

One of the most unfortunate conditions we meet so often is the continual number of babies just arrived or soon expected in the homes of this unfortunate class of patients. One family, where both parents have been patients in one of our state hospitals for insane, think it "a duty to God" to have many children, and when I visited this family a short time ago the father had become insane again and was in a general hospital waiting to be committed to the state institution, and his wife almost as bad as he. Another mother of four children, who has had three more since she came from one of our state hospitals, has lately had to be returned leaving this family of small children. It is useless to go into more details, but this is certainly a matter for the study of the eugenic society.

We find more people willing to help us in many ways than in the past. One kind woman in St. Cloud has been of great service. She not only has secured plenty of work for one of our ladies, but makes nice friendly visits, taking with her a fresh loaf of bread or some dainty from her own kitchen with a generous supply of good cheer.

I do not want to close my report without speaking of the courtesy and help we have received from some of the officers at the court house in Minneapolis, especially Court Commissioner Bates and Mr. Hamilton, one of the deputy sheriffs, who keep us carefully posted regarding our people in the city, besides many other favors received from them during the time we have been in this work.

I also wish to thank our superintendents and others who have kindly been of much assistance and to you gentlemen, whose kindness and cheerful encouragement have meant so much to us.

Respectfully submitted,

MIRA B. GRAY, State Agent.

# Minnesota School for Feeble-Minded and Colony for Epileptics

## REPORT OF THE SUPERINTENDENT.

Biennial Period Ending July 31, 1912,

### OFFICERS, AUGUST 1, 1912.

Superintendent.....	A. C. ROGERS, B. S., M. D., LL. D.
Secretary and Stenographer.....	MISS BERTHA JENSEN
First Assistant Physician.....	ARTHUR B. MOULTON, B. A., M. D.
Assistant Physician.....	ALICE M. PATTERSON, M. D.
Assistant Physician.....	W. G. STROBEL, B. S., M. D.
Consulting Oculist and Aurist.....	DOUGLAS F. WOOD, M. D.
Principal of Schools.....	MISS MARGARET McLEAN
Psychologist and Director of Research.....	FRED KUHLMANN, PH. D.
Field Worker.....	MISS SADEE C. DEVITT
General Matron.....	MISS MARGARET WOOD
Dietitian.....	MISS IDA DANIELS
Matron, School and Training Department.....	MISS METTA D. BULLARD
Matron, Girls' Custodian and Women's Division of Epileptic Colony—	MISS MARGARET CHERRY
Matron, Boys' Custodian.....	MRS. MARGARET HILLSLEY
Matron, Men's Division of Epileptic Colony and Springdale Cottage—	MRS. S. A. ARCHIBALD
Superintendent of Nurses.....	MISS ALICE M. CHAMBERS
Steward.....	W. A. RICHARDS
Chief Engineer.....	H. L. WHERLAND
Superintendent of Building Construction.....	M. GORDON CRAIG
Architect.....	CLARENCE H. JOHNSTON
Consulting Engineer.....	CHAS. L. PILLSBURY CO.

State Board of Control, St. Paul, Minn.

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

## POPULATION.

Movement July 31, 1910, to August 1, 1912.

	Males.	Females.	Total.
Present August 1, 1910.....	576	512	1,088
Absent for the time (summer vacation, etc.).....	89	83	172
Admitted during the two years.....	221	221	448
Readmitted during the two years.....	19	15	34
Total.....	908	834	1,742
Discharged and dropped.....	76	65	141
Died.....	97	78	175
Absent for the time (summer vacation, etc.).....	102	88	190
Present July 31, 1912.....	633	603	1,236
Total.....	908	834	1,742
The total attendance was: 1910-1911, 1,489; 1911-1912, 1,538.			
The average attendance was: 1910-1911, 1,231.8; 1911-1912, 1,321.9.			

## APPLICATIONS.

Applications Have Been Received as Follows:

	Males.	Females.	Total.
1910-1911.....	103	73	176
1911-1912.....	105	111	216
Total.....	208	184	392
Applications previous.....	1,894	1,495	3,389
Total to July 31, 1912.....	2,102	1,679	3,781

## ADMISSIONS.

Admissions Have Been as Follows:

	Males.	Females.	Total.
To August 1, 1910.....	1,589	1,181	2,770
During the biennial period, as above.....	243	239	482
Total.....	1,832	1,420	3,252
Readmissions deducted.....	132	81	213
Total, different individuals.....	1,700	1,339	3,039

## DISMISSALS.

The Following is a Memorandum of Dismissals, August 1, 1910, to July 31, 1912.

	Males.	Females.	Total.
Cared for by parents or relatives.....	59	19	108
Supporting themselves.....	5	2	7
Removed from the state.....	2	5	7
Transferred to hospitals for insane.....	1	7	8
Transferred to the school for the deaf.....	1	2	3
Discharged as normal and returned to home.....	1	1	2
Escaped, whereabouts unknown.....	6	1	7
Escaped and returned to reformatory.....	2	1	3
Total.....	76	65	141

## HEALTH AND MORTALITY.

## EPIDEMICS.

During January, 1911, there was a mild outbreak of scarlet fever, confined to the Girls' Custodial Building, and limited to twenty cases, none of which were fatal. The outbreak resulted from a case developing in an attendant.

In April and May, 1911, we were visited by a severe outbreak of measles. This was the result of two cases contracted away from the institution and it

was confined largely to the female group. The infection was severe, and 109 girls and 42 boys were affected. The fatalities numbered 8, of which 7 cases were girls, and 1 a boy.

During the period an interesting study has been made of the virulency of diphtheritic bacilli, which it is now well known, exist with more or less constancy in many human throats, especially where the individuals are congregated in schools, institutions, etc. The result of these studies is shown in table No. 8.

The well known advantage of outdoor and sunshine is illustrated in the dropping percentage of cases involved from 16.72 in winter to 6.1 in summer.

The mortality (see table No. 5) has been slightly higher than for the previous period. We are frequently receiving cases that are moribund when admitted and charity demands their retention and care, even though the outcome makes an unfavorable showing.

#### DISTRIBUTION OF POPULATION.

On August 1, 1912, the population of the institution was distributed as follows:

	Males.	Females.	Totals.
Department for Feeble-Minded:			
School .....	251	238	489
Custodia .....	320	356	676
Farm colony .....	54	...	54
Department for Epileptics.....	109	96	205
Department for Incurables.....	1	1	2
Total .....	735	691	1,426

#### RESEARCH WORK.

During the period, three lines of investigations have been carried on. **First**, a survey of inmates, directed by Dr. Fred Kuhlmann, Director of Research. The result of this survey and the director's observation upon same will be found upon page 227. The regular application of the Binet-Simon test as a routine matter after two years use, has demonstrated the unquestionable practical value as a ready means of determining very closely the mental capacity of the child; hence, its value for classifying and thus determining the most suitable training available for each child. The laboratory has been supplied with a Zimmermann Contact Clock, a Deprez Signal, an Ewald Chronoscope, a stop watch, a Metronome with electrical contacts, and complete flashlight photo apparatus.

**Second**.—Bacteriological investigations concerning the presence and virulency of diphtheria bacilli already referred to. This laboratory has been supplied with an electric centrifuge and hot-air sterilizer.

**Third**.—The collection of, and systematic study of data concerning the pedigrees of mental defectives. This latter work has been carried on under the appropriation for clinical and scientific work for hospitals for insane, school for feeble-minded and penal institutions, which your board secured from the last legislature. The direct supervision of this work having been assigned by your board to a committee of three institution executives, the latter, after considering the situation carefully, decided to recommend that

the field work start from this institution. Miss Saidee Devitt, a trained field worker was secured through the Eugenics office at Cold Spring Harbor, N. Y. Reports have been made to the committee and to you from time to time of the progress of this investigation, and it only remains to present the following summary.

From October 1, 1911, to August 15, 1912, there have been more or less complete studies made of 65 families, representing 99 inmates in this institution. In these, there have been found, among the 4,755 individuals involved, 284 feeble-minded, or an average of 4.37 to each family; 50 epileptics, 61 insane, 220 alcoholics, 83 migrainous, 3 choreics, 9 paralytics or apoplectics and 11 syphilitics; 300 died in infancy, 134 died while young; then there were histories given of 85 miscarriages and 7 still births. One hundred and five were sex offenders, 22 showed marked criminalistic tendencies. There were 215 tubercular cases, 11 blind, 11 deaf, 3 tramps and 4 suicides. There were only 852, or 17.8 per cent known to be normal, though there are 2,275 individuals whose status is yet to be investigated.

Arrangements have been completed for the employment of an additional field worker and a clinical assistant.

#### STATE AGENTS' WORK.

The work of the State Agents has been very helpful in following up and reporting the conditions governing the inmates that for various reasons have gone out from this institution, as well as in looking into conditions of applicants, when by reason of inability to admit all, for lack of room, the most urgent only could be received.

#### MATERIAL IMPROVEMENTS DURING PERIOD.

The following extensions and material improvements for which the last legislature made provision and for which the appropriations have become available, have been completed, viz.: (1) new boiler house, (2) additional boiler and automatic stoker, (3) coal and ash handling equipment, (4) subway to Sunnyside and Skinner Hall, (5) low pressure steam mains through subway, (6) employes dining room, (7) new well with supply pump, Underwriters fire pressure pump, extension of fire mains to each of the large buildings and installation of six new fire hydrants; (8) new engine and electrical generator, (9) auxiliary draft fan and engine and (10) new hot water service.

The following are in process of construction and will be completed this season, viz.: (1) fireproofing and plumbing south tower, (2) dairy barns, (3) rewiring of old buildings (in part), (4) walks and driveways relocated on permanent plan (in part) and play ground apparatus; and (5) a dormitory building for Grandview Colony.

The appropriation for a new sewer system has not been expended except a small amount used in drilling test holes and for engineers' services in preparing preliminary tentative enlarged plans for river discharge, the present system, and plan for septic tank treatment. In view of the improved method in septic tank construction and operation it seems advisable to hold the matter in abeyance until the coming legislature has had an oppor-

tunity to appropriate an additional sum for a plant of this kind and thus eliminate river disposal entirely.

The \$2,000 appropriated four years ago for addition to hospital was found inadequate for the purpose and has been allowed to revert to the treasury. (Reference to the needs of this department is made later.)

The fireproofing of the third story of the main building could not be done satisfactorily by reason of the elimination of the appropriation for employes' building from the bill as passed, and the fact that we cannot vacate the rooms directly underneath while the old work is being torn out and replaced. It is very desirable that this should be done. The request for the building for help will be renewed.

The last addition provided for by the appropriation for "Building for Inmates" by the session of 1909, has been completed at the Walcott Colony and accommodates fifteen (15) farm boys very comfortably. It was built as an addition to the old residence purchased with the farm, and steam heat and plumbing are now supplied to the latter building also.

#### WATER SUPPLY.

The matter of insufficient fire protection and the cost of water supply which had become increasingly embarrassing as the extension of buildings and of inmate population increased have been markedly improved by the completion of an independent well, the installation of an Underwriter pump of 750 gallons capacity per minute; the installation of six additional hydrants, the addition of a new well on the institution grounds and the substantial reduction in rate paid for Faribault city water service for domestic purposes. The new well has a flowing capacity at the ground of 315 gallons per minute, and will be used in the institution in part for domestic purposes and entirely for washing boiler, flushing sewers, and miscellaneous general purposes.

In case of fire the institution will have the advantage of drawing upon both sources as may be necessary, will be in position to produce instantly whatever pressure may be necessary for fire fighting purposes, and will have as noted elsewhere, six additional hydrants. Additional stand pipes and fire protection lines have been extended through the subways, which will now give a fire service to all of the buildings of the Central group including center, hospital, custodial and epileptic group for females. Additional hose and ladder are also being provided on present appropriation.

Until such time as provision shall be made for fireproofing of all of our combustible buildings, I believe there should be a sprinkling system installed in all attics and in other places where there is considerable danger from fire, in these particular buildings.

#### BUILDINGS AND MECHANICAL REQUIREMENTS.

The following is a list of improvements that seem to me most needed:

##### I. OFFICE BUILDING.

This is required,

First. To bring into closer relation the offices of the superintendent, steward, assistant physicians, and matron.

Second. Because of the room at present used for the superintendent's office and the clerical force is required for the visiting public, particularly children 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 and rooms have been provided for the general help in connection with the new buildings constructed, no provision has been made for necessary additions to the office and clerical force.

#### II. TWO DORMITORY BUILDINGS FOR HELP.

These were under consideration during the last legislative session and preliminary sketches for same were made by the architect. 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 better be used for inmates.

#### III. INDUSTRIAL BUILDING.

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

If this building could be so arranged as to permit of its use for public assemblages, it would thus serve an additional valuable purpose.

#### IV. FIREPROOFING AND ENLARGING LAUNDRY BUILDING AND ADDITIONAL MACHINERY FOR SAME.

The capacity of our laundry should be increased to meet the demands of the present and immediately prospective population. The second floor is of wood construction and should be fireproofed for safety. This is at the present time sagged in places and will not support in a level position the heavy machinery it is carrying. An extension will be required for additional machinery. The equipment will have to be increased and part of the machinery now in use replaced.

It will require about \$7,000 to supply the necessary equipment. This is independent of the building.

#### V. REWIRING OLD BUILDINGS.

This is for continuing the work, a portion of which will be done this year. There should be complete rewiring of the main building, Sunnyside Skinner Hall, and Cottages for epileptics.

The consulting engineer recommends \$12,000 for this purpose.

## VI. FIREPROOFING CENTER BUILDING.

Some plan should be decided upon with the architect as to reconstruction of the center building to make it fireproof, and estimate furnished.

## VII. SUBWAY, ENGINE ROOM TO MAIN BUILDING AND REPIPING SAME.

The new subways from the engine room and kitchen, Sunnyside and Skinner hall, etc., will need extending to the main building and the piping for this branch renewed.

## VIII. FOOD TROLLEY IN SUBWAY.

For the purpose of distributing food to the large groups of the population, viz., Sunnyside, the Sunnyside annexes, 1 and 2, Skinner hall, Skinner hall annex, epileptic cottages for women, 1 and 2, and the hospitals, a food carrier suspended on a ceiling track in subway, is recommended.

Cost of trolley and carriers, with labor for installation, \$2,000.

## IX. GROUNDS, FENCING AND PLAYGROUNDS.

We now have the landscape gardeners' plans complete and should begin to carry out the work on same. There is considerable more fencing needed about the campus, including the line fence, fencing about smaller playgrounds to enable us to give more of the excitable low grade cases the freedom of outdoors without the danger of running away. There is also considerable fencing required on the farm.

Would need \$4,500 for biennial period.

## X. HYDROTHERAPEUTIC APPARATUS FOR HOSPITAL AND CONTAGIOUS WARDS.

The use of the hydrotherapeutic treatment for epileptics at the colony for males is so satisfactory that I would like to practically duplicate the plant for the general hospital and thus make it available for the women of the epileptic colony and such other patients of the general hospital as may require it.

The \$2,000 granted by the last legislature for "contagious wards," while adequate for an extension for summer use and for emergencies, was not adequate to construct a building that the architect felt satisfied would be suitable for a permanent place by the side of the tuberculosis hospital. I would recommend that this appropriation of \$2,000 be allowed to revert to the treasury and an appropriation be requested to extend the present general hospital sufficiently to provide for both the hydrotherapeutic rooms and about sixteen beds for contagious diseases.

The hydrotherapeutic apparatus would require \$1,500.

## XI. ONE ADDITIONAL BOILER.

Foundation for this is already completed and the boiler should be installed for the purpose of meeting the requirements of the building extension now in prospect and to permit of a sufficient reserve for extreme cold weather and emergencies.

For boiler, breeching and headers complete, \$5,600, as estimated by chief engineer.



## XII. ECONOMIZER.

To complete the plan proposed by Charles L. Pillsbury & Co., for securing the most economical service for heating plant, an economizer will be required.

## XIII. ELECTRIFICATION OF VENTILATING APPARATUS.

With the present arrangement at the power plant whereby the exhaust steam is used (1) for water softening and (2), for heating buildings, it is desirable that just so far as possible all high pressure steam extension to out-buildings be abolished, both because of loss of radiation in carrying steam to these buildings in excess of loss of power by use of electric current and because the steam at these out-buildings, when proper ventilation is required, cannot always be utilized for heating; while at the central plant this corresponding amount of exhaust steam from the large generator engine can be applied to water softening and heating of the water which must anyway be circulated to the other buildings.

The chief engineer has gone over this proposition and recommends \$5,000 for the complete installation.

## XIV. BARN ON COLONY FARM.

The barns on the Walcott colony farm require entire reconstruction and special appropriation should be had for these independent of the repair fund, and it would probably require about \$6,000 for this, and for moving Springdale and Walcott barns and for foundations under same.

## XV. REPAIRS.

As suggested two years ago, our repair fund is inadequate and should not be less than \$10,000 per annum.

## XVI. CURRENT EXPENSE.

For the years 1913 and 1914 it should be \$232,500 each, based on an average population of 1,500. If the buildings for employes are given, it probably will increase population to about 1,600, and current expense to \$240,250.

## XVII. ELECTRIC MAINS TO GRANDVIEW.

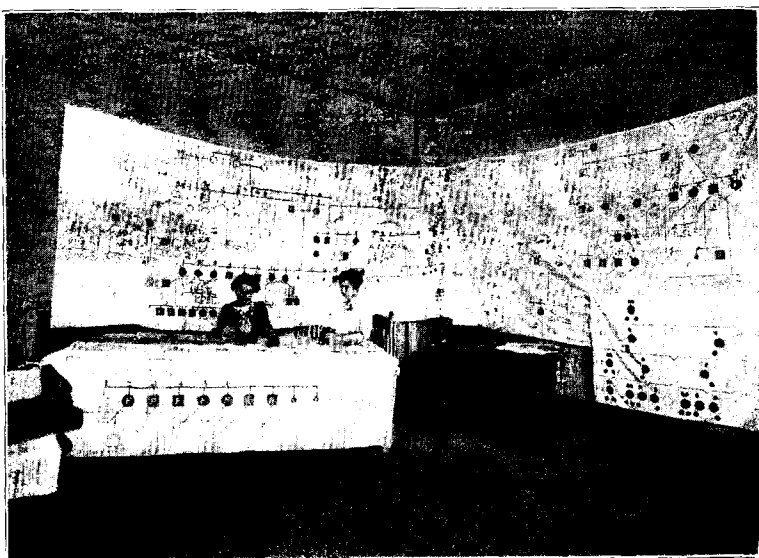
Our consulting engineer advises extending the high voltage lines from the new dairy barns to the Grandview colony building and estimates cost at \$2,000. This would provide for lighting and pumping.

## XVIII. SEPTIC TANK SEWERAGE DISPOSAL.

As noted elsewhere, it has not seemed advisable to reconstruct the river discharge sewer in view of the possibility of operating successfully a septic tank. There is no question of the desirability of avoiding the discharge of sewer into open streams where this can be done.



"RIVERVIEW"—THE WORKING GIRLS HOME. SCHOOL FOR FEEBLE-MINDED, FARIBAULT.



THE HEREDITY LABORATORY. SCHOOL FOR FEEBLE-MINDED, FARIBAULT.

## XIX. BRIDGE OVER ROCK ISLAND TRACKS.

As we now have a large amount of teaming across the C. R. I. & P. R. R., tracks and the coal side track on our grounds at grade which could be avoided by one bridge over the main line, I recommend that an appropriation be asked for funds for the improvement.

## XX. INJURY TO W. H. REINHART WHILE EXCAVATING.

W. H. Reinhart was injured on June 6, 1911, while working at excavating for a tunnel on the grounds of the institution and in the service of the state. He sustained a fracture of the left leg just above the ankle, as a result of dirt caving in upon him. This was an unforeseen accident. There was nothing to indicate that the soil in this locality would cave as planking was used by the superintendent of construction wherever it seemed at all necessary. Mr. Reinhart, however, was thrown out of employment during the entire season of 1911, as a result of this accident. The fracture healed very slowly.

I hope the board can see their way to recommend a financial compensation for the injury and time lost.

## XXI. RESEARCH FUND.

The work which the appropriation by the last legislature provided for has proven so satisfactory that I heartily recommend that funds be asked for, for its continuance. Five thousand dollars per annum will probably be sufficient for the work connected with this institution and if it is carried on in connection with the other institutions, the corresponding increase will of course be required.

## XXII. REPAIRING AND RECONSTRUCTION OF THE SUPERINTENDENT'S COTTAGE.

Some enlargement and a very thorough reconstruction of the present residence of the superintendent is desirable.

In regard to the cost of the above general improvements, except as indicated, the amounts required are not specified, as doubtless the architect and consulting engineer will make special recommendations on these points.

SUMMARY OF IMPROVEMENTS REQUIRED AND ESTIMATED COST OF SAME.

(To be furnished later by consulting engineer and architect.)

## CHANGES IN LAWS.

The question of providing some form of restraint for certain cases that should undoubtedly be under permanent legal guardianship because of their liability to become parents of defectives or in other ways to disturb the social welfare of the communities into which they drift has been discussed freely in previous reports.

The advantages and limitations of sterilization of the unit was discussed in my last report. Is it not time that remedial legislation be provided?

#### ACKNOWLEDGMENTS.

A list of contributions to the amusement fund, together with a list of extras which we have been able to provide the pupils because of this fund, will be found at the close of this report. (See Table No. 10.)

I wish to express grateful appreciation to the friends who provided extra music during the past year, thus adding to the happiness of the family.

The continued interest of Rev. C. M. Larson and Rev. J. J. Stevin and assistants, in the welfare of the pupils and patients of the institution, communicants of their respective churches, cannot be too highly praised.

The following papers and publications have been contributed for the use of our family: The Faribault Democrat and the Pilot, Faribault; The Mantorville Express, Mantorville; Our Dumb Animals, Boston; Bulletin of Iowa Institutions, Des Moines; "Budbareren," Red Wing; and "Luthersk Borneblad," Minneapolis.

#### CHANGES IN PERSONNEL.

Dr. A. R. T. Wylie resigned as first assistant in December, 1910, to accept the superintendency of the North Dakota School for Feeble-Minded, at Grafton, which was tendered him unsolicited. The doctor has a splendid professional equipment for the place and the large human sympathy that wins friends. Dr. A. B. Moulton succeeded him.

Mrs. Wylie leaves a place filled by her for many years, and will long be missed by the many children who always found in her a solicitor and zealous friend, willing to listen to their little troubles and resourceful in supplying their wants and making them happy. Miss Cherry has been promoted to succeed her.

Dr. A. F. Pringle, consulting oculist and aurist, has passed on to the Great Beyond. He was a skilled physician and a loyal friend of the work which this institution is trying to do.

Dr. A. C. Tanner and Dr. O. F. Lang have gone into private practice.

From the teaching force, Mrs. Lang, Miss Anderson, Miss Heath, Miss Morse, Miss Burrington, Miss Bartholomew and Miss Marsh have gone to other fields. Miss Divison has taken the principalship of the schools at the institution at Redfield, S. D. Miss Judson is teaching special classes at Grand Rapids, Mich. Miss Childs, dietitian, resigned to continue studies at Columbia College.

Among the many changes in other departments, I desire to pay a special tribute of regard and respect to the memory of Miss Margaret Comford, for 13 years the head of our tailoring and dressmaking department. She was called by death after only a few hours illness, and has left a record of ceaseless industry and conscientious devotion to duty that should be an inspiration to all who knew her. She represented that type of individuals who are scattered here and there in the public service, though there are none too many, whose punctuality makes a standard for measuring time

and whose services are not measured by their wages. Her genial smile accompanied her unremitting activity. Her memory will long be cherished by her associates and by the children who worked with her.

#### CONCLUSION.

The period as a whole has been a very satisfactory one, except for the difficulty of securing efficient help, which reached a very serious stage during the portion of the year 1911. This condition has been much improved and the state owes a special debt of gratitude to the officers who have battled against difficulties during these trying times, and brought the domestic conditions back to normal.

The pleasant relations with the members of the board and their cordial and loyal support, are matters for hearty and grateful acknowledgment.

Respectfully submitted.

A. C. ROGERS,  
Superintendent.

September 14, 1912.

#### REPORT ON MENTAL EXAMINATIONS.

Dr. A. C. Rogers, Superintendent: As requested, I submit herewith a report of the work done in the department of research, pertaining to mental examination of inmates.

The statistics herein submitted are compiled from the results of the mental examinations made during the period from September 1, 1910, to August 1, 1912. The basis of classification used is the average intelligence of the normal child at the different ages. A given mental age of a feeble-minded means that he has the general intelligence of the normal child of the corresponding chronological age.

#### DISTRIBUTION OF MENTAL AGES IN EACH DEPARTMENT.

##### School and Training Department—Total Examined, 579.

	Mental Age—												
	1-2	3	4	5	6	7	8	9	10	11	12	13	
No. of boys.....	18	17	26	41	59	51	37	16	17	11	2	1	
No. of girls.....	13	11	26	38	58	50	31	19	14	12	5	3	
Total .....	31	28	52	82	117	101	68	35	31	23	7	4	

##### Farm Department—Total Examined, 50.

	Mental Age—												
	3	4	5	6	7	8	9	10	11	12	13		
No. of boys.....	3	1	2	21	7	7	6	2	2	..	..		

##### Custodial Department—Total Examined, 637.

	Mental Age—												
	1-2	3	4	5	6	7	8	9	10	11	12	13	
No. of boys.....	148	39	32	32	19	13	10	3	4	..	1	1	
No. of girls.....	159	26	36	35	26	20	9	10	4	3	4	3	
Total .....	307	65	68	67	45	33	19	13	8	7	5	4	

## Epileptic Department—Total Examined, 203.

	Mental Age											
	1-2	3	4	5	6	7	8	9	10	11	12	13
No. of boys.....	2	7	11	12	14	10	14	21	12	6	2	2
No. of girls.....	10	1	2	8	11	14	13	14	9	4	4	..
Total .....	12	8	13	20	25	24	27	35	21	10	6	2

## Average Mental Age in Each Department.

School and Training.....	6.4	Custodial .....	3.5
Farm .....	6.9	Epileptic .....	7.2

## Total for All Feeble-Minded, Excluding Epileptics—Total Examined, 1,266.

	Mental Age											
	1-2	3	4	5	6	7	8	9	10	11	12	13
No. of cases.....	338	95	125	151	183	141	94	54	41	28	12	8

## Relation of Mental Age to Chronological Age, Excluding Epileptics.

	Chronological Age						
	1-5	6-8	9-11	12-14	15-17	18-20	21-30
No. mental age.....	1.8	2.8	4.1	4.9	5.5	5.8	5.0
							5.5

## Chronological Age at Time of Admission, Excluding Epileptics.

	Chronological Age						
	1-5	6-8	9-11	12-14	15-17	18-20	21-30
No. of boys.....	43	108	123	103	70	46	57
No. of girls.....	36	95	98	102	80	65	71
Total .....	79	203	221	205	150	112	128
							118

In these tables, the epileptic housed with the feeble-minded in custodial buildings because of low grades of intelligence were classified as feeble-minded only. The custodial department also includes a number of cases of the higher grades of intelligence belonging chiefly to the following classes: (a) Cripples, (b) Cases with periodic dementia, (c) Incurables, (d) Cases employed as helpers in custodial work.

Among the general facts that these results indicate, attention may be called to the following: a) More cases are admitted whose mental ages range from 4 to 7 than other grades. Relatively few of the higher grades are admitted. According to the assumption, undoubtedly in the main correct, that the smaller deviations from the normal occur by far the most frequently, the larger deviations decreasing very rapidly in frequency, the number of the higher grades of intelligence that come to the institution constitute an insignificant percentage of the total number of cases existing. (b) Up to about the chronological age of 15, the number of boys admitted exceeds the number of girls. Beyond the age of 15, the girls exceed the boys in number. (c) There is no significant difference between the grade of intelligence of the boys and the girls. (d) The condition of feeble-mindedness is on the whole not stationary throughout life. Intelligence improves on the whole to the chronological age of about 15. After this, it remains stationary.

Respectfully submitted.

FRED KUHLMANN,  
Director.

TABLE NO. 1.

TABLE SHOWING RESIDENCE OF INMATES BY COUNTIES, ON ROLL  
AUGUST 1, 1912.

Counties.	Males.	Fe- males.	To- tals.	Counties.	Males.	Fe- males.	To- tals.
Aitkin .....	2	3	5	Martin .....	4	6	10
Anoka .....	10	7	17	Meeker .....	6	8	14
Becker .....	6	7	13	Miller .....	2	2	4
Beltrami .....	5	2	7	Morrison .....	4	4	8
Benton .....	6	4	10	Mower .....	5	6	11
Big Stone .....	4	1	5	Murray .....	1	3	4
Blue Earth .....	15	16	31	Nicollet .....	5	4	9
Brown .....	11	4	15	Nobles .....	7	6	13
Carlton .....	2	3	5	Norman .....	4	4	8
Carver .....	7	4	11	Olumsted .....	8	8	16
Cass .....	6	5	11	Otter Tail .....	23	22	45
Chippewa .....	3	3	6	Pine .....	7	3	10
Chisago .....	3	3	6	Pipestone .....	1	2	3
Clay .....	3	5	8	Polk .....	11	7	18
Clearwater .....	3	1	4	Pope .....	5	3	8
Cottonwood .....	7	1	8	Ramsey .....	95	110	205
Crow Wing .....	9	3	12	Red Lake .....	4	3	7
Dakota .....	9	4	13	Redwood .....	8	5	13
Dodge .....	3	6	9	Renville .....	6	10	16
Douglas .....	6	10	16	Rice .....	16	11	27
Faribault .....	2	8	10	Rock .....	2	1	3
Fillmore .....	7	5	12	Roseau .....	2	2	4
Freeborn .....	5	8	13	St. Louis .....	23	26	49
Goodhue .....	20	11	31	Scott .....	14	6	20
Grant .....	1	3	4	Sherburne .....	2	4	6
Hennepin .....	123	131	254	Sibley .....	3	...	3
Houston .....	8	2	10	Stearns .....	20	22	42
Hubbard .....	3	5	8	Steele .....	6	3	9
Isanti .....	5	4	9	Stevens .....	5	5	10
Itasca .....	1	7	8	Swift .....	8	3	11
Jackson .....	2	2	4	Todd .....	9	8	17
Kanabec .....	...	1	1	Traverse .....	2	1	3
Kandiyohi .....	5	8	13	Wabasha .....	10	9	19
Kittson .....	2	5	7	Wadena .....	7	5	12
Koochiching .....	...	1	1	Waseca .....	1	5	6
Lac qui Parle .....	8	2	10	Washington .....	10	6	16
Lake .....	2	1	3	Watsonwan .....	5	4	9
Le Sueur .....	13	8	21	Wilkin .....	4	4	8
Lincoln .....	5	1	6	Winona .....	10	9	19
Lyon .....	6	3	9	Wright .....	11	13	24
McLeod .....	8	6	14	Yellow Medicine .....	8	7	15
Mahnomen .....	...	1	1				
Marshall .....	5	10	15	Totals .....	735	691	1,426

TABLE NO. 2.

TABLE SHOWING BIRTHPLACES OF INMATES AND PARENTS, AS SHOWN  
BY ALL APPLICATIONS RECEIVED TO AUGUST 1, 1912.

Country.	In- mates.	Fath- ers.	Moth- ers.	Country.	In- mates.	Fath- ers.	Moth- ers.
United States .....	3,111	1,173	1,345	India .....	1	...	5
Austria .....	17	90	90	Italy .....	1	6	...
Australia .....	...	...	1	Norway .....	82	406	469
Belgium .....	3	8	5	New Brunswick .....	...	3	4
Cuba .....	...	...	2	New Zealand .....	1	1	1
Canada .....	16	190	172	Poland .....	2	29	20
China .....	1	...	...	Russia .....	11	29	25
Denmark .....	18	66	50	Roumania .....	3	7	6
England .....	20	76	57	Spain .....	...	2	1
English Provinces in America .....	48	1	1	Scotland .....	3	35	26
Finland .....	5	29	28	Sweden .....	93	392	380
France .....	4	7	5	Switzerland .....	...	26	16
Germany .....	99	562	496	Wales .....	4	8	9
Holland .....	3	12	30	Unknown .....	212	447	434
Ireland .....	16	179	178				
Iceland .....	3	6	5	Totals .....	3,781	3,781	3,781

TABLE NO. 3.

TABLE SHOWING CHRONOLOGICAL AGE OF INMATES AT TIME OF ADMISSION.

	Biennial Period—		All Previous—		Total.
	Male.	Female.	Male.	Female.	
Under 5 years.....	15	16	61	38	130
Over 5 and under 10.....	48	47	327	227	649
Over 10 and under 15.....	59	60	467	341	927
Over 15 and under 20.....	56	63	333	264	716
Over 20 and under 25.....	23	15	156	113	307
Over 25 and under 30.....	14	13	54	58	139
Over 30 and under 35.....	9	9	62	47	127
Over 35 and under 40.....	2	7	40	26	75
Over 40 and under 45.....	2	2	23	19	46
Over 45 and under 50.....	7	3	15	15	40
Over 50 and under 55.....	4	...	12	11	27
Over 55 and under 60.....	2	2	14	5	23
Over 60.....	2	2	5	3	12
Age unknown.....	...	...	20	14	34
Total.....	243	239	1,589	1,181	3,252

TABLE NO. 4.

TABLE SHOWING ALLEGED DATE OF COMMENCEMENT OF DEFICIENCY OF INMATES.

	Biennial Period—		All Previous—		Total.
	Male.	Female.	Male.	Female.	
Congenital.....	139	142	596	485	1,362
From birth to 7 years.....	48	40	548	355	1,601
From 7 to 14 years.....	14	11	76	58	159
Fourteen years and later.....	7	3	46	32	88
No data.....	16	24	211	175	430
Readmissions.....	19	15	112	66	212
Total.....	243	239	1,589	1,181	3,252

TABLE NO. 5.

CAUSES OF DEATH.

	Males.		To-tals.		Males.		To-tals.
	Males.	Fe-males.			Males.	Fe-males.	
Accident (killed on railroad).....	1	..	1	Indigestion, chronic.....	..	1	1
Asphyxia during spasm.....	2	1	3	Marasmus.....	..	1	1
Broncho-pneumonia.....	14	8	22	Meningitis.....	1	..	1
Burns.....	1	..	1	Measles.....	..	8	8
Carcinoma of stomach.....	1	1	2	Mitral insufficiency.....	4	1	5
Cardiac dilatation, acute.....	1	..	1	Myocarditis.....	2	4	6
Colitis.....	2	..	2	Nephritis, acute.....	1	1	2
Diphtheria.....	..	1	1	Pancreatitis, acute traumatic.....	1	..	1
Diabetes mellitus.....	2	1	3	Pneumonia, lobar.....	7	8	15
Enteritis.....	2	1	3	Pneumonia, hypostatic.....	1	..	1
Epileptic exhaustion.....	9	5	14	Scarlet fever.....	2	2	4
Epilepsy, serial.....	..	1	1	Senility.....	..	1	1
Epilepticus, status.....	5	3	8	Tuberculosis, pulmonary.....	33	24	57
Epileptic convulsion.....	2	1	3	Tubercular peritonitis.....	2	..	2
Epilepsy.....	..	1	1	Tuberculosis, intestinal.....	1	..	1
Erysipelas.....	1	..	1	Tubercular meningitis.....	..	1	1
Goitre.....	..	1	1	Total.....	97	78	175
Hepatitis, suppurative.....	1	..	1				
Inanition.....	..	1	1				



TABLE NO. 6.

## DISEASES TREATED IN THE HOSPITAL DURING BIENNIAL PERIOD.

	Males.	Fe- males.	To- tals.		Males.	Fe- males.	To- tals.
Alcoholism .....	1	...	1	Influenza .....	10	3	13
Aneurism of thor- acic aorta .....	1	...	1	Insanity .....	2	4	6
Angina pectoris....	1	1	2	Iritis .....	2	2	4
Anorexia .....	1	2	3	Keratitis .....	2	2	4
Apoplexy .....	1	1	2	Laryngitis .....	2	2	4
Appendicitis .....	2	1	3	Lumbago .....	2	2	4
Asthma .....	3	3	6	Malnutrition .....	31	23	54
Auto-intoxication ..	6	2	8	Mastitis .....	1	1	2
Blepharitis .....	1	...	1	Measles .....	42	109	151
Bronchitis .....	56	47	103	Meningitis .....	1	...	1
Broncho-pneumonia	21	14	35	Menstruation, pain- ful .....	...	2	2
Cholangitis .....	1	1	2	Metrorrhagia .....	...	1	1
Cerebral softening ..	2	...	2	Mitral insufficiency	10	9	19
Colitis .....	2	...	2	Migraine .....	2	1	3
Confinements .....	...	2	2	Myocarditis .....	3	4	7
Conjunctivitis .....	5	24	29	Nephritis .....	2	2	4
Constipation .....	2	4	6	Observation and care .....	59	76	135
Coryza .....	3	2	5	Otitis media .....	4	3	7
Decubitis .....	6	1	7	Panophthalmitis ..	2	1	3
Dermatitis .....	2	1	3	Parotitis-traumatic	...	1	1
Diarrhea .....	4	2	6	Pertussis .....	10	2	12
Dilatation of the heart .....	1	...	1	Pharyngitis .....	9	1	10
Diphtheria .....	4	21	25	Pneumonia .....	26	28	54
Dysentery .....	4	...	4	Pleurisy .....	4	7	11
Dysmenorrhea .....	...	3	3	Prolapsed rectum ..	8	2	10
Eczema .....	4	4	8	Psoriasis .....	1	...	1
Endocarditis .....	1	...	1	Pruritus .....	3	...	3
Enteritis .....	6	4	10	Ringworm .....	3	...	3
Epilepsy, excite- ment .....	41	44	85	Rheumatism, artic- ular .....	3	6	15
Epilepsy, exhaus- tion .....	21	29	50	Rheumatism, mus- cular .....	2	3	5
Epilepsy, serial .....	20	24	44	Scabies .....	9	27	36
Epilepsy, status .....	15	24	39	Salpingitis .....	...	1	1
Erysipelas .....	1	11	12	Scarlet fever .....	13	27	40
Erythema .....	4	1	5	Serility .....	...	1	1
Gastritis .....	20	23	43	Stomatitis .....	2	2	4
German measles .....	22	15	37	Tonsillitis .....	28	41	69
Heat exhaustion .....	1	...	1	Tuberculosis .....	51	41	92
Herpes labialis .....	1	...	1	Typhoid fever .....	2	...	2
Hepatitis, suppur- ative .....	1	...	1	Vaccinia .....	...	2	2
Hysteria .....	3	3	6	Varicella .....	17	15	32
Impetigo contagiosa	4	4	8				
Indigestion .....	74	28	102	Total .....	735	775	1,510

TABLE NO. 7.

## SURGICAL CASES IN THE HOSPITAL DURING 1910-1912.

	Males.	Fe- males.	To- tals.		Males.	Fe- males.	To- tals.
Abscesses .....	42	36	78	Frost bites, ampu- tation of—			
Adenitis .....	2	2	4	Great toe .....	1	...	1
Appendicitis .....	4	1	5	Fingers .....	1	...	1
Burns .....	8	6	14	Hernia .....	6	...	6
Circumcisions .....	1	...	1	Iridectomy .....	...	1	1
Carcinoma (amputa- tion right breast) ...	1	...	1	Infections and min- or injuries .....	50	30	80
Fractures:				Salpingectomy .....	...	1	1
Clavicle .....	1	...	1	Ton-silectomy .....	2	2	4
Forearm .....	2	...	2	Varicocelelectomy ..	1	...	1
Humerus .....	1	...	1				
Wrists, both .....	1	...	1	Total .....	120	83	203

TABLE No. 8

## STUDIES IN PREVALENCE AND VIRULENCY OF DIPHTHERIA ORGANISMS IN THROATS OF INSTITUTION CHILDREN

Population 1,260

Cultures taken, 4,000

	Percentage of cultures taken showing true typical Morphology		Percentage showing organisms morphologically true that produced acid in presence of glucose	Percentage morphologically true and acid formers virulent to Guinea pigs	No. of clinical cases existing in institution during month that the cultures were taken No. #1
	Culture direct from throat	Pure Sub Culture			
*Dec. 1911... Jan. 1912...	10.72%	9.1%	4.16%	9	5
§Aug. 1912...	6.1%	5.4%	2.6%	78	0

#These are cases during the period of a month, the cultures taken at the middle of each month.

\*Cultures one-half of institution taken in one week of December, the other half one week in January. When a group that were in any way associated were cultured, all who were at all associated were taken.

§All cultures taken in two successive days.

¶Virulence not tested for lack of Guinea pigs.

TABLE No. 9

## TABLE SHOWING AGE OF INMATES AT TIME OF DEATH

	Biennial Period		All Pervious		Total
	Male	Female	Male	Female	
Under 5 years.....	3	3	10	5	21
Over 5 years and under 10.....	11	7	37	34	89
Over 10 years and under 15.....	17	14	68	60	159
Over 15 years and under 20.....	18	11	106	61	196
Over 20 years and under 25.....	9	14	75	38	136
Over 25 years and under 30.....	12	7	33	25	77
Over 30 years and under 35.....	10	8	23	19	60
Over 35 years and under 40.....	6	3	23	12	44
Over 40 years and under 45.....	3	2	14	7	26
Over 45 years and under 50.....	1	..	9	6	16
Over 50 years and under 55.....	2	..	4	7	13
Over 55 years and under 60.....	1	1	5	4	11
Over 60 years and under 65.....	1	5	4	4	14
Sixty-five years and over.....	2	3	5	..	10
Age unknown.....	1	..	5	2	8
Totals.....	97	78	421	284	880

TABLE NO. 10.

## CONTRIBUTIONS TO THE AMUSEMENT FUND.

(Not otherwise acknowledged.)

1910.			
Aug. 12.	N. P. Skog, Hallock, Minnesota.....		\$2.78
Sept. 7.	Mrs. Mary Drohan, Duluth, Minnesota.....		5.00
Oct. 3.	T. Lawler, Chokio, Minnesota.....		2.00
Nov. 11.	Mrs. Edwin Erstad, Hawley, Minnesota.....		1.00
Nov. 19.	F. B. Wilson, Blue Earth, Minnesota.....		1.00
1911.			
July 6.	A. Friend.....		4.80
Aug. 8.	Charles Marks, Utica, Minnesota.....		4.11
Nov. 2.	Miss Lena Schonhood.....		5.00
1912.			
Feb. 14.	Peter Fox, Waseca, Minnesota.....		13.88
April 10.	Mrs. Margaret Shaw, Faribault, Minnesota.....		6.07
April 10.	Mrs. Augusta Kneip, Altura, Minnesota.....		1.75
April 19.	Mrs. James Lahiff, Minneapolis, Minn.....		\$2.00
April 19.	Horace Webster, Clearwater, Minn.....		6.79
April 29.	Philip Fisher, St. Paul, Minn.....		1.27
April 29.	Mrs. Carl Braaten, Hitterdahl, Minn.....		1.37
July 22.	Mrs. I. G. Clark, Wade, N. D.....		12.50

## EXPENDITURES FROM THE AMUSEMENT FUND.

1910.		
Aug. 19.	Pariott Garage & Engine Co., motorboat repairs.....	\$17.70
Aug. 25.	Ringling Brothers, tickets to show.....	11.75
Sept. 29.	Mrs. J. J. Kellogg, recital.....	15.00
Sept. 29.	Expenses for boys at state fair.....	17.80
Oct. 21.	Edward Brigham, recital.....	15.00
Dec. 31.	Merle Heany Manufacturing Co., pool supplies.....	41.60
1911.		
Feb. 21.	Miss Kathleen Hart, musical recital.....	15.00
Mar. 17.	J. W. Devereux, tickets to St. Patrick play.....	2.20
May 31.	C. J. Donaldson, music for operetta.....	6.00
July 31.	John P. White, moving picture entertainment.....	15.00
July 31.	G. Sommers & Co., Fourth of July goods.....	8.86
July 31.	D. F. Skinner, ice cream cones.....	8.00
Aug. 7.	John P. White, moving picture show.....	10.00
Aug. 10.	New England Furniture Co., phonograph repairing.....	13.74
Sept. 26.	Mrs. J. J. Kellogg, recital.....	15.00
Oct. 5.	Miscellaneous expenses for boys at state fair.....	51.37
Nov. 11.	Theopold-Reid Co., candy for Halloween party.....	8.10
Dec. 13.	Wyman, Partridge Co., material for dolls.....	14.00
1912.		
Feb. 5.	John P. White, three moving picture shows.....	45.00
Mar. 7.	Winkley & Sons, sleigh rides.....	10.00
Mar. 7.	Swanson & Sons, sleigh rides.....	10.00
Mar. 12.	Miss Kathleen Hart, song recital.....	15.00
Mar. 17.	Tickets to St. Patrick play.....	9.15
April 5.	J. B. Schmidt, moving picture show.....	15.00
April 10.	J. Leary, sleigh rides.....	10.00
May 4.	G. Sommers & Co., tennis shoes.....	10.22
May 17.	J. B. Schmidt, moving picture show.....	15.00
June 1.	Miss Frances Patterson, stereopticon lecture on China.....	15.00
June 12.	Paid for baseball supplies.....	23.44
July 19.	Northwestern Electric Equipment Co., spark coil for motorboat.....	12.00
July 31.	Paid for tickets to Ringling circus.....	76.42