | | | | . 22 | 1 | 23 |
| Repairs | | | | | | | . 22 | 1 | 23 |
| Treatments (miscella | neou | s) | | | | | . 1,541 | 130 | 1,671 |
| X-ray diagnosis | | <i>.</i> | | | | | . 69 | 4 | 73 |
| Others | | | | | | | . 2 | - | 2 |
| General anasthetic ca | ases | | | | | | . 14 | 1 | 15 |
| Total examination | ons a | nd ti | reati | ments | | | . 8,357 | 626 | 8,983 |
| Total patients e | kamin | ned o | or tr | eated | | | . 4,018 | 290 | 4,308 |

There has been no significant change in this department in spite of the fact that we were without a dentist and dental hygienist during the month of March.

| Table | VIII |
|-------|------|
| | |

| X-ray Department | An | alysis | : | | | | | | | | | | |
|--------------------|-----|--------|---|---|---|---|---|---|---|---|---|---|-------|
| X-ray plates used | | | | | | | | | | | | | 2,080 |
| Patients examined | | | | | | | | | | | • | • | 1,163 |
| Foot and fingerpri | nts | (sets) |) | | | | | | | | | | 36 |
| Photographs . | • | | | | | | • | | | • | | | 226 |
| Lantern slides | • | | • | | | • | • | | • | | • | • | 152 |
| _ | | | | | | | | | | | | | |
| Total | • | • | • | • | • | • | • | • | | • | • | • | 3,528 |

The work in this department would probably have been greatly increased over last year had it not been for the fact that we were without a technician for a short period.

| Table . | IX |
|---------|----|
|---------|----|

| Physical Therapy Depa | ırtme | nt: | | | | | | | | |
|-------------------------|--------|-----|-------|-------|------|--|--|--|---|-------|
| Utra-violet (Air-cooled | l) | | | | | | | | | 1,850 |
| Ultra-violet (water-coo | oled) | | | | | | | | | 195 |
| Baking . | | | | | | | | | | 1,690 |
| Massage | | | | | | | | | | 1,054 |
| Diathermy (Medical) | | | | | | | | | | 283 |
| Diathermy (Surgical) | | | | | | | | | | 63 |
| Muscle re-education | | | | | | | | | | 1,021 |
| Others | | | | | | | | | | 94 |
| Total number of t | reatr | nen | its a | nd te | ests | | | | • | 6,250 |
| Total number of p | oatier | nts | trea | ted | | | | | | 3,936 |

There has been a decrease in the amount of work done in this department during the year; this is probably due to the fact that there has been a change in the method of treatment of paretics. With the old method a paretic's temperature was raised to 104° F. and then allowed to fall to normal; ten such treatments were given. Under the new treatment the temperature is raised and held between 105° F. and 106° F. for a period of five hours; six such treatments are given making a total of 30 hours at a temperature of about 106° F.

LABORATORY REPORT

Joseph M. Looney, M.D., Director

The total number of determinations carried out in the laboratory was 47,534 as shown in detail below. It will be noted that one item records 2,816 determinations for chemical analyses of brain. These resulted from the duplicate analyses of 8 brains for 22 different constituents in each of 8 different regions. Inadvertently this item was omitted from last year's report which should have listed the analyses of 11 brains. During the year there were 284 deaths and 137 autopsies. There was a marked fall in the ratio of autopsies to deaths, only 48% being obtained as compared with 61% for last year. This fall in percentage can be in large measure ascribed to the increased demand on the medical service during the pneumonia epidemic last winter and the fact that the service did not have its full complement of physicians. Considerable more pathological work could be carried on if it were possible to have a pathological interne at all times. Under the present arrangement of a definite assignment of a place for such an interne it is expected that we will be able to procure suitable men with less difficulty: We have asked for approval of the A. M. A. for the laboratory for training of pathological internes.

It should be pointed out that only 840 tissue sections were cut during the past year. These were chiefly from the surgical specimens and from the tissues studied for the clinico-pathological conferences. There has accumulated a large amount of histological work which should be cleared up, and which would occupy the full time of another technician. It is hoped that some arrangement may be brought about which will permit us to add a full time histological technician to our staff.

The training of college graduates as laboratory technicians has been carried on as in the past. Many more requests for technicians have come to the laboratory than could be filled. In October five of the technicians took the examinations given by the American Society of Clinical Pathologists and were approved.

The monthly clinico-pathological conferences have continued to exert their educational and stimulating action on the staff members and students.

Doctor Freeman with Doctor Glass presented a paper before the Worcester County Medical Society in February, entitled the Relation of Adrenal Glands at Autopsy to Blood Vitamin C. Since September he has been conducting a course in pathology weekly for the Worcester County Dental Society. He attended the annual convention of the American Society of Clinical Pathologists, and the American Board of Pathology at Philadelphia May 30 to June 5. There he took the examination of the Board and was certified as a specialist in Pathology. He also served for two months as pathologist at the Worcester Cancer Clinic.

The Director, with Doctor Randall, attended the annual meeting of the American Society of Biological Chemists in Memphis, April 21–24. He also attended the annual meeting of the Association for the Study of Internal Secretions, and the Annual Convention of the American Medical Association June 6–12 at Atlantic City. He talked before the student body of Holy Cross College in February on the "Chemistry of the Living Cell".

The work on the investigation of the physiological changes brought about by insulin in schizophrenia, and also the study of the oxidative mechanisms in these patients has been carried on during the year. Preliminary work on the assay of various hormones has been started and will be pushed vigorously the coming year.

| | | | | TORY REPORT | | | |
|--------------------|----|------|--------|-----------------------|-----|-----|-------|
| | | YEAR | ENDING | SEPTEMBER 30, 1937 | • • | | |
| Bacterial cultures | | | | Vital capacities . | | | 630 |
| Bacterial smears | | | 453 | Nitrogen partitions . | | · . | 1,663 |
| Basal metabolisms | | | 836 | Plasmodia malaria . | | | 4 |
| Blood cultures . | | ۰. | 67 | Platelet counts . | | · . | 9 |
| Blood Creatinine | | ۰. | 925- | Reticulocyte count | | • | 56 |
| Blood N. P. N. | ۰. | | 1,840 | Schillingrams | | | 69 |
| Blood sugars | | | 3,412 | Blood fragility | | | |
| Blood urea . | | | 625 | Ascitic fluid | | | 30 |
| Blood uric acid | | | | Animal inoculation | | | `11 |
| Blood counts (red) | | | 2,938 | Ascheim-Zondek tests | | | 7 |

| Blood counts (white) | • | | Stomach contents | | 345 |
|---------------------------------------|---|------------|-----------------------------------------------|----|----------------------|
| Blood counts (diff.) . | | 3,085 | Autogenous vaccines . | | 18 |
| | | 3,300 | Glucose tolerance | | 78 |
| Clotting times | | 11 | Galactose tolerance | | 7 |
| Bleeding times | • | 10 | Toxicological exam. | | 1 |
| | | 40 | Blood total prot | | 6 |
| | | 19 | Blood bromide | | 77 |
| Spinal fluid (cells) | | 500 | Blood globulin | | 1 |
| Spinal fluid (gold) | | 487 | Blood potassium | | 166 |
| Spinal fluid (chlor.) . | | 480 | Blood Creatine | | 40 |
| Spinal fluid (gold) | | 487 | Blood potassium | | 166 |
| Spinal fluid (glob.) | | 488 | Blood linoids | | 611 |
| Spinal fluid (sugar) . | | 488 | Blood lipoids Blood vitamin 'C' | | 930 |
| Spinal fluid (prot.) | | 484 | Blood choles, free | | 592 |
| Spinal fluid (diff.) | | 5 | Milk (bact. count) | | . 4 |
| Sputa | | 865 | Milk (bact. count) . Milk (broth cultures) | | 30 |
| Stools | | 264 | Milk (blood plated) . | | 11 |
| Tissue sectons | | 840 | Milk (occult blood) | ÷ | 483 |
| Urines | | 7,562 | Phytotoxic index . | ÷ | 120 |
| Mosenthal tests | | 27 | Agglutinins. | | 2 |
| P. S. P. | | 3 | Pneumococci typing | Ċ | 191 |
| P. S. P | | 372 | Skin Test (undul. fever) | | 4 |
| | | | Blood glutathione | | - 80 |
| Urine (bile) | | 10 | Blood acetone | | 1 |
| Urine (urobil.) | | 10 | Urine (qualit. sugar) Bang abortug test | Ċ. | $4\overline{3}$ |
| | | 3 | Bang abortus test . | ÷ | 3 |
| Blood typing | | 25 | Milk alkalinity test . | ÷ | 56 |
| Blood calcium | | 177 | Haldane basal metabolism | | 48 |
| Blood chloride | | 130 | Water analysis . | Ċ | 9 |
| Blood cholesterol | | 804 | Choline-esterase Study | Ċ | 326 |
| Blood hematocrits | | 274 | Blood phosphotase . | | 1 |
| Blood sedimentations | | 203 | Blood sodium | : | $\hat{\overline{2}}$ |
| Blood gases | | 230 | Blood sodium Blood albumin | · | 1 |
| Blood Ph | | 142 | Urine Ph | • | 16 |
| Blood lactic acids | • | | Blood CO | · | 10 |
| Blood lactic acids Blood magnesium | • | . 1 | Urine Ph | • | 1 |
| Blood phosphorus . | · | 163 | Skin test (trichiniasis) | • | 1 |
| Chemical analyses of 8 bra | | | Sam test (trenmasis) | · | 1 |
| Total | | | | | 44,718 |
| 100000 | • | • • | | • | 2,816 |
| | | | | | <i>2,010</i> |
| | | | | | 47,534 |
| Autopsies | | | | | 137 |
| | • | | | • | . 101 |

RESEARCH DEPARTMENT

D. Ewen Cameron, M.D.

The activities of the Research Department during the last year can readily be divided into two periods During the first of these the work of the research personnel was largely devoted to individual projects, and during the second the emphasis was placed on cooperative studies.

During the first part of the year a considerable amount of work was carried out by the Psychology Department under Mr. Shakow on the concept of adaptation. This represented a continuation of work started in the previous year. It is considered that one of the ways in which the schizophrenic patient deviates most markedly from the normal is in his lessened capacity to carry out adaptation either at the psychological or physiological level. The work on this topic has taken three main directions:

A. The study of mechanisms of adaptation in dynamic situations, *e.g.*, reaction-time experiments;

B. A study of the personality, e.g., Rorschach, tautophone, thinking experiments;

C. A study of the genetic factors which may be responsible for maladaptatation, *e.g.*, play experiments.

During the same period the laboratories, under the direction of Dr. Joseph M. Looney, carried out extensive investigations of the effects of the insulin treatment of schizophrenia. In particular the glucose tolerance of patients before and after treatment was studied, and a comparison of the blood gases and blood minerals at the same time intervals was made. Dr. Randall carried out work on the effects of the treatment on the blood lipids and the blood choline esterase. From studies of the latter substance it is anticipated that we shall be able to obtain more precise data in regard to the behavior of the vegetative nervous system.

In the psychiatric group Dr. Angyal was engaged in writing a monograph on the psychology of personality. He also carried out studies on the relationship between the pre-psychotic personality and the type of schizophrenia. Dr. Cohen investigated the type of imagery found in schizophrenic patients and contrasted this with what was found in a group of normal individuals. In addition, work on the effects of high doses of thyroid in schizophrenia, which had been initiated in the previous year, was carried to completion. Dr. Cameron carried on further research into the action of insulin in schizophrenia. In particular this action on lipid metabolism, on other endocrine glands, and on tissue oxygenation was studied. In association with Drs. Hoagland and Rubin, the effects of insulin treatment on the brain wave patterns were considered, and changes in the pattern which concurred with clinical improvement were discovered.

Dr. H. Freeman continued his work on the mechanisms involved in heat regulation. The insensible perspiration was separated into its two components, that from the skin and that from the lungs. Simultaneously basal metabolic determinations were made with the idea of determining with which phase of the insensible perspiration this physiological function would correlate to the higher degree. The fractionation of the insensible perspiration has not been done before with any accuracy, and from this point alone the work is unique. Its ultimate importance remains to be determined when the analysis of the data has been completed, but it should shed a new light on many of the mechanisms involved in the temperature regulation of the body. Studies are also being made upon the effects of preventing the loss of moisture from the lungs by having both patients and normal controls breathe air having a high humidity and a high termperature. Preliminary results show that schizophrenics are not so capable of making readjustments to this situation as are normals. This seems to indicate a sluggishness of the autonomic mechanisms.

Dr. Fuchs has been studying the effects of adrenalin upon the heart rate and blood pressure of normals and schizophrenic patients. The response of the heart rate in both groups showed little difference. The blood pressure response of the patients was, however, significantly reduced. This difference disappeared in response to a second injection. These results appear to indicate that the peripheral mechanism of autonomic reactivity is not imparied in schizophrenia.

During the second part of the year plans were set up for a cooperative attack upon a central project. It had been felt for some time that as we had now established the fact that certain functions in the schizophrenic patient showed definite deviations from normal, it would be desirable to study what happened to these abnormalities as the patient either improved or grew worse. In this way we anticipate that we shall be able to obtain a better idea as to which are the primary abnormalities and as to how the abnormalities are interrelated. Accordingly a program was set up in which abnormalities of O_2 metabolism, of the vegetative nervous system activity, and of the function of integration were studied both in patients in whom spontaneous remission occurred and in patients who were treated By means of this closely integrated program it is anticipated that with insulin. we shall obtain not only the above-mentioned information but also we shall be able later to assess insulin treatment more adequately, and shall also be able to obtain more precise information as to its underlying principle. Furthermore, data are being gathered at the same time in regard to what constitutes the most favorable type of case for treatment, and efforts are being made to establish objective indices of treatment. In this regard the relationship of the systolic-diastolic pressures

has previously been found to be much more rigid in schizophrenics than in normals, and we are investigating the question of whether this becomes modified as treatment progresses. Further studies of the changes which occur in the personality formation as clinical improvement or recession occurs are being carried out by Dr. Angyal. The delta index and the percentage of the time during which the alpha wave is present in the brain wave pattern are receiving further study by Drs. Hoagland and Rubin. The latter is also carrying out an extensive mapping program of the wave pattern shown by the schizophrenic brain, and in association with Dr. Angyal is endeavoring to map the areas of brain atrophy. The clinical picture presented by patients showing these areas of atrophy has already been reported by Dr. Angyal. The brain wave work has been much advanced by the acquisition of a two-channel apparatus and complete shielding of the experimental room.

Apart from the central projects, certain other investigations are being carried out. Dr. Cohen is investigating the recently introduced convulsive treatment of schizophrenia. His investigations not only include evaluation of the therapeutic aspects of the method in recent and chronically disturbed patients, but cover in addition the study of the effects of the drug used, metrazol, on memory and on cognition.

In September Dr. Franics H. Sleeper, who had been Resident Director of Research since the establishment of the department ten years ago, and to whose energy and capacity for organization the Research Department owes much of its present development, resigned to devote full time to his duties as Assistant Superintendent. He was succeeded by Dr. D. Ewen Cameron. At the same time the psychiatric group, which had been brought up to strength by the appointment of Dr. L. S. Chase and Dr. C. Wall, was established as a department under the direction of Dr. A. Angyal. Dr. Chase is engaged upon the study of the effects of vitamin B₁. Previous work in this department has shown that there is reason to suspect that the schizophrenic patient is deficient in O_2 catalysts, and consequently it is felt that a study of the action of known catalysts may well be significant. In addition he is conducting a study of doubt as it constitutes a factor in the schizophrenic psychosis. Dr. Wall is engaged upon an analysis of the personality factors in a group of patients who have been treated with insulin. The laboratories, under Dr. J. M. Looney, in addition to carrying on the extensive work on the O₂ metabolism and the vegetative nervous system involved in the central project and vitamin B, investigations, have attempted to establish methods of assaying certain of the endocrine products which are used in clinical investigations. The material in various dosages has been injected into sexually immature rats and the uterus. ovaries, and tubes weighed. The vagina is checked for histological findings. The testes, prostate, and epididymis of the male rats are also weighted. Variation is such that it is necessary to use more than five rats for each experiment in order to evaluate the results. At present the laboratory is working with animals of constant age and later will endeavor to run a series in which the weight factor is kept constant. Dr. Randall has just completed a preliminary report of brain chemistry studies which he has carried out in both normal controls and patients over a period of several years. Until now, comparatively little of an exact nature has been published in regard to this very important field. The Psychological Department, under Mr. Shakow, has taken an active share in the central project and in the B, studies. In addition, work has been carried out on the thinking of schizophrenics, and cooperative studies with other departments have been carried on. Dr. Rosenzweig has studied the personality effects of sex hormones in association with Dr. Hoskins, and Mr. Shakow and Dr. Rodnick have worked on the problem of integration in association with Dr. H. Freeman. Further studies of the value of the play technique as a means of approaching inaccessible patients were carried out by Mr. Shakow and Dr. Rosenzweig.

To the Biometric Department under Mr. Jellinek has fallen the task of integration and evaluation of the data afforded by the various research projects. The major analyses of data during the past year comprised brain chemistry data, brain wave data, insensible sweating, skin temperature, skin resistance, reaction time, adrenalin reactions, phytotoxic index, mitotic index, revision of the basal metabolic data, and the effects of social situations on the performance of schizophrenic patients. Special work was devoted to improvements in the analysis of variance and to the comparability of the degrees of heterogeneity in two samples. At present the Department is much interested in theorems and techniques which can be applied to the evaluation of single individuals, and to expressions of total variability of an individual, as well as in other descriptive indices of the physiological status. Production of satisfactory methods of evaluation of progress and regression in individuals is of the greatest moment for further investigation, particularly of therapeutic agents. By this means it may be confidently anticipated that the errors which arise from subjectivism can be greatly reduced.

The papers published by the members of the Research Staff are incorporated in the complete list of publications from the hospital.

PUBLICATIONS FROM THE WORCESTER STATE HOSPITAL December 1, 1936 — November 30, 1937

Books

- 1. Administrative Psychiatry. William A. Bryan. Published by W. W. Norton, New York, December 1936, 349 pp.
- 2. Psychiatric Nursing. Katherine McL. Steel. Published by F. A. Davis, Philadelphia, 1937, 370 pp.

Papers

- 1. A pharmacodynamic study of the autonomic nervous system in normal men. The effects of intravenous injections of epinephrine, atropin, ergotamine and physostigmine upon the blood pressure and pulse rate. Harry Freeman and Hugh T. Carmichael. Jour. Pharm. & Exper. Ther. 58: 409, December 1936.
- 2. Estimates of intra-individual and inter-individual variation of the erythrocyte and leukocyte counts in man. E. Morton Jellinek. Human Biology 8: 581, December 1936.
- Studies in seasonal variation of physiological functions. 1. The seasonal variations of blood cholesterol. E. Morton Jellinek and Joseph M. Looney. Biometric Bulletin 1: 83, December 1936.
- 4. The testing of certain hypotheses by means of lambda criteria with particular reference to physiological research. Part I. The drawing of one or more samples from completely or partially specified populations John W. Fertig. Biometric Bulletin 1: 45, December 1936.
- The bilateral symmetry of skin temperature. Harry Freeman, Forrest E. Linder and Ralph F. Nicherson. Journal of Nutrition. 13: 34, January 1937.
 The pressor effects of prolonged administration of glycerin extract of adrenal
- The pressor effects of prolonged administration of glycerin extract of adrenal cortex. R. G. Hoskins and J. H. Fierman. Endocrinology 21: 119, January 1937.
- 7. Play technigue in schizophrenia and other psychoses. I. Rationale. II. An experimental study of schizophrenic constructions with play materials. Saul Rosenzweig and David Shakow. Amer. Jour. Orthopsychiat. 7: 32, Jan. 1937.
- Studies of Motor Function in Schizophrenia. II. Reaction Time. Paul E. Huston, David Shakow and Lorrin A. Riggs. Jour. Gen. Psych. 16: 39, January 1937.
- Studies in the personality structure of schizophrenic individuals. I. The accessibility of schizophrenics to environmental influences. II. Reaction to interrupted tasks. Maria Rickers-Ovsiankina. Jour. Gen. Psych. 16: 153, January 1937.
- 10. An improved technic for the determination of insensible prespiration. Ralph F. Nickerson. Jour. Lab. & Clin. Med. 22: 412, January 1937.
- Schools of Psychology: A Complementary pattern. Saul Rosenzweig. Phil. of Sci. 4: 96, January 1937.
- The oxygen and carbon dioxide content of the arterial and venous blood of normal subjects. Joseph M. Looney and E. Morton Jellinek. Am. Jour. Physiol. 118: 225, February 1937.
- 13. Can the Biochemist produce life? Joseph M. Looney, M.D., Hormone 19: 17, February 1937.

- 14. Psychiatric manifestations associated with disease of the central nervous system with special reference to multiple sclerosis. A point of view. Louis H. Cohen and Arthur J. Gavigan. Jour. Nerv. & Ment. Dis. 85: 266, March 1937.
- 15. The clinical significance of numerical measures of scatter on the Stanford-Binet. Albert J. Harris and David Shakow. Psychological Bulletin, 34: 134, March 1937.
- Electrical brain waves in schizophrenics during insulin treatments. Hudson Hoagland, Morton A. Rubin and D. Ewen Cameron. Jour. of Psych. 3: 513, April 1937.
- 17. Suprarenal cortex therapy in vomiting of pregnancy. II. The results in 78 cases. William Freeman, J. M. Melick and D. D. McClusky. Amer. Jour. Obs. & Gyn. 33: 618, April 1937.
- 18. A method for the study of concept formaion. Eugenia Hanfmann and Jacob Kasanin. Jour. of Psych. 3: 521, April 1937.
- These complex living cells. Joseph M. Looney, M.D., Science Digest 1: May 1937.
- 20. The effect of artifically raised metabolic rate on the electroencephalogram of schizophrenic patients. Morton A. Rubin, Louis H. Cohen and Hudson Hoagland. Endocrinology. 21: 536, July 1937.
- The encephalograms of schizophrenics during insulin treatments Hudson Hoagland, D. Ewen Cameron and Morten A. Rubin. Amer. Jour. Psychiat. 94: 183, July 1937.
- 22. Some significant factors in juvenile recidivism. Milton E. Kirkpatrick, M.D. Jour. of Orthopsychiat. 7: 349, July 1937.
- 23. Mirror behavior in schizophrenic and normal individuals. Saul Rosenzweig and David Shakow. Jour. Nerv. & Ment. Dis. 86: 166, August 1937.
- 24. The "delta index" of the electro-encephalograms in relation to insulin treatments of schizophrenia. Hudson Hoagland, D. Ewen Cameron and Morton A. Rubin. Psych. Rec. 1: 196, August 1937.
- 25. The experimental study of psychoanalytic concepts. Saul Rosenzweig. Character and Personality 6: 61, September 1937.
- 26. Experiences in the insulin-hypoglycemia treatment of schizophrenia. D. Ewen Cameron and R. G. Hoskins. J. A. M. A. 109: 1246, October 16, 1937.
- Some observations on Sakel's insulin-hypoglycemia treatment of schizophrenia D. Ewen Cameron and R. G. Hoskins. Schweizer Archiv. fur Neur. u. Psychiat. 39: 180, October 1937.
- 28. The effect of prolonged insulin therapy on glucose tolerance in schizophrenic patients. Joseph M. Looney and D. Ewen Cameron. Proc. Soc. Exp. Biol. 37: 253, October 1937.
- 29. The effect of pain on the heart rate of normal and schizophrenic individuals. Louis H. Cohen and Mervin Patterson. Jour. Gen. Psych. 17: 273, October 1937.
- 30. Disturbances of activity in a case of schizophrenia. Andras Angyal, M.D. Arch. Neur. & Psychiat. 38: 1047, November 1937.
- 31. The electro-encephalogram of schizophrenics during insulin hypoglycemia and recovery. Hudson Hoagland, Morton A. Rubin and D. Ewen Cameron. Amer. Jour. Physiol. 120: 559, November 1937.
- 32. A comparison of the performance of matched groups of schizophrenic patients, normal subjects and delinquent subjects on some aspects of the Stanford-Binet. Charlotte Hall Altman and David Shakow. Jour. Ed. Psych. 28: 519, October 1937.

P.D. 23

PSYCHOLOGY DEPARTMENT

David Shakow, M.A., Director

Statistically the records for the year indicate the following as to the patients and other subjects worked with in the Psychology Department.

Psychometric and Experimental Studies

| House House patients | | • | | Inc | dividuals camined 216 | Tests Given 732 |
|---------------------------------|--|---|---|-----|-----------------------------|-----------------------|
| Schizophrenia research patients | | | | | 128 | 293 |
| Out-Patients | | | | | | |
| School clinics | | | | | 370 | 435 |
| Adult delinquents | | | | | 16 | 51 |
| Non-patients (inc. employees) | | | | | 184 | 557 |
| | | | | - | | |
| Total | | | • | | 914 | 2,068 |

Besides the routine psychometric work with patients the above figures include the work done with patients on various established research projects. Among these were the comparative reactions of schizophrenics and normal subjects to: situations involving aspiration; different length warning intervals in a reactiontime setting; startle stimulation in respect to adaptation as shown by the galvanic skin response, insensible perspiration and pulse rate; adrenalin and atropin as it effects the galvanic skin response; indistinct sound patterns as presented by the tautophone. The effects of sex hormones on the behavior and mental content of a patient studied daily is also included.

A number of other projects which are in earlier stages of development are, however, not included. Among these may be mentioned: a study of the relative abilities of schizophrenics and normal subjects to handle material in social, personal and impersonal settings; a revision of an optionary (type of questionaire) to frustration reactions; a comparison of group and individual presentation of vocabulary tests.

The papers from the Department during the year were as follows:

A. Published:

All papers published from the Psychology Department for the year are included in the hospital list of publications.

- B. Accepted for Publication:
 - Rosenzweig, S. and Shakow, D. Mirror behavior in schizophrenic and normal individuals. J. Nerv. & Ment. Dis. 1937.
 - Cohen, L. H. and Paterson, M. Heart-rate reactions to pain stimulation. J. Gen. Psychol. 1937.
 - 3. Harris, A. J. and Shakow, D. Scatter on the Stanford-Binet in schizophrenic, normal and delinguent adults J. Abn. & Soc. Psychol. 1938.
 - 4. Altman, C. H. and Shakow, D. A comparison of the performance of matched groups of schizophrenic patients, normal subjects and delinguent subjects on some aspects of the Stanford-Binet. J. Educ. Psychol. 1938.
 - 5. Rickers-Ovsiankina, M. The Rorschach test as applied to normal and schizophrenic subjects. Brit. J. Med. Psychol. 1938.
 - Kasanin, J. and Hanfmann, E. An experimental study of concept formation in schizophrenia. 1. Quantitative analysis of the results. Am. J. Psychiat. 1938.
 - 7. Shakow, D. and Goldman, R. The effect of age on the Stanford-Binet vocabulary score of adults. J. Educ. Psychol. 1938.
 - 8. Hanfmann, E., Rickers-Ovsiankina, M. and Goldstein, K. A psychological study of a case of post-traumatic dementia. Brit. J. Med. Psychol. 1938.

C. Prepared for Publication:

- 1. Hanfmann, E. A study of thinking in schizophrenia by means of the Healy P. C. II.
- D. Read at meetings:
 - 1. Radlo, G. Aspiration behavior in schizophrenic patients. Meeting of Lewin psychologists, Harvard, December 1936.

- 2. Rosenzweig, S. Application of experimental method to psychoanalysis. Psychol. Colloquium of Brown & Yale Universities, January 1937.
- 3. Rosenzweig, S. Frustration as a co-ordinating concept for experimental psychopathology N. R. C. Conference on Experimental Neuroses, Washington, D. C. April, 1937.

Considerable progress has been made on the analysis of three extended studies, two on memory, one of normal subjects and the other on different diagnostic groups of psychotic subjects, and the other on the intellectual level of different groups of psychotic subjects as measured by the Stanford-Binet. An attempt was also made to integrate the results of the psychological studies of a period of some eight years. Although this was primarily done for a report for Dr. Gregg of the Rockefeller Foundation it was the basis of various reports and discussions at the hospital.

Dr. Rosenzweig has been carrying the major part of the teaching load outside the Department. He has, in the last year, given courses in psychology to our postgraduate nurses and to the nurses at Memorial Hospital.

Members of the Department attended various scientific meetings among which were the Lewin meetings in Cambridge, December 1936, the meeting of the American Orthopsychiatric Association in New York, February 1937, and the meeting of the American Psychological Association in Minneapolis, September, 1937.

On the whole, the year was a productive one from the standpoint of papers published and experimental projects completed. There is still a great deal of accumulated project material to be analyzed, however, and it is one of the main goals of the Department to make an even more concentrated attack upon this while continuing with the prosecution of new projects.

LIBRARY REPORT

George L. Banay, Ph.D., Librarian

I. Medical Library

The past year represents a year of further expansion in the history of the Medical Library. To indicate the activities and the progress in the development of the library, the following details are quoted:

Periodicals. — We had 117 periodicals in 1937 as compared with the 106 of the previous year. Of this number the hospital subscribed to 94, 2 were paid for by the Memorial Foundation for Neuro-Endocrine Research, 3 were donated by Dr. Bryan, 5 by Dr. Hoskins, 3 by Dr. Sleeper, 2 by Dr. Looney, 1 by Dr. William Freeman, and 7 come in free from scientific organizations.

Of these periodicals, 3 are in French, 6 in German, 4 in Italian, and 104 in English. *Circulation.* — The Medical Library circulated 696 volumes last year.

Inter-Library Loans. — The Librarian maintained contact with other libraries, and we borrowed 164 volumes from 4 of these as follows: Boston Medical Library, 119; New York Academy of Medicine Library 35; Harvard College Library, 8; Harvard Medical School Library, 2.

Medical Library Association. — We maintained our membership in the Medical Library Association. This Association is of the greatest benefit to all medical libraries in supplying them with missing and out-of-print material for the nominal charge of the postage. In 1937 we received 78 volumes from the Association.

New Books. — Ninety-eight new volumes have been added to the shelves, some of them to the Child Guidance Clinic Library.

Binding. — We bound 275 volumes during the year, including the ones received from the Exchange.

Present State. - On November 30, 1937, the Medical Library had:

| Bound volumes of periodicals | | • | | | 3,715 |
|-------------------------------|--|---|--|--|-------|
| Unbound volumes of periodical | | | | | 56 |
| Bound volumes of books . | | | | | 1,836 |
| Unbound volumes of books | | | | | 6 |
| Old books | | | | | 869 |
| Catalogued pamphlets . | | | | | 1,269 |
| Lantern slides | | | | | 431 |
| | | | | | |
| Total items | | | | | 8,182 |

2.543

This is an increase of 353 volumes over the previous year.

Services. — The Librarian continued to circulate the bibliographies and abstracts prepared many special bibliographies, and translated foreign medical articles for the use of the Staff. The bibliographies, abstracts, and translations are filed in the Medical Library.

W. P. A. Projects. — We completed work on the 3 projects approved by the Federal Government, that is, re-cataloguing of books, compilation of a complete bibliography of schizophrenia, and bringing up to date our abstract collection on schizophrenia. The books are re-catalogued. The bibliography and abstract cards are typed and filed under subject headings.

II. General Library

The General Library was moved into new quarters in 1936. At the same time it was re-organized, the worn and obsolete material being eliminated. The shelves still look somewhat empty at the present time, but we shall build up the library systematically and hope to fill up the shelves in the not too remote future.

During 1937 one of the W. P. A. workers was in charge of the library and the Occupational Therapy students took the book trucks to the closed wards twice a week with books for the patients who were unable to come to the library.

We added 208 volumes to the shelves during the year.

On November 30, 1937, the General Library had:

| | 0, 10 | o., one | actional | Library naar | | |
|--------------------|-------|----------|----------|-------------------------|---|-----------|
| Books (fiction and | non- | fiction) | 2,103 | Bibles and prayer books | | 25 |
| Serials | | | 67 | Reference books . | | 80 |
| Bound magazines | | | 168 | Lantern slides | | 100 |
| | | | | | - | |

Total

Fifty popular magazines and 6 daily newspapers are subscribed to by the hospital. In addition to this, 150 books are borrowed every 3 months from the Worcester Public Library to circulate among the patients and employees.

Arrangements have been made with the Free Public Library to send 100 volumes every 3 months to the Summer Street Department. In addition, 100 books are sent every 3 months from the general library in the main hospital, and 10 popular magazines and newspapers are subscribed to for this department.

The library is well patronized by patients and employees, the average monthly attendance being 922 patients and 70 employees.

During the year the library circulated 7,445 volumes and had 11,066 reading visitors.

A few churches of Worcester and the Free Public Library sent to us old books and magazines regularly. We express our thanks to all who have given books and magazines to the library.

CHAPLAIN'S DEPARTMENT

Carrol A. Wise, D.D., Chaplain

The activities of the protestant Chaplain of this hospital fall conveniently under the headings of (1) religious services, (2) ward visitation, (3) education and (4) community service.

Religious services are held each Sunday morning at the main hospital and at the Summer Street Department. During the past year the attendance at these services has averaged well over three hundred. An endeavor is made to conduct a worship service which is milding stimulating, and in which a mental hygiene emphasis is made. A hymnal especially prepared for use in mental hospitals is used in this service. The sermon is brief, and seeks to indicate the value of religion for the emotional needs of the patients. These services offer one form of normal experience which many of the patients had on the outside of the hospital, and for which they feel a continuing need after admission to the hospital.

Routine visits are made to the admission wards so that all new patients are seen within a week after their admission to the hospital. The medical and other psychiatric wards are visited regularly, and individual patients are seen at any time when a visit is desired or indicated. Patients are frequently found who have unhealthy religious attitudes, and in whom a process of religious re-education may contribute to their general mental health.

The educational program of the chaplain's department centers chiefly in the training of theological students. In this work, the hospital is affiliated with the Council for the Clinical Training of Theological Students. While no actual training was done in this hospital during the past year, plans were made for developing this type of training into a six months rather than a three months course. The demand for such training on the part of seminaries and students is increasing, and its value is being increasingly appreciated in many sections of the church.

During the year the chaplain gave a series of four lectures on Religion and Mental Disorder to two groups of occupational therapy students, and to one group of nursing students, and another course of six lectures to another group of nursing students.

The community service of the chaplain consists largely in speaking before various groups on subjects related to the hospital and its work. During the past year the chaplain made thirty-five such talks. The Hospital Messenger, a paper primarily published for relatives, was issued monthly, partially under his supervision and editorship.

In September, 1937, the chaplain attended a conference on Christianity and Mental Hygiene which was sponsored by the National Committee on Mental Hygiene, the Federal Council of Churches, and the National Council on Religion in Higher Education. He is a member of the committee which is arranging for a similar conference during the coming year. In October he read a paper entitled "The Experience of Frustation in the Ministry", before the annual conference of the Council for the Clinical Training of Theological Students, in New York.

CHILD GUIDANCE CLINIC

Milton E. Kirkpatrick, M.D., Director

Treatment of the individual child whose behavior deviates significantly from that of his group has always been the primary objective of the Worcester Child Guidance Clinic. In reviewing the figures of this report, one will note a significant number of cases which were accepted on an advice basis. This does not represent any departure from our treatment program, but rather indicates the development of certain trends in this community which make it possible for persons other than those associated with the Child Guidance Clinic to do something for the child. There is an implication running through the mental hygiene movement to the effect that if physicians, nurses, teachers, and other professional groups become sufficiently indoctrinated with mental hygiene principles, we can expect eventually a diminution in the maladjustments of childhood. During the past three years more educational work with professional groups has been done in Worcester, not only by members of the staff of this Clinic, but by other agencies. It is now possible for agency workers who consult us about children to carry on intelligent treatment not directly under our close supervision.

Each year an attempt is made to discover the effects of Child Guidance Clinic procedure on certain selected groups of children, although no attempt has yet been made to evaluate what has happened to the total number of children seen during the past ten years. It is the opinion of the director that such research is valuable from two points of view. It makes a contribution to the general field of study of behavior problems in children and at the same time reveals the shortcomings as well as the strong points in our therapeutic approach. During the past year the following research projects were completed. The director published "Some Significant Factors in Juvenile Recidivism", which is a statistical evaluation of social and economic factors in the lives of first offenders. We also made an exhaustive analysis of a large series of cases referred to the Child Guidance Clinic by the Worcester Associated Charities. The findings of this research have pointed the way toward a better working relationship between the two agencies. We have alwyas been confronted with the problem of the personality encountered in the mother as well as the personality of her child whom she brings to us for treatment. "A Retrospective Study of the Relationship Between Personality Characteristics of Mothers and the Outcome of Treatment" indicates that the capacity of the mother to carry out Clinic recommendations in spite of her previous shortcomings is the most important, single factor in her child's improvement. There has been an increasing number of adolescent children referred to the Clinic. We have also

completed a study, "The Relationship Between Adolescent Personality and Problem with Respect of the Outcome of Treatment". The findings, of course, are specific only to this Clinic, but they indicate very clearly the ability of an individual therapist to carry on successful treatment with a certain type of adolescent problem.

We are continuing to exert most of our efforts in community education in the direction of professional groups. During the past year an interesting project was undertaken in the public school system of Webster, Massachusetts, Four members of the Clinic staff have been going to Webster one afternoon a week, studying two cases and reporting their findings at a conference of the teachers later in the after-This project has been very successful and has branched out until at the noon. present time it includes the following: (1) a seminar on mental hygiene conducted once each month and attended by all the teachers in the public school system of Webster: (2) a mental testing program supervised by the psychologist at the Child Guidance Clinic and administered to groups of children by the teachers, which is the first attempt to provide such supervision in the Webster schools: (3) individual counseling, whereby teachers may consult with Clinic staff members about problems they encounter in the classroom; (4) monthly conferences on difficult cases which have been prepared for presentation by the teachers and school nurses with the assistance of Clinic staff members. It has been the purpose of this co-operative relationship with the Webster schools to make them aware of the existence of mental hygiene and child guidance problems, and at the same time show them what they, as teachers and nurses, can do about it.

Community support continues to be very fine, financially as well as in other less tangible ways. We have more children referred than we can adequately care for. A conscientious attempt is made to select those cases with which we can be successful and whenever possible to refer the remainder to other sources wherein they might find some alleviation for the presenting problem. The physical aspects of the clinic are quite good. During the coming year we anticipate no changes in either our organization or our general method of procedure.

Service Report

| I. | Report of Case Load: | | | |
|-----|-----------------------------------------------|--|--|-------|
| | A. Carried Cases: | | | Total |
| | 1. Cases carried over from last year | | | 318 |
| | 2 Intake a. New cases accepted | | | 227 |
| | b. Old cases reopened | | | |
| | (1) last closed before present year | | | 7 |
| | (2) last closed within present year | | | 3 |
| | 3. Total cases open at sometime in this year. | | | 555 |
| | 4. Cases taken from service | | | 268 |
| | 5. Cases carried forward to next year | | | 287 |
| | B. Closed cases followed up (Not reopened) . | | | 0 |
| | C. Applications rejected | | | 10 |
| | D. Applications withdrawn | | | 15 |
| II. | Type of Service Classification | | | |
| | A. New Accepted Cases: | | | |
| | 6. Full service a. Clinic staff cases | | | 124 |
| | b. Cooperative cases | | | 103 |
| | c. Full service not a or b . | | | 0 |
| | 7. Special service (Advice) | | | 0 |
| | 9. Total new cases accepted | | | 227 |
| | B. Cases taken from Service: | | | |
| | 10. Full service a. Clinic staff cases | | | 98 |
| | b. Cooperative cases | | | 164 |
| | 11. Special service (advice) | | | 6 |
| | 12. Total cases closed during this year . | | | 268 |
| | | | | |

III. Sources Referring New Accepted Cases:

| TTT. | Sources negering new necepica Cases. | | | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|-----------|
| | | Full | Special | Total |
| | 13. Agences a. Social | 48 | - 3 | 51 |
| | b. Medical | 2 | 2 | 4 |
| | 14. Schools a. Public | 6 | 1 | 7 |
| | b. Private | 0 | 1 | i |
| | | - | 72 | |
| | 15. Juvenile Court | - | 72 | |
| | 16. Private physicians | 5 | | 5 |
| | 17. Parents, relatives | 77 | 10 | |
| | 18. Total new cases accepted | 138 | 89 | 227 |
| IV. | Summary of Work With or About Patients: | | | |
| | A. By Psychiatrists: | | | |
| | | | | Total |
| | 1. Interviews with patients a. for examination of the second seco | ation | | 294 |
| | - | | • • | . 748 |
| | b. for treatme | | · · | |
| | 2. Interviews about patients | | | . 237 |
| | 3. Physical examinations by clinic staff me | embers | | . 46 |
| | B. By Psychologists: | | | |
| | 1. Interviews with patients a. for examination | ation | | . 261 |
| | b. for re-exam | ination | | . 9 |
| | c. for treatme | | | . 624 |
| | 2. Interviews about patients | | · · | . 39 |
| | C. By Social Workers: | • • | • • | . 00 |
| | | | | 1 104 |
| | 1. Interviews in clinic | • • | • • | . 1,104 |
| | 2. Interviews outside clinic | | | . 579 |
| | 3. Telephone calls | | | . 297 |
| | D. Number of Cases given initial Staff Confere | ence: | | |
| | 1. Full service a. Clinic staff cases | | | . 45 |
| | b. Cooperative cases | | | . 30 |
| | 2. Special service | | | . 3 |
| | E. Number of open cases given service during ye | | villing and | |
| | | | | . 132 |
| | | • • | • • | . 154 |
| v. | Personnel Report (Average staff during year): | | | - |
| | | | | Part-time |
| | A. Regular Staff a. Psychiatrist | · · | . 2 | |
| | b. Psychologists | | . 2 | |
| | c. Social workers | | . 3 | |
| | d. Clerical workers | | . 2 | 1 |
| | B. Staff in Training a. Social workers | | . 4 | - |
| VI. | Operating Schedule | • • | . 1 | |
| VI. | Operating Schedule | | | |

VI. Operating Schedule

A. Schedule of clinic days and hours: 9 to 5 daily; 9 to 12 Saturday.

B. Scheudule of attendance of psychiatrists: 9 to 5 daily; 9 to 12 Saturday.

THE STEWARD'S DEPARTMENT

Herbert W. Smith, Steward

This Department has functioned during the fiscal year 1937 without any unusual developments. Again we bring to light the absolute necessity of proper storeroom and laundry accommodations if the work of this hospital is to go on successfully. Each year adds to the demands set upon these two vital parts of the Steward's department and it is to be hoped that the necessity for prompt action to change present conditions will be recognized in the near future.

Our present storeroom facilities are not adequate to properly handle the material a hospital of this size demands, either for proper storage or quantities to be kept on hand. This necessitates a duplication of orders at shorter intervals than should be which in turns adds to the clerical work of storeroom accounting. Therefore, viewed from all angles, a relocation of our present storeroom is badly needed if a reasonable degree of efficiency is to be maintained.

So much has already been written and spoken about the laundry connected with this hospital that there is little left to comment on. The physical condition of the plant is not improving and it is remarkable that the machinery is standing up the way that it is. The possibility of a bad breakdown increases with each days use. Working conditions are far from satisfactory and it is conceded by all those who should know that a new laundry, both building and machinery, is needed to meet the demands of this hospital.

It is to be hoped that something can be done during 1938 to correct both the storeroom and laundry conditions in the Worcester State Hospital.

FARM REPORT

James Mistark, Head Farmer

The motorization of the farm has continued during the past year. The number of horses has been reduced to two and a I-12 and two F-12 tractors were added to the equipment. This has enabled the farm to increase the acreage by the development of new land. An area of approximately eight acres has been added to the land under cultivation. This new land will be used to produce green hay the first part of the season of 1938 and later will be planted with garden crops.

One new and one rebuilt silo were added to the dairy barn this year. Ensilage is an important factor in keeping the milk production on a constant level. When only green feed is used the flow of milk becomes irregular. The ensilage can be used during the first six months of 1938 and will mean a considerable saving in purchased feed such as beet pulp and hay.

With the addition of the silos the acreage of land used for the production of hay can be reduced. This will permit a better rotation of crops. Old hay land can be given a rest through plowing and cropping it with turnips. Such land will probably give a heavy yield. Proper rotation means better production on a smaller area and relative freedom from weeds. This farm has always been troubled by the weed problem but the prospects are better for a clean and weed-free land through such a system of crop rotation.

One of the important improvements made during the year is the installation of the first section of an irrigation system. The control of moisture will undoubtedly permit a greater crop production with a smaller area and such crops can be brought to maturity from 10 to 15 days earlier with artificial irrigation than under Nature's system of watering. It is planned to continue the installation of sections of the system until the entire garden area is so treated.

One of the problems that confronts every head farmer in a mental hospital is the question of reconciling the occupational and industrial therapy for patients with the need for continued production. Certain demands are laid upon the farm for food production and at the same time there is a demand for patient occupation. The farm personnel has accepted both responsibilities during the year and it is my opinion that these two points of view can be adequately met by constantly impressing upon those who are in charge of farm work as well as those who are in charge of patients, the necessity for properly teaching each patient to work efficiently. It is my observation that work carried on in an orderly, systematic manner with the patient carefully instructed in the best way to work with a minimum amount of exertion, is better treatment than work which is performed according to the peculiar ideas of the individual patient. Work planned in this way improves efficiency and speeds up production.

ENGINEER'S REPORT

Warren G. Proctor, Chief Engineer

Four major changes have taken place at the power plant during the last year: Structural changes; electrical modernization; new type of refrigeration; addition and replacement of steam equipment.

The structural changes consisted of raising the roof of the old boiler room, roofing over the old coal pocket, removing the old square chimney, building a new engine room in the old boiler room, partitioning the old coal pocket into four rooms, one for oil storage tanks, one for coal storage, a utility room and a small coal preparation room.

The old machine shop was divided into three rooms, one room to house the new boiler, feed water heater and receiving tank, another room for a new engineer's office which overlooks the boiler room and engine room, and the rest of the space for switch-board and electrical controls.

The new plant is now very compact. A new cement floor has been laid in the boiler room and steel stairs and walks over the boilers which will make all parts of the room easily accessible.

Electrical modernization. — Consisted of changing from direct to alternating current.

Three new generators were installed each one of which is capable of generating as much current as our six old generators. These generators are connected by gears to turbines except one which is directly connected to an engine.

All motors throughout the hospital have been replaced except in the laundry which are now supplied with direct current from a motor generator set.

Electric clocks are being installed which will be operated by the new current.

By means of transformers the current can be sent longer distances without drop in voltage which has made it possible to supply the farm group and also the cottages on Belmont Street from our plant.

All wires in the sub basements are now in conduit which is much neater in appearance and eliminates a fire hazard.

Much more electrical equipment can now be installed at the hospital at less expense to the State due to the adoption of alternating current.

Due to the installation of new wires in conduit several leaks have been eliminated where the current had been discharging into the ground.

New type of refrigeration. — Our old refrigeration system was very inefficient, a large amount of power being necessary to produce the required results.

Five small electrically driven compressors with automatic controls are now doing the work.

A new type of refrigerant "freon" has been used in place of anhydrous ammonia, the new gas is odorless and therefore much more safe than ammonia and due to this fact it can be used direct to the ice boxes.

The cooling units are now placed in the top of the ice boxes instead of on the sides and this alows for more storage space.

As there are several machines it is possible to operate boxes at controlled temperatures over a wider range for instance, meat boxes will be kept at 32° F while vegetable boxes will be kept at 40° F and ice making tanks at 10° F. Great care has been taken to prevent the loss of gas, all joints are sealed and the operating cost of the new units should be much lower than with the old equipment.

Many additions and changes have been made to the steam generating equipment by the installation of a new five hundred horse power boiler, boiler feed water heater, new boiler feed pump, circulating pumps for return water, and oil burners.

For the first time in many years the hospital has ample boiler capacity, this insures steady heat, light and power, with one or more boilers ready for service at any time.

As a result of the installation of this new equipment we have been able to release twenty patients who have been wheeling in coal and removing ashes.

The allowable working pressure of the boilers has been raised from 110 to 150 lbs. New steam pipes from boilers to engines and turbines have been installed and the loop system used which will enable the operators to remove pressure from certain sections of the steam pipe for purposes of change or repair without interruption of service.

Two new hot water tanks for domestic supply to the hospital have been placed in the utility room. These tanks are copper lined and are equipped with twice the heating capacity of our old tanks.

Two turbines and one engine have been installed to drive generators. These units are very compact and will use much less steam than our old units while generating an equal amount of current.

The educational program has been continued, several men are studying for higher licenses and one man, Mr. Harney passed the examiation for second class fireman.

. . . .

REPORT OF MAINTENANCE DEPARTMENT

Anton Svenson, Maintenance Foreman

The maintainence and repair work of a mental hospital can be classified under several headings: -

- 1. The ordinary day by day work of making the small repairs of the hospital. This is a never ending task.
- 2. Carrying out larger construction projects which represent radical changes made in the interest of increased efficiency.
- 3. Supervising projects which are being built under special appropriations granted by the legislature.
- 4. Inspection of work being done by contractors to see that the specifications are complied with.

The ordinary maintainence repair work has been carried on during the year as rapidly and completely as the limited mechanical personnel permitted. The upkeep of buildings from sixty to more than one hundred years old which are occupied by mental patients many of whom are deliberately destructive means more in time, money and labor than would be the case in an ordinary building. During the year the painters replaced 6,000 panes of glass. We used 5,000 feet of window cord, 500 gross of screws and 25 kegs of nails. All of this material went into the routine maintainence of the building.

The painting program has been increased through W. P. A. labor. Fifteen wards have been completely redecorated and the work will proceed at the same rate in 1938

The range of special maintainence projects carried on during the year is a wide one. Many of them occupied the time of one or two men for two or three days but in the aggregate they make up a tremendous total.

Special projects during the year were the renovation of the Quinby wards and rebuilding the porch on the administration building. These were carried out with outside labor but under the direction of the maintainence foreman.

The establishment of better stock storage facilities has resulted in a considerable saving. The stock man is now directly in charge of the foremen and the stock for each job is issued directly by him. This system will later be extended to include a system of planning and dispatching the work and the incorporation of a simple cost system which will facilitate budget preparation.

VALUATION November 30, 1937

| | | | | | 1 | LEAL | ES1 | AIE | | | | | | | | |
|------------------------|-------|---------|-------|--------|------|-------|------|------|-----|---|---|---|---|---|---|----------------|
| Land. 584.95 acres | | | | | | | | | | | | | | | | \$389,507.00 |
| Buildings and Bettern | nonte | | | | | | | | | | | | | | | 2,548,944,53 |
| Dunungs and Dettern | nenta | • | • | • | • | • | • | • | • | • | • | • | • | • | • | 2,010,011,00 |
| | | | | | | | | | | | | | | | | \$2,938,451.53 |
| | | | | | Pers | SONAI | l Pr | OPER | RTY | | | | | | | |
| Travel, transportation | heer | office | evn | ences | | | | | | | | | | | | \$9,429.76 |
| | | | - Crp | 011000 | | • | • | • | • | • | • | • | • | • | • | 13,984.07 |
| | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| Clothing and material | | | | | • | | | • | • | • | | | | • | • | 27,664.50 |
| Furnishings and house | ehold | SUDD | lies | | | | | | | | | | | | | 285,710.14 |
| Medical and general c | 270 | | | | ÷ | | | | | | | | | | | 67.672.31 |
| Heat and other plant | | | | • | • | • | • | • | • | • | • | • | · | • | • | 2 949 20 |
| | | ution 1 | • | • | • | | • | • | • | • | • | • | • | • | • | |
| Farm | | • | • | • | | • | • | • | | • | | | • | • | • | 51,018.72 |
| Garage and grounds | | | | | | | | | | | | | | | | 10,014.82 |
| Repairs | | | | | | | | | | | | | | | | 20,769.96 |
| Repairs | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | 20,105150 |
| | | | | | | | | | | | | | | | | \$490,112.67 |
| | | | | | | SUN | IMAR | Y | | | | | | | | |
| Real estate | | | | | | | | | | | | | | | | \$2,938,451.53 |
| Personal property . | | • | • | • | | | | | | | | | | | | 490,112.67 |
| reisonal property . | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | 190111100 |
| | | | | | | | | | | | | | | | | A2 100 FC1 00 |
| | | | | | | | | | | | | | | | | \$3,428,564.20 |

FINANCIAL STATEMENT

To the Department of Mental Diseases:

I respectfully submit the following report of the finances of this institution for the year ending November 30, 1937.

| | | | STA | TEM | ENT | OF | EAR | NINGS | 5 | | | | | | |
|---------------------------|------|------|-----|-----|-----|----|-----|-------|---|---|---|----|-------|--------------|-------------|
| Board of Patients | | | | | | | • | | | | | | | | \$71,597.26 |
| Personal Services | • | • | • | • | • | • | • | • | • | • | • | · | • | • | 275.59 |
| Sales: | | | | | | | | | | | | | 4 6 | 10 | |
| Food | • | • | • | • | • | • | • | • | • | • | • | Ф. | 2,248 | | |
| Clothing and materials | • | .: | • | • | · | • | • | • | • | • | • | | | 5.80 1.05 | |
| Furnishings and household | supp | lies | • | • | • | • | • | · | • | • | • | | | | |
| Medical and general care | • | • | • | • | • | • | • | • | • | • | • | | 107 | .66 | |

| Heat and other plant operations Garage and grounds | • | • | · | · | • | • | · | · | · | | | .00 .50 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|--------------|----------|-----------------|------|-------|-------|------------|----------|----------------|------------|--------------------------|
| | | | | | | | | | | | 310 | | |
| Repairs ordinary Farm (horses and harness, \$26; cow vegetables and tools, \$78.50) . Total Sales . | s, cal | vesa | nd pi | gs, | \$6 0 5. | 03; | hides | ,\$98 | 3.95; · | | 808 | . 48 | |
| Total Sales Miscellaneous: | | | • | | | | • | | | | • | | 3,678.58 |
| Interest on bank balances | • | | • | | | | | | | | \$137 1,496 | | |
| Rents Soil conservation Tel. Com. (\$116.80) Misc. (\$65.38) | • | : | : | : | : | : | : | : | : | | 276 | .09 | |
| | | | | | | | | | - | | 276 182 | .18 | |
| Total Miscellaneous | · | • | | • | | · | • | · | · | | • | ٠ | 2,091.77 |
| Total earnings for the year . | | . . | | <u>.</u> | | · | • | | | | • | • | \$77,643.20 |
| Total cash receipts reverting and tran | sterr | ed to | the | Star | te Ir | easi | irer | · | · | • | | in | \$77,617.70 |
| Accounts receivable outstanding Dec | embe | r 1, 1 r 30 | 1037 | , · | • | • | • | • | • | | @29 55 | . 50 | |
| Accounts receivable increased . | | | . 1901 | Ś., | ÷ | ÷ | ÷ | ÷ | ÷ | | | | \$25.50 |
| | MAD | NTEN | ANCE | c Ai | PPRO | PRIA | TION | | | | | | |
| Balance from previous year, brought | forwa | ard | | | | | | | | | | | \$25,595.37 |
| Accounts receivable outstanding Dec Accounts receivable outstanding Nov Accounts receivable increased Balance from previous year, brought Appropriation, current year | · | | | · | · | · | · | · | · | · | • | ۰. | 1,079,887.00 |
| Total | | | | | | | • | • | | · | · | . : | \$1,105,482.37 |
| Personal services | | | | | | | | | | \$59 | 4,944 | . 61 | |
| Food | | | | | | | | | | | 8.811 | | |
| Medical and general care Religious instruction | | | | | | | | | | 4 | 2,530 | .98 | |
| Religious instruction | | | | | | | | | | | 2,960 | | |
| Farm Heat and other plant operation Travel, transportation and office ex Garage and grounds (garage, \$6,34) | | • | | | | | • | | • | 2 | 8,945 | | |
| Heat and other plant operation . | • | • | • | · | • | • | • | • | • | 9 | 2,949 | | |
| Iravel, transportation and office ex | pense | es | | ice. | 7 | • | • | • | · | 1 | 0,385 | | |
| Garage and grounds (garage, \$0,34). | 1.15; | grot | inas, | \$05 | 7.91) | · | • | • | • | • | 6,999 1,540 | | |
| Clothing and materials Furnishings and household supplies | , · | • | • | • | • | • | · | • | · | 2 | 7 220 | 04 | |
| Repairs ordinary | ••• | · | · | • | • | · | • | • | • | 1 | 6 442 | 32 | |
| Repairs ordinary Repairs and renewals | : | | : | : | : | : | | ÷ | : | î | 5,940 | . 55 | |
| Total maintenance expenditures | | | | | | | | | | | | | \$1,069,790.57 |
| Balances of maintenance appropriatio | n, No | oven | iber 3 | 30, 1 | 1937 | | | | | | | | 35,691.80 |
| | | | | | | | | | | | | \$ | 31,105,482.37 |
| | SF | ECIA | L AF | PPRO | PRIA | тют | vs | | | | | | |
| Balance December 1, 1936, brought for Appropriations for current year | orwar | d. | : | : | : | ÷ | : | : | : | : | : | : | \$317,726.07 9,000.00 |
| | | | | | | | | | | | | - | \$326,726.07 |
| Total . Expended during the year (see statem Reverting to Treasury of Commonwea | ient t | elow | 7) 1010 m | | | | | | | \$24 | 2,464 | .65 | φ320,120.01 |
| Reveluing to measury of Commonwea | itii (S | uar u | aian | Jest | Jerow | tha | tarer | eve | rung | <u> </u> | 229 | .03 | \$242,694.28 |
| | | | | | | | | | | | | - | |

| Appropriation | Project | Total | Expended | Total | Balance at |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| | and Chap. | Amount | during | Expended | end of |
| | Acts | Appropriated | fiscal year | to date | year |
| Alterations for fire protection, M.S.P.M20, PWA D. 6243 Standpipe, M.S.P.M39, PWA D. 4640 Fireproof balconies, M.S.P.M 48, PWA D. 4465 Sprinklers and rewiring, M.S.P. M49, PWA D. 5308 Hydrotherapy building, M.S.P. M50, PWA D. 4657 Window calking and weather strip | 249-1935 249-1935 249-1935 249-1935 304-1936 304-1936 304-1936 | \$89,404.87 40,966.13 109,765.03 115,138.38 127,173.41 5,000.00 7,700.00 18,000.00 14,400.00 5,500.00 12,300.00 270,000.00 9,000.00 \$824,347.82 | - \$59.92 1,140.75 14,722.37 3,172.07 - 3,000.62 4,543.32 5,147.83 6,554.88 204,122.89 - \$242,464.65 | \$89,404.87 40,966.13 109,765.03 115,138.38 126,304.92 4,777.82 7,697.38 17,995.17 4,543.32 5,148.50 12,237.86 206,107.02 | - - - \$868.49 222.18* 2.62* 4.83* 9,856.68 351.50 62.14 63,892.98 9,000.00 \$84,261.42 229.63 \$84,031.79 |

PER CAPITA During the year the average number of patients has been, 2,453.1. Total cost of maintenance, \$1,069,790.57. Equal to a weekly per capita cost of (52 weeks to year) \$8.3864. Total receipts for the year, \$77,617.70. Equal to a weekly per capita, \$.6084. Total net cost of maintenance for year, \$992,172.87 Net weekly per capia, \$7.778.

Respectfully submitted.

MARGARET T. CRIMMINS.

Treasurer.

Financial statement verified. Approved

GEO. E. MURPHY, Compiroller.

STATEMENT OF FUNDS

November 30, 1937

PATIENTS' FUND

| | | PATIE | NIS | FUN | ບ | | | | |
|--------------------------------------------------------------------------|--------|-----------|-------|--------------|-----|----------|-----|-------------------|---------------|
| Balance on hand November 30, 1936 | | | | | | | | \$8,884. | 71 |
| Receipts | • | | • | • | | • | - | 9,244. | |
| Interest | • | • • | • | • | • | • | • • | 137. | |
| Interest | • | • • | • | · | · | • | • • | 157. | |
| | | | | | | | | | \$18,266.65 |
| Expended | | · • | • | | | | | \$10,932. | |
| Interest paid to State Treasurer . | | | | | | | | 137. | 50 |
| - | | | | | | | | | — 11,070.09 |
| | | | | | | | | | |
| | | | | | | | | | \$7,196.56 |
| | | Inco | - | - 1 0 | | | | | \$7,190.50 |
| | | 1 nve | stme | nts | | | | A4 000 | 00 |
| Worcester County Institution for Savin | ngs | | | | | | | . \$1,000. | 00 |
| Worcester Five Cents Savings Bank | | | | | | | | 1,000. | 00 |
| Worcester Mechanics Savings Bank | | | | | | | | 1,000. | 00 |
| Peoples Savings Bank | | | | | | | | 1,000. | |
| Boy State Sovings Bank | | • • | • | • | • | • | • | 1,000. | ňň |
| Worcester Depositors Corp. (Class A C Balance Mechanics National Bank | · | • • | • | • | • | • | • • | 70. | |
| Worcester Depositors Corp. (Class A C | -ert.) | • | • | • | • | • | • | | |
| Balance Mechanics National Bank | • | • • | • | • | • | • | • • | 1,904. | |
| Cash on hand December 1, 1937 . | | | | | | | | 222. | |
| | | | | | | | | | - \$7,196.56 |
| | | | | | | | | | |
| | | CANI | FEN | FUN | D | | | | |
| Balance on hand November 30, 1936 | | 0 | 5511 | 1 010 | | | | \$892. | 80 |
| | • | • • | • | • | • | • | • • | 20,806. | |
| Receipts | • | • • | • | • | • | • | • • | 20,800. | |
| | | | | | | | | | - \$21,699.55 |
| Expended | | | | | | | | | . 20,740.95 |
| | | | | | | | | | |
| Cash on hand November 30, 1937. | | | | | | | | | \$958.60 |
| Cash on hand Hovember 50, 1957 . | • | · Inn | stme | | • | · | • • | | |
| | | | sime | nts | | | | 0110 | 00 |
| Worcester Depositors Corp. (Class A C | ert.) | • | • | • | • | • | • | \$112. | 00 |
| Mechanics National Bank | | | | | | | | 702. | |
| Cash on hand November 30, 1937 . | | | | | | | | 144. | |
| | | | | | | | | | \$958.60 |
| | | | | | | | | | - |
| | | WHEEL | TOD | FIND | | | | | |
| Delense on hered Manamhan 20, 1026 | | WHEEL | LCK . | UND | | | | \$1,029. | 12 |
| Balance on hand November 30, 1936 | • | • • | • | • | • | • '* | • • | | |
| Income | | | | | | | | 25. | |
| | | | | | | | | | - \$1,054.42 |
| | | Inve | stmer | nts | | | | | |
| Worcester Mechanics Savings_Bank | | | | | | | | \$1,000. | 00 |
| Balance Mechanics National Bank | • | • • | • | · | • | • | ••• | 54. | |
| balance mechanics National balk | • | • • | • | • | · | • | • • | JT. | - \$1.054.42 |
| | | | | | | | | | - \$1,034.42 |
| | | _ | | | | | | | |
| | | CLEME | NT F | UND | | | | | |
| Balance on hand November 30, 1936 | | | | | | | | \$1,000.0 | 00 |
| Income | | | | | | | | 25.0 | 00 |
| | • | • • | • | • | • | • | | | - \$1,025.00 |
| Empiredad | | | | | | | | | . 25.00 |
| Expended | • | • • | • | • | • | • | • • | • • | , 20.00 |
| | | | | | | | | | 21.000.00 |
| Balance on hand November 30, 1937 | | | | | | • | | • • | \$1,000.00 |
| | | | | | | | | | |
| | | Inves | stmen | ts | | | | | |
| Worcester County Institution for Savin | 108 | | | | | | | | \$1,000.00 |
| Wolceber county anotherion for burn | | • • | • | • | • | • | • • | • • | |
| | | LEWI | | ND | | | | | |
| DI INI INI INI | | LEWI | 5 FU | ND | | | | 01 225 6 | 17 |
| Balance on hand November 30, 1936 | • | • • | • | • | • | • | | \$1,335.9 | 1 |
| Income | | | | | | | | 32.5 | |
| | | | | | | | | | - \$1,368.47 |
| | | Inves | stmen | ts | | | | | |
| Worcester Five Cents Savings Bank | | | | | | | | \$1,300.0 | 00 |
| Balance Mechanics National Bank | | | • | • | • | • | • • | 68.4 | |
| Datance mechanics National Datk | • | | | | • | • | | 00.1 | |
| | • | | • | | | | | | |
| | : | | • | | | | | | \$1,368.47 |
| | • | • • | | | | | | | |
| | • | Manso | n F | UND | | | | | - \$1,368.47 |
| Balance on hand November 30, 1936 | • | Manso | N F | UND | . (| | | \$1,087.0 | - \$1,368.47 |
| | • | MANSO | N F | UND | • | • | | \$1,087.0 | - \$1,368.47 |
| Balance on hand November 30, 1936 Income | • | MANSO | N F | UND | : | • | | \$1,087.0 25.1 | \$1,368.47 |
| | • | • • | : | : | : | | : : | \$1,087.0 | - \$1,368.47 |
| Income | • | MANSO | : | : | • | • | : : | 25.1 | = \$1,368.47 |
| Income | • | • • | : | : | : | : | | \$1,111.3 | \$1,368.47 |
| Income | • | • • | : | : | | • | | 25.1 | - \$1,368.47 |
| Income | • | • • | : | : | : | • • • | | \$1,111.3 | \$1,368.47 |

| | ROCKE | FELLE | R RESEA | RCH PRO | IECT | | | | |
|------------------------------------------------------------------------------------------------------------|-------------|--------------|-----------------------|-------------------------|--------------|-------------------|-----------------------|---------------------|----------------------|
| Balance on hand November 30, Receipts to November 30, 1937 | | • | · · · | | | : | \$2,501.1 15,403.2 | 9 | 904.41 |
| Expended to November 30, 1937 | | | | | | | | | 048.11 |
| Balance on hand November 30, | 1937 . | | | | | | | \$1, | 856.30 |
| Worcester County Trust Co | | I | nvestmen | ts | | | | \$1. | 856.30 |
| | · · | T | •••• | • • | | ••• | | • | |
| Check Received March 10, 1937 Expended | 1 nsuiin : | i reaim : | ent for D | ementia F | raecox | • | \$1,000.0 994.4 | 0 | |
| Balance on hand November | 30. 1937 | | | | | | | _ | \$5.54 |
| | | 7 | nvestmen | fe | | | | | - |
| Worcester County Trust Co | | . 1 | · · | | | • • | | | \$5.54 |
| | STA | TIST | TCAL | TABL | ES | | | | |
| As Adopted by the A | AMERIC | AN P | SYCHIA | ATRIC A | SSOCIA | · _ | | | ВҮ |
| THE MASSACH | | | | | | al Di | SEASE | 3 | |
| | | | | Inform | | | | | |
| (Data corr Date of <i>opening</i> as a hospital for | | | | | | 0, 1937 |) | | |
| Type of hospital: State. Hospital plant: | mentar | Indexade | , junuu | ., 10, 10 | | | | | |
| Value of hospital property: Real estate, including building | s | | | | | | | \$2,993, | |
| Personal property | • • | · | • • | ••• | • • | • • | • • | 490, | 112.67 |
| Total | | -1 580 | | • .• - | • • | • : : | • • | \$3,483, | 627.19 |
| Additional acreage rented, 75. | | | | | | | | | |
| Total acreage under cultivation PUBLICATION OF THIS DOCUMEN | I GUTING | DIED B | is year, i y the C | l / / . Commissic | N ON A | DMIN1S | TRATION | AND FI | NANCE |
| 550. 4-'38. Order 3761. Officers and employees: | | | | | | | | | |
| omeers and employees. | | | Actua | lly in Ser Ind of Ye | vice at | | Vaca | ncies at of Year | End |
| | | | M. ^E | F. | т. | | м. | F. | т. |
| Superintendents Assistant physicians | | • | . 1 . 11 | - 1 | 1 12 | | 2 | - | 2 |
| Clincal assistants | • • | • | . 2 | - | 2 | | | | - |
| Total physicians | | | . 14 | 1 | 15 | | 2 | - | 2 |
| Stewards | | : | . 1 | - | 1 | | Ξ | - | 2 |
| Pharmacists Graduate nurses | • • | • | . 1 | 72 | 77 | | - | $\overline{2}$ | $\frac{-}{2}$ |
| Other nurses and attendants | : : | : | 138 | 156 | 294 | | _ | - | - |
| Occupational therapists . Social workers | • • | ÷ | : - | 4 3 | 4 3 | | - | 1 1 | 1 1 |
| All other officers and employee | es | • | . 141 | 86 | 227 | | 7 | 1 | 8 |
| Total officers and employees | | | . 301 | 322 | 623 | | 9 | 5 | 14 |
| Cla | ssification | n by Da | agnosis, | September | · 30, 193 | 7 | | | |
| Census of Patient Population at | end of ye | ear: | | | | | Absent | from Ho | ospital |
| WHITE | | | Actua M. | ally in Ho F | spital T. | | but st M. | ill on B | ooks T. |
| Insane | | | . 1,115 | 1,156 | 2,271 | | 228 | 251 | 479 |
| Mental defectives All other cases | : : | ÷ | : 1 | 3 3 | 3 4 | | - | 1 6 | 1 6 |
| Total | | | . 1,116 | 1,162 | 2,278 | | 228 | 258 | 486 |
| OTHER RACES: | • • | • | | | | | | | |
| Mental defectives | : : | : | . 26 | 29 1 | 55 1 | | 2 | 1 | 3 |
| Total | | | . 26 | 30 | 56 | | 2 | 1 | 3 |
| Grand Total | | | . 1,142 | 1,192 | 2,334 | | 230 | 259 | 489 |
| Grand Fotal | | | . 1,144 | 1,174 | | | | 239 | |
| Patients under treatment in occur | ational-t | herapy | classes, i | including | physi- | м. | F. | | т. |
| cal training, on date of report Other patients employed in genera Average daily number of all patien | l work of | hospit | al on dat | e of report | : . 10 |)8 51 50.43 | 273 483 1,181 | 1.1 | 381 044 341.91 |
| Voluntary patients admitted dur. Persons given advice or treatmen | ng vear | | opicarul | und Acqu | . 1,10 | 0 | 1,101. | 10 2, | 11 |
| | ing year | • • • • | | | • . | 65 | 120 | | 285 |

| TABLE 2. Movement of Patient Population for the Year Ended September 30, 1937 | Data in all of the following tables are based on the Statistical Vear October 1 1036 to Servember 20 1027) |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 30 | her |
| mber | enten |
| pte | , to . |
| Se | 036 |
| Ended | her 1 1 |
| ear. | Octol |
| he Y | Vear |
| for t | tical |
| ion | Statis |
| ulat | the S |
| Pop | d on |
| ent | hase |
| atie | are |
| of I | ables |
| ent | ng ta |
| məa | llowi |
| Mo | he fol |
| <u>ہ</u> | of t |
| BLE | in all |
| T_A | Data |

Statistical Year, October 1, 1936 to September 30, 1937) 9

| VOLUNTARY | M. F. T. | 1 2 2 2 2 3 3 3 2 3 3 3 3 3 1 1 2 13 1 1 2 13 |
|-----------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TEMPORARY | M. F. T. | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| OBSERVATION 1 | M. F. T. 1 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| | T. N | $\begin{array}{c} 2,775\\ 4.22\\ 610\\ 610\\ 633\\ 3,428\\ 633\\ 3,428\\ 111\\ 155\\ 2,837\\ 7\\ 301\\ 155\\ 2,832\\ 2,832\\ 2,832\\ 2,832\\ 2,821\\ 2,821\\ 2,821\\ 2,821\\ 2,821\\ 2,821\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,822\\ 2,$ |
| REGULAR COURT COMMITMENT (INSANE) | M. F. | |
| | T. A | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Total | F. | 1,425 227 227 227 239 345 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,770 1,77 |
| | M. | 1,362 1,362 1,867 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 1,817 |
| | | · · · · · · · · · · · · · · · · · · · |
| | | Admissions during year: Fratents on books of institution September 30, 1936 Admissions during year: First admissions . Readmissions . Transfers from other mental hospitals Total admissions . Total on books during year Total on books during year . Discharged from books during year: As improved . As unimproved . As unimproved . As without psychosis . Total discharged transferred and died during year . Total discharged transferred and died during year . Died during year . Total discharged transferred and died during year . Total . |

| 1 | | | 0 1,441.64 | 50.43 1,181.48 2,341.91 | 84.25 | 174.91 | 1.00 | 2 1,074 2,146 | 0 118 188 | - 2 2 | 16 82 108 | 8 58 76 | 8 24 32 | - 4 4 | 1 3 4 |
|---|--------------------|----------------------------------------------|------------------------------------------------------|-------------------------|-------|--------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------|-------------------------------------------------------|---------|-----------------------------------------------------------------------|--------|-------|
| | | Σ | .1.3 | 1,1 | | Ξ. | | . 1,0 | | | • | - | | | |
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| | | | • | | | | · | | | | | | · | | |
| | ΓA | | • | • | | | · | | • | • | • | | · | | |
| | DA | | • | • | • | • | • | • | | • | • | • | • | • | • |
| | ΔRV | | • | • | • | • | 1937 | · | • | • | • | • | • | • | |
| | NTA | | • | • | • | • | r 30, | •• | · | • | • | • | year | · | • |
| | SUPPLEMENTARY DATA | Average define number of anti-up to the test | Actually individual of patients on books during year | In family one | | | Number of patients actually remaining in institution September 3 | State Stat | Formation patients soid her Frad and | a urcint | States of partents in family care september 30, 1937: | | Number of non-insane patients in hospital at end of institution year. | Others | |

| | | | | | | | - | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|
| N | | | Patient | s | Pare | NTS OF N Patients | A ALE | PARENTS OF FEMALE PATIENTS | | | | |
| NATIVITY | 2 | | М. | F. | т. | Fathers | Mothers | Both Parents | Fathers | Mothers | Both Parents | |
| United States ¹ Austria . Canada ² . China . Czecho-Slovakia England . France . Germany . Greece . Holland . Italy . Norway . Poland . Portugal . Scotland . Sweden . Sweden . Turkey in Asia Wales . Other Countries Unknown . | ••••••••••••••••••••••••••••••••••••••• | · · · · · · · · · · · · · · · · · · · | $ \begin{array}{c} 210\\3\\31\\-\\-\\6\\2\\2\\1\\1\\1\\2\\-\\1\\1\\4\\-\\5\\2\\-\\1\\4\\-\\9\\-\\\end{array}\right) $ | $ \begin{array}{r} 135 \\ 28 \\ \overline{1} \\ 7 \\ 3 \\ - \\ - \\ 1 \\ 21 \\ 6 \\ 1 \\ 5 \\ 1 \\ 3 \\ - \\ 6 \\ 1 \\ \end{array} $ | $\begin{array}{c} 345\\ 3\\ 59\\ -\\ 1\\ 13\\ 5\\ 1\\ 1\\ 2\\ 1\\ 32\\ 14\\ 1\\ 9\\ 1\\ 6\\ 5\\ -\\ 20\\ 5\\ -\\ 15\\ 1\end{array}$ | $ \begin{array}{c} 101\\ 3\\ 59\\ 1\\ -\\ 9\\ 9\\ 3\\ -\\ -\\ 45\\ 14\\ -\\ -\\ 45\\ 14\\ -\\ -\\ 12\\ 3\\ -\\ -\\ 18\\ 3\\ -\\ -\\ 18\\ 3\\ -\\ -\\ 14\\ 15\end{array} $ | $ \begin{array}{c} 101\\ 3\\ 59\\ 1\\ 8\\ 3\\ -\\ 2\\ 2\\ -\\ 40\\ 15\\ -\\ 7\\ -\\ 13\\ 5\\ -\\ 15\\ 17\\ \end{array} $ | $\begin{array}{c} 87\\ 3\\ 48\\ 1\\ -\\ 7\\ 3\\ -\\ 2\\ 2\\ -\\ 37\\ 14\\ -\\ 7\\ 11\\ 3\\ -\\ 18\\ 3\\ -\\ 13\\ 12\\ \end{array}$ | $ \begin{array}{r} 54 \\ 37 \\ -1 \\ 11 \\ 13 \\ 4 \\ -1 \\ 11 \\ 11 \\ 12 \\ 22 \\ 10 \\ 11 \\ 4 \\ 4 \\ 1 \\ 9 \\ 9 \\ 23 \\ \end{array} $ | $\begin{array}{c} 60 \\ - \\ 40 \\ - \\ 1 \\ 8 \\ 4 \\ - \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$ | $\begin{array}{r} 47\\ -33\\ -1\\ 8\\ 4\\ -1\\ 1\\ 1\\ 1\\ 34\\ 11\\ 1\\ 1\\ 10\\ 1\\ 4\\ 3\\ 1\\ 9\\ -\\ -9\\ 20\end{array}$ | |
| Total . | | | 313 | 227 | 540 | 313 | 313 | 271 | 227 | 227 | 199 | |

TABLE 3. Nativity of First Admissions and of Parents of First Admissions

¹(Persons born in Hawaii, Porto Rico and the Virgin Islands should be recorded as born in the U. S.) ²Includes Newfoundland.

| - | Nativity Unknown | | M. F. T. | | - 1 |
|--------------------------|----------------------------------------|----------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| | | Unknown | M. F. T. | ······································ | 3 2 5 |
| | TIME IN UNITED STATES BEFORE ADMISSION | 15 years and over | M. F. T. | | 95 75 170 |
| N BORN | D STATES BI | 10–14 years | M. F. T. | | 2 8 10 |
| FOREIGN BORN | E IN UNITE | 5-9 years | M. F. T. | | 1 3 4 |
| | TIM | Under 5 years | M. F. T. | | 2 3 5 |
| | | Total | M. F. T. | 4 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 30 103 91 194 |
| NATIVE BORN FOREIGN BORN | | Unknown | M. F. T. | | 13 17 30 |
| | TAGE | Native | M. F. T. | 049001140000000444 040004400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 0400 04 | 87 47 134 |
| NATIVE BORN | PARENTAGE | Mixed | M. F. T. | 00000-1-11-11 0400-001-11-11 000440001-1-1 | 13 17 30 |
| NA | | Foreign | M. F. T. | 2 1 2 3 2 2 3 2 4 4 4 1 1 2 3 2 3 2 3 2 3 2 4 4 4 2 3 2 3 2 3 2 4 4 4 4 | 97 54 151 |
| | | Total | M. F. T. N | 3 3 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | |
| · | Aggregate | | M. F. T. | 3 5 3 10 16 26 23 12 37 23 12 37 23 12 44 23 17 44 23 17 44 23 17 44 23 17 44 23 17 44 23 17 44 23 17 44 23 17 44 23 17 44 23 17 44 23 13 40 12 15 13 8 8 16 8 8 16 7 6 13 | 313 227 540 210 135 34 |
| | AGE AT ADMIS- SION | YEARS | | 0-14 15-19 15-19 230-24 330-34 40-44 40-44 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-59 55-50 55-50 55-50 55-50 55-50 | Total |

TABLE 4. Age of First Admissions Classified with Reference to Nativity, and Lengthof Residence in the United States of the Foreign Born

TABLE 5. Citizenship of First Admissions

| Citizens by birth Citizens by naturalization Aliens Citizenship unknown | : | ÷ | ÷ | | : | • | : | : | •••• | | - - - | M. 210 42 26 35 | F. 135 11 25 56 | T. 345 53 51 91 |
|----------------------------------------------------------------------------------|---|---|---|----|---|---|---|---|------|-------|-----------------|---------------------------------|-----------------------------|-----------------------------|
| Total | | | | ۰. | | • | | | | · . · | | 313 | 227 | 540 |

| TABLE 6. | Race of First | Admissions | Classified | with Re | ference to | Principal | Psychoses |
|----------|---------------|------------|------------|---------|------------|-----------|-----------|
|----------|---------------|------------|------------|---------|------------|-----------|-----------|

| RACE | | Total | | sy me | With phili ening epha | tic 30- | fo | With other rms o phili | of | inf | With other ections sease | ous | Al | With coho ycho | lic | | ue gs, | to etc. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------|-------------------------------------------------------|----|---------------------------------|-----|-----|-----------------------------------|-----|---------------|----------------------|---------------|----|-----------|------------|
| | М. | F. | Т. | М. | F. | <u></u> Т. | М. | F. | [Т. | М. | F. | т. | М. | F. | т. | М. | F. | Т. |
| African (black) - Armenian . Chinese . Dutch and . Flemish . English . French . German . Greek . Hebrew . Italian 1 Lithuanian . Portuguese . Scandinavian 2 Scotch . Slavonic 3 Other specific races . Mixed . | $ \begin{array}{r} 3\\5\\1\\-\\5\\3\\39\\1\\4\\12\\57\\15\\-\\18\\5\\-\\8\\1\\108\end{array}$ | 3 2 - 1 15 4 32 2 2 4 40 12 7 1 9 4 -14 -55 | 6 7 1 300 7 71 3 6 6 16 97 27, 16 1 27 9 -22 -22 -1 173 | 2 1 $ 6$ $ 1$ 2 4 1 1 $ 1$ 1 $ 1$ 1 $ 8$ | | $2 \\ 1 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$ | | | | | | | - $ -$ | | - $ -$ | | | |
| Race unknown . | 108 | 10 | 173 | | - | 1 | - | - | - | - | - | · - | - | - | - | - | - | - |
| Total | 313 | 227 | 540 | 29 | 2 | 31 | 1 | - | 1 | 3 | - | 3 | 31 | 2 | 33 | 2 | 1 | 3 |

TABLE 6. Race of First Admissions Classified with Reference to Principal Psychoses - Continued

| RACE | | | atic ses | | With erebi arteri clero | ral 0- | dist | | | con dis | With vuls orde oileps | ive rs | | Senil ycho | | t | nvo ion ych | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|-------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----|---------------|------------|--------------------------------|-----------|----|----------------------------------------------------------------------|----------------|----|-------------------|---------------|
| | M | F. | т. | м. | F. | т. | М. | F. | Т. | М. | F. | т. | М. | F. | т. | М. | F. | Т. |
| African (black) Armenian Dutch and Flemish . English French German Greek Hebrew Irish Irish Lithuanian Scandinavian ² . Scandinavian ² . Scathavias ³ Other specific races . Mixed Race unknown . | | | | $-\frac{1}{5}$ $-\frac{4}{4}$ $\frac{1}{1}$ $\frac{1}{11}$ $\frac{1}{2}$ $-\frac{4}{2}$ $-\frac{2}{7}$ | 2 - - - - - - - - | $ \begin{array}{c} 2 \\ 1 \\ - \\ 10 \\ - \\ 11 \\ 1 \\ 25 \\ 2 \\ - \\ 4 \\ 2 \\ 1 \\ - \\ 4 \\ 3 \\ 5 \\ \end{array} $ | - - - - - - - - - - - - - - - - - - - | | - $ -$ | | 2 | | | $ \begin{array}{c} 1 \\ 2 \\ $ | $-\frac{1}{4}$ | | | - $ -$ |
| Total | 1 | - | 1 | 57 | 53 | 110 | 12 | 3 | 15 | 1 | 2 | 3 | 13 | 27 | 40 | 6 | 7 | 13 |

¹Includes ''North'' and ''South''. ²Norwegians, Danes and Swedes. ³Includes Bohemian, Bosnian, Croatian, Dalmatian, Herzegovinian, Montenegrin, Moravian, Polish, Russian, Ruthenian, Servian, Slovak, Slovenian.

| RACE | me | Oue t other stabo ases, | lic | | ue t gro | | cha ne | h org nges ervou ysten | is | Ps | ych | | de | lani press yste | sive | | emen raeco | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------|----|-----------|---------------------------------|----|---------------|---------------|--------------------------------------|---------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| | м. | F. | Т. | М. | F. | т. | М. | F. | Τ. | М. | F. | Т. | М. | F. | Т. | м. | F. | т. |
| African (black) Armenian Dutch and Flemish English Finnish French German Hebrew Irish. Italian Lithuanian Portuguese Scandinavian ² Scatch Slavonic ² Other specific races Mixed Race unknown Total | $ \begin{array}{c} 1 \\ 1 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$ | | $ \begin{array}{c} 1 \\ 1 \\ - \\ - \\ - \\ - \\ - \\ 1 \\ 1 \\ - \\ - \\ - \\ - \\ - \\ 1 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$ | - - - - - - - - - - - - - - - - - - - | | | | | | - $ -$ | - $ -$ | - - - - - - - - | - - - - - - - - - - - - - - - - - - - | - $ -$ | - - 2 1 2 - 1 3 4 - 1 1 - 12 - 1 3 4 - 1 2 - - 1 2 - - 1 2 - - 1 2 - - 1 2 - - 1 - - 1 2 - - - - - - - - | $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{4}$ $-\frac{9}{6}$ $-\frac{2}{-3}$ $-\frac{1}{1}$ $-\frac{1}{1}$ $-\frac{1}{9}$ $-\frac{1}{1}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ - | $ \begin{array}{r} -1 \\ -3 \\ 2 \\ 14 \\ 2 \\ 1 \\ 3 \\ -1 \\ 1 \\ -3 \\ -1 \\ 1 \\ -3 \\ -21 \\ 4 \\ 65 \end{array} $ | -3 -4 4 20 2 2 7 15 9 2 1 4 4 4 4 4 - 40 5 123 |

TABLE 6. Race of First Admissions Classified with Reference to Principal Psychoses - Continued

TABLE 6. Race of First Admissions Classified with Reference to Principal Psychoses - Concluded

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| African (black) . Armenian . Chinese . Dutch and Flemish English Finnish German . Greek . Hebrew . Italian 1 Lithuanian . Scotch . Scandinavian 3 Scotch . Slavonic 3 Other specific races Mixed . Race unknown . | | | $\frac{1}{1}$ | - - - - - - - - - - - - - - - - - - - | | | - - - - - - - - - - - - - - - - - - - | | | | | | - - - - - - - - | $ \begin{array}{c} 1 \\ - \\ - \\ 1 \\ 5 \\ - \\ - \\ 1 \\ 3 \\ - \\ 1 \\ 5 \\ 7 \\ - \\ 25 \\ \end{array} $ | $ \begin{array}{c} 1 \\ - \\ - \\ 3 \\ 10 \\ - \\ 1 \\ 11 \\ 11 \\ 7 \\ - \\ 2 \\ 1 \\ 5 \\ - \\ 2 \\ 4 \\ 1 \\ 70 \\ \end{array} $ | | | |

¹Includes "North" and "South". ²Norwegians, Danes and Swedes. ³Includes Bohemian, Bosnian, Croatian, Dalmatian, Herzegovinian, Montengerin, Moravian, Polish Russian, Ruthenian, Servian, Slovak, Slovenian.

| TABLE 7. Age of First Admissions Classified with Reference to Principal Psychoses | 15-19 20-24 25-29 30-34 years years years years | T. <u>M. F. T.</u> <u>M. F. T.</u> <u>M. F. T.</u> <u>M. F. T.</u> | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 3 10 16 26 25 12 37 23 19 42 33 20 53 |
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| TABLE 7. Ag | PSVCHOSES | / | With styphilitic meningo-encephalitis With other forms of syphilis Mich other intections of syphilis Alcoholic psychoses Alcoholic psychoses Traumatic psychoses With a check and a sychoses With other disturbances of circulation With other and psychoses Due to other metabolic diseases, etc. With other area growth Psychoneuroses Due to new growth With metal deficiency With mental deficiency With mental deficiency With mental deficiency With metal deficiency Withour psychoses Withour psychoses | Total |

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| 65–69 years | M. F. T. | 1 - 1 - 1 - 1 | 19 11 30 |
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| Environment of First Admissions Classified with Reference to Principal Psychoses | | i. | $\begin{array}{c} \begin{array}{c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & $ | 540 |
| ironn | TOTAL | L E | 13 3 5 2 3 3 8 1 5 1 / 2 5 3 3 1 2 1 2 | 227 |
| | | M. | | 313 |
| 9. | | <u>.</u> | · · · · · · · · · · · · · · · · · · · | <u>.</u> |
| TABLE | | | iis v) vstem | • |
| $\mathbf{T}_{\mathbf{A}}$ | | | y · · · | |
| | S | | encer inlis eases of ciris of ciris ilisease ilisease ses ses ses rer ers | • |
| | PSYCHOSES | | With syphilitic meningo-encephalitis With other forms of syphiliss . With other infectious diseases . With other infectious diseases . Due to drugs, etc Mith cerebral arteriosclerosis . With cerebral arteriosclerosis . With corrule sychoses . With corrule sychoses . With other disturbances of circulation with other disturbances of circulation with other disturbances of circulation with order changes of nervous syst one to new growth of diseases, etc. Due to new growth of diseases, etc. Due to new growth of diseases, etc. With organic changes of nervous syst exclonentoses . Denentia praecox Paychoneuroses . With mertal deficiency . | · |
| | Psyc | | With syphilitic meningo With other forms of sypt With other forms of sypt With other infectious di Metholic psychoses . Traumatic systheses . With cerebral arteriosol With other disturbances With other disturbances With correlation and With other disturbances With correlations With other metabolic Due to new growth Due to new growth Psychoneuroses . Due to new growth Psychoneuroses . Due to new growth Psychoneuroses . Due to new growth Psychoneuroses . Mith psychosal distributions With mental deficiency With mental deficiency With mental deficiency With psychoses for the With psychoses . Without psychoses Without psychoses . | · |
| | | | With syphilitic men With syphilitic men With other infection Micholic psychoses Micholic psychoses Micholic psychoses With cerebral arteri With other disturba With convulsive dis- enile psychoses are not and paran With other metab With other metab With area and paran With mental deficie Undargosed psychoses Withment psychoses Withment by by by argan With mental deficie Undargosed psychoses Primary behavior d | · |
| | - | | syph othe offe offe offe offe offe offe offe of | Total |
| | | | With With Alcoh Due d With With With With With With With With | |
| | ' | | | |

| | | | | | . 09 | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------|-------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----|-------------|------|-----------------------|------------------|------------------|
| Psychoses | | TOTAL | | Dep | pend | ent | м | argin | al | | mfc ible | ort- | Un | knov | wn |
| | М. | F. | Т. | М. | F. | т. | М. | F. | т. | м. | F. | т. | М. | F. | т. |
| With syphilitic meningo- encephalitis | 29 1 | $ \begin{array}{c} 2 \\ - \\ 2 \\ 1 \\ 5 \\ 3 \\ 2 \\ 2 \\ 7 \\ 6 \\ - \\ 1 \\ 8 \\ 17 \\ 65 \\ 2 \\ \end{array} $ | 31 1 3 3 3 1 1 1 1 1 1 5 3 40 13 15 2 3 20 26 123 12 | | | | 23 3 24 2 1 38 5 1 7 6 6 1 2 9 8 48 8 | $\begin{array}{c} 2 \\ - \\ - \\ 2 \\ 1 \\ 3 \\ 1 \\ 3 \\ 2 \\ 1 \\ 5 \\ 6 \\ - \\ 1 \\ 6 \\ 5 \\ 4 \\ 2 \end{array}$ | 25 3 26 3 1 69 8 3 22 12 12 12 12 12 12 12 10 | | | | - $ -$ | | |
| With psychopathic person- ality With mental deficiency Undiagnosed psychoses Without psychoses Primary behavior disorders. | 4 4 45 1 | - 5 25 1 | 4 9 1 70 2 | $2 \\ 2 \\ - \\ 14 \\ 1$ | - 3 - 5 1 | 2 5 19 2 | 2 2 28 - | 2 19 | 2 4 47 - | | 1 1 1 1 | | - - 1 3 - | - - 1 - | - - 1 4 |
| Total | 313 | 227 | 540 | 69 | 39 | 108 | 224 | 169 | 393 | - | 1 | 1 | 20 | 18 | 38 |

| TABLE 10. | Economic Condition of First A | Admissions Classified with Reference to |) | | | | | |
|---------------------|-------------------------------|-----------------------------------------|---|--|--|--|--|--|
| Principal Psychoses | | | | | | | | |

| TABLE 11. | Use of Alcohol by First Admissions Classified with Reference to Principal |
|-----------|---------------------------------------------------------------------------|
| | Psychoses |

| | | | | | - | | | | | | | | | | |
|-------------------------------------------------------------------------------------------|--------------|---------------|---------------|-------------|-------------|---------------|-------------|--------|---------------|-------------------------------------------|---------------|---------------|-------------|-------------|-------------|
| Psychoses | | TOTAL | | А | bstine | nt | Ter | nper | ate | Inte | empe | erate | Ur | kno | wn |
| TSYCHOSES | М. | F. | т. | М. | F. | т. | М. | F. | Τ. | М. | F. | Т. | М. | F. | т. |
| With syphilitic men- ingo-encephalitis . With other forms of | 29 | 2 | 31 | 8 | 2 | 10 | 13 | - | 13 | 7 | - | 7 | 1 | - | 1 |
| syphilis With other infectious | 1 | - | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| diseases Alcoholic psychoses . Due to drugs, etc. | 3 31 2 | - 2 1 | 3 33 3 | 1 | - - 1 | $\frac{1}{1}$ | 1 - 1 | - | $\frac{1}{1}$ | 1 31 | 2 | 1 33 | - - 1 | Ξ | - - 1 |
| Traumatic psychoses With cerebral arterio- | ĩ | - | 1 | - | - | - | - | ~ | - | 1 | - | 1 | - | - | 2 |
| sclerosis | 57 | 53 | 110 | 14 | 29 | 43 | 22 | 5 | 27 | 11 | 3 | 14 | 10 | 16 | 26 |
| of circulation With convulsive dis- | 12 | 3 | 15 | 2 | 2 | 4 | 2 | - | 2 | 2 | - | 2 | 6 | 1 | 7 |
| orders (epilepsy) . Senile psychoses . Involutional psychoses Due to other meta- | 1 13 6 | 27 27 7 | 3 40 13 | - 5 2 | 18 5 | 23 23 7 | 1 4 3 | - 1 | 1 4 4 | $\begin{bmatrix} -\\ 2\\ 1 \end{bmatrix}$ | 6 | | 2 | - 3 1 | - 5 1 |
| bolic diseases, etc Due to new growth . With organic changes | 9 2 | 6 - | 15 2 | 3 | 3 | <u>6</u> | 4 1 | 2 | 6 1 | 2 - | _ | 2_ | 1 | 1 | 1 1 |
| of nervous system . Psychoneuroses . Manic-depressive psy- | 2 12 | 1 8 | 3 20 | 3 | 7 | 10 | 1 4 | 1 | 1 5 | 1 4 | <u>1</u> _ | 2 4 | 1 | - | ī |
| choses Dementia praecox . Paranoia and paranoid | 9 58 | 17 65 | 26 123 | 3 14 | 11 43 | 14 57 | 6 26 | 3 9 | 9 35 | 14 | 1 1 | 1 15 | 4 | 2 12 | 2 16 |
| conditions With psychopathic per- | 10 | 2 | 12 | 3 | 2 | 5 | 6 | - | 6 | 1 | - | 1 | - | - | - |
| sonality With mental deficiency | 4 4 1 | 5 | 4 9 1 | 1 2 | 5 | 1 7 | 1 2 | - | 12 | $\frac{2}{1}$ | - | $\frac{2}{1}$ | - | - | - |
| Undiagnosed psychoses Without psychoses . Primary behavior dis- | 45 | 25 | 70 | 10 | 11 | 21 | 15 | 7 | 22 | 17 | 4 | 21 | 3 | 3 | 6 |
| orders | 1 | 1 | 2 | 1 | _ | 1 | - | 1 | 1 | _ | • - | | - | - | |
| Total | 313 | 227 | 540 · | 73 | 141 | 214 | 113 | 29 | 142 | 98 | 18 | 116 | 29 | 39 | 68 |

| o Principal Psychoses |
|-----------------------|
| Reference to |
| assified with |
| rst Admissions Cl |
| Condition of Fi |
| 12. Marital |
| TABLE 12 |

| Psychoses | F . | TOTAL | | 5 | Single | | Married | ried | | Widowed | 70 | Dive | Divorced | | Separated | ed | Unk | Unknown |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------|---------------------------------------------------------|-----------------------------------------|-----------------------------|------------------|---------------------------------------|-------------------------------------------------------|-------------------------|---------|----------------|-------|----------|--------|-----------|----|-----|---------|
| • • • • • • • • • • • • • • • • • • • | N. | E. | Ŀ. | M. | F. T. | | M. F. | н | X | स | H | M. F. | Ŀ. | X | н. | Ŀ. | м. | F. T. |
| With syphilitic meningo-encephalitis With other infectious discases Mith other infectious discases Alcoholic psychoses Due to drugs, etc. Due to drugs, etc. With certerial arterioserosis With cher disturbances of circulation With convulsive disorders (epilepsy) Senile psychoses With convulsive disorders (epilepsy) Senile psychoses Throutional psychoses Due to other metabolic diseases, etc. Due to other metabolic diseases, etc. Due to onew growth With organic changes of nervous system Psychonearies Due to new growth With organic changes of nervous system Psychonearies Due to new growth With nerval deficiency With meral deficiency With meral deficiency With psychoses Without psychoses Due to be a deficiency With meral deficiency With meral deficiency With nerval deficiency With psychoses | | 22 22 22 22 22 22 1 2 1 1 2 1 2 1 2 1 2 | $\begin{array}{c} 333333333333333333333333333333333333$ | 1 01 01 0100400000000000000000000000000 | 111111001-0001110000011010- | 1 21 -0 2224 | 2 1 2 2 2 2 2 2 2 2 | 21 - 1 22 - 4 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 | 4114-18014-111-4-111101 | | 01104012011141 | 4 - | | ······ | | | | |
| Total | 313 | 227 | 540 | 135 | 77 2 | 212 1: | 122 96 | 5 218 | 39 | 48 | 87 | 14 | 4 18 | - | 7 | e | 2 | - 7 |

| . Mental Disorders of All Admissions, All Discharges, All Deaths, 1937, All Cases in Residence and All Cases Out on | Sentember |
|---------------------------------------------------------------------------------------------------------------------|-----------|
| Е 13. | |
| TABLE 13. | |

| .D. | 40 | | | | | | | | | | | | | | | | | | | | | • | 01 |
|------------------------------------------------|----------------------------|---------------------|----|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------|--------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-------------------------|----------------|------------------------------|-----------------------|-------------------------------------------------|----------------------------------------------------------|---------------------------|----------------------------------|-----------------------------------------------|---------------------------------------------------|
| 1 | STC. | 8 | H | | 4 | | | | | | 1 က | 14 | ы | 1 | - | | | | φı | 1 | ı | | i i |
| | ISITE | Read- missions | E. | | 3 | 11. | | 111 | | 1 1 | 1.1 | I. | н | 1 | | | 1 1 | | 41 | 1 | ı | 1 | 1 |
| | PATIENTS OUT ON VISIT ETC. | R.in | Й. | | - | ۰ | 11 | 111 | | | 1 00 | 14 | 1.1 | 1 | - | • • | | | 1 12 | I | I | 1 | |
| | OUT | suo | ÷ | | 18 | - 1 | | | | -15 | 01 V | 15 | 1 - | 1 | | | 1 1 | | 32 | 10 | N | 1+ | |
| | ENTS | First Admissions | н. | | 6 | 1.1 | E I | | | 1.1 | I 🗝 | I. | L I | I | | | 1 1 | | ۱ <mark>۲</mark> | t | ı | 1 - | |
| | Рати | I Adn | M. | | 6 | - 1 | - | 11 | | ~~ | 04 | 15 | 1 | I | | | 1 1 | | 22 | 10 | 7 | 1 | 1 1 |
| ĺ | | s | Ľ. | * 1 | 35 | ω ι (| 11 | | | 4 | 04 | 46 | 10 | 1 | , | , | 1 1 | | 33. | I | 1 | 0. | |
| | ATION | Read- missions | н. | | × | - 1 - | -6 | | | 1 1 | - 1 | 4 | 10 | 1 | | 1 | 1 1 | | 18 | I | 1 | ς, ι | - 1 |
| | PUL/ | ы | M. | | 27 | 0 I V | - v | | | 4- | - 4 | 42 | 11 | I | ~ | C | 13 | | 15 | I | 1 | 9 | |
| | RESIDENT POPULATION | ns | Ŀ. | | 102 | ω ⊷ | 01- | 1 10 1 | | 15 | 14 7 | 20 | - 7 | " | , - | 4 . | | | 120 | 0. | - | 4 | - |
| | SIDE | First Admissions | н. | | 23 | | იო | | | 4 1 | 10 | ŝ | . – | - | • | 1 | 11 | | 62 | 1 | ı | 2 | l i f |
| | RE | Adn | ×. | | 19 | 2-12 | 0 4 | 101 | | 15 | 135 | 23 | | ~ | . . | | | | ں 82 ا | с 1• | - | 5 | - |
| Sex | | | ÷ | | ŝ | | 1 | 4 | | | | | + 1 | 1 | | | 1 1 | | <u>ლ</u> I | - | 1 | 1 | |
| and | | Read- missions | н | | | - 1 | | 411 | | 11 | 1.1 | t | 1.1 | ı | 1 | I | 1.1 | | 41 | ı | 1 | 1 | |
| September 30, 1937, by Status of Admission and | ALL DEATHS | Remis | ×. | | s | t t | | | | - 1 | | S | 1.1 | I | 1 | I | t I | | o 1 | - | I | | |
| niss | ã | su | .: | | 17 | | 11 | 110 | 1 | 1 7 | 101 | 7 | 11 | 1 | ; | | 1 | | 88 1 | 10 | 1 | 1 | 5 |
| $Ad\eta$ | AL | First Admissions | Ë. | | 3 | | - i | . | • | i i | 1 1 | I. | 1.1 | 1 | | | 11 | | | 7 | ı | 1 | |
| s of | | Adm | M. | | 14 | | - 1 | | • | 1 17 | 10 | 7 | 1.1 | 1 | | | - 1 | | 49 | 80 | ı | 1 | 101 |
| tatu | | ø | Ŀ. | 1 | 8 | | | | 4 | | 1.1 | 15 | | 1 | | I | 1 1 | | 41 | I | 1 | 1 | |
| y S | SES | Read- missions | Ч. | | - | 11. | | | • | t i | I I | - | 11 | 1 | | I | 1.1 | | 1 19 | ī | 1 | U | - |
| 37, b | ALL DISCHARGES | Ri | .Й | | 7 | - 1 | i i | | | | L L | 14 | 1 | - 1 | | I | 11 | | 1 12 | I | I | I I | 1 |
| 19 | Disc | suo | Ŀ. | | 6 | m Ι | 1 1 - | -0- | • | 5 01 | 10 | 6 | 11 | I | | | 1 1 | | 18 | 1. | - | 10 | 101 |
| 30, | All | First Admissions | Ŀ. | | 3 | 1 3 | | - 1 - | • | | L I | I | I I | I | | I | i I | | ∞ I | 1. | - | 1 - | |
| nber | | Adr | М | | 6 | - 1 | 1 1 | 101 | | 4- | ١Q | 6 | 1.1 | I | | I | 11 | | 21 | I | 1 | - 1 - | |
| spte | | . 8 | ÷. | | S | | 12 | | | ۱ĸ | 12 | 17 | 1 6 | 1 | ç | 4 | | | 14 | 1 | 1 | 1 | - 1 |
| S | SNC | Read- missions | н. | | | 1.1. | - 1 | 111 | | t t | 1.1 | I. | 1 | 1 | | I | 1.1 | | 0 I | I | I | 1 - | - 1 |
| | ALL ADMISSIONS | H E | M. | | 4 | - 1 | 1 71 | | | 1 00 | -0 | 17 | 1 - | | ſ | 4 | | | ו יי | - | 1 | - | 1 |
| | ADI | suo | Т. | | 31 | 1.1. | - 1 | 101- | • | | 3 10 3 | 18 | 1 00 | 1 | - | - | 1.1 | | 110 | 13 | N | 10 | 0 1 |
| | ALL | First Admissions | F. | | 2 | 1.1 | 11 | 111 | | 1.1 | | I | 1 - | 1 | | I | 1 1 | | 53 | 0, | - | 10 | 11 |
| | | Vdi | N. | | 29 | 1.1. | - 1 | 101- | • | | 00 | 18 | 10 | 1 | • | - | 1.1 | | 57 | Ξ. | - | 1. | - 1 |
| | | | | with /ous | type | | • •. | am sy e | • | ••• | | oge- | • • | | lity | ter- | | e of | is . | • | Dis- | • | |
| | | ERS | | iuted | د. – ابو | | alitis | lisea | tion. | atior | sis . | r Ex | • • | :: | personality | tald | • • | rbanc | clero: m | ase | sive | | s |
| | | ORDI | | 4880c ntra] | halit esis) ar tv | ial gr | ceph | ous of our | oxica | toxic ens . | ycho; osis | Othe | | nmo | . Pe | men | • • | Distu | erioso | dise | inauo | ation | pes |
| | | Dis | | o or . Le Ce | pare pare | hilis | es icen | nfect | oInt hol: | al in rem | 's ps | es . gs or | ses . set di | to Tr | natic | s natic | sa es | to 1 | ulart | rena | 10 C | terio | tic ti |
| | | MENTAL DISORDERS | | Duel n: sof th m: | Meningo-encephalitic type (general paresis) Meningo-vasular type (cere. | bral syphilis) /ith intracrani | r typ | heri | Due | blogic ium (| Korsakow's psychosis Acute hallucinosis | Drug | Due to gases . Due to gases . Due to other drugs | Due | trau | Post-traumatic mental deter- | ioration ther type | Due ion: | rebra | rdio- | Due | Epik ic dei | pilep |
| | | ME | | Psychoses Due to or Associated with Infection: Syphilis of the Central Nervous System: | Meni Veni | Vith intracranial gumma | Uther types With epidemic encephalitis | With acute cnorea (Sygennam s) With other infectious disease | Psychoses Due to Interication: Due to Alcohol: | Pathological intoxication Delirium tremens . | Korsakow's psych Acute hallucinosis | Other types . Due to Drugs or Other Exoge- | Due 1 | Psychoses Due to Trauma | Post-traumatic | Post- | ior. Dthei | ychoses Du | With cerebral arteriosclerosis With cerebral embolism | With cardio-renal disease | hoses | orders (Epilepsy): Epileptic deterioration | Epirepuic clouded states Other epileptic types |
| | | | | Payc In, Sy | | | M | 886 | Paye | | | ā | | Psyc: | 1 | | | Psychoses Due to Disturbance of Circulation: | 88 | ₿č | Paychoses Due to Convulsive Dis- | 286 | 10 10 |
| | | | | | | | | | | | | | | | | | | | | | | | |

| nce and All Cases Out on | |
|--------------------------|--------------------|
| 37, All Cases in Reside | x - Concluded |
| rges, All Deaths, 1937 | Admission and Se. |
| s, All Discharges, | 37. bu Status of 4 |
| of All Admissions | September 30. 19: |
| Mental Disorders o | |
| TABLE 13. | |

| 4 | | | | | | | | | | Ρ. | D. 23 |
|----------------------------------------------------|---------------------------|---------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| | ETC | ŝ | Ţ. | | m 1 0 | | | 811 | 4 0 | ET L | N 11 |
| | I TISI | Read- missions | F. | | 7 7 | | E E | 1 1 | 3 7 | ы | |
| | PATIENTS OUT ON VISIT ETC | R in | Μ. | | I I | + + + - | - 1 | I I I | 1 19 | 111 | ~ 11 |
| | OUT | suo | T. | 50 4 | 53.1 | 070 | 1- | 1.1.1 | | 111 | 1 11 |
| 1 | ENTS | First Admissions | н. | € − 4 | 500 | 0101 | 1.1 | 1.1.1 | | E E E | J II |
| | PATI | Adn | М. | 8 | 3 5 | | I - | 1.1.1 | 1 | 111 | 1 11 |
| l | 7 | s | T. | 80112 | 500 | 5111 | 11 | | xx I | 1-1 | |
| | ATION | Read- missions | F. | 8 | 701 | · · · - | L Ł | 111 | 4 1 | i 🕶 I | 1 11 |
| | DPUL | H E | Μ. | 41104 | * | = | 1.1 | | 4 1 | 111 | 1 +1 |
| - | RESIDENT POPULATION | ons | Ŀ. | 28 1 27 27 | 24 7 9 | 10^{10} | 1 I | 1 2 | ∞ I | 111 | 6 11 |
| nde | ESIDI | First Admissions | н. | $^{11}_{24}$ | 17 5 | 3517 | 1.1 | 7 | - 5 | 111 | м н |
| Concluded | R | PA | M. | 0110 | 4-4 | 1 - 1 - 1 - 1 | ы | | ا و | (I I | - 11 |
| Ŭ | | 0 | | ∞ - | 111 | 1111 | 11 | 111 | 1 1 | 111 | 1 11 |
| - x - | s | Read- missions | н. Н | ∞ – | 1.1.1 | +++ | 1-1 | | 1 I | 131 | 1 I. |
| September 30, 1937, by Status of Admission and Sex | ALL DEATHS | a.e | N. | 11111 | I = I = I | 1111 | 1.1 | 111 | 1 I | 111 | 1 11 |
| ı an | , D | suo | L. | ∞ I ¢ I 8 | - I S | -101 | 1.1 | 11- | 1 5 | 111 | 1 1 1 |
| ssion | AI | First Admissions | E. | ≪ 4≉ Cr 50 | | 11-10 | 1.1 | 111 | 1 1 | | 1 11 |
| dmi | | Adr | M. | 1 - 4 | 4 1 | | 1.1 | 11 | 1 3 | 111 | 1 1) |
| f A | | s | T. | 11111 | 114 | | 11 | 1 | - 1 | ·) - | |
| us c | GES | Read- missions | Ŀ. | 11111 | 111 | | ET | 111 | I | 111 | |
| Stat | ALL DISCHARGES | 1 8 | M. | 11111 | | | 1.1 | 1 🗝 1 | I I | 114 | |
| by | DIS | ons | T. | | 4 - 2 | 0 17 | - 1 | 111 | - 3 | | - 11 |
| 937 | ALL | First Admissions | Ē | 11114 | 213 | 9 7 | 1.1 | 111 | 1 73 | ~) | 1 11 |
| 0, 1 | _ | PY | × | | | | - 1 | | | 111 | |
| er 3 | | - su | н. | 01010 | | | I I | 111 | m | | - 11 |
| temb | IONS | Read- missions | ц. | 01010 | 115 | 1111 | 1.1 | 111 | - 1 | | 1 11 |
| Sepi | ALL ADMISSIONS | = | N. | | | | 1.1 | | | | - 11 |
| | t Ar | First Imissions | T. | 22 - 11 | - 10 3 - 10 | 1 4 | | | - 1 | | |
| | Ψ | | Е. | 4 0,0 8 | 10 10 | 1 1 014 | | = 1 1 | | | |
| | | Ac | N. | | | | | | | | |
| | | ۵. | | Psychoses Due to Distarbances of Matabolism, Growth, Nutrition or Endocrine Function: Senile Psychoses: Emple deterioration Presbyophrenic type Depressed and agitated types Depressed and agitated types Paranoid types | Melancholia | ses | With intractanial morphane. With other neoplasms With other neoplasms Psychoses Due to Unknown or He- | redutary Causes, but Associated with Organic Changes: With multiple sclerosis With Huntington's chorea . With Huntington's chorea . With other brain or nervous | Disorders of Psychogenic Origin or Without Cleary Defined Tangible Cause or Structural Change: Psychoneuroses: Anxiery hysteria | Paralytic type | Paychasthenia or compulsive states: Phobia |
| | | RDER | | turba i, Ni on: on: ype fituse gitate | | dise | eopla ms nown | f Ass es: osis ans choi | nic O fned Cha: | eria: pe cair | |
| | | DISO | | Dis Prout Ses: Triorat triorat d cor nd ag pes Ssych | pes of th | sease natic | nial n oplas | s, bu hang sclei s agit ton's rain | hoge y Dej tural es: | Paralytic type Autonomic type Amnesic type Mived hysterica | nia ol |
| | | TAL | | we to ime F ychos ophreophrean sed a id ty nal F | id ty types | on de r's di | acral acral | nuc Cause Itiple alysing nting | Struc Jearl Struc y hys | rsion ulytic onom nesic | neurosis neurosis states: Obsession Phobia |
| | | MENTAL DISORDERS | | grehoses Due to Disturbo Metholism, Grouth, Wi Areatorine Function. Semile Psychoses: Simple deterioration Presbyophrenic type Delirons and confluse Depressed and agliate Depressed and agliate | Melancholia . Paranoid types Other types . ith diseases of t | Exhaustion delirium Alzheimer's disease With other somatic diseases | With intracranial neoplasms With other neoplasms whoses Due to Unknown or F | rediary Causes, but Associ with Organic Changes: With multiple sclerosis With paralysis agitans With huntington's chorea With other brain or nerr | diseases sorders of Psychogenic Origi Without Clearly Defined Tan Cause or Structural Change: Psychoneuroses: Anxiety hysteria | Conversion hysteria: Paralytic type . Autonomic type . Amnesic type . Mived hysterical | sychastl sychastl states: Obsessi Phobia |
| | | | | Seni Reko | A9.93 | Exhaustion delirium Alzheimer's disease | Witl Witl Witl sycho | with with Witl Witl Witl Witl | Nisord Will Psyc | 5 | <u>с</u> , |
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| | 181 2 1 8 | $ \begin{array}{c} 24 \\ 98 \\ 98 \\ 152 \\ 152 \\ 65 \\ 13 \\ 65 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13$ | 111 111 112 112 113 111 | 11 | 1 1 | 1111 | | | 1 | 1 | 1,335 |
| | 84151- | $^{+}_{}^{}_{}^{}_{}^{}_{$ | 11881 | 11 | 1 1 | 1111 | | | 1 | | 657 |
| 11110 | 41112 | $^{+15}_{-24}$ | 2002 | ш | 1 1 | 1.1.1.1 | 1.1 | 11 | T | 1 | 678 6 |
| 11111 | 0-11- | 2000201-1 | 11001 | l t | 1 1 | 1111 | 11 | 1.1 | 1 | 1 | 64 |
| | | H0044 | 1 1 1 $+$ $+$ | 11 | 1 1 | 1113 | 11 | I I | I. | Т | 27 |
| | | | 10011 | 11 | I I | 1111 | 11 | 11 | 1 | - 1 | 37 |
| 11111 | ω4 I ⊷ I I | -0.401-1 | | 11 | 1 1 | 1111 | 11 | 11 | 1 | 1 | 220 |
| 11111 | | | 11111 | 1-1 | 1 1 | 1111 | | 1.1 | ł | - 1 | 87 2 |
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| 114014 | 12 1 1 1 1 | ω 6 11 2 15 0 3 1 1 2 1 2 1 2 0 3 | 1 1 5 3 1 | 13 1 | 1 2 | 1041 | 8 7 | 25 5 | 1 | - | 280 |
| 1141014 | 80411-1 | 12105571 | 10411 | 1 7 | 1 1 | 9111 | 35 | N = | 1 | 1 | 113 |
| 110000 | ~~ I I +- | 1281280 | | 11 | 7 7 | -041 | l ∿ | $^{20}_{4}$ | I | - | 167 |
| 0 | 818 | 1441 1881 1881 | 1 10 1 | 1 | 1 1 | 1 52 | 8 | 40 | Ħ | Т | 217 |
| = = | 112 | 14020114 | 11011 | 1 3 | ТТ | NHII | 3 | - 1 | I | 1 | 6 |
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| 1140010 | 128 1 5 1 4 | $^{+}$ | 1051-1 | 12 | 1 7 | 1640 | 6 | 21 5 | 1 | 1 | 540 |
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| 1100-10 | 11110 | 10 13 13 12 13 12 10 10 10 10 10 10 10 10 10 10 10 10 10 | 4 11 | 10 | 1 7 | -041 | 1 10 | 16 4 | 1 | - | 313 |
| Mixed compulsive states . Neurasthania Hypochoudriasis . Reactive depression . Anxiety state . Mariety state . | Manic type | Sind) Hebephrenic type Catanoic type Paranoid type Paranoid type Paranoid conditions | Mid michael ucherency . Idiot | W twout r sychosts: Alcoholism Drug addiction | Prisoners due to epidemic en- cephaltis Psychopathic personality: With pathological sexuality | With pathological emotion- ality . With asocial or amoral trends . Mixed types . | Mental deficiency: Imbecile Moron | Conditions | Primary Denarration Disorders: Simple adult maladjustment . Primary behavior disorders in | Conduct disturbance | Grand Total |

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NOTE: -- Admissions and discharges do not include transfers.

| Psychoses | | TOTAL | | Re | cove | red | In | iprov | ved. | Uni | npro | ved |
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| | M. | F. | <u>T.</u> | М. | F. | Т. | М. | F. | Т. | м. | F. | Т. |
| With syphilitic meningo-encephalitis With other forms of syphilis With other infectious diseases. Alcoholic psychoses Due to drugs, etc. With other disturbances of circulation With other disturbances of circulation. With other disturbances of circulation. With onvulsive disorders (epilepsy) Senile psychoses Involutional psychoses Due to other metabolic diseases, etc. Due to other metabolic diseases, etc. Due to other metabolic diseases, etc. Mith organic changes of nervous system Psychoneuroses Dementia praecox Paranoia and paranoid conditions With psychopathic personality With psychopathic personality With metal deficiency Undiagnosed psychoses Primary behavior disorders | $ \begin{array}{c} 13\\2\\-\\2\\39\\1\\12\\1\\2\\3\\2\\6\\1\\1\\17\\23\\46\\4\\4\\3\\1\\65\\2\end{array} $ | $\begin{array}{c} 4\\ 3\\ 1\\ 3\\ -\\ 10\\ 1\\ 3\\ -\\ 6\\ 5\\ -\\ 3\\ 15\\ 24\\ 5\\ 7\\ 8\\ -\\ 5\\ -\\ 36\\ 1\end{array}$ | $17 \\ 5 \\ 42 \\ 1 \\ 22 \\ 5 \\ 38 \\ 11 \\ 1 \\ 4 \\ 32 \\ 47 \\ 103 \\ 12 \\ 4 \\ 8 \\ 1 \\ 101 \\ 3 \\ 3 \\ 101 \\ 3 \\ 3 \\ 101 \\ 3 \\ 3 \\ 101 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ $ | $ \begin{array}{c} 1 \\ 1 \\ - \\ 1 \\ 27 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 3 \\ - \\ 15 \\ 18 \\ - \\ 4 \\ 1 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$ | $-\frac{1}{3}$ $-\frac{1}{2}$ $-\frac{1}{3}$ $-\frac{1}{2}$ $-\frac{3}{2}$ $-\frac{2}{8}$ $-\frac{1}{3}$ | $ \begin{array}{c} 1\\2\\-\\4\\29\\1\\3\\2\\4\\1\\2\\6\\-\\3\\15\\25\\27\\-\\4\\4\\1\\-\\-\\-\end{array}\right. $ | $\begin{array}{c} 9 \\ 1 \\ - \\ 12 \\ 10 \\ - \\ 2 \\ - \\ 3 \\ - \\ 7 \\ 6 \\ 19 \\ 2 \\ - \\ 1 \\ - \\ 2 \end{array}$ | $\begin{array}{c} 4\\ 2\\ 1\\ -\\ -\\ 9\\ -\\ 1\\ -\\ 6\\ 2\\ -\\ 1\\ 6\\ 14\\ 37\\ 7\\ -\\ 2\\ -\\ -\\ 1\\ \end{array}$ | $ \begin{array}{r} 13 \\ 3 \\ 1 \\ 12 \\ 19 \\ - \\ 1 \\ 2 \\ 6 \\ 5 \\ - \\ 1 \\ 3 \\ 20 \\ 5 \\ 6 \\ 9 \\ - \\ 3 \\ - \\ 3 \\ 3 \\ \end{array} $ | $ \frac{3}{1} $ | | $ \frac{3}{1} $ |
| Total | 250 | 188 | 438 | 89 | 45 | 134 | 74 | 93 | 167 | 22 | 14 | 36 |

TABLE 14. Discharges of Patients Classified with Reference to Principal Psychoses and Condition on Discharge

TABLE 15. Hospital Residence during This Admission of Court First Admissions Discharged during 1937

| Psychoses | , | | | | | | N | lumbe | r | Hospi | erage 1 al Res n Year | idence |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | | | | М. | F. | Т. | М. | F. | Т. |
| With syphilitic meningo-encephalitis With other forms of syphilis Alcoholic psychoses Alcoholic psychoses With other disturbances of circulation With ornulsive disorders (epilepsy) Senile psychoses Involutional psychoses Due to other metabolic diseases, etc. Due to other metabolic diseases, etc. With organic changes of nervous system Psychoneuroses Dementia praecox Dementia praecox Manic-depressive psychoses Dementia praecox With psychopathic personality With psychopases With psychoses Dementia deficiency Undiagnosed psychoses Primary behavior disorders | | ••••••••••••••••••••••••••••••••••••••• | ••••••••••••••••••••••••••••••••••••••• | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | • | $\begin{array}{c} 6\\ 1\\ 2\\ 23\\ 10\\ 1\\ 2\\ 3\\ 1\\ 5\\ 1\\ -\\ 14\\ 7\\ 33\\ 2\\ 2\\ 2\\ 2\\ 1\\ 50\\ 1\end{array}$ | $ \begin{array}{r} 3\\2\\2\\8\\1\\2\\6\\-\\3\\-\\2\\8\\1\\1\\3\\5\\-\\3\\-\\2\\2\\1\end{array} $ | 934 255 1824 91 222 188 425 188 425 1722 | $\begin{array}{c} 1.44\\ 4.50\\ .12\\ 2.11\\ .48\\ .04\\ .12\\ .26\\ .37\\ .92\\ .04\\ -\\ .21\\ .51\\ .60\\ .20\\ .20\\ .20\\ .20\\ .46\\ .07\\ .12\\ \end{array}$ | .34 1.56 .41 .20 .74 .20 1.67 .20 - .10 1.20 .44 .10 1.20 .44 .16 .34 .12 | $\begin{array}{c} 1.08\\ 2.54\\ .26\\ 1.96\\ .59\\ .04\\ .16\\ 1.17\\ .65\\ .04\\ .16\\ 1.17\\ .85\\ .52\\ .18\\ .20\\ .28\\ .46\\ .07\\ .12\\ \end{array}$ |
| Total | • | | • | • | | · | 167 | 113 | 280 | ,63 | .49 | .57 |

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| | With other disturbances of circulation | Ţ. | | | | | | | | | | |
| | With other tturban circula | н. | | | | | | | | | | |
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| | - E - Si | н. | | - 1 1 | 2 | 11- | | 11 | 9 – v | | 1 | 43 |
| | With cerebral arterio- sclerosis | н. | | 1 I | ٦ | 11- | I I | 1.1 | 1 10 | 1.100.14 | ł | 1175 |
| | Ser | M. | 111- | ⊣ t i | Ŧ | 111 | | 1.1 | 1 | | ٦ | 23 |
| ers | es . | Ŀ. | 111 | 11 1 | Î | 111 | 1 1 | 11 | 1 1 1 | 11++1 | 1 | |
| sord | Traumatic psychoses | ы. Т | 111 | 111 | 1 | 1 1 1 | I I | 11 | 1 1 1 | 111111 | ł. | 1111 |
| Dis | Tra | N. | 111 | | ł | 111 | 1 1 | 1 1 | 1 1 1 | 111111 | I | |
| ntal | U S | Ŀ. | 1 ന | 111 | - | 111 | 1 1 | L I | 1 -1 | | I | 0411 |
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| inci | | Ξ. | | 1 1 1 | J | 111 | 1 1 | 1.1 | 1 1 1 | 11111 | I | = 1 1 1 |
| P_{1} | With other infectious diseases | F. | 111. | | 1 | 111 | 1 1 | 11 | 1 11 | | ī | |
| ce to | v ot infe dis | N. | 111 | | t | 111 | I I | 1.1 | т тт | 11111 | i. | |
| eren | Lis. | Ŀ. | 1 | 1 1 | 1 | 111 | 1 1 | 1.1 | 1 1 1 | | 1 | |
| Ref | With epidemic ncephaliti | щ | 111 | | 1 | 111 | 1 1 | 11 | I LI | LIFE | ī | TIT |
| ith | With epidemic encephalitis | W. | 1-1 | 11.1 | 1 | | і I | 11 | I EI | | T | 1111 |
| n pa | | Ŀ. | 111 | I - I | | | 1 1 | 1 7 | 1 1 1 | 1-111 | 1 | 1111 |
| sifi | With other forms of syphilis | Е. | 111 | | ı | 111 | 1 1 | - 1 | 1 1 1 | | ı | |
| Clas | ot forr syp | N. | 111 | ı — 1 | | | 1 1 | - 1 | 1 1 1 | | ł | 1111 |
| nts | | н. | 111 | 1 1 1 | 1 | | 1 1 | 21 | | | 1 | |
| atie | With syphilitic meningo- ncephaliti | <u>н</u> | 111 | | 1 | 111 | 1 1 | m 1 | 1 1 1 | ГЕЕГЕ | 1 | |
| of P | With syphilitic meningo- encephalitis | M. | 111 | | I. | | 4 I | 81 | 1 1 1 | | ı. | 1111 |
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| s of | Total | н. | - 7 | 1 1 | 9 | 7 7 | 1 1 | 4 1 | | 1 | 1 | 36 12 |
| Causes of Death of Patients Classified with Reference to Principal Mental Disorders | | M. | 1611 | | 1 | 1 | 1 1 | 19 1 | 939 | °°°°1 | 1 | 43 18 1 |
| | | | | | . r | | ins of | ن <u>ه</u> | | | • 2 | <u></u> . |
| 16. | | | · · Ę | syphilis (non-nervous forms) Syphilis (non-nervous forms) Puralent infection, septicaemia (non-puer Peral) | Cancer and Other Tumors: Cancer and other malignant tumors. Rheumatic Discoses, Nutritional Discases, Discases of the Endocrine Glands and Other | | Other diseases Diseases of the Blood and Blood-making Organs Hemorthagic conditions Diseases of the Nervous System and Organs of | Special Sense: General paralysis of the insane Other diseases of the nervous system Diseases of the organs of special sense (eve. | ase) | | capillary | (pa |
| BLE | | | fectious and Parasitic Diseases: Erysipelas Lethargic encephalitis (epidemic) Tuberculosis of the respiratory system | | Dise Dise | ritis | aking d Or | Special Sense: General paralysis of the insane Other diseases of the nervous system Diseases of the organs of special sens | ear and mastoid) seases of the Circulatory System: Chronic endocarditis (valvular disease) Diseases of the myocardium | · . | | |
| TABL | АТН | | ases. idem tory | ns) emia | nt tu mal | arth | id-m m an | sane us sy ecia | ysten vular m | t. t. ies | idins | sex(|
| | CAUSES OF DEATH | | Dise (ep pira | forre. | s: igna tritio ine G | . · | Bloc | e ins er vo of sr | y S ₂ valv rdiu | hear hear artei | inclu | ulosi |
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| | CAN | | s enc isis c | non nfec | Dise of the | heur | he B he N he N | aral aral ases | he Canadoc ndoc of th | eros eros eros eros asee | s | ttis) eum(ases |
| | | | pela rgic rgic | lis (al) | er ar tic 1 | at D Jicrl Jra | s of t | al St ral p dise ses o | ear and mastoid) ases of the Circula hronic endocarditi iseases of the myo | seases of the gina pectoris ther diseases of teriosclerosis ingrene her diseases ness of the Bas | hop | bronchitis). obar pneumoi eurisy her diseases (|
| | | | Infectious and Parasitic Diseases: Erysipelas Lethargic encephalitis (epidemic) Tuberculosis of the respiratory sys | Syphilis (non-nervous forms) Puralent infection, septicaem peral) | Cancer and Other Tumors: Cancer and other maligr Rheumatic Diseases, Nutru Diseases of the Endocrine | <i>Ceneral Diseases:</i> Chronic rheumatism, osteoarthriti Pellagra Diabetes | Diseases of the Blood and Blood-mak Biseases of the Blood and Blood-mak Hemorrhagic conditions . Diseases of the Nervous System and | Special Sense: General paralysis of the insane Other diseases of the nervous syst Diseases of the organs of special se | ear and mastoid) Diseases of the Circulatory System: Chronic endocarditis (valvular dis Diseases of the myocardium | Discusse on the coronary arteries gina pectoria Other diseases of the heart. Arteriosclerosis Gaugrene Other diseases of the arteries Disenses of the Bessimintry Sustan | Bronchotis (including diagnetic | bronchitis). Lobar pneumonia Pleurisy Other diseases (tuberculosis except |
| | | | E I I I I I I I I I I I I I I I I I I I | -vr ∙ | Rhe Car | 20400 | Dis | 200d | Dis D | :000⊁0 F | i m ta i | 10 ¹ C |

TABLE 16. Causes of Death of Patients Classified with Reference to Principal Mental Disorders -- Continued

| CAUSES OF DEATH Disease of the Digestive System: Diarrhea and entertits . Diarrhea and entertits . Diseases of the Graito-Urinary System: Orephritis cente, chronic and unspecified) Orepretal diseases excepted . Diseases of the prostate . Diseases of the prostate . Diseases of the prostate . Disease of the prostate . | M. 26 -11 | TotAL F. 24 24 24 24 | 1 1 2 2 3 3 1 1 1 1 2 1 3 1 1 1 1 1 1 1 | M. M. | With syphilitic menuingi- menuingi- encephaliti | | Wit form syph | With With other standards syphilis | ence ence | With epidemic encephalitis encephalitis | | With other iscase iscase | | Alcoh psych M. F | Alcoholic psychoses psychoses 1 (1) (1) (1) (1) (1) (1) (1) (| | Traumatic psychoses M. F. T. M | | 311 1 8 1 M. | With cerebral cerebral scherois sclerois sclerois 3 3 | . 11 00 1 1 10 | With disturbances of circulation M. F. T. B 2 10 8 2 10 | 7ith ther thance culatio |
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| Total | 170 | 114 | 284 | 19 | 1 00 | 22 | 5 | 4 | · | | 1 - | I I | 1 | 1 13 | 16 | · | 1 | 1 | 28 | 43 1 | 101 | 1 6 | 2 |

TABLE 16. Causes of Death of Patients Classified with Reference to Principal Mental Disorders --- Concluded

| CAUSES OF DEATH | With convulsive disorders (epilepsy) | Senile psychoses | Involutional psychoses | Due to other metaholic diseases, etc. | With organic changes of nervous system | Manic- depressive psychoses | Dementia praecox | Paranoia and paranoid conditions | With mental deficiency |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|---------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------|--------------------------------------|-------------------------------------------|------------------------------|
| | M. F. T. | M. F. T. | M. F. T. | M. F. T. | M. F. T. | M. F. T. | M. F. T. | M. F. T. | M. F. T. |
| Infectious and Parasitic Diseases: Eryspolas Lethargic encephalitis (epidemic) Tuberculosis of the respiratory system Tuberculosis of the respiratory system Syphilis (non-nervous forms) Purulent infection, septicaemia (non-puerperal) Cancer and Other Tumors: Cancer and other malignant tumors | | 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 | | 1 1 1 2 1 1 | | 1 1 1 2 1 1 | 7 01 02 7 02 1 02 | | 1 m |

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| seases, Di General Di Fryans of S seene (ey seree) isease) isease) isease) isease) isease) isease) isease) isease) isease) isease) isease) isease) isease) isease isease) isease isease) isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isease isea isea | |
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| bised provident of the provident of the | ause |
| wantic Diseases the Endorrine the Endorrine the ellagraminable of the Endorrine the ellagraminable of the Bloo enorrhafte Contraction the Bloo end and Contraction the Bloomer entraction the Bloomer en | ned Ca Total |
| Rheumatic Discases, Nutritional Discases of the Endorrine Glands and Other General Discases Chronic rheumatism, osteoarthritis Pellagra Diseases of the Nod and Blood and him Organs: Henorringic conditions Discases of the Nervous System and Organs of Special Senses of the Nervous System and Organs of Special General paralysis of the insame Discases of the Organs of Special sense (eye, ear Discases of the Chronitary Arteries and angina Orber discases of the eart the Chronic endocarditis (valvular discase) Discases of the Respiratory System: Discases of the Cardio-Urinary System: Discases of the Respiratory System: Discases of the Poststac Arteria and Arcidental Deaths: Discases of the Poststac | Ill-defined Causes of Death Total |
| | -III |

TABLE 17. Age of Patients at Time of Death Classified with Reference to Principal Psychoses

| | · | | | | | | | | | | | | . | | | | | I |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------|-------------------------------------------------------------------------------------------|------------|----------------|------------------------------------------|----------------|----|----------------|----|---------|----------------|--------|----------------|--------------|----|----------------|------------------|
| PSVCHOSES | | TOTAL. | | 20- yeć | 20–24 years | ~ ~ ~ | 25–29 years | | 30–34 years | | 35 X | 35–39 years | | 40-44 years | 4 7 S | | 45-49 years | |
| | M. | Ŀ. | Ŀ. | M. F | F. T. | м. | F. T. | M. | н. | Ŀ. | Ж | F. T. | x · | ы. | ι. | M. | ы | E |
| With syphilitic meningo-encephalitis With other forms of syphilis With other infections diseases With other infections diseases Alcoholic psychoses Alcoholic psychoses With convulsive disorders (epilepsy) Semile psychoses With convulsive disorders (epilepsy) Semile psychoses Due to other metabolic diseases, etc. Due to other metabolic diseases, etc. With normal psychoses Due to other metabolic diseases, etc. Due to other metabolic diseases, etc. With normal process Dementia praecox Paranoia and paranoid conditions | 01573045520581311250 01573045520581311250 | | 22 101 101 101 101 101 101 101 22 23 22 23 22 23 22 23 23 | | | 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | 13113111111111 | | | | | | | | 01011010 | ~ | | 0-11-11-1101-01- |
| Total | . 170 | 114 | 284 | - | - | 4 | | | - 7 | 3 | 4 | ŝ | 9 6 | 5 2 | 8 | 8 | 4 | 12 |

| 1 | s 1 | Ŀ. | | 23 |
|------------------------------------------------------------------------------------------------|----------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| | 85 years and over | н | | 6 |
| | 85 and | M. | | 14 |
| | | i. | | 18 |
| q | 80–84 years | ц. | | 8 |
| 7. Age of Patients at Time of Death Classified with Reference to Principal Psychoses Concluded | 80 A | м. | 1111114-1-0111011 | 10 |
| oncl | | Ŀ. | 1 0111881151 1 111 | 40 |
| C | 75–79 years | Ŀ | 0 0 14 | 19 |
| - <i>SSS</i> | | Ä | | 21 |
| chos | - | н. | n w 40 w w - | 57 |
| P_{Sy} | 70–74 years | ы | 1 - - - - - - - - - | 24 |
| pal | | M. | 11110100101110411 | 33 |
| inci | 0 | Ŀ. | | 35 |
| ^{o}Pr | 6569 years | ы. | | 17 |
| ce to | | М | | 18 |
| eren | - | Т. | 00110101-100-0411 | 29 |
| Ref | 60–64 years | н. | + + + + + + + + + + + + + + + + + + + | 1 |
| vith | 0 14 | Ж. | 80114141-100-0-11 | 22 |
| ed u | | Ŀ. | ω 0 24 0 2 | 25 |
| ssifi | 55–59 years | щ | | 14 |
| Cla | 07 PI | М | 0111010011111011 | 11 |
| ath | | Ŀ. | 211-01-1110011 | 20 |
| f De | 50–54 years | М. Ғ. | | 4 |
| ne o | 0, 14 | M. | 0 -0 | 16 |
| Tin | | | · · · · · · · · · · · · · · · · · | |
| ts at | | | | • |
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| | PSYCHOSES | | halit | |
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| TABLE | | | o-en alititis liseas s of dis s of dis f dis r of nose | |
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| | | | With syphilitic meningo-encephalitis With other forms of syphilits | To |
| 1 | | | With syphilitic meningo-encephalitis With other forms of syphilis With other infections diseases Alcoholic pychoses diseases Alcoholic pychoses diseases in the ender disturbances of circulation With cher disturbances of circulation With convulsive disorders (epilepsy) Evolutional pychoses Evanolic apychoses Due to other metabolic diseases, etc. With onvolutional pychoses Evanolic apart of the pychoses Due to other metabolic diseases, etc. With metabolic diseases, etc. Paranoia and paranoid conditions With mental deficiency | |

TABLE 18. Total Duration of Hospital Life of Patients Dying in Hospital Classified According to Principal Psychoses

| PSYCHOSES | | | | TOTAL | | 1 n | Less than 1 month | | 1-3 months | hs | E | 4-7 months | | -8- mor | 8–12 months | · , | 1–2 years | 10 | n | 3-4 years | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|-------------------------|-------|----------------------------------------------------------------------------|-----|----------------------|----|------------------|-------------------|-----------------------------------------|------------------|--------|------------|-------------------------|-------------------|--------------|-----------------------------------------|------------------|--------------|-----------------------------------|
| | | | Ř | Ľ. | Ŀ. | M. | F | H. | M. F. | н. | ž | н. Н | н н | M. F | Ŀ. | Σ | F. | Ŀ. | Ä | <u>к</u> . | н |
| With syphilitic meningo-encephalitis With obler forms of syphilis With obler forms of syphilis With other intectious diseases Michoholic psychoses Alcoholic psychoses Traunatic psychoses of circulation With other disturbances of circulation With correl disturbances of circulation With cornulist disturbances of circulation With cornular distrubances of circulation With cornular psychoses Due to other metabolic disease, etc. Manic-depressive psychoses Due to other metabolic disease, etc. With metal deficiency | | | 0127304552958131122 | | 22 22 22 22 22 22 22 22 22 22 22 22 22 | | | | 0-11-100-0111111 | 84114156481144111 | ю I I I I I I I I I I I I I I I I I I I | 8411101001414841 | 10 | | [0 m | 04114151164640111 | | 241 1 0 1 1 0 1 1 1 1 | 4111410111411410 | m m m | 4 - 0 0 - 0 0 |
| Total | • | ۰. | 170 | 114 | 284 | 21 | 19 | 40 | 25 10 | 35 | 21 | 20 | 41 | م | 5 11 | 33 | 17 | 50 | 12 | 6 | 21 |

| TABLE 18. Total Duration of Hospital Life of Patients Dying in Hospital Classified According to Principal Psychoses – Concluded | spital Life of P | atients D | ying in E | losp | ital Cl | assi | fied A | Lecor | ling | to Pr | incip | al F | sych | oses | | one | lude | g | 1 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------|--------------|----------------|--------------|------|----------|---------------|------|----------------|--------|---------------------------------|------------|------------------------------------------|----------------|-------------------|----------|----------------------|-----------------|
| PSYCHOSES | | | 5-6 years | | 7–8 years | 70 | 9- Ye | 9-10 years | | 11–12 years | | 13–14 years | -14 ITS | _ | 15–19 years | 0 | 20 an | 20 years and over | s Li |
| | | | M. F. | н Н | M. F. | Ŀ. | M. | F. T. | X | ш. | н Н | M. F. | н Н | z | щ | Ŀ. | М | E. | E |
| With syphilitic meningo-encephalitis With other forms of syphilis With other forms of syphilis With other interious diseases Attoholic psychoses Traumatic psychoses With other disturbances of circulation With cerebral atteriosderosis With other disturbances of circulation With orden disorders (epilepsy) Senile psychoses Involutional psychoses Involutional psychoses Due to other metabolic diseases, etc. With organic changes of nervous system Manic-depressive psychoses Demonia praedox Demonia praedox With mental deficiency | · · · · · · · · · · · · · · · · · · · | | | I0141101111011 | · | | | | | | | 1 = = = | | ν Ι αι Ι α | | 111101-11111-0010 | 0 | | 111411411210202 |
| Total | | • | 1 1 | 14 | 3 2 | 20 | ε | 5 | 4 | Q | 10 | 3 | 1 4 | 11 | 4 | 15 | 21 | 12 | 33 |

| | | | | | 1 | prem | 001 00 | , 1007 | | |
|----------------------------------------|---|---|---|---|-----|------|--------|--------|-----------------------------------|-------|
| Psychoses | | | | | | Numb | er | Hosp | verage N ital Resi in Years | dence |
| | | | | | М. | F. | Т. | М. | F. | Т. |
| With syphilitic meningo-encephalitis . | | | | | 79 | 23 | 102 | 4.71 | 7.62 | 5.36 |
| With other forms of syphilis | | | | | 6 | 6 | 12 | 7.50 | 4.08 | 5.79 |
| With epidemic encephalitis | | | | | 4 | 3 | 7 | 5.50 | 7.50 | 6.35 |
| With other infectious diseases | | | | | 2 | - | 2 | 3.97 | - | 3.97 |
| Alcoholic psychoses | | | | . | 86 | 6 | 92 | 9.41 | 10.15 | 9.46 |
| Due to drugs, etc. | | | | | 2 | 1 | 3 | 1.47 | .44 | 1.12 |
| Traumatic psychoses | | | | | 5 | 1 | 6 | 2.28 | 7.50 | 3.15 |
| With cerebral arteriosclerosis | | | | | 58 | 62 | 120 | 2.59 | 4.16 | 3.06 |
| With other disturbances of circulation | | | | | 3 | - | · 3 | .98 | | .98 |
| With convulsive disorders (epilepsy) | | | | | 3 | 2 | 5 | 10.83 | 12.50 | 11.50 |
| Senile psychoses | | | | | 17 | 46 | 63 | 5.37 | 4.37 | 4.62 |
| Involutional psychoses | | | | | 11 | 29 | 40 | 6.12 | 6.45 | 6.36 |
| Due to other metabolic diseases, etc. | | | | | 8 | 6 | 14 | 2.09 | 4.31 | 3.04 |
| With organic changes of nervous system | | | | | 6 | 4 | 10 | 2.15 | 5.75 | 3.59 |
| Psychoneuroses | | | | | 4 | 6 | 10 | 1.72 | 6.65 | 4.68 |
| Manic-depressive psychoses | | | | | 13 | 28 | 41 | 5.95 | 3.56 | 4.32 |
| Dementia praecox | | | | | 307 | 335 | 642 | 13.16 | 11.64 | 12.36 |
| Paranoia and paranoid conditions . | | | | | 24 | 43 | 67 | 5.99 | 10.43 | 8.83 |
| With psychopathic personality | | | | | 5 | -8 | 13 | 14.48 | 15.12 | 14.88 |
| With mental deficiency | | | | | 35 | 45 | 80 | 11.52 | 10.20 | 10.78 |
| Without psychoses | ÷ | ÷ | ÷ | | _ | 3 | 3 | | .64 | .64 |

TABLE 19 Average Length of Hospital Residence during the Present Admission ofAll First Admissions in Residence on September 30, 1937

 TABLE 19A.
 Average Length of Hospital Residence during the Present Admission of All Readmissions in Residence on September 30, 1937

1.335

9.43

9.21

9.32

| Psyc | HOSES | | | | | | | r | Jumbo | er | Hosp | verage N ital Resi in Years | dence |
|--------------------------------------------------------------------------------------------|---------|---|----|---|---|---|---|--------------|---------------|---------------|-------------------------|-----------------------------------|-----------------------|
| | | | | | | | | М. | F. | Т. | М. | F. | т. |
| With syphilitic meningo-encep With other forms of syphilis . | halitis | | ÷ | : | | : | ÷ | 27 3 | 8 2, | 35 5 | 6.31 1.83 | 7.37 4.50 | 6.55 2.90 |
| With epidemic encephalitis With other infectious diseases | : | : | : | : | : | : | : | 5 | 2 | 7 | 4.30 | $6.00 \\ 12.50 $ | 4.78 12.50 |
| Alcoholic psychoses Due to drugs, etc Traumatic psychoses | ÷ | : | : | : | : | : | : | 52 | 5 2 | 57 2 3 | 7.94 | $10.10 \\ 12.00 \\ -$ | 8.13 12.00 2.66 |
| With cerebral arteriosclerosis. With other disturbances of circ | ulatio | n | | : | | : | : | 15 | 18 1 | 33 1 | 4.50 | 3.50 2.50 | 3.95 |
| With convulsive disorders (epi Senile psychoses | lepsy) | | • | | | ÷ | | 777 | 4 17 | 11 24 | 6.50 10.92 | 5.75 6.08 | 6.22 7.50 |
| Involutional psychoses Due to other metabolic disease | s, etc. | | | : | : | : | : | 6 1 | 9 1 | 15 2 | 7.50 7.50 | 8.33 7. 50 | 8.00 7.50 |
| With organic changes of nervo Psychoneuroses | | | ۰. | : | : | : | : | 6 7 | 4 5 | 10 12 | 6.66 6.21 | 3.50 6.70 | $5.40 \\ 6.41$ |
| Manic-depressive psychoses . Dementia praecox . | | : | : | : | : | ÷ | : | 34 241 | 42 341 | 76 582 | 7.91 | 8.76 10.31 | 8.38 10.56 |
| Paranoia and paranoid condition With psychopathic personality With mental deficiency | | : | : | : | : | : | • | 7 3 39 | 24 6 39 | 31 9 78 | 13.14 12.50 10.06 | 8.79 8.00 9.44 | 9.77 9.50 9.75 |
| Without psychoses | | ÷ | | : | : | : | | 1 | 4 | 5 | 3.50 | 1.50 | 1.90 |
| Total | | • | | | · | • | • | 464 | 535 | 999 | 9.24 | 9.32 | 9.28 |

| TABLE 20. Family Care Statistics for Year Ended September 30, 193 | TABLE 20. | Family Care | Statistics for | Year Ended | September 30. | 1937 |
|--------------------------------------------------------------------------|-----------|-------------|----------------|------------|---------------|------|
|--------------------------------------------------------------------------|-----------|-------------|----------------|------------|---------------|------|

| | | | | | | | | | | | Males | Female | s Total |
|------------------------------------------------|------------------|----------|------|---|---|---|---|---|---|---|-------|----------|---------|
| Remaining in Family C | | | | | | | | | | | 24 | 86 | 110 |
| On Visit from Family C | are September . | 30, 1936 | | | | | | | | | 4 | 21 | 25 |
| Admitted to Family Ca | re during the ye | ear . | | | | | | | | | 40 | 63 | 103 |
| Whole Number of Cases | | | | | | | | | | | 64 | 149 | 213 |
| Discharged from Family | | | | | | | | | | • | 38 | 67 | 105 |
| Discharged Outright | from Family Ca | re . | • | | | | | | | • | 2 | 2 | 4 |
| From Family Care to | Escape Status | | • | | | • | | • | • | • | 3 | 2 | 5 |
| From Family Care to | Visit Status | • • | | • | • | • | · | • | · | • | 8 | 19 | 27 |
| Returned to Instituti | on, | | | | | | | • | · | • | 25 | 44 | 69 |
| Returned to Instituti | on from Escape | | • | | | | • | · | • | · | 3 | 12 | 5 16 |
| Returned to Institutio | | | | | | | • | • | · | • | 3 | 13 82 | 108 |
| Remaining in Family C | are September 3 | 0, 1937 | • | · | · | | | | | · | 26 | 82 6 | 108 |
| On Visit from Family C Average Daily Number | are September . | 50, 1937 | | • | | | · | | · | • | 29 | 84 | 113 |
| Supported by State | in Family Care | during | rear | · | · | · | • | ٠ | • | • | 18 | 58 | 76 |
| Private | • • • | • • | • | • | • | • | · | • | • | | 10 | 24 | 32 |
| invate | • • • | • • | • | • | • | • | • | • | • | • | 0 | 24 | 52 |

Total

.

