

heartily wish some good way could be found for dealing with such men. Their wives must submit to these conditions and oftentimes cruelty and abuse or go back to the hospital from which she came.

In several cases the children of the family have been sent to the state school but in every case the man goes "scot-free" and the woman "pays the cost." There should be some remedy for such cases. They certainly make one feel like appealing to the governor of Delaware for one of his famous "posts."

Babies are still being born in these families. The woman who threw her baby over the street car gate in Minncapolis had been in one of our institutions for the insane three or four times and was married after her last parole. She told me that "both she and her husband, who is a drinking man, were very fond of children and intended having a large family."

When letters have been written to families for information regarding patients on parole, we have found, in many cases, conditions have been greatly exaggerated or entirely covered up so a report of this kind was unreliable.

Once in a great while we are told of abuse at the hospital from which they came. In such cases we are requested by the superintendents to get all the information we can and report to them at once.

As a general thing those paroled are very friendly towards the hospitals from which they came, often requesting me to deliver kind messages to different physicians and nurses. One woman said "she was afraid she would be sick again and requested me to 'beg' the superintendent not to discharge her." Another woman when I called at her home was on a visit to the hospital from where she came. Here she made a visit of a week "just to encourage the other sick ones" she said. I find many with this same spirit who say they are glad they have a place to go to in case they are sick again.

While at a town in the northern part of the state, I called on a boy once at the state school for feeble-minded. He has but one eye and one ear. When a baby he could not hear or talk. He was sent to the school when a small lad, where he was taught to talk and also to use tools for which he has a great love. He is an only child of a retired farmer and his wife, who are not only devoted to him but "real chummy." It is a pleasure to visit this home which is a surprise, as the mother is a hunchback and has but one leg. I have never seen a home any cleaner in my life. The mother says with tears in her eyes: "Dr. Rogers, superintendent of the school, took my poor little deaf boy and made a happy, useful man of him."

In conclusion, I wish to thank the superintendents from the different hospitals for their valuable assistance, and to your honorable board, I wish to express my appreciation for the kindness and consideration shown me in the last two years.

Respectfully submitted,

MIRA B. GRAY,  
State Parole Agent.

# Minnesota School for Feeble-Minded and Colony for Epileptics

## REPORT OF THE SUPERINTENDENT.

Biennial Period Ending July 31, 1914.

### EXECUTIVE DEPARTMENT.

Superintendent.....	A. C. ROGERS, B. S., M. D., LL. D.
Secretary and Stenographer.....	MISS BERTHA JENSEN
First Assistant Physician.....	E. H. TROWBRIDGE, M. D.
Assistant Physician.....	B. A. FINKLE, M. D.
Assistant Physician.....	ELIZABETH BARNARD, B. S., M. D.
Principal of Schools.....	MISS MARGARET McLEAN
General Matron.....	MISS MARGARET WOOD
Dietitian.....	MISS HELEN C. DAVIS
Matron, School and Training Department.....	MRS. L. O. AVERILL
Matron, Girls' Custodia and Women's Division of Epileptic Colony—	
	MRS. GERTRUDE LOVELY
Matron, Boys' Custodia.....	MRS. MARGARET ILLSLEY
Matron, Men's Division of Epileptic Colony and Springdale Cottage—	
	MISS ADDIE B. JOHNSON
Superintendent of Nurses.....	MISS HENRIETTA CHAMBERLAIN
Steward.....	W. A. RICHARDS
Chief Engineer.....	H. L. WERLAND
Farm Consultant.....	F. A. CORNIEA
Oculist and Aurist.....	DOUGLAS F. WOOD, M. D.
Dentist.....	F. A. ANDEREGG, D. D. S.

### RESEARCH DEPARTMENT.

Psychologist and Director of Research.....	Fred Kuhlmann, Ph. D.
Field Workers....	MISS SAIDEE C. DEVITT, and MISS MARIE T. CURIAL

### BUILDING AND REPAIR DEPARTMENT.

Architect.....	CLARENCE H. JOHNSTON
Consulting Engineer.....	CHAS. L. PILLSBURY CO.
Consulting Landscape Architects and Engineers....	MORELL and NICHOLS
Superintendent of Building Construction.....	M. GORDON CRAIG

State Board of Control, St. Paul, Minn.

Gentlemen: I have the honor to submit herewith the eighteenth biennial report of the Minnesota School for Feeble-Minded and Colony for epileptics, as follows:

#### POPULATION.

MOVEMENT JULY 31, 1912, TO AUGUST 1, 1914.

	Males.	Females.	Total.
Present August 1, 1912.....	633	603	1,236
Absent for the time (summer vacation, etc.).....	102	88	190
Admitted during the two years.....	249	170	419
Readmitted during the two years.....	34	15	49
Total.....	1,018	876	1,894
Discharged and dropped.....	121	58	179
Died.....	73	68	141
Absent for the time (summer vacation, etc.).....	104	76	180
Present August 1, 1914.....	729	674	1,394
Total.....	1,018	876	1,894
Total attendance: 1912-1913, 1,616; 1913-1914, 1,701.			
Average attendance: 1912-1913, 1,114; 1913-1914, 1,472.9.			

#### APPLICATIONS.

APPLICATIONS HAVE BEEN RECEIVED AS FOLLOWS.

	Males.	Females.	Total.
1912-1913.....	161	112	273
1913-1914.....	154	137	291
Total.....	315	249	564
Applications previous.....	2,102	1,679	3,781
Total to July 31, 1914.....	2,417	1,928	4,345

#### ADMISSIONS.

ADMISSIONS HAVE BEEN AS FOLLOWS:

	Males.	Females.	Total.
To August 1, 1912.....	1,832	1,420	3,252
During the biennial period, as above.....	283	183	466
Total.....	2,115	1,603	3,720
Readmissions deducted.....	166	96	262
Total, different individuals.....	1,949	1,509	3,458

THERE HAVE BEEN FIFTY ADMITTED FROM OTHER STATE INSTITUTIONS, AS FOLLOWS:

	Males.	Females.	Total.
State public school, Owatonna.....	25	14	39
State training school, Red Wing.....	1	.....	1
State school for blind.....	1	1	2
Home school for girls, Sauk Center.....	.....	2	2
State reformatory, St. Cloud.....	4	.....	4
State prison, Stillwater.....	1	.....	1
Rochester state hospital.....	1	.....	1
Total.....	33	17	50

There have been two males and one female committed under the juvenile court law.

Of the admissions, two males and one female, were to the department for incurables.

## DISMISSALS.

THE FOLLOWING IS A MEMORANDUM OF DISMISSALS, AUGUST 1, 1912, TO JULY 31, 1914.

	Males.	Females.	Total.
cared for by parents or relatives.....	98	53	151
supporting themselves .....	5	.....	5
removed from the state.....	7	3	10
transferred to hospitals for insane.....	2	2	4
transferred to state school, Owatonna.....	2	.....	2
escaped, whereabouts unknown.....	6	.....	6
escaped, and returned to state prison.....	1	.....	1
Total .....	121	58	179

## DISTRIBUTION OF POPULATION.

ON AUGUST 1, 1914, THE POPULATION OF THE INSTITUTION WAS DISTRIBUTED AS FOLLOWS:

	Males.	Females.	Total.
Department for feeble-minded:			
School .....	264	273	537
Custodia .....	383	354	737
Farm colony .....	69	.....	69
Department for epileptics.....	107	121	228
Department for incurables.....	1	2	3
Total .....	824	750	1,574

## GROWTH AND DEVELOPMENT.

It will be noted from the foregoing that there were 564 applications for admission received during the two years covered by this report, or an average of 23.5 per month, as against 16.33 per month for the previous biennial period.

The present nominal capacity of the institution is 1,550. The completion of the colony building at Grandview will increase the capacity to 1,600. By the time this is occupied, there will be an excess of applications for females as compared with males, which will be only partially offset by replacing the older boys in the south wing of the center building by girls. It will be noted that during the biennial period the new applications outnumber the admissions by 145. While this difference does not represent the net addition to the waiting list, owing to deaths of applicants, and other dispositions of cases, there is a steady increase in the number on the waiting list. This will be greater during the next period and thereafter until additional accommodations are provided, than during the last two years during which there has still been room in Hillcrest and Riverview cottages.

There can be no avoiding the issue of increased demand for expansion, and it is equally obvious that the expansion cannot continue very much longer in this location. Under the colony plan of organization, a population of 1,500 can be handled about as well as one of 1,500 because of the classification into groups, provided the buildings and groups are properly planned from the first. In this institution, however, it will in my judgment, be inadvisable to extend the growth much more, owing primarily to the fact that the first building of the center group was so located on a bluff that a normal axial arrangement of buildings has never been possible, and available room for buildings for females has nearly all been utilized. It is not practicable to colonize the girls as is done with the boys. It would be diffi-

cult to arrange for more than two or three groups at most of 75 each, which with the proposed new administration and assembly, industrial training and employes' buildings, would tax the new heating plant to its limit as well as occupy all available building space about the center group.

By these, all the capacity for inmates would be increased approximately 300, mostly for females. To balance up the population by sexes, an additional 100 boys might be provided for at one of the colonies, say at Grandview or Walcott. In my judgment this indicates the very extreme limit of expansion for this institution.

In any event the administration building and larger assembly hall, the buildings for employes and the industrial training building, constitute the most urgent needs in the way of development, and they will be referred to later.

#### HEALTH AND MORTALITY.

##### Epidemics.

A rather unusually extensive epidemic of mumps developed in October, 1913, the source of which was undoubtedly a pupil admitted two weeks previous.

The outbreak was confined almost entirely to the school department groups, but involved 257 cases—119 boys and 138 girls.

Last February, investigation following the development of a case of typhoid fever in the custodial department for boys—several other cases following soon after—led to the conclusion that the institution was harboring one or more carriers. A systematic and complete survey of the blood reactions to the Widal test was carried out beginning with the people who handled milk and other foods.

The results are shown in Table 1. It will be noticed that there were twenty-six cases showing positive reactions and of these eight showed clinical symptoms, and six of the remaining positive cases were found to be expelling typhoid bacilli in the excretions. This discovery decided the policy of prophylactic treatment which was started April 30, and was completed—except for a few scattered cases—on the 25th of June. A total of 1,560 individuals were immunized involving the administration of 4,680 hypodermic injections as three injections were given with ten day intervals.

The Widal reactions made after the immunization are shown in Tables 2 and 3.

Only one of the clinical cases proved fatal—the first one—and the disease appears to have been completely stamped out.

I wish to commend very heartily the energetic and persistent work of Drs. Trowbridge and Finkle of the medical staff, and the earnest co-operation of the division of preventable disease of the state board of health. Dr. Burns personally examined the situation making two visits for the purpose. Mr. Whittaker of the department of sanitation also made a personal visit, and their counsel, as well as that of Dr. Chesley, head of the former department, was very valuable. The amount of laboratory work done by the division was large and very promptly attended to and reported.

The mortality, Table 4, has been lower than during the previous biennial period; 141 as against 175, in an average population of 1,443.5 as against one 1,286.8.

## TRAINING DEPARTMENT.

The schools continue to maintain their efficient organization and are being to an increasing extent objective points to visiting teachers and others who are interested in the training of mental defectives.

Exhibits of school work have been made at the Minnesota state fair, Cloquet women's clubs; Minneapolis women's clubs, and by the state art society at St. Paul, Minneapolis, Owatonna, Austin and Mankato. Also at National Educational Association, St. Paul. A working exhibit has been made for two years at the Rice county fair. A permanent exhibit has been placed in the department of sociology at the state university.

## SUMMER SCHOOL.

Pursuant to the provisions of chapter 261 of the laws of 1913, conferring authority upon your board, a training school for students of mental deficiency was started in 1913, and repeated in 1914. It covered a period of weeks in June and July. It is our purpose to develop this school where the demand for such opportunities shall appear. A prospectus is attached hereto.

## RESEARCH DEPARTMENT.

I am pleased to report excellent progress in both divisions of this department.

Dr. Kuhlmann, the director, has made the routine examinations of cases admitted as well as of those brought for advice and consultation with the superintendent and staff. Extensive examinations of children in the public schools for the purpose primarily of improving the normal standards for perfecting the system of examinations have been made by him, and he has conducted a continuous study of the laboratory reactions of mentally deficient children—particularly these of the border line group of high grade persons. For report of scientific work in this division, see paper on "Mental Examinations," by Fred Kuhlmann, Ph. D., read before the quarterly conference of Board of Control and superintendents, August 1, 1914, and published in the Quarterly.

In the division devoted to studies in causation and involving the special labor of collecting data as to the social and hereditary conditions characterizing the families from which mentally deficient children come, the field worker, Miss Devitt, and her assistant, Miss Curial, have worked continuously and with clinical assistance have up to August 1, 1914, written and charted the data for 377 families, representing 477 inmates in the institution.

Our investigations indicate that a great majority of the cases of mental deficiency that become wards of the state are of hereditary origin (probably per cent to 70 per cent) and in the families studied we have data concerning a total of 1,740 feeble-minded persons or 3.6 times as many as represent them in the institution.

The following table shows the total number of the indicated conditions found so far as the studies have progressed:

Total number of families studied.....	36
Number in the institution from same.....	5
Total individuals charted.....	127
1. Normal .....	1
2. Feeble-minded .....	32
3. Epileptic .....	5
4. Insane .....	11
5. Sex offenders .....	21
6. Criminalistic .....	7
7. Alcoholic .....	18
8. Tubercular .....	2
9. Paralytic .....	5
10. Affected with neurosis, etc.....	1
11. Still births or deaths in infancy.....	27
12. No histories obtained .....	16

\*In some cases, more than one of the conditions applies to a person.

The first important conclusion reached from these investigations is the fact that there are distinct strains of mental defect from which a large percentage of the cases come that require public care and support not only in institutions for feeble-minded, but as paupers in the general community, and delinquents and criminals before our courts. For instance in the family in which there was data found concerning 187 individuals, there were 21 feeble-minded, 3 epileptic, 2 insane and 11 notorious sex offenders. In one study of 123 individuals, 22 were feeble-minded, 2 epileptics, 6 gross sex offenders, and 7 alcoholics. In another, out of 112, there were 21 feeble-minded, 5 insane, 2 criminals, 18 sex-offenders, 2 tramps and 14 alcoholics. In another, of 185, 32 were feeble-minded, 5 insane, 1 epileptic, 7 sex offenders and 5 alcoholic; and still another, of 182, 34 were feeble-minded, 1 insane, 32 sex offenders, and 16 alcoholics.

As the investigation proceeds, there is found to be relationship between some families, supposed at first to be entirely separate.

The immediate statistical value of some of the conditions found, such as criminality, alcoholism, deaths before or soon after birth, etc. would be much enhanced if statistics were available on these points with reference to the general community, though the numbers obtained are obviously larger than in the latter.

This work should, in my mind, be continued until we have complete data concerning all of the families that are the principal contributors of mental deficiency in the state.

There seems to be an opportunity for co-operation between this work, the state census work, and the examination of children in the public schools, that a complete survey of the actual number of mental deficient in the state might be obtained.

There should also be an extension of the research work along the line of pathological studies of brain tissue. There has been a surprisingly small amount of work done anywhere. No full and satisfactory investigation has been made as to the anatomical basis of the various degrees of mental deficiency. Now that so much is being done to determine the correlation of the social and laboratory reactions of our pupils, the anatomical deficiencies, and their relation to stages of arrest in development, and possible influences acting to cause arrests at these various stages, should receive scientific attention. We have the material and the clinical histories.

I wish to acknowledge for the state of Minnesota the kindly financial assistance of the Eugenics Record office of New York, through Dr. C. B.

report, for the salary of one field worker until our field investigations are well established.

#### BUILDINGS AND IMPROVEMENTS.

##### Disposal of Improvements Previously Reported.

During the biennial period, the larger improvements previously reported in progress, viz: (1) fireproofing and plumbing the south tower (main building) and (2) the relocation, reconstruction and enlargement of the dairy barns, have been completed. Both improvements are entirely satisfactory and the new construction is of a permanent type that will permit being kept in good repair at a minimum cost. The dairy barns now provide accommodations for one hundred twenty milk cows and enable us to handle the milk supply under clean and sanitary conditions.

On January 26, 1913, the hay barn and one section of the old dairy barn at Springdale burned, thus destroying the building we had expected to use in connection with the central horse barn south of Sunnyside. The insurance funds, otherwise available to supply this deficiency, I am advised by your board, cannot be used for reconstruction upon a different location without legislative sanction.

The rewiring of the old buildings is in progress and has been completed at the Sunnyside, Skinner hall and epileptic colony (males) groups. The work has been well done both as to material and workmanship and will be completed within the appropriations.

The roads and most of the sidewalks have been relocated according to the plans of Morell and Nichols and their planting scheme carried out so far as the main campus is concerned.

Something has been done on the plan at the colony for epileptics (males) but it is not completed.

##### New Work Begun and Not Completed.

Work on the sewerage system has been carried to the point of completing the tunnel to a point near Skinner Hall, including the brick invert for surface drainage and the sewer tile installation throughout the entire length. The septic tank is under process of construction and our present appropriations will permit of its completion, and the connecting thereto of the plumbing systems of all the buildings around the campus, except the Skinner Hall group to which the tunnel is not yet extended.

The state board of health consider that the installation of a chlorination plant in connection with the sewerage disposal is essential to complete disinfection of the discharge which will run into Straight river above the city of Faribault. No provision has been made for this, as the requirement was specified after the legislature provided for the other work.

The dormitory building at Grandview is in process of construction. The water supply has involved more expense for pumping than had been anticipated on account of the depth (210 feet) of the well. Hence there will be no funds for sewerage disposal of any kind. Otherwise the building will probably be ready for occupancy early in the winter.

##### Improvements Completed.

1. Fireproofing, enlarging and machinery for laundry. We now have a well-housed, well-lighted and well-equipped laundry. Except that a little



more room for sorting and mending is desirable, the entire arrangement very satisfactory.

2. The piping extensions and subway, engine room to new building has been completed.

3. An examination of the basement floors in the north section of south wing of the main building, prior to replacing those worn out, disclosed a serious condition from rotten joists and floor linings that made advisable to replace the whole section with concrete slab and tile. This had to be done from repair fund. While the results are very satisfactory both as to permanence and the improved sanitary condition resulting, the draft on the fund was excessive and it would seem wise to anticipate the necessary cement and tile reconstruction of all the balance of the basement wooden floors, which has already become urgent, by special appropriation.

4. The garbage incinerator requirements have been met by the installation of a gas incinerator in the hospital, and the construction of a brick furnace on the hill side south of the main buildings.

#### Improvements Delayed.

1. Car scales, because of additional requirements by state railroad and warehouse commission.

2. There has been nothing done to complete the horse barns, because of the non-availability of the old dairy barn insurance, already referred to.

#### Improvements and Additions Desired.

The following is the data concerning the improvements desired:

I. Administration building and assembly hall...\$160,000.00.

This is required as explained in my last report.

First—To bring into closer relations the offices of the superintendent, steward, assistant physicians and matrons, which are now scattered and militating against co-ordination of work and economy of time.

Second—Because the room at present used for the superintendent's office and the clerical force is required for the visiting public, particularly parents and friends visiting their children.

Third—To provide additional living quarters to be used for the office and clerical force. While the institution has been growing, no provision has been made for necessary additions to the office and clerical force. (This has no reference to the situation relative to attendants and nurses, and general help, for whom especial buildings are desired.)

Fourth—To provide sufficient room to congregate the children of the entire institution, including the colonies, for public entertainments, amusements, etc. The present assembly hall has long since been outgrown, is not fireproof. It should be used only for purposes that will require but a small number of children at a time, and is all needed for the training of children in other ways. We can now seat about five hundred and the present demand is for over seven hundred for the regular entertainment of a general nature, and the requirement increasing.

2. Industrial building for low grades.....\$40,000.00.

The purpose of this is to provide a training place during the long winter months for imbecile children (middle grade feeble-minded) who, as a

ult of such training, can become good workers under trained attendants any simple manual labor, like digging, shoveling, running wheelbarrows, weeding, picking up potatoes, etc., and who, without training, degenerate and become absolutely dependent and helpless. The present need is for training of boys of this class and the lack of a place for it is, in my judgment, our weakest point in training at the present time.

More room is also needed in the present training rooms, and this will be remedied by transferring some of the industries to the new building. The architect advises that the location of the proposed "Assembly Hall" at the front of the present main building as a portion of the new building of which the "Administrative Building" will be a part, and erected first. This will enable an industrial building to be constructed of much smaller size than first planned.

3. Dormitory for women help.....\$50,000.00.

The purpose would be to house employes not necessarily located otherwise in quarters of their own, away from the scenes of their daily work, thus affording desirable social opportunities, and vacating scattered rooms in the present buildings that could be used for inmates.

4. Building for men help.....\$20,000.00.

The interest both of the help and the administration of the work would be improved by furnishing a building that would serve as a dormitory for men and a club room for recreation when off duty. The advantage of this is obvious.

5. Addition to and reconstruction of and fireproofing portions of hospital.....\$36,000.00.

The bath and toilet rooms and operating room, at least, should be reconstructed with iron, concrete and tile floors and a portion of the plumbing replaced.

There should be an addition to the hospital capacity as a provision for contagious diseases. This is the same proposition presented two years ago.

6. Boys' cottage, Peaceful Valley.....\$10,000.00.

A dormitory building with a capacity for twenty-five (25) boys should replace the temporary shed occupied by the milkers since the new barns were opened.

7. Dairyman's house .....\$4,000.00.

To enable dairyman to live at the location of the new dairy (Peaceful Valley) instead of Springdale.

8. Building enclosure to children's grounds at Sunnyside.

This is to complete the court between Sunnyside and Sunnyside annexes in a way to permit the children to live out of doors during the nice weather and yet screen them from public view. The architect has in mind a pergola construction on both the west and east of the court, for which estimates are to be presented later.

9. Grounds and fencing.....\$3,500.00.

There should be a continuation of the improvements on the grounds in the way of fencing, sidewalks, roads, grading and ornamentation.

10. Fireproofing and plumbing and building new concrete floor in north wing basement.....\$13,000.00.

(Already referred to.)

11. Three fire escapes.....\$4,800.00.

Two of these are desired for center building to make the egress of mates safe and simple in case of fire, and one at center of Skinner Hall provide for escapes of employes on upper floor in such an emergency.

12. Flooring tuberculosis hospital and porches...\$3,000.00.

These floors were not durable and are all out of repair and unsanitary. The one inside should be laid in tile and that of the porches should be laid in cement.

13. Flooring girls' epileptic cottage No. 1--basement.....

.....\$2,000.00.

14. Flooring girls' epileptic cottage No. 2--basement.....

.....\$2,000.00.

Both of the above are of old broken cement and should be relaid in tile they are dusty and uneven, unsuited for dining rooms, which occupy most of the space.

15. Water tank and tower.....\$15,000.00.

To enable pumps to work at full capacity but only a small portion of the time each day—to promote efficiency of service. Capacity 150,000 gallons, height of tower, 125 feet, as recommended by consulting engineers.

16. Additional shop room for blacksmith.....\$2,000.00.

In readjusting the mechanical repairs' department, to suit the new boiler house situation, the present blacksmith shop should be given to the painters and a new room provided for the former—over the engineer's shop.

17. Water softener.....\$4,500.00.

It seems advisable to limit the present hot water softener tank to the function of heating feed water for the boilers and install a cold water softener system which would insure a more uniform action and better grade of soft water, especially for laundry purposes. The present system is unsatisfactory.

18. Economizer.....\$10,000.00.

Recommended by consulting engineers to utilize the surplus and wasted heat that is carried off in the chimneys. Same estimate as made last year, but present cost greater.

19. Duplicate header over boilers, etc.....\$1,000.00.

Only one line of headers was provided for the new boiler plant, owing to lack of funds, though valves and openings were provided. A duplicate is required to permit of valve and pipe repairs on either one without interfering with the steam service. There are some changes advisable in the vacuum system. The above amount would take care of all.

20. Change in insurance fund.....

We have now \$3,000 from insurance on cow barns burned that is needed to complete our horse barn, but requires legislation sanction to use it for this purpose.

21. Additional provision for sewerage disposal...\$24,000.00

As already stated the tunnel recently constructed will have to be extended to take care of the Skinner Hall group of buildings.

A chlorinator plant is deemed by the State Board of Health to be essential for installation with the septic tank now being constructed. Permanent provision should be made for sewage disposal at Grandview and Walcott. The consulting engineers estimate these items as follows:

Hypochloride plant .....	\$15,000.00.
Grandview sewerage .....	5,000.00.
Walcott sewerage .....	4,500.00.
22. Road to Grandview—bridge and viaduct.....	

My last report referred to the dangerous crossing over the Rock Island road track. This crossing should be bridged. By extending a road which can easily build, from the Peaceful Valley dairy and across Straight to what is known as the "Owatonna road," a "short line" could be had communication with Grandview and Walcott colonies. This would reduce the distance about two miles. A bridge constructed over the Rock Island tracks and a viaduct under the C. M. & St. P. track would free such road from all grade crossings. The engineers of both roads have taken the propositions and will present estimates of cost and if their co-operation can be secured in construction, this improvement, if realized, would be an important achievement.

23. Car scales .....	\$600.00.
(Additional required.)	
24. Repairs, general (annual).....	\$10,000.00.
25. Support fund:	
1915-6, estimated population 1,550.....	\$248,000.00.
1916-7, estimated population 1,600.....	256,000.00.

#### CHANGES IN PERSONNEL.

Drs. Moulton, Strobel and Patterson all resigned during the period, one to go into the service of Park Davis & Co., one for private practice, and the last for place on staff of an eastern hospital nearer her old home. Miss Bullard resigned as matron of center to accept a place at the state school at Owatonna, and her successor gave up the place to do special police service in Minneapolis. Miss Cherry resigned as matron of the Skinner Hall group to look after business interests.

As the staff of teachers is employed annually there naturally are a number of changes each year. It is a pleasure however to express my highest appreciation of the services of the staff as a whole, and almost without exception the teachers have done splendid work during the entire period. I cannot forbear however giving testimony to the devoted work of Miss Agnes Dillingham who for fourteen years has given her best endeavor to the training of the feeble-minded, and during the last three years has developed and sustained a system of training for the custodial departments that has been a tribute to her intelligent patience and her real missionary spirit. She leaves this year to take charge of the training work in a private school at an increased salary, which she so richly deserves.

#### ACKNOWLEDGMENTS.

A list of contributions to the amusement fund together with a list of the expenses for entertainment features which we have been able to provide the pupils and patients because of this fund, will be found at the close of this report.

I take pleasure in acknowledging the kindly interest of Rev. B. J.

Rothnem and Rev. Father J. J. Slevin and assistants, in the spiritual welfare of the pupils and patients committed to our care, communicants of the respective churches.

I also wish to express appreciation of the generosity of D. G. Tripp for the moving picture entertainment—The Battle of Gettysburg, on Oct. 3, 1913, and of Mr. and Mrs. Mock Said Ali, magicians, for their entertainment on Dec. 3, 1913, as well as to the friends in Faribault who provide extra music from time to time, thus adding to the happiness of the family.

The following papers and publications have been contributed for the use of the family: The Faribault Democrat and the Pilot, Faribault; Bulletins of Iowa Institutions, Des Moines; The Children's Companion, Minneapolis, and "Budbaereun," Red Wing, Minnesota.

CONCLUSION.

There has continued to be cordial public sentiment toward the institution and its work that has been very gratifying and stimulating. I feel very grateful to the loyal, faithful and hard-working officers who have as usual devoted their energies to the interests of the wards, the care of whom we all have the honor to be intrusted with. The relations with the members of your staff have been cordial and helpful. But to you, gentlemen of the Board, I am especially grateful for your uniform courtesy, forbearance and support.

Respectfully submitted,  
A. C. ROGERS,  
Superintendent.

Faribault, Minn., August 29, 1914.

TABLE NO. 1.

WIDALS TAKEN BEFORE IMMUNIZATION.

From inmates	1,520
From employes	107
Total taken	1,627
Positive reaction	26
Negative reaction	1,602
*Atypical reaction	8

TABLE NO. 2.

WIDALS TAKEN FOLLOWING IMMUNIZATION.

Number giving positive reaction	432
Number giving atypical reaction	225
Number giving negative reaction	714
Percentage of positive reactions	31.5%
Percentage of atypical reactions	61.41%
Percentage of negative reactions	51.93%

TABLE NO. 3.

WIDALS TAKEN IN 127 CASES AT TEN-DAY INTERVALS FOLLOWING FIRST, SECOND, AND THIRD INJECTIONS.

	Positive.	Atypical.	Negative.
Reaction of widal taken ten days following first inoculation of typhoid prophylactic	12	9	106
Reaction of widals taken ten days following second inoculation of typhoid prophylactic	67	15	45
Reaction of widals taken ten days following third inoculation of typhoid prophylactic	33	25	69
Percentage obtained following first inoculation	.095	.07	.834
Percentage obtained following second inoculation	.527	.118	.354
Percentage obtained following third inoculation	.251	.196	.543

\*Repeating widal reactions these eight atypical cases resulted in six negative and two positive reactions.

CAUSES OF DEATH.

TABLE NO. 4.

	Males.	Fe- males.	To- tals		Males.	Fe- males.	To- tals.
Ant (killed on road)	2	....	2	Marasmus	1	....	1
Exzla during	1	....	1	Mitral Insufficiency	2	....	2
men	1	....	1	Myocarditis	3	....	3
ritis	2	....	2	Nephritis	2	....	2
cho-pneumonia	1	....	1	Perforation of intes- tine	1	....	1
toma of breast	1	....	1	Peritonitis	3	....	3
toma of stomach	1	....	1	Pneumonia-lobar	5	....	5
nelosis	1	....	1	Pneumonia-hypostatic	....	4	4
ac Hypertrophy	1	....	1	Pneumothorax	1	....	1
ral Hemorrhage	1	....	1	Pyonephrosis	1	....	1
ral Tumor	1	....	1	Sclerosis, Disseminat- ed	....	1	1
ro-Spinal Men- itis	....	1	1	Septicemia	2	....	2
steremia	....	1	1	Shock (following frac- ture of femur)	....	....	....
ritis	1	....	1	Tubercular Enteritis	1	....	1
rocolitis	....	2	2	Tubercular Peritonitis	....	1	1
opsy	6	....	6	Tuberculosis, Pul- monary	15	19	34
ptic Exhaustion	11	....	11	Tuberculosis, Acute	....	....	....
opticus, Status	3	....	3	Miliary	....	3	3
epelas	1	....	1	Typhoid Fever	1	....	1
ro-enteritis	1	....	1	Total	73	68	141
ro-rhage-Spon- ganeous following eptic seizure	1	....	1				
na, Acute, Ex- haustion of	1	....	1				

TABLE NO. 5.

DISEASES TREATED IN THE HOSPITAL DURING THE BIENNIAL PERIOD.

	Males.	Fe- males.	To- tals.		Males.	Fe- males.	To- tals.
me	1	....	1	General debility	13	38	51
ritis	3	....	3	Gonorrhoea	3	....	3
emia	....	2	2	Hemicrania	1	....	1
erior Poliomyelitis	2	....	2	Heros Progenitalis	2	....	2
pendicitis	4	....	4	Hydrocephalus	....	1	1
hma	....	3	3	Hysteria	1	....	1
chitis	34	27	61	Impetigo contagioso	8	1	9
cho-pneumonia	4	....	4	Indigestion	42	18	60
rdiac dillatation	....	1	1	Influenza	1	3	4
ulitis	1	....	1	Intertrigo	1	....	1
rebral Concussion	2	....	2	Intestinal parasite	1	....	1
rebral Congestion	1	....	1	Iritis	1	....	1
rebral Hemorrhage	2	....	2	Jaundice	....	4	4
rebrospinal Meni- ngitis	....	1	1	Keratitis	1	....	1
ickenpox	8	....	8	La Grippe	5	....	5
orea	1	....	1	Laryngitis	2	8	10
olesteremia	....	1	1	Lichen Planus	1	....	1
onstipation	9	12	21	Lung, congestion of	1	....	1
onfinements	....	4	4	Lumbago	1	....	1
onjunctivitis	13	13	26	Lymphatic edema	....	1	1
ryza	3	....	3	Mania, acute	20	4	24
roup	1	....	1	Mastitis	16	26	42
erycocystitis	1	....	1	Mastitis	....	2	2
eracutitus	4	....	4	Measles	7	22	29
ermatitis	10	....	10	Mitral insufficiency	1	....	1
erphtheria	1	....	1	Myocarditis	5	....	5
ett's Crisis	....	1	1	Nephritis	7	....	7
ersemorrhoea	....	1	1	Observation	118	139	257
erema	10	....	10	Otitis media	3	....	3
erocarditis	1	....	1	Pararthritus	1	....	1
erteritis	22	....	22	Paramyo-clonus mul- tiplex	....	2	2
erysipelas	5	....	5	Parotitis	110	138	248
erlepsy-Exhaustion	6	....	6	Pediculosis	....	2	2
erlepsy-Serial	27	....	27	Peritonitis	1	....	1
erlepsy-status	25	....	25	Pertussis	....	1	1
erly degeneration of heart	....	2	2	Pharyngitis	....	1	1
eruvus	2	....	2	Pneblebitis	1	....	1
erunculosis	3	....	3	Pleurisy	3	....	3
erustritis	3	....	3	Pneumothorax	1	....	1
erastro-enteritis	2	....	2	Pneumonia	12	14	26
				Prepatellar bursitis	6	....	6

TABLE NO. 5—Continued.

DISEASES TREATED IN THE HOSPITAL DURING THE BIENNIAL PERIOD					
	Males.	Fe- males.	To- tals.	Males.	Fe- males.
Procidantia .....	1		1		
Progressive muscular atrophy .....	1		1		
Prolapsed rectum .....	5	1	6		
Psychosis .....	1	1	2		
Pyonephrosis .....	2		2		
Pyrrhoea .....	1		1		
Retention of urine .....	1		1		
Rheumatism, articu- lar .....	7	9	16		
Rheumatism, muscu- lar .....	1		1		
Scabies .....	50	43	93		
Shock .....	1		1		
Sininitis .....	1		1		
Stomatitis .....	4	4	8		
Synovitis .....		3	3		
				Syphilis .....	1
				Tabes dorsalis .....	2
				Tonsillitis .....	15
				Trachoma .....	1
				Tumor of brain .....	1
				Tuberculosis, pul- monary .....	28
				Tuberculosis, miliary .....	2
				Tuberculosis, larynx .....	1
				Typhoid carriers .....	5
				Typhoid fever .....	6
				Vaccination (small pox) .....	5
				Vaginitis .....	3
				Widals, positive .....	14
				Totals .....	769
					849

TABLE NO. 6.

SURGICAL CASES IN THE HOSPITAL DURING 1912-1914

	Males.	Fe- males.	To- tals.		Males.	Fe- males.
Abscesses .....	21	4	25	Maxillary .....	4	
Appendicitis .....	1	1	2	Nose .....	1	
Burns .....	8	2	10	Tibia and fibula .....	1	1
Carbuncle .....	4	1	5	Ulna and radius .....	1	
Castration .....	1		1	Frozen feet and fin- gers .....		
Cataract (congenital) .....	1		1	Hemorrhage .....		
Circumcision .....	2		2	Hemorrhoids .....		
Dislocations:				Herniotomy .....		
Shoulder .....	2	3	5	Infection .....	18	3
Clavicle .....	1		1	Ingrowing toe nail .....	1	1
Fractures:				Minor injuries .....	23	11
Clavicle .....	3		3	Needling of iris .....	1	1
Coccyx .....	1		1	Rectal fistulae .....	1	
Colles's .....	2	1	3	Salpingectomy .....		1
Elbow .....	1	1	2	Tonsilectomy .....	1	2
Femur .....	1	1	2	Ulcers .....	9	2
Foot .....	4	1	5			
Humerus .....	3		3	Totals .....	123	37
Ilium .....	1		1			

TABLE NO. 7.

WASSERMAN REACTIONS PERFORMED IN LABORATORY 1913-1914.

	Males.	Females.	Total.
Number of blood specimens taken .....	289	69	358
Number of blood specimens positive .....	3	1	4
Number of blood specimens negative .....	286	68	354
Percentage of positive findings .....	.0103	.0144	.0119
Percentage of negative findings .....	.9896	.9855	.9881

TABLE NO. 8.

TABLE SHOWING RESIDENCE OF INMATES BY COUNTIES, ON ROLL AUGUST 1, 1914.

Counties.	Males.	Fe- males.	To- tals.	Counties.	Males	Fe- males.
Aitkin .....	4	3	7	Chisago .....	4	4
Anoka .....	8	6	14	Clay .....	3	4
Becker .....	8	4	12	Clearwater .....	1	1
Beltrami .....	7	3	10	Cook .....		1
Benton .....	8	8	16	Cottonwood .....	9	1
Big Stone .....	4	2	6	Crow Wing .....	7	6
Blue Earth .....	17	17	34	Dakota .....	13	8
Brown .....	14	6	20	Dodge .....	5	5
Carlton .....	5	4	9	Douglas .....	8	9
Carver .....	6	5	11	Faribault .....	3	6
Cass .....	6	5	11	Fillmore .....	8	4
Chippewa .....	5	2	7	Freeborn .....	7	7

TABLE NO. 8—Continued.

TABLE SHOWING RESIDENCE OF INMATES BY COUNTIES, ON ROLL  
AUGUST 1, 1914.

Counties	Males.	Fe- males.	To- tals.	Counties.	Males.	Fe- males.	To- tals.
Adair	17	11	28	Chic	11	3	14
Ant	2	2	4	Pipestone	1	2	3
Aspin	144	154	298	Polk	11	5	16
Boston	8	9	17	Pope	7	5	12
Boyd	8	15	23	Ramsey	115	106	221
Butte	4	5	9	Red Lake	6	2	8
Carroll	4	10	14	Redwood	6	5	11
Cass	2	1	3	Renville	4	9	13
Chippewa	1	1	2	Rice	16	16	32
Clay	9	7	16	Rock	2	1	3
Clearwater	3	5	8	Roseau	5	3	8
Coconino	1	1	2	St. Louis	28	30	58
Columbia	10	1	11	Scott	12	8	20
Concord	2	1	3	Sherburne	2	4	6
Cook	12	9	21	Sibley	1	1	2
Costa	4	1	5	Stearns	18	21	39
Crow	12	7	19	Steele	6	3	9
Dakota	7	6	13	Stevens	4	7	11
Dawson	1	1	2	Swift	9	3	12
Deer	4	8	12	Todd	12	7	19
Dodge	6	7	13	Traverse	4	2	6
Douglas	7	8	15	Wabasha	7	11	18
Dunn	3	1	4	Wadena	2	4	6
Eaton	6	4	10	Waseca	9	4	13
Emmons	5	8	13	Washington	8	6	14
Fergus	1	3	4	Watsonwan	7	5	12
Golden Valley	3	6	9	Wilkin	2	3	5
Grant	13	5	18	Winona	10	8	18
Griggs	4	3	7	Wright	9	11	20
Haskell	7	13	20	Yellow Medicine	9	9	18
Hemlock	18	18	36				
Hood	2	2	4	Totals	824	750	1,574

TABLE NO. 9.

TABLE SHOWING BIRTHPLACES OF INMATES AND PARENTS, AS SHOWN  
BY ALL APPLICATIONS RECEIVED TO AUGUST 1, 1914.

Country.	In- mates.	Fath- ers.	Moth- ers.	Country.	In- mates.	Fath- ers.	Moth- ers.
United States	3,692	1,369	1,574	India	1	.....	.....
Austria	23	109	109	Italy	3	10	9
Australia	.....	.....	1	Mexico	.....	.....	1
Belgium	3	9	6	Norway	91	454	450
Canada	.....	.....	2	New Brunswick	.....	3	4
Canada	22	213	192	New Zealand	1	1	1
Denmark	1	.....	.....	Poland	3	21	23
Denmark	19	71	55	Russia	15	39	34
England	24	83	66	Roumania	4	10	8
English Provinces	.....	.....	.....	Spain	.....	2	1
French America	48	2	1	Scotland	3	36	27
France	.....	1	1	Sweden	103	410	424
France	5	40	39	Switzerland	4	27	17
France	4	8	5	Wales	4	9	9
Germany	106	619	540	Unknown	232	560	540
Germany	4	13	11				
Germany	17	189	189	Totals	4,345	4,345	4,345
Germany	3	7	6				



TABLE NO. 10.

TABLE SHOWING CHRONOLOGICAL AGE OF INMATES AT TIME OF ADMISSION.

	Biennial Period		All Previous	
	Male.	Female.	Male.	Female.
Under 5 years.....	20	10	76	54
Over 5 and under 10.....	69	24	375	274
Over 10 and under 15.....	72	49	526	401
Over 15 and under 20.....	54	36	389	327
Over 20 and under 25.....	27	24	179	128
Over 25 and under 30.....	14	16	68	71
Over 30 and under 35.....	10	10	71	56
Over 35 and under 40.....	5	3	42	33
Over 40 and under 45.....	9	6	25	21
Over 45 and under 50.....	4	2	22	18
Over 50 and under 55.....	3	1	16	11
Over 55 and under 60.....	1	.....	16	7
Over 60.....	4	4	7	5
Age unknown.....	.....	.....	20	14
Totals.....	283	185	1,832	1,420

TABLE NO. 11.

TABLE SHOWING ALLEGED DATE OF COMMENCEMENT OF DEFICIENCY OF INMATES.

	Biennial Period		All Previous	
	Male.	Female.	Male.	Female.
Congenital.....	147	123	735	627
From birth to 7 years.....	43	19	596	405
From 7 to 14 years.....	10	4	90	69
Fourteen years and later.....	15	9	53	35
No data.....	34	15	237	203
Re-admissions.....	34	15	131	81
Totals.....	283	185	1,832	1,420

TABLE NO. 12.

TABLE SHOWING AGES OF INMATES AT TIME OF DEATH.

	Biennial Period		All Previous	
	Male.	Female.	Male.	Female.
Under 5 years.....	9	4	13	8
Over 5 years and under 10....	3	3	48	41
Over 10 years and under 15....	9	13	85	74
Over 15 years and under 20....	15	15	124	75
Over 20 years and under 25....	10	8	84	52
Over 25 years and under 30....	6	8	45	32
Over 30 years and under 35....	4	6	33	27
Over 35 years and under 40....	4	3	29	15
Over 40 years and under 45....	6	3	17	9
Over 45 years and under 50....	3	1	10	6
Over 50 years and under 55....	1	1	6	7
Over 55 years and under 60....	2	1	6	5
Over 60 years and under 65....	2	2	7	9
Sixty-five years and over.....	2	.....	7	3
Age unknown.....	4	.....	6	2
Totals.....	73	68	518	362

TABLE NO. 13.

EXPENDITURES FROM THE AMUSEMENT FUND

1912.	
July 4.	G. Sommers & Co., torpedoes and canes for children's Fourth.
Sept. 30.	Expenses for boys at State Fair.....
Oct. 29.	Laemmele Film Co., rental of films.....
Nov. 13.	Laemmele Film Co., rental of films.....
Nov. 23.	General Film Co., rental of films.....
Dec. 3.	Base and foot balls.....
Dec. 12.	General Film Co., rental of films.....
Dec. 25.	General Film Co., rental of films.....
1913.	
Sept. 8.	A. L. French, entertainment of pupils.....
Mar. 4.	General Film Co., rental of films.....
April 4.	Geo. H. Mee, one Victrola.....

Miss Florence Lillie, lectures on butterflies and birds.....	19.00
W. H. Dyer & Bros., discs of Symphonion.....	12.65
Geo. H. Mee, records for Victrola.....	10.35
Tickets for children to St. Patrick's play.....	14.58
Base ball supplies.....	21.18
Rental of boats for picnic.....	7.00
G. Sommers & Co., Fourth of July goods.....	13.60
General Film Co., rental of films.....	4.00
James Duffany, rental of launch and boats.....	6.00
George P. Reed, expenses for children at county fair.....	35.10
Boys' expenses at State Fair.....	43.97
Bus for children's picnic.....	6.00
D. G. Tripp, moving picture show.....	10.00
General Film Co., rental of films.....	6.00
Mrs. C. W. Newhall, entertainment of pupils.....	13.00
W. W. Day, sleigh rides.....	6.00
Wyman, Partridge Co., Christmas goods.....	28.65
G. Sommers & Co., Christmas goods.....	11.25
General Film Co., rental of films.....	6.00
McDonald Bros., Christmas goods.....	37.27
Theopold-Reid Co., nuts for children's Christmas.....	37.20
Minneapolis Phonograph Co., phonograph and records (Edison)	304.50
Wonder Store, candy.....	14.25
L. R. Van Orum, treat for senior singers.....	4.00
General Film Co., rental of films.....	6.00
G. W. Kern, opera, "Pirates of Penzance".....	15.00
Clinton Falls Nursery, Easter lilies.....	5.70
M. J. Glaser, moving picture show.....	6.00
Base ball supplies.....	33.32
James Duffany, rental of boats and grounds for picnic.....	4.25
M. L. Gethapel, lecture on Corea.....	15.00
G. Sommers & Co., torpedoes and canes for Fourth.....	6.50

## INDEX TO TABLES.

- Table No. 1. Widals taken before immunization.
- Table No. 2. Widals taken following immunization.
- Table No. 3. Widals taken in 127 cases at ten day intervals following 1st, 2nd and 3rd injections.
- Table No. 4. Causes of death.
- Table No. 5. Diseases treated in the hospital during the biennial period.
- Table No. 6. Surgical cases in the hospital during 1912-1914.
- Table No. 7. Wasserman reactions performed in laboratory, 1913-1914.
- Table No. 8. Showing residence of inmates by counties.
- Table No. 9. Showing birthplaces of inmates and parents.
- Table No. 10. Showing chronological age of inmates at time of admission.
- Table No. 11. Showing alleged date of commencement of deficiency of inmates.
- Table No. 12. Showing age of inmates at time of death.
- Table No. 13. Expenditures from the amusement fund.