

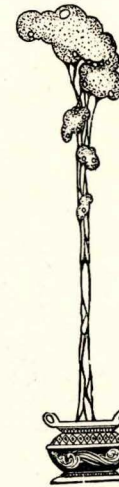
MANITOBA SANATORIUM
ELEVENTH ANNUAL
REPORT FOR THE YEAR
ENDING 31st DECEMBER
1921, INCLUDING THE
AUDITORS' REPORT FOR
THE YEAR ENDING 30th
NOVEMBER, 1921 :::::

COMPLIMENTS OF
J. McEACHERN,
BANK OF MONTREAL,
WINNIPEG.

A Health Education Service of the
CHRISTMAS SEAL FUND
MANITOBA LUNG ASSOCIATION
SANATORIAL BOARD OF MANITOBA
629 McDERMOT AVENUE
WINNIPEG, MANITOBA R3L 1P6

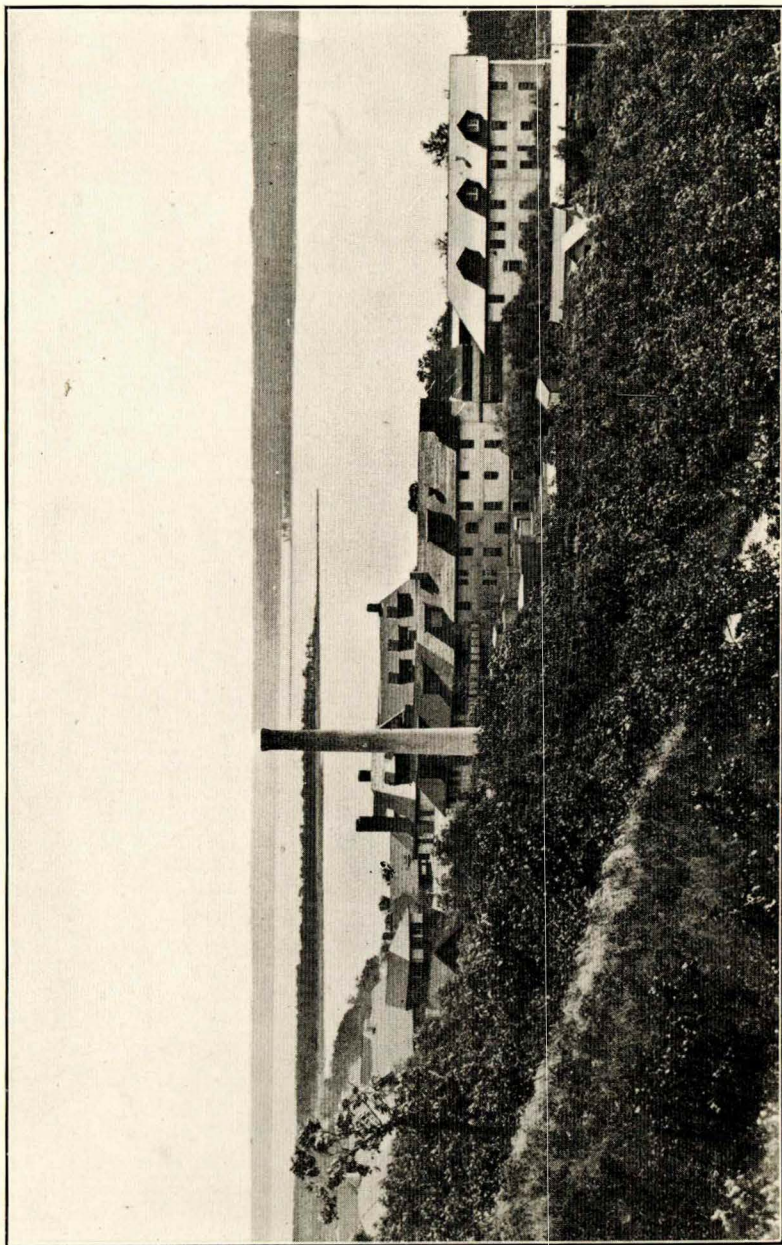
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1921

MANITOBA
SANATORIUM
NINETTE, MANITOBA



ELEVENTH ANNUAL REPORT

For the Year ending 31st December,
1921, with Auditors' Report for the
Year ending 30th November, 1921



THE SANATORIUM FROM THE HILL

MANITOBA SANATORIUM

NINETTE, MANITOBA

Officers and Executive Committee for 1922

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 ALLAN BOND, Esq., Vice-Chairman.
 GORDON BELL, Esq., M.D. E. W. MONTGOMERY, Esq., M.D.
 LT.-COL. R. J. BLANCHARD J. C. WAUGH, Esq.

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 JOHN McEACHERN, Esq.

Secretary-Treasurer

E. M. WOOD, Esq.

At the Annual Meeting, January, 1922, GEORGE NORTHWOOD, Esq., was elected a member of the Board of Trustees. The Board membership is otherwise the same as for 1921.

Staff

| | |
|-----------------------------|--|
| Medical Superintendent: | DAVID ALEXANDER STEWART, B.A., M.D. |
| Medical Assistants: | J. E. PRITCHARD, M.D. D. F. McRAE, M.D., C.M. |
| Lady Superintendent: | MISS EDITH LOUCKS, R.N. |
| Dietitian: | MISS GWENDOLEN FELLOWS. |
| Accountant: | J. S. YATES. |
| Representative of D.S.C.R.: | HARRY HENFREY. |
| Engineer: | J. R. SCOTT. |
| Radiographer: | PETER McCONNELL. |
| Storekeeper: | JOHN REDMOND. |

Solicitor: J. A. MACHRAY.
 Auditors: W. A. HENDERSON & CO.

Consultants

Medical Members of the Sanatorium Board, who are Honorary Consultants:

| | |
|--------------------------|----------------------|
| HON. DR. J. W. ARMSTRONG | DR. J. C. McMILLAN |
| DR. GORDON BELL | DR. E. W. MONTGOMERY |
| DR. R. J. BLANCHARD. | DR. S. W. PROWSE |
| DR. N. K. McIVOR | DR. R. M. SIMPSON |

INTERNAL MEDICINE

| | |
|---------------------------------|--------------------------------|
| DR. CHARLES HUNTER, Winnipeg. | DR. EDMISON, Brandon. |
| DR. CLIFFORD GILMOUR, Winnipeg. | DR. GEO. SHORTREED, Grandview. |
| DR. E. POPE, Winnipeg. | DR. GEO. CLINGAN, Virden. |

SURGERY:

| | |
|--------------------------------|-------------------------------|
| DR. NEIL J. MACLEAN, Winnipeg. | DR. GORDON FAHRNI, Winnipeg. |
| DR. JAMES McKENTY, Winnipeg. | DR. J. S. MATHESON, Brandon. |
| DR. W. L. MANN, Winnipeg. | Dr. H. C. CUNNINGHAM, Carman. |

EYE, EAR, NOSE AND THROAT:

| | |
|---------------------------------|---------------------------------|
| DR. GEO. FLETCHER, Winnipeg. | DR. GEO. H. CARLISLE, Winnipeg. |
| Dr. E. J. WASHINGTON, Winnipeg. | DR. H. O. McDIARMID, Brandon. |
| DR. T. TURNBULL, Winnipeg. | Dr. GUNNE, Dauphin. |

RADIOLOGY:

| | |
|-----------------------------|----------------------------|
| DR. L. J. CARTER, Brandon. | DR. FRANK SMITH, Winnipeg. |
| DR. C. H. BURGER, Winnipeg. | |

PATHOLOGY:

| | |
|-------------------------------|---|
| DR. S. J. S. PEIRCE, Brandon. | DR. JAMES PRENDERGAST, St. Boniface. |
| DR. FRED CADHAM, Winnipeg. | |

DERMATOLOGY:

| | |
|----------------------------|--------------------------|
| DR. HUGH MACKAY, Winnipeg. | DR. FRED BELL, WINNIPEG. |
|----------------------------|--------------------------|

Report of the Medical Superintendent

It is a matter of very great regret that during the last few months of the year the Chairman of the Board was unable to take his usual active interest in the affairs of the Sanatorium and had to ask to be relieved of the responsibilities of the office.

Patients admitted during the year were 332; patients discharged 344. While admissions and discharges were fewer than in any year since 1916, the number of days' treatment given was greater than in any previous Sanatorium year.

This apparent contradiction is explained by the longer stay of patients under treatment. For this there are several reasons. More and more infirmary accommodation has been provided from year to year until now the bed patients are sixty-five per cent. of the total. During the war and just after it many soldiers were sent to the Sanatorium definitely for diagnosis, fully thirty per cent. of whom were considered non-tuberculous and were sent out after a few days' stay. Of the soldiers who were in need of treatment at that time many were restless and insisted upon going out too soon. Relapses and readmissions were thus frequent. Now soldiers have more of the civilian point of view; they understand better the chronic, relapsing nature of Tuberculosis; the Sanatorium routine is followed more patiently and the average period of treatment is longer.

MANY ADVANCED CASES

Another reason for greater length of stay, not altogether satisfactory, is that many more advanced and even hopeless cases are now admitted. Having more hospital accommodation we admit some who cannot possibly improve. Some good is accomplished by thus preventing the gross infection of little children by dying parents, and in giving care to dying patients; but this is really public health work rather than Sanatorium work proper. It cannot be compared in usefulness with what might have been accomplished had these same patients come years before at earlier stages of the disease, and we had been able to send them home to work and to live safely for many years. Very far advanced cases have come to be almost the usual, and not the exceptional admissions. It is high time that more educational work was being done among people in general

throughout the country. We are asked to do too much of the uneconomic work of salvage, while the same old rocks go on causing wreck after wreck. So far as Tuberculosis is concerned, we need urgently to improve our lighthouse service.

VARIOUS PHASES OF TREATMENT

The work of nursing, the most important work of the hospital, its backbone, so to speak, has, needless to say, become heavier as more and more patients have been put to bed, and the Sanatorium changed more and more into a hospital. We have tried always to have an adequate nursing staff so that needed care can always be given.

The facilities of the X-Ray department are made available at every possible point in diagnosis and treatment. In 1919, 413 pairs of chest plates were made; in 1920, 626; and in 1921, 748. Of barium series for the diagnosis of intestinal conditions 4 were made in 1919; 106 in 1920, and 240 in 1921. X-Ray plates of six sets of teeth were made in 1919; 42 in 1920 and 183 in 1921. In 1921, 1,223 sets of plates in all were made, nearly 50% more than in 1920, and, besides, 215 treatments by X-Ray were given, as compared with 171 in 1920.

The large number of barium series—240 in the year—show a special effort to investigate early and get under treatment early, tuberculosis of the intestine. This condition was, up to a few years ago, considered a not very common complication and when it did occur, practically always fatal. As we make the diagnosis better and more surely we realize it is a common complication in advanced lung disease, and even more improvable than it was thought to be. A big advance, therefore, in the care of tuberculous patients is in the better diagnosis and earlier and better treatment of this serious complication.

For this investigation in the interests of our patients, which is to some extent pioneer work, our X-Ray equipment is being supplemented by equipment furnished by the Manitoba Branch of the Canadian Red Cross.

In the treatment of intestinal disease and some other phases of tuberculosis, the Alpine Lamp seems to be of definite value. About five thousand lamp treatments were given during the year.

Much greater attention has been given in the last year or two than was usual before, to the condition of the teeth of patients. A careful survey of the teeth, with X-Ray plates when necessary, is found of use even in differential diagnosis. Abscesses, carious teeth and pyorrhea account

for many illnesses suspected to be tuberculous, among them, frequently, chronic bronchitis. Prompt repair of the teeth of tuberculous patients is undoubtedly an important element in treatment. This has been secured to our patients during the past year by monthly, and later fortnightly, visits of Dr. E. S. Rose.

DIAGNOSIS

While the Sanatorium from the very beginning had a good many patients referred for examination and diagnosis this has been an increasing element in our day's work, and sometimes, especially in summer, has even filled the whole of the day. During 1921 the work of diagnosis was better organized than before, and better recorded.

Some 38 of those classed as in-patients really came for examination and advice but, remaining a few days for observation or for rest, were admitted as patients. Besides these there were in all 202 "out-patients" who were not admitted. These might be analyzed as follows:—

OUT-PATIENTS IN 1921

| | |
|---|--------|
| Came for relief of minor conditions— | |
| Staff members | 30 |
| Others | 49— 79 |
| Came for definite diagnosis, review and advice— | |
| Staff members | 13 |
| Former Sanatorium Patients.. | 14 |
| Others | 96—123 |
| | 202 |

Of patients admitted, then, 38, and not admitted, 123, or a total of 161, presented themselves definitely for diagnosis or review and advice.

This "outdoor" work, apart from the "indoor" diagnosis cases, involved 115 chest examinations, 87 pairs of chest plates, 24 X-Rays of teeth, 6 barium meals, 20 other X-Ray records and 67 fluoroscopic examinations.

It was considered desirable to make charges very moderate in order to encourage examinations, especially of relatives of patients, who were examined often at our suggestion. In many cases no charge was made. None was made to any members of staff, and nominal charges only to former patients. The total amount collected, \$790.00, did not, of course, defray the cost. In any case diagnosis should be considered an important phase of our work and the

Sanatorium personnel and facilities employed alike for diagnosis and treatment, with or without payment, according to the means of the patient.

INSTRUCTION

If the functions of a Sanatorium may be considered to be threefold, Treatment of the sick, Diagnosis of Disease and the Teaching of the people, reasons might be found to prove the last the most important.

In 1920, lectures, papers, addresses, etc., numbered thirty-four. In 1921 they numbered forty-three and may be classed as follows:—

| | |
|---|-------|
| Papers read, or published or re-published | 4 |
| Lectures to Medical Students (apart from Sanatorium clinics) | 10 |
| Lectures to Under-graduate, Graduate and Public Health Nurses | 11 |
| Addresses to Woman's Institutes or conventions | 6 |
| Addresses to other general audiences.... | 5 |
| Addresses to staff, students and patients at the Sanatorium | 7 |
| | <hr/> |
| | 43 |

During 1920 thirty young medical men spent an average of a month in Sanatorium work. During 1921, apart from our regular staff, and a few visitors for a day or two, twenty-seven medical students and four graduates—thirty-one young medical men—spent an average of a little over a month as apprentices at the Sanatorium.

GENERAL AFFAIRS

In the matter of general administration the year was a good one. The report of the auditors show that the cost per patient per day, apart from allowance for depreciation in the plant, has dropped from \$2.95 to \$2.68, a decrease of 27 cents. Allowing for depreciation, the cost for 1921 was about \$3.20. We try to reach efficiency without undue cost, without waste or extravagance.

The purpose the Board had in view in 1920 in the appointment of a business manager was served satisfactorily in 1921 by giving increased responsibilities to department heads with general supervision by the Medical Superintendent. Co-operation has been loyal and constant.

During the year a very considerable amount of work was done in the improvement of buildings, grounds, roads, etc. Among additions was a cottage for the Assistant Medical Superintendent. Prof. Stoughton kindly worked out a plan for the development of the grounds, some small parts of which have been carried out.

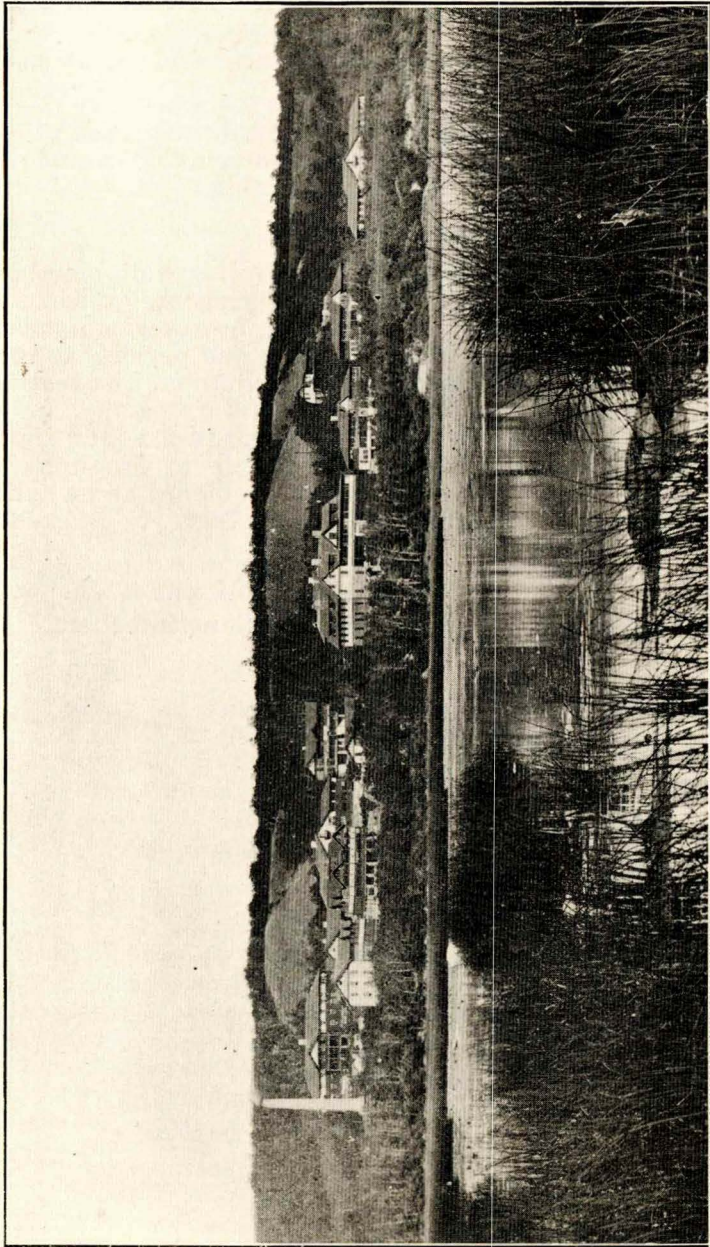
New work will have to be limited during 1922 on account of lack of funds, but there is much that could and should be done.

NET RESULTS

This report, with the pages which follow, tell something of the activities of the Sanatorium during the year, and something of results. The Sanatorium, however, is a means to an end, that end being the lessening and perhaps in time even the conquest of Tuberculosis in Manitoba. The real net results of the year's work, then, if there are results, and if they could be estimated, would be found in a wider knowledge of Tuberculosis among the people of Manitoba, a better appreciation of the associated problems, and a fuller sympathy and co-operation with all efforts to stay the plague.

DAVID A. STEWART,
Medical Superintendent.





THE SANATORIUM FROM THE LAKE

Medical Reports and Tables

January 1st, 1921, to January 1st, 1922

| | Male | Female | Total |
|---|------|--------|-------|
| Patients in Sanatorium January 1, 1921..... | 157 | 77 | 234 |
| Patients admitted during 1921..... | 178 | 154 | 332 |
| Patients treated during 1921..... | 335 | 231 | 566 |
| Patients discharged during 1921..... | 190 | 154 | 344 |
| Patients remaining in the Sanatorium Jan. 1, 1922 | 145 | 77 | 222 |

ADMISSION YEAR BY YEAR

| | | | |
|---|-----|------------|-------|
| 1910 (May to December)..... | 97 | 1916 | 329 |
| 1911 | 188 | 1917 | 475 |
| 1912 | 189 | 1918 | 417 |
| 1913 | 232 | 1919 | 465 |
| 1914 | 267 | 1920 | 425 |
| 1915 | 306 | 1921 | 332 |
| Total number admitted from the opening of the Sanatorium at the end of May, 1910, to December 31, 1921..... | | | |
| | | | 3,702 |

MILITARY ADMISSIONS

| | | | |
|---------------------------|-----|------------|-----|
| 1914 | 1 | 1918 | 162 |
| 1915 | 13 | 1919 | 208 |
| 1916 | 72 | 1920 | 134 |
| 1917 | 181 | 1921 | 61 |
| Total to end of 1921..... | | | 832 |

CLASSIFICATION OF PATIENTS

Discharged During 1921

ON ADMISSION

| | Remained Less Than 30 Days | Remained 30 Days or More | Totals | Percentage of 344 Patients Discharged |
|--|----------------------------|--------------------------|--------|---------------------------------------|
| Non-Tuberculous..... | 39 | 56 | 95 | 7.6 |
| Doubtful Tuberculosis: | | | | |
| 1. Presumably non-tuberculous..... | | 6 | 6 | 1.6 |
| 2. Clinically tuberculous, including cases of pleurisy | 4 | 14 | 18 | 5.4 |
| Pulmonary Tuberculous, all classes, including some not bacilli positive..... | 21 | 190 | 211 | 61.4 |
| Tuberculosis, non-pulmonary..... | 2 | 12 | 14 | 4. |
| Totals..... | 66 | 278 | 344 | 100.0 |

NON-TUBERCULOUS

| | Remained Less Than 30 Days | Remained 30 Days or More | Totals | Percentage of 344 Patients Discharged |
|--|----------------------------|--------------------------|--------|---------------------------------------|
| Abscess—Pulmonary..... | ... | 3 | 3 | |
| Amputation—at wrist (explosion injury)..... | 1 | ... | 1 | |
| Asthma..... | 1 | ... | 1 | |
| Bronchiectasis..... | ... | 1 | 1 | |
| Bronchitis—Acute, Chronic and Septic..... | 8 | 12 | 20 | |
| Broncho pneumonia..... | ... | 4 | 4 | |
| Childbirth..... | 1 | ... | 1 | |
| Child born..... | 1 | ... | 1 | |
| Constipation..... | 1 | ... | 1 | |
| Coryza..... | 3 | ... | 3 | |
| Debility— Following Influenza, Empyema various Acute Respiratory Diseases and Local Infections..... | 7 | 18 | 25 | |
| Empyema, Discharging Sinuses, etc..... | 1 | 5 | 6 | |
| Endocarditis..... | 1 | 1 | 2 | |
| Local Infection—Teeth..... | 3 | 1 | 4 | |
| Gastric Ulcer..... | ... | 2 | 2 | |
| Hyperthyroidism..... | 2 | ... | 2 | |
| Nephritis, Acute..... | 1 | ... | 1 | |
| Neuroses..... | 1 | 6 | 7 | |
| No Disease..... | 2 | ... | 2 | |
| Pneumo-thorax, Spontaneous—no evidence of Tuberculosis..... | 1 | 1 | 2 | |
| Psychoses..... | 2 | ... | 2 | |
| Scarlet Fever..... | 1 | 1 | 2 | |
| Tumor-Abdominal..... | ... | 1 | 1 | |
| Uterine Hemorrhage..... | 1 | ... | 1 | |
| Totals..... | 39 | 56 | 95 | 27.6 |

PULMONARY TUBERCULOSIS

| | Remained Less Than 30 Days | Remained 30 Days or More | Totals | Percentage of 344 Patients Discharged | Percentage of the Definitely Tuberculous Discharged |
|------------------------------|----------------------------|--------------------------|--------|---------------------------------------|---|
| Incipient (A)..... | 2 | 10 | 12 | 3.5 | 5.7 |
| Moderately Advanced (A)..... | 1 | 16 | 17 | 5. | 8.1 |
| Moderately Advanced (B)..... | 2 | 16 | 18 | 5.2 | 8.5 |
| Far Advanced (A)..... | 2 | 12 | 14 | 4. | 6.7 |
| Far Advanced (B)..... | 4 | 32 | 36 | 10.5 | 17.0 |
| Far Advanced (C)..... | 3 | 62 | 65 | 18.9 | 30.8 |
| Apparently Hopeless..... | 7 | 42 | 49 | 14.3 | 23.2 |
| Totals..... | 21 | 190 | 211 | 61.4 | 100.0 |

TUBERCULOSIS NON-PULMONARY

| | Remained Less Than 30 Days | Remained 30 Days or More | Totals | Percentage of 344 Patients Discharged |
|-----------------------------|----------------------------|--------------------------|--------|---------------------------------------|
| Adenitis..... | ... | 4 | 4 | |
| Bone and Joint Disease..... | 1 | 1 | 2 | |
| Kidney Disease..... | ... | 1 | 1 | |
| Peritonitis..... | 1 | 6 | 7 | |
| Totals..... | 2 | 12 | 14 | 4. |

DOUBTFUL TUBERCULOSIS

| | Remained Less Than 30 Days | Remained 30 Days or More | Totals | Percentage of 344 Patients Discharged |
|---|----------------------------|--------------------------|--------|---------------------------------------|
| Presumably Non-Tuberculous..... | ... | 6 | 6 | 1.6 |
| Presumably Tuberculous— Incipient..... | 3 | 5 | 8 | 2.4 |
| Moderately Advanced..... | 1 | 7 | 8 | 2.4 |
| Far Advanced..... | ... | 2 | 2 | .6 |
| Totals..... | 4 | 20 | 24 | 7.0 |

ON DISCHARGE

The 344 patients discharged during 1921 were classed on discharge as follows:

NON-TUBERCULOUS

| | Remained Less Than 30 Days | Remained 30 Days or More | Totals | Percentage of Non-Tuberculous Patients |
|--|----------------------------|--------------------------|--------|--|
| Untreated— Remained for Diagnosis only..... | 26 | ... | 26 | 27.3 |
| Treated— Recovered..... | 15 | 20 | 25 | 26.3 |
| Improved..... | 8 | 34 | 42 | 44.2 |
| Unimproved..... | ... | 2 | 2 | 2.2 |
| Totals..... | 39 | 56 | 95 | 100.0 |

DOUBTFUL PRESUMABLY NON-TUBERCULOUS

| | Remained Less Than 30 Days | Remained 30 Days or More | Totals | Percentage of Doubtful Class 1 |
|---------------------------------------|----------------------------|--------------------------|--------|--------------------------------|
| Recovered or Apparently Arrested..... | ... | 3 | 3 | 50.0 |
| Quiescent..... | ... | 2 | 2 | 33. |
| Unimproved..... | ... | 1 | 1 | 17. |
| Totals..... | ... | 6 | 6 | 100.0 |

PRESUMABLY TUBERCULOUS

| | Remained Less Than 30 Days | Remained 30 Days or More | Totals | Percentage of Doubtful Class 2 |
|---------------------------------------|----------------------------|--------------------------|--------|--------------------------------|
| Treatment Not Necessary..... | 1 | | 1 | 5.5 |
| Recovered or Apparently Arrested..... | | 8 | 8 | 44.5 |
| Quiescent..... | | 6 | 6 | 33.4 |
| Improved..... | 3 | | 3 | 16.6 |
| Totals..... | 4 | 14 | 18 | 100.0 |

TUBERCULOSIS NON-PULMONARY

| | Remained Less Than 30 Days | Remained 30 Days or More | Totals | Percentage of Non-Pulmonary |
|--------------------------|----------------------------|--------------------------|--------|-----------------------------|
| Apparently Arrested..... | | 8 | 8 | |
| Quiescent..... | | 2 | 2 | |
| Improved..... | 1 | 2 | 3 | |
| Unimproved..... | 1 | | 1 | |
| Totals..... | 2 | 12 | 14 | |

PULMONARY TUBERCULOSIS

INCIPIENT

Of the 344 patients discharged during 1921, 12, that is 3.5 per cent. of all discharged and 5.7 per cent. of the definitely tuberculous (pulmonary), had been classed on admission as Incipient. They were discharged as follows:

Class A

| On discharge classed as | REMAINED UNDER TREATMENT | | | | Total | Per Cent. |
|-------------------------|--------------------------|-------------------|------------|---------------|-------|-----------|
| | Average in weeks | Less than 1 month | 1-3 months | Over 3 months | | |
| Untreated - - | .3 | 1 | .. | .. | 1 | 8.3 |
| Quiescent - - | 16.0 | .. | .. | 4 | 4 | 33.3 |
| Improved - - | 7.5 | 1 | 4 | 2 | 7 | 58.4 |
| Whole average | 9.9 | 2 | 4 | 6 | 12 | 100.0 |

Gain of Weight—9 (or 75 per cent.) gained a total of 96½ lbs., an average of 10¾ lbs.; 1 (or 8 per cent.) lost a total of 2 lbs., an average of 2 lbs.; 2 (or 17 per cent) remained stationary or were not weighed on discharge. Some bed care was required by 5; 7 had no bed care.

MODERATELY ADVANCED

Of the patients discharged during 1921, 17 (5 per cent. of all discharged and 8.1 per cent. of the definitely pulmonary tuberculosis cases) had been classed on admission as Moderately Advanced A; and 18 (5.2 per cent. of the total and 8.5 of the definitely pulmonary cases) had been classed as Moderately Advanced B. They were discharged as follows:

Class A

| On discharge classed as | REMAINED UNDER TREATMENT | | | | Total | Per Cent. |
|-------------------------|--------------------------|-------------------|------------|---------------|-------|-----------|
| | Average in weeks | Less than 1 month | 1-3 months | Over 3 months | | |
| Untreated - - | .5 | 1 | .. | .. | 1 | 5.9 |
| Apparently arrested - | 26.5 | .. | .. | 2 | 2 | 11.8 |
| Quiescent - - | 28.3 | .. | .. | 8 | 8 | 47.1 |
| Improved - - | 30.6 | .. | 2 | 4 | 6 | 35.2 |
| Whole average | 27.1 | 1 | 2 | 14 | 17 | 100.0 |

Gain of Weight—14 (or 82 per cent.) gained a total of 259 lbs., an average of 18½ lbs.; 2 (or 12 per cent.) lost a total of 5 lbs., an average of 2½ lbs.; 1 (or 6 per cent.) was not weighed on discharge. $\frac{1}{4}$

Some bed care was required by 1; 16 had no bed care.

Class B

| On discharge classed as | REMAINED UNDER TREATMENT | | | | Total | Per Cent. |
|-------------------------|--------------------------|-------------------|------------|---------------|-------|-----------|
| | Average in weeks | Less than 1 month | 1-3 months | Over 3 months | | |
| Unimproved - - | .8 | 1 | .. | .. | 1 | 5.6 |
| Apparently arrested - | 83.4 | .. | .. | 4 | 4 | 22.2 |
| Quiescent - - | 45.0 | .. | .. | 8 | 8 | 44.8 |
| Improved - - | 12.2 | 1 | 2 | 2 | 5 | 27.4 |
| Whole average | 42.1 | 2 | 2 | 14 | 18 | 100.0 |

Gain of Weight—18 (or 100 per cent.) gained a total of 217 lbs., an average of 12 lbs.

Some bed care was required by 16; 2 had no bed care.

FAR ADVANCED

Of the patients discharged during 1921, there had been classed on admission Far Advanced A, 24; Far Advanced B, 36; and Far Advanced C, 65 (respectively 4, 10.5, and 18.9 per cent. of all discharged, and 6.7, 17.0 and 30.8 per cent. of definitely pulmonary tuberculosis cases). These were discharged as follows:

Class A

| On discharge classed as | REMAINED UNDER TREATMENT | | | | Total | Per Cent. |
|-------------------------|--------------------------|-------------------|------------|---------------|-------|-----------|
| | Average in weeks | Less than 1 month | 1-3 months | Over 3 months | | |
| Untreated - - | .6 | 2 | .. | .. | 2 | 14.4 |
| Unimproved - - | 9.0 | .. | 1 | .. | 1 | 7.2 |
| Quiescent - - | 40.9 | .. | 1 | 7 | 8 | 56.8 |
| Improved - - | 10.8 | .. | 2 | 1 | 3 | 21.6 |
| Whole average | 25.3 | 2 | 4 | 8 | 14 | 100.0 |

Gain of Weight—11 (or 78 per cent.) gained a total of 156 lbs., an average of 14 $\frac{1}{4}$ lbs.; 3 (or 22 per cent.) remained stationary or were not weighed on discharge.

Some bed care was required by 2; 12 had no bed care.

Class B

| On discharge classed as | REMAINED UNDER TREATMENT | | | | Total | Per Cent. |
|-------------------------|--------------------------|-------------------|------------|---------------|-------|-----------|
| | Average in weeks | Less than 1 month | 1-3 months | Over 3 months | | |
| Untreated - - | .6 | 4 | .. | .. | 4 | 11.2 |
| Apparently arrested - | 68.0 | .. | .. | 2 | 2 | 5.6 |
| Quiescent - - | 41.8 | .. | .. | 24 | 24 | 66.6 |
| Improved - - | 32.5 | .. | 1 | 3 | 3 | 8.2 |
| Unimproved - - | 85.8 | .. | .. | 1 | 1 | 2.8 |
| Died - - | 46.4 | .. | .. | 2 | 2 | 5.6 |
| Whole average | 39.4 | 4 | 1 | 31 | 36 | 100.0 |

Gain of Weight—30 (or 82 per cent.) gained a total of 486 lbs., an average of 16 $\frac{1}{2}$ lbs.; 2 (or 6 per cent.) lost a total of 15 lbs., an average of 7 $\frac{1}{2}$ lbs.; 4 (or 12 per cent.) remained stationary or were not weighed on discharge.

Some bed care was required by 30; 6 had no bed care.

Class C

| On discharge classed as | REMAINED UNDER TREATMENT | | | | Total | Per Cent. |
|-------------------------|--------------------------|-------------------|------------|---------------|-------|-----------|
| | Average in weeks | Less than 1 month | 1-3 months | Over 3 months | | |
| Unimproved - - | .2 | 1 | .. | .. | 1 | 1.6 |
| Apparently arrested - | 151.0 | .. | .. | 2 | 2 | 3.1 |
| Quiescent - - | 83.3 | .. | .. | 8 | 8 | 12.2 |
| Improved - - | 31.6 | 2 | 3 | 23 | 28 | 43.2 |
| Unimproved - - | 76.3 | .. | 1 | 17 | 18 | 27.7 |
| Died - - | 89.2 | .. | .. | 8 | 8 | 12.2 |
| Whole average | 60.8 | 3 | 4 | 58 | 65 | 100.0 |

Gain of Weight—29 (or 46 per cent.) gained a total of 360 lbs., an average of 12 $\frac{3}{4}$ lbs.; 24 (or 36 per cent.) lost a total of 206 $\frac{1}{2}$ lbs.; an average of 8 $\frac{3}{4}$ lbs.; 12 (or 12 per cent.) were not weighed on discharge.

Bed care was required by all.

APPARENTLY HOPELESS

Of the patients discharged in 1921, 49 (14.3 per cent. of all discharged and 23.2 per cent. of definite pulmonary tuberculosis cases) had been classed on admission as Apparently Hopeless. They were discharged as follows:

| On discharge classed as | REMAINED UNDER TREATMENT | | | | Total | Per Cent. |
|-------------------------|--------------------------|-------------------|------------|---------------|-------|-----------|
| | Average in weeks | Less than 1 month | 1-3 months | Over 3 months | | |
| Apparently arrested - | 12.7 | .. | .. | 1 | 1 | 2.0 |
| Quiescent - - | 19.5 | 3 | 3 | 8 | 14 | 29.0 |
| Improved - - | 26.9 | 4 | 6 | 24 | 34 | 69.0 |
| Whole average | 22.2 | 7 | 9 | 33 | 49 | 100.0 |

Gain of Weight—1 (or 2 per cent.) gained a total of 2 $\frac{3}{4}$ lbs.; 11 (or 22 per cent.) lost a total of 54 $\frac{1}{4}$ lbs., an average of 5 lbs.; 37 (or 76 per cent.) were not weighed on discharge.

Full bed care was required by all.

AGES OF PATIENTS DISCHARGED

| | Having Definite Pulmonary Tuberculosis | Non-Tuberculous Doubtful or Surgical Tuberculosis | Total | Per Cent. |
|---------------------|--|---|-------|-----------|
| Under 10 years..... | 0 | 5 | 5 | 1.4 |
| 11-15 | 4 | 15 | 19 | 5.5 |
| 15-20 | 23 | 21 | 44 | 12.8 |
| 21-25 | 53 | 21 | 74 | 21.8 |
| 26-30 | 58 | 18 | 76 | 22.1 |
| 31-35 | 36 | 15 | 51 | 14.8 |
| 36-40 | 12 | 23 | 35 | 10.1 |
| 41-50 | 21 | 13 | 34 | 9.6 |
| Over 50 | 4 | 2 | 6 | 1.7 |
| Totals..... | 211 | 133 | 344 | 100.00 |

WEIGHT

Of the 211 patients discharged who were classed as definitely pulmonary tuberculosis, 112 (or 53 per cent.) gained a total of 1587 lbs., an average of 14 lbs.; 40 (or 18.6 per cent.) lost a total of 59 lbs., an average of 7 lbs.; 59 (or 28.4 per cent.) remained stationary or were not weighed on discharge.

SANATORIUM AND HOSPITAL TREATMENT

Patients discharged during 1921 were given in all 71,288 days treatment as follows: (This is not the same as days treatment given during 1921, which numbered 86,639.)

| Admitted as | Sanatorium Routine | Part Inf. | Full Inf. | Extra Inf. | Totals |
|-----------------------------------|--------------------|-----------|-----------|------------|--------|
| Non-Tuberculous..... | 4,448 | 136 | 2,457 | 91 | 7,132 |
| Doubtful | | | | | |
| Tuberculosis: | | | | | |
| Class No. 1..... | 822 | | 707 | | 1,529 |
| Class No. 2..... | 1,697 | 189 | 553 | 30 | 2,469 |
| Non-Pulmonary | | | | | |
| Tuberculosis..... | 1,438 | 59 | 809 | 15 | 2,321 |
| Pulmonary Tuberculosis, definite: | | | | | |
| Incipient..... | 568 | 33 | 232 | | 833 |
| Mod. Advanced (A)..... | 3,164 | 36 | 60 | | 3,260 |
| Mod. Advanced (B)..... | 3,158 | 173 | 1,973 | | 5,304 |
| Far Advanced (A)..... | 2,041 | 150 | 392 | | 2,583 |
| Far Advanced (B)..... | 4,703 | 413 | 4,553 | 263 | 9,932 |
| Far Advanced (C)..... | 3,962 | 559 | 19,392 | 3,681 | 27,594 |
| Apparently Hopeless..... | 208 | | 3,855 | 4,268 | 8,331 |
| | 26,209 | 1,748 | 34,983 | 8,348 | 71,288 |

MUNICIPALITIES

Patients admitted to the Sanatorium in 1921 were from the following Municipalities:

| | | | |
|-----------------------|---|--------------------------------|-----|
| Armstrong | 2 | Neepawa Town | 3 |
| Argyle | 4 | Norfolk S. | 2 |
| Assiniboia | 2 | Ontario Province | 4 |
| Bifrost | 4 | Oakland | 1 |
| Birtle | 3 | Ochre River | 1 |
| Blanchard | 2 | Odanah | 2 |
| Boissevain | 1 | Pembina | 4 |
| Brandon City | 8 | Portage la Prairie, Rural..... | 3 |
| Cartier | 1 | Portage la Prairie, City..... | 8 |
| Coldwell | 1 | The Pas | 1 |
| Chatfield | 1 | Riverside | 2 |
| Cypress N. | 4 | Rockwood | 3 |
| Cypress S. | 1 | Roland | 1 |
| Dauphin Town | 2 | Rosedale | 1 |
| Dauphin Rural | 1 | Rosser | 3 |
| De Salabery | 1 | Rossgburn | 1 |
| Dufferin | 3 | Saskatchewan | 1 |
| Elkhorn Village | 1 | Selkirk Town | 1 |
| Ellice | 1 | Shellmouth | 2 |
| Emerson | 3 | Stonewall Town | 1 |
| Erickdale | 2 | Strathcona | 9 |
| Franklin | 2 | Strathclair | 2 |
| Fraserwood | 1 | Sprague | 1 |
| Gimli Village | 1 | Springfield | 1 |
| Gladstone Town | 1 | Swan River | 1 |
| Glenella | 1 | St. Andrews | 2 |
| Grandview | 1 | St. Boniface City..... | 6 |
| Grey | 2 | St. Clements | 1 |
| Hamiota | 1 | St. Francis Xavier..... | 1 |
| Hillsburg | 1 | St. James | 4 |
| Kildonan East | 2 | St. Rose | 3 |
| Kildonan West | 4 | St. Vital | 1 |
| Lac du Bonnet | 1 | Siglunes | 1 |
| Lakeview | 1 | Thompson | 2 |
| Langford | 3 | Transcona Town | 2 |
| Lansdowne | 1 | Turtle Mountain | 2 |
| Lorne | 3 | Unorganized Territory | 7 |
| Louise | 2 | U.S.A. | 1 |
| Manitou Village | 2 | Virden Town | 4 |
| Miami | 1 | Wallace | 1 |
| Morden Town | 4 | Westbourne | 1 |
| Morris Town | 1 | Whitewater | 1 |
| Minitonas | 2 | Winkler Village | 1 |
| Lawrence | 1 | Woodworth | 1 |
| Macdonald | 1 | Winnipeg City | 143 |

OCCUPATIONS

The occupations of patients admitted to the Sanatorium during the year 1921 were as follows:

| | Civilian | Military | | Civilian | Military |
|-----------------------------|----------|----------|-----------------------------|----------|----------|
| Accountants | 1 | | Merchants | 1 | 2 |
| Agents | 1 | 1 | Milliners | 1 | |
| Barbers | 1 | | Millers | 1 | |
| Brakemen | 2 | 1 | Nurses | 5 | |
| Carpenters | 3 | | Orderlies | 1 | |
| Cattle Dealers | 1 | | Painters | 1 | |
| Clerks, Store | 10 | 3 | Plasterers | | 1 |
| Clerks, Office | 15 | 8 | Printers | | 1 |
| Conductors | 1 | | Picture Operators | | 1 |
| Cooks | 1 | 1 | Salesmen | 1 | 3 |
| Checkers | 1 | | Schoolboys | 6 | |
| Draftsmen | | 1 | Schoolgirls | 12 | |
| Domestics | 14 | | Seamstresses | 1 | |
| Dressmakers | 1 | | Shippers | 1 | |
| Electricians | | 1 | Shoemakers | | 1 |
| Electrotypers | 1 | | Stone Masons | | 2 |
| Embalmers | | 1 | Stenographers | 14 | |
| Engineers, Stationary | 1 | | Students | 1 | |
| Engineers, Loco. | 1 | 1 | Students, Medical | | 1 |
| Elevator Operator | 1 | | Students, Engineering | 1 | |
| Farmers | 32 | 10 | Surveyors | 1 | |
| Firemen | 1 | 1 | Telephone Operators | 3 | |
| Fishermen | 1 | | Teamsters | 2 | |
| Housewives | 71 | | Tailors | | 2 |
| Jewellers | | 1 | Trimmers | 1 | |
| Laborers | 28 | 9 | Teachers, School | 8 | |
| Linotype Operators | | 1 | Widows | 4 | |
| Laundry Workers | 2 | | No Occupation | 12 | 1 |
| Mechanics | 3 | 5 | | | |
| | | | | 271 | 61 |

NATIVITY

The patients admitted to the Sanatorium during the year 1921 are classed as to nativity as follows:

| | | | |
|---------------------|-----|--------------------|-----|
| Canada | 179 | Italy | 2 |
| England | 47 | Letts | 1 |
| Scotland | 26 | Norway | 2 |
| Ireland | 13 | Poland | 3 |
| Wales | 3 | Ruthenians | 2 |
| United States | 6 | Russia | 2 |
| Austria | 17 | Russian Jews | 6 |
| Denmark | 3 | Slovak | 1 |
| France | 4 | Sweden | 3 |
| Germany | 2 | Ukraine | 3 |
| Holland | 2 | | |
| Iceland | 5 | | |
| | | | 332 |

RELIGION

The religions of the patients admitted to the Sanatorium during 1921 were as follows:

| | | | |
|-------------------------|----|------------------------|-----|
| Agnostics | 1 | Methodist | 37 |
| Anglican | 83 | Mennonite | 2 |
| Baptist | 9 | Presbyterian | 89 |
| Congregationalist | 2 | Roman Catholic | 69 |
| Greek Catholic | 3 | Salvation Army | 3 |
| Jewish | 8 | Undenominational | 1 |
| Lutheran | 25 | | |
| | | | 332 |

DONATIONS OF CASH AND ARTICLES FOR SPECIAL PURPOSES

(Cash donated for general maintenance of the Sanatorium acknowledged elsewhere).

Library Books, Papers, Magazines, etc.:-

Lady Nanton; Mr. and Mrs. Thos. McCrae, Franklin, Mass.; Salvation Army, Brandon; Miss Anna Irving, Melrose, Mass.; I.O.D.E., Stonewall; Rotary Club, Winnipeg; Y.M.C.A., Winnipeg; Mr. G. R. Crowe, Winnipeg; Canadian Red Cross Society, and others.

Plants, Cut Flowers, Floral Decorations, etc.:-

Veterans' Chapter, I.O.D.E., Winnipeg; Robinson & Co., Winnipeg; Mr. Scott, Winnipeg; Glenboro, Baldur and Stockton Churches; Mr. Bracken, Agricultural College; Patmore's Nurseries, Brandon, and others.

Clothing and Funds for Equipment and Comforts of Soldier and Civilian Patients:-

Patriotic Society, Elgin, Man.; Willing Workers, Alexander, Man.; Employees of Dominion Express Good Cheer Club; Clearwater "Needles"; Mrs. Ballantyne, Emerson; Mrs. John Dyck, Roland, Man.; Y.M.C.A., G.W.V.A., Keewatin, Ont.; Seven Oaks I.O.D.E.; Canadian Red Cross Society; 45th Battalion Auxiliary, and others.

Musical Instruments, Gramophones, Records, Games, etc.:-

Fort Garry Chapter I.O.D.E.; Mrs. Llewellyn, Surrey, England; Y.M.C.A.; Wray's Music Store; Canadian Red Cross Society, and others.

Donations to Provide Christmas Cheer for Soldier and Civilian Patients:-

Donations of Cash—J. H. Fargey, LaRiviere; Dr. J. D. Adamson, Winnipeg; Miss L. Gemmill, Winnipeg; Miss Le Page, Winnipeg; Mrs. B. H. Wilson, Winnipeg; Rev. John Stott, Enderby, B.C.; Mr. H. Hobbs, Brandon; Brandon Hills Busy Bees; Tipperary Club, Warrenton; and others.

Donations of Other Articles for Christmas Cheer:-

Mr. and Mrs. Jackson, Hilton; Mr. W. F. C. Brathwaite, Winnipeg; Hudson Bay Co., Winnipeg; Patmore Nursery, Brandon; Mr. G. A. Moule, Ninette; Chandler and Fisher, Winnipeg; Mr. Frank McKinney, Winnipeg; Canadian Red Cross Society; 45th Battalion Auxiliary; and others.

Fruits, Preserves, etc.:-

Tipperary Club, Warren, Man.; Canadian Red Cross Society, and others.



THE OPEN AIR SCHOOL

WEATHER CONDITIONS—Some meteorological observations given below were made at the Sanatorium, some at the Experimental Farm at Brandon, forty-five miles from Ninette.

| | Jan. | Feb. | Mar. | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | | |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|
| TEMPERATURE, <i>Highest</i> | 1915 | 30.5 | 32. | 52.1 | 87.2 | 83.2 | 85. | 86.5 | 94.7 | 94.5 | 71. | 61. | 33. | |
| | 1916 | 18.2 | 41. | 41. | 65.1 | 78.1 | 80. | 92.5 | 97. | 81.5 | 72. | 60.5 | 44.5 | |
| | 1917 | 38. | 30. | 42.1 | 56. | 93. | 96.9 | 101.2 | 94. | 90.4 | 71. | 61.3 | 34.9 | |
| | 1918 | 28.5 | 39.5 | 64.2 | 74. | 92. | 101.8 | 97. | 87. | 80. | 70.2 | 48.8 | 36.5 | |
| | 1919 | 36.5 | 37. | 39. | 64.8 | 95.7 | 89.5 | 95. | 98. | 85.5 | 72. | 42. | 38. | |
| | 1920 | 30. | 33.7 | 45. | 55. | 82. | 90. | 92. | 98. | 85. | 85 | 51. | 31. | |
| | 1921 | 35. | 31.9 | 53. | 73. | 82. | 97. | 99. | 96. | 88. | 73. | 58. | 39. | |
| “ <i>Lowest</i> | 1915 | -42.5 | -20. | -15.8 | 15. | 20. | 31.5 | 36.5 | 26. | 26.2 | 17. | -7.9 | -27.8 | |
| | 1916 | -51.2 | -38. | -38. | -1. | 20.1 | 30.0 | 37. | 33.5 | 22. | -3.9 | -5.8 | -40.2 | |
| | 1917 | -49. | -44. | -27. | 13. | 19.8 | 26. | 32.5 | 29. | 21.2 | 2. | 15. | -40. | |
| | 1918 | 41. | -38. | -6.5 | 12. | 11. | 32. | 37. | 37.8 | 26. | 20. | 2.9 | -36. | |
| | 1919 | -35.2 | -38.3 | -29.5 | 10.8 | 11. | 29. | 41. | 33. | 24.4 | -11. | 27.1 | 35. | |
| | 1920 | -40. | -31. | -24. | -9.5 | .16 | 41. | 39. | 31. | 30. | 17. | 1. | -30. | <i>Mean for Year.</i> |
| | 1921 | -26. | -31. | -14. | 12. | 21. | 29. | 43. | 32. | 32. | 25. | -20. | -29. | 38.67 |
| “ <i>Mean</i> | 1915 | -1. | 14.1 | 23.1 | 46.4 | 47. | 55.6 | 60.5 | 64.6 | 50.8 | 42.4 | 20.8 | 8.3 | 36.05 |
| | 1916 | -13.0 | -1.6 | 7.7 | 34.7 | 48.9 | 56.2 | 66.8 | 60.1 | 52.1 | 35.8 | 24.1 | 1.6 | 31.4 |
| | 1917 | -9.8 | -6.8 | 20.3 | 32.1 | 47.1 | 58.1 | 67.2 | 62.2 | 55.1 | 31.8 | 33.3 | -6.3 | 32.03 |
| | 1918 | -4.6 | .9 | 28. | 41.5 | 46.1 | 60.8 | 60.6 | 60.4 | 46.4 | 42.3 | 26.1 | 10. | 34.87 |
| | 1919 | 10.1 | 4.3 | 9.3 | 37.7 | 55.7 | 65.2 | 66.8 | 64.8 | 52.7 | 29.7 | 12.8 | -5.2 | 33.65 |
| | 1920 | -6.9 | 3. | 14.1 | 27.7 | 42.8 | 58.4 | 62.4 | 64.8 | 54.8 | 43.8 | 23.4 | 7.6 | 32.99 |
| | 1921 | 10.2 | 12.8 | 16.3 | 37.2 | 53.4 | 66.4 | 70.6 | 64.9 | 55.7 | 45.1 | 18. | 13.5 | 38.09 |
| | | | | | | | | | | | | | | <i>Total for Year.</i> |
| PRECIPITATION (<i>Inches of Water</i>) | 1915 | .70 | .20 | .40 | 1.07 | 1.28 | 3.81 | 2.34 | .18 | 3.29 | .64 | 1.1 | 1.6 | 16.61 |
| | 1916 | 2.70 | .40 | 1.90 | .92 | 1.59 | 4.33 | 2.63 | 2.22 | 2.39 | 2.36 | .15 | .90 | 22.49 |
| | 1917 | 2.00 | .90 | .10 | 1.10 | .14 | 1.76 | 1.26 | .78 | 1.68 | .22 | .15 | .40 | 10.49 |
| | 1918 | .30 | .90 | .67 | .67 | 2.39 | .97 | 2.47 | 2.09 | 1.33 | 1.01 | 1.25 | .50 | 14.55 |
| | 1919 | .20 | .60 | .90 | 1.53 | 1.60 | 3.57 | 2.14 | .38 | 1.62 | .84 | .80 | .50 | 15.68 |
| | 1920 | 1.70 | .30 | 1.10 | .21 | 1.33 | 1.96 | 2.18 | 4.34 | 1.51 | .80 | .95 | .50 | 16.78 |
| | 1921 | .35 | 1.25 | .90 | .70 | 2.10 | 2.22 | .22 | 2.25 | 3.68 | .78 | . | .48 | 14.93 |
| BRIGHT SUNSHINE (<i>Hours</i>) | 1915 | 98.5 | 85.8 | 193.3 | 164.2 | 225.4 | 164.8 | 202.5 | 257.1 | 106.9 | 180.7 | 74.6 | 72.9 | 1826.7 |
| | 1916 | 99.4 | 143.7 | 137.4 | 175.4 | 187.5 | 189.6 | 259.3 | 260.6 | 177.1 | 108. | 132.9 | 115.3 | 1986.2 |
| | 1917 | 88.7 | 125.5 | 123.5 | 147.7 | 293.5 | 227.7 | 283.7 | 261.8 | 179.1 | 110.2 | 123.2 | 86.2 | 2060.8 |
| | 1918 | 93.0 | 132.3 | 167.3 | 195. | 172.6 | 202. | 225. | 221.6 | 211. | 141.4 | 74.1 | 52.5 | 1887.8 |
| | 1919 | 114.1 | 117.6 | 127.0 | 173.5 | 247.1 | 228.7 | 283.4 | 250.6 | 114.4 | 145.9 | 109.4 | 114.9 | 2026.6 |
| | 1920 | 8.83 | 117.5 | 132.5 | 229.5 | 226.1 | 242.9 | 280.9 | 275.1 | 173.8 | 147.9 | 81.7 | 69.3 | 2065.5 |
| | 1921 | 103.7 | 101. | 113.7 | 169.9 | 249.4 | 266.6 | 294. | 266.1 | 154. | 161.7 | 52.9 | 97.4 | 1990.1 |

Average daily bright sunshine, 1914, 5.2 hours; 1915, 5.0 hours; 1916, 5.15 hours; 1917, 5.64 hours; 1918, 5.17 hours; 1919, 5.55 hours; 1920, 5.678

Auditor's Report

January 17th, 1922.

The Chairman and Members, Board of Trustees,
Manitoba Sanatorium.

Gentlemen:

In accordance with our appointment we have made an audit of the books, vouchers and accounts of the Sanatorium for the fiscal year ended November 30th, 1921, and present herewith for your consideration the following statements covering the operations for the period, viz.:

Exhibit A—Balance Sheet as at 30th November, 1921.

Exhibit B—Statement of Income and Expenditure—
Maintenance Account.

Exhibit C—Statement of Income and Expenditure—
Capital Account.

Exhibit D—Summarized Statement of Cash Receipts and
Disbursements.

Schedule No. 1—Cash Donations.

Schedule No. 2—Summary of Inventories.

Schedule No. 3—Detail of Expenditure — Maintenance
Account.

The increase or decrease in the various Assets and Liabilities during the period are shewn by the following statement, viz.:

| ASSETS | |
|---------------------|--------------------------------------|
| 30th Nov. 1920 | 30th Nov. 1921 |
| | Land, Buildings, Plant and Equipment |
| \$540,166.85 | (less depreciation) \$514,279.95 |
| 84,257.06 | Accounts Receivable 95,237.76 |
| 15,559.90 | Inventories, etc. 17,324.19 |
| <u>\$639,983.81</u> | <u>\$626,841.90</u> |
| LIABILITIES | |
| \$ 69,876.28 | Accounts Payable \$ 6,437.98 |
| | Overdraft 51,381.69 |
| <u>69,876.28</u> | <u>57,819.67</u> |
| 570,107.53 | Total Liabilities 57,819.67 |
| | Surplus 569,022.23 |
| <u>\$639,983.81</u> | <u>\$626,841.90</u> |

The following is a comparison of the Per Capita Costs and the Per Capita Earnings in total for the period, as compared with the two preceding fiscal periods, viz.:

| | 1st Dec. 1920 to 30th Nov. 1921 12 Months | 1st Dec. 1919 to 30th Nov. 1920 12 Months | 1st Apr. 1919 to 30th Nov. 1919 8 Months |
|---------------------------|--|--|---|
| Hospital Days | 87,099 | 79,316 | 48,866 |
| Expenditure: | | | |
| General Maintenance | 2,683 | 2,953 | 2,592 |
| Depreciation | .521 | .511 | .500 |
| Total | <u>3,204</u> | <u>3,464</u> | <u>3,092</u> |
| Income: | | | |
| From Earnings | 2,662 | 2,673 | 2,371 |
| Other | .280 | .476 | .525 |
| Total | <u>2,942</u> | <u>3,149</u> | <u>2,896</u> |

Below is given a comparative detailed cost per Hospital Day under the various functional headings for the present and preceding fiscal periods.

| | Year Ending 30th Nov. 1921 | Year Ending 30th Nov. 1920 |
|---|----------------------------------|----------------------------------|
| Commissariat (General and Infirmary)..... | 1,131 | 1,424 |
| Housing of Patients | .113 | .106 |
| Professional care of Patients | .469 | .486 |
| Administration | .202 | .185 |
| Power House (Heat, Light and Water)..... | .460 | .492 |
| General Repairs | .220 | .155 |
| Laundry | .079 | .080 |
| Farm and Garden | .009 | .015 |
| Direct Maintenance cost | <u>2,683</u> | <u>2,953</u> |
| Add: Depreciation | .521 | .511 |
| | <u>3,204</u> | <u>3,464</u> |

Reported by

(Sgd.) W. A. HENDERSON & CO.,
Chartered Accountants.

BALANCE SHEET AS AT 30th NOVEMBER, 1921

| ASSETS | | LIABILITIES | |
|--|--------------|--|--------------|
| Land, Buildings, Plant and Equipment: | | Payables: | |
| Land and Improvements | \$ 9,034.93 | Bank of Montreal, Belmont— | |
| Buildings (less Depreciation) | 440,511.23 | Note | \$ 40,000.00 |
| Plant and Machinery (less Depreciation, Heating, Lighting, Water and Sewage, etc.) | 33,338.52 | Overdraft | 11,381.69 |
| Furniture and Equipment (less Depreciation) | 11,301.23 | | \$ 51,381.69 |
| Furnishings and Miscellaneous Equipment (less Depreciation) | 14,315.83 | Patients' Supply Store (net) | 181.23 |
| Automobile (less Depreciation) | 625.00 | Dominion Government—re-fund on 1921 rate | 6,256.75 |
| Horses, Harness, etc. (less Depreciation) | 1,117.65 | | \$ 57,819.67 |
| Spur Track | 700.85 | Balance: | |
| Fire Equipment (less Depreciation) | 3,334.71 | Being Nominal Surplus of | |
| | \$514,279.95 | Assets over Liabilities | 569,022.23 |
| Petty Cash: | 1,500.90 | | |
| Receivables: | | | |
| Patients, Balances Outstanding | \$ 11,943.13 | | |
| Provincial Government—Balance Levy | 37,500.00 | | |
| Provincial Government, Per Capita, 1921 | 43,720.50 | | |
| Sundry | 574.13 | | |
| | 93,737.76 | | |
| Inventories and Deferred Charges: | | | |
| Supplies, etc., on hand | \$ 16,256.07 | | |
| Unearned Insurance | 1,068.12 | | |
| | 17,324.19 | | |
| | \$626,841.90 | | \$626,841.90 |

We have examined the foregoing Balance Sheet and the supporting Maintenance Statement together with the vouchers and accounts relating thereto, and have obtained all the information and explanations we have required. In our opinion these statements exhibit a true and correct view of the state of the Sanatorium's affairs as at 30th November, 1921, according to the best of our information and explanations given to us and as shown by the books of the Sanatorium.

(Sgd.) W. A. HENDERSON & CO.,
Chartered Accountants.

Winnipeg, January 17th, 1921.

MAINTENANCE ACCOUNT

For Year Ending 30th November, 1921

| DEBIT | | CREDIT | |
|--|---------------------|---|--------------|
| EXPENDITURE: | | INCOME FROM EARNINGS: | |
| Commissariat—General: | | Patients: Military, Private, Municipal and City | \$194,395.66 |
| Per Schedule 3-A | \$ 57,838.70 | Less: Rebate to S.C.R. | 6,256.75 |
| Commissariat—Infirmary: | | | \$188,138.91 |
| Per Schedule 3-B | 40,647.31 | Provincial Government Per Capita Grant, 1921 | 43,720.50 |
| Housing of Patients: | | | \$231,859.41 |
| Per Schedule 3-C | 9,863.80 | OTHER INCOME: | |
| Professional Care of Patients: | | Municipal Levy | \$ 75,000.00 |
| Per Schedule 3-D | 40,854.05 | Less: For Patients Treated thereout | 51,067.65 |
| Administration: | | | \$ 23,932.35 |
| Per Schedule 3-E | 17,598.10 | Subscriptions and Donations (Per Schedule No. 1) | 240.00 |
| Heat, Light and Water: | | Medical Examinations | 196.50 |
| Per Schedule 3-F | 40,071.50 | | 24,368.85 |
| General Repairs: | | Total Income available for Current Administration and Maintenance | \$256,228.26 |
| Per Schedule 3-G | 19,217.31 | Balance being excess of Expenditure over Income—Maintenance Account | 23,009.81 |
| Laundry: | | | |
| Per Schedule 3-H | 6,896.87 | | |
| Farm and Garden: | | | |
| Per Schedule 3-I | 739.13 | | |
| Total Expended for Administration and Maintenance | \$233,726.77 | | |
| School Expense | 104.80 | | |
| Other Charges: Depreciation— | | | |
| Buildings | 5% \$ 26,245.89 | | |
| Plant, etc. | 10% 7,692.77 | | |
| Furniture, etc. | 5% 757.33 | | |
| Furnishings, etc. | 20% 9,724.16 | | |
| Automobile | 25% 468.75 | | |
| Horses | 10% 147.10 | | |
| Fire Equipment | 20% 370.50 | | |
| | 45,406.50 | | |
| | \$279,238.07 | | \$279,238.07 |

CAPITAL ACCOUNT

STATEMENT OF INCOME AND EXPENDITURE

For the Year Ending 30th November, 1921

INCOME

| | |
|-----------------------------|---------------------|
| Provincial Government | \$ 22,207.91 |
| Sundry | 394.92 |
| | <u>\$ 22,602.83</u> |

EXPENDITURE

| | |
|---|---------------------|
| Buildings: | |
| Alterations and Improvements | \$ 8,360.68 |
| New Buildings | 7,064.36 |
| Water: | |
| New Wells | 724.02 |
| Plant and Machinery | 851.14 |
| Horses, Harness, etc. | 40.65 |
| Furniture and Equipment: | |
| Furniture | 175.98 |
| Equipment | 940.62 |
| Fire Equipment | 25.25 |
| | <u>\$ 18,182.70</u> |
| Excess of Income over Expenditure | \$ 4,420.13 |
| Less: Overexpended 30th November, 1920 | 23,884.16 |
| | <u>\$ 19,464.03</u> |

CASH ACCOUNT

For the Year Ending 30th November, 1921

RECEIPTS

Maintenance Account:

| | |
|---|---------------------|
| Patients (Soldiers, Private and Cities) | \$144,231.28 |
| Municipal Levy | 73,181.33 |
| Per Capita Grant (1920) | 31,726.40 |
| Subscriptions and Donations | 240.00 |
| Medical Examinations | 184.50 |
| X-Ray Plates | 607.50 |
| Drugs and Hospital Supplies | 1,508.11 |
| Farm Produce and Supplies to Staff | 3,206.03 |
| Patients' Supply Account | 792.32 |
| Prov. Govt. Grant for School Supplies | 75.00 |
| Notes Discounted | 88,000.00 |
| | <u>\$343,752.47</u> |

Capital Account:

| | |
|-----------------------------|------------------|
| Provincial Government | \$ 22,207.91 |
| Sundries | 840.37 |
| | <u>23,048.28</u> |

| | |
|-------------------------------------|---------------------|
| Total Receipts | \$366,800.75 |
| Overdraft 30th November, 1921 | 11,381.69 |
| | <u>\$378,182.44</u> |

DISBURSEMENTS

| | |
|-------------------------------------|---------------------|
| Vouchers paid during year | \$308,306.16 |
| Overdraft 30th November, 1920 | 69,876.28 |
| | <u>\$378,182.44</u> |

Schedules

Cash Donations, 1921

| | |
|-----------------------------|-----------------|
| G. McLean Co. | \$100.00 |
| W. R. Anderson Estate | 100.00 |
| Arctic Ice Company | 30.00 |
| Miss L. Enns | 10.00 |
| | <u>\$240.00</u> |

SCHEDULE No. 2 Summary of Inventories

| | |
|----------------------------------|---------------------|
| Stores on Hand | \$ 8,630.39 |
| Fuel, F.A. | 1,904.36 |
| Gasoline, F.B. | 51.45 |
| X-Ray Supplies, D.F. | 164.05 |
| Hay, Oats, Hogs, etc., I.C. | 208.50 |
| Hay, Oats, Hogs, etc., I.F. | 240.00 |
| Stationery, etc., E.B. | 451.09 |
| Laundry Supplies, H.B. | 114.50 |
| Dispensary, D.A. | 1,543.37 |
| Engineers' Supplies, F.C. | 2,184.52 |
| Sundry Supplies, G.A. | 723.29 |
| G.F. | 40.55 |
| | <u>\$ 16,256.07</u> |

SCHEDULE No. 3 Maintenance Account—Details of Expenditure

"A"

Commissariat—General Kitchen:

| | |
|--|---------------------|
| A Food Supplies used in Dining Room.. | \$ 48,346.50 |
| B Kitchen and Dining Room Supplies other than Food..... | 512.90 |
| C Wages of Kitchen Staff and Wait- resses | 8,421.23 |
| E Fuel used for Cooking..... | 243.51 |
| F Ice | 314.56 |
| | <u>\$ 57,838.70</u> |

"B"

Commissariat—Infirmary Kitchen:

| | |
|---|------------------|
| A Food Supplies | \$ 33,961.45 |
| B Kitchen Supplies other than Food..... | 811.27 |
| C Wages of Kitchen Staff and Orderlies | 5,394.12 |
| E Fuel used for Cooking..... | 165.92 |
| F Ice | 314.55 |
| | <u>40,647.31</u> |

"C"

Housing of Patients:

| | |
|---|-----------------|
| A Cleaning and Sanitary Supplies..... | \$ 2,828.73 |
| B Salaries and Wages of Housekeeper and Staff and Bedroom Staff..... | 7,000.83 |
| C House Laundry | 34.24 |
| | <u>9,863.80</u> |

Forward 108,349.81

SCHEDULE No. 3—Continued

Forward 108,349.81

"D"

Professional Care of Patients:

| | |
|---|---------------------|
| A Drugs, Medical & Nursing Supplies.. | \$ 3,349.26 |
| B—Proportion Salary Medical Superin- tendent and Assistants, Lady Super- intendent and Nursing Staff..... | 35,025.05 |
| F Salary X-Ray Operator, plates and General Supplies | 2,479.74 |
| | <u>\$ 40,854.05</u> |

"E"

Administration:

| | |
|---|------------------|
| A Proportion Salary of Medical Super- intendent and Staff..... | \$ 9,889.46 |
| B Office Supplies, Printing, Postage and Stationery | 1,567.12 |
| C General Expense | 6,141.52 |
| | <u>17,598.10</u> |

"F"

Power, Heat and Water:

| | |
|------------------------------------|---------------------|
| A Fuel | \$ 24,682.32 |
| B Oil and Gasoline..... | 2,417.52 |
| D Wages of Engineer and Staff..... | 11,638.42 |
| G Repairs to Plant..... | 1,333.24 |
| | <u>\$ 40,071.50</u> |

"G"

Repairs and Maintenance General:

| | |
|---|------------------|
| A Repairs and Replacement Supplies...\$ | 7,116.57 |
| B Wages of Repair and General Staff.... | 8,338.16 |
| E Insurance | 2,827.53 |
| F Car Maintenance | 935.05 |
| | <u>19,217.31</u> |

"H"

Laundry:

| | |
|---------------------------------------|--------------------|
| A Wages of Staff..... | \$ 5,854.51 |
| B Supplies | 789.10 |
| C Repair to Machinery and Equipment.. | 253.26 |
| | <u>\$ 6,896.87</u> |

"I"

Farm and Garden:

| | |
|--|--------------------|
| A Wages of Staff..... | \$ 1,560.16 |
| B Horse Hire and Maintenance..... | 391.17 |
| C Seeds and Supplies..... | 919.53 |
| D Repair and Replacement of Tools..... | 68.56 |
| | <u>\$ 2,939.42</u> |

Less—Produce sold or used in Sanatorium

| | |
|----------------|---------------|
| Kitchens | 2,202.29 |
| | <u>739.13</u> |

Total per Maintenance Account,
Exhibit "B" \$233,726.77