DEPARTMENT OF PROVINCIAL SECRETARY

ELEVENTH ANNUAL REPORT

OF

THE TRANQUILLE SANATORIUM

OF THE PROVINCE OF

BRITISH COLUMBIA

FOR THE

FISCAL YEAR ENDED MARCH 31ST, 1932

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.:
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1932.

To His Honour J. W. FORDHAM JOHNSON,
Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The undersigned respectfully submits herewith the Annual Report of the Medical Superintendent of Tranquille Sanatorium for the fiscal year ended March 31st, 1932.

S. L. HOWE,
Provincial Secretary.

Provincial Secretary's Office.

DEPARTMENT OF THE PROVINCIAL SECRETARY.

HON. S. L. HOWE, *Provincial Secretary.*

P. WALKER, *Deputy Provincial Secretary.*

TRANQUILLE SANATORIUM HEADQUARTERS STAFF.

A. D. LAPP, M.B., *Medical Superintendent.*

H. JEFFERIS, *Bursar.*

H. G. CHISHOLM, M.D., *Assistant Medical Superintendent.*

H. A. JONES, M.D., *Assistant Physician.*

A. HAKSTIAN, M.B., *Assistant Physician.*

H. F. P. GRAFTON, M.D., *Assistant Physician.*

G. DARLING, *Laboratory Technician.*

Miss B. BIBBY, R.N., *Matron.*

Miss L. WRIGHT, *Dietitian.*

J. G. SIMMONDS, *Clerk.*

Miss M. L. HAYCROFT, *Stenographer.*

W. JACKSON, *Farm Manager.*

A. N. LOW, *Steward.*

Miss D. CREECH, *Book-keeper.*

J. TREVORS, *Laundry Manager.*

J. L. STEPHENSON, *Chief Engineer.*

Rev. Dr. E. D. MCLAREN, *Chaplain.*

DEPARTMENT OF PUBLIC WORKS.

J. MATHIESON, *Clerk of Works.*

TRANQUILLE SANATORIUM.

REPORT OF THE MEDICAL SUPERINTENDENT.

TRANQUILLE, B.C., March 31st, 1932.

The Honourable S. L. Howe,
Provincial Secretary, Victoria, B.C.

SIR,—I have the honour to submit herewith the Eleventh Annual Report of Tranquille Sanatorium, covering the fiscal year April 1st, 1931, to March 31st, 1932.

There was an increase in the daily average patient population over any previous year, resulting in an increase in the number of days' treatment given.

I would refer you to my remarks and recommendations as set forth in the annual reports of the two preceding years, regarding the need for the adoption of more active and vigorous methods in attacking the tuberculosis problem in this Province. I have nothing new to add at this time, but feel that our present methods are far from adequate to cope with the situation. It has been conclusively proven in other Provinces—namely, Saskatchewan and Ontario—that money spent in extending the scope of anti-tuberculosis work is an economical procedure. It not only saves money by shortening the term of treatment required in each case, but also by reducing the number of cases and deaths. Both of the Provinces mentioned have a death-rate of about half that of British Columbia.

The saving or prolonging of lives is indisputably a good investment, and particularly lives menaced by tuberculosis, which takes its toll during the early years of manhood and womanhood, when large sums of money, spent on rearing and education, are just beginning to yield good dividends in the way of the earning-power of the individual.

It would be considered brutal, to say the least, for a community to stand by and watch thousands of young people being slowly dragged down to their death without some heroic effort being made to save them. We have this very thing happening in our midst, and it is time that the people, not only of this Province, but of every community, realized that through increased efforts in the right direction a large percentage of these young people could be saved and restored to health. In addition, thousands of children now growing up would be protected from the infections, which mean tuberculosis and all the expense and misery which go with it, in later years.

MEDICAL AND SURGICAL.

These services, being the ones which affect the patients most intimately, should naturally be the best and most up-to-date possible. Economies effected last December reduced the personnel of some of the branches of these services. Those remaining have shouldered the extra load good-naturedly and the patients have not been allowed to feel the change. Every one has co-operated to keep the standard of treatment at as high a level as possible. Staff meetings held each week for the discussion of cases give each patient the benefit of the judgment of all the members of the staff.

Owing to our isolated situation the number of cases referred to us for examination is not so large as it might otherwise be. During the past year there were 179 such cases, an increase of thirty-five over the previous year.

Surgical procedures occupy a very prominent place in the modern treatment of pulmonary tuberculosis.

At the beginning of the year there were fifty-nine cases receiving artificial pneumothorax treatment. This treatment was attempted in fifty-eight new cases during the year and was successfully instituted in forty-eight. There were nine cases admitted with the treatment already established. The total number of refills given during the year was 23,008.

Phrenicectomy for paralysis of the diaphragm, with resulting partial collapse on one side, was attempted in forty-eight cases and was successful in forty-five.

Thoracoplasty, a major operation involving the removal of a large section of each rib on one side, was done in four cases and good results were obtained in all. This makes a total of forty-eight of these operations which have been completed on our patients to date.

We expect to be using gomenol and oil for suitable cases in the immediate future, but have been waiting the publication of some results which is to be made shortly.

Our affiliation course appears to be working out very satisfactorily and in the past year fifty-eight student-nurses have received a diploma for having completed the two months' intensive course. All of these nurses made high marks in the examination which is given at the end of each course.

FINANCIAL.

This is fully covered by the Bursar's report. Every possible economy consistent with efficiency has been practised, and as a result we have again reduced both our gross and net *per capita* costs. The gross daily cost per patient is down 28 cents below last year, but it is not safe to predict that we can lower it another year. It has, like everything else, touched a new low for all time. Mr. Jefferis must again be congratulated on his good work.

SANATORIUM FARM.

The balance-sheet showing the results of the farm operations is most encouraging, considering the present prices of farm stock and products. In spite of having to reduce inventories greatly on this account, we were able to show a profit of almost $2,400 in operation. Operating expenditures included large items for fencing, ditching, etc., investments on which there is no cash return. With any improvement in prices the farm should prove a real paying proposition, and I feel that we are very fortunate in these times to be showing any profit.

The range stock is increasing very satisfactorily and we are supplying all beef to the Sanatorium. We are turning out about 700 head this spring and should have over 900 come in in the autumn. Reduction of the inventory values of this and other stock has been the chief reason for us not showing the handsome profit we anticipated a year ago.

The dairy herd is being steadily improved both in type and production records. We have had a splendid increase of young heifers with good records back of them, and in a year or two, when there is a better demand, should be in a position to dispose of some of this stock to good advantage. Regular tests in our laboratory show us to be keeping our bacterial count well within the limits of certified milk.

We raise two litters of hogs each year from our sows. These amount to over 600 per year and supply us with all pork products, the curing and packing being done at our own abattoir.

In view of the past year's showing I feel very optimistic about the future of the farm and think that I can safely predict increasing profits each year, particularly if we are able to retain Mr. Jackson, the present manager.

RECOMMENDATIONS.

I can only repeat what I recommended last year, but owing to the present financial situation it is not likely that these recommendations can be carried out.

A new X-ray machine is urgently needed and, as it is the most important part of our medical equipment, we must make a special effort to purchase it during the coming year.

ACKNOWLEDGMENTS.

Many organizations in Kamloops have contributed to the welfare and entertainment of our patients. The Elks' Club, the Red Cross, and I.O.D.E. deserve special mention. The visiting clergymen merit our appreciation, also those who have given any donations for the benefit of the patients.

This has been a difficult year in some respects and I appreciate the loyal co-operation which I have had from the staff.

In conclusion, allow me, Sir, to gratefully acknowledge the assistance I have had from the members of your Department.

I have the honour to be,
Sir,
Your obedient servant,

A. D. LAPP, M.B.,
Medical Superintendent.

STATISTICAL TABLES.

TABLE No. 1.—GENERAL STATISTICS FOR YEAR 1931–32.

Movement of Population.	Male.	Military.	Female.	Total.
Number of patients in Sanatorium, March 31st, 1931	160	24	143	327
Number of patients admitted, 1931–32	128	17	96	241
Number of patients discharged, 1931–32	124	23	90	237
Number of patients treated, 1931–32	288	41	239	568
Number of patients in Sanatorium, March 31st, 1932	160	24	143	327
Daily average population	.....	....	.....	330
Total number of patient-days	.....	....	.....	120,654

TABLE No. 2.—CLASSIFICATION OF 241 CASES ADMITTED TO SANATORIUM DURING YEAR 1931–32.

Classification.	Male.	Military.	Female.	Total.	Percentage.
Incipient	19	1	12	32	13.3
Moderately advanced	32	7	34	73	30.3
Far advanced	73	9	50	132	54.8
Miscellaneous	4	....	....	4	1.6
Totals	128	17	96	241	100.0

TABLE No. 3.—CLASSIFICATION OF FOUR CASES ADMITTED AS MISCELLANEOUS.

Classification.	Male.	Female.	Total.
Pyonephrosis	1	....	1
Bronchiectasis	1	....	1
Lung abscess	1	....	1
Asthma	1	....	1
Totals	4	....	4

TABLE No. 4.—SHOWING CIVIL STATE OF PATIENTS ADMITTED FROM APRIL 1ST, 1931, TO MARCH 31ST, 1932.

Civil State.	Male.	Female.	Total.
Married	59	39	98
Single	83	55	138
Divorced	2	1	3
Widowed	1	1	2
Totals	145	96	241

TABLE No. 5.—SHOWING THE NATIONALITY OF PATIENTS ADMITTED FROM APRIL 1ST, 1931, TO MARCH 31ST, 1932.

Nationality.	Male.	Female.	Total.
American	6	5	11
Austrian	....	1	1
Canadian	66	71	137
Danish	1	1	2
English	28	8	36
Finnish	3	1	4
French	1	....	1
Grecian	1	....	1
Hollander	1	....	1
Irish	6	1	7
Italian	3	....	3
Jugo-Slavian	1	....	1
Norwegian	6	....	6
Russian	1	....	1
Scotch	12	7	19
Serbian	1	....	1
Swedish	6	1	7
Ukranian	1	....	1
Welsh	1	....	1
Totals	145	96	241

TABLE No. 6.—SHOWING WHAT DISTRICTS CONTRIBUTED PATIENTS FROM APRIL 1ST, 1931, TO MARCH 31ST, 1932.

Place of Residence.	Male.	Female.	Total.
Abbotsford	1	....	1
Alberni	....	1	1
Aldergrove	....	1	1
Armstrong	1	....	1
Atlin	1	....	1
Brookmere	1	....	1
Burnaby	1	3	4
Burton	....	1	1
Chilliwack	1	1	2
Cloverdale	....	1	1
County Line	1	....	1
Denman Island	....	1	1
Duncan	1	1	2
Essondale	....	1	1
Extension	1	....	1
Falkland	....	1	1
Fernie	2	1	3
Field	....	1	1
Gifford	....	1	1
Grand Forks	....	1	1
Grindrod	1	....	1
Hanceville	....	1	1
Hope	1	....	1
Kamloops	14	4	18
Kelowna	1	2	3
Kimberley	4	....	4
Kinnaird	1	....	1
Ladysmith	....	1	1
Lillooet	1	....	1
Lytton	....	1	1
Matsqui	1	....	1
Michel	....	1	1
Midway	1	....	1
Mission City	....	1	1
Carried forward	36	27	63

TABLE No. 6.—SHOWING WHAT DISTRICTS CONTRIBUTED PATIENTS—*Continued.*

Place of Residence.	Male.	Female.	Total.
Brought forward	36	27	63
Nanaimo	....	1	1
Nelson	....	1	1
New Westminster	11	3	14
Penticton	....	1	1
Port Coquitlam	1	....	1
Port Haney	1	....	1
Powell River	2	....	2
Prince George	....	1	1
Prince Rupert	1	....	1
Revelstoke	....	1	1
Saanich	....	1	1
Salmon Arm	1	1	2
Sardis	....	1	1
Squamish	....	2	2
Stewart	1	....	1
Trail	1	1	2
Tranquille	4	....	4
Usk	1	....	1
Vancouver	79	51	130
Vernon	1	2	3
Victoria	5	1	6
Webster's Corners	....	1	1
Totals	145	96	241

TABLE No. 7.—SHOWING THE OCCUPATIONS OF THOSE ADMITTED FROM APRIL 1ST, 1931, TO MARCH 31ST, 1932.

Occupation.	Male.	Female.	Total.
Baker	2	....	2
Broker	2	....	2
Butcher	3	....	3
Carpenter	7	....	7
Cashier	....	3	3
Clerical and office work	19	10	29
Cook	3	....	3
Electrician	3	....	3
Farmer	8	....	8
Fireman	2	....	2
Housewife	....	36	36
Housework	....	7	7
Labourer	16	....	16
Logger	3	....	3
Machinist	4	....	4
Miner	5	....	5
Newsboy	2	....	2
None	5	7	12
Nurse, graduate	....	6	6
Nurse-in-training	....	7	7
Painter	3	....	3
Physician	2	....	2
Orderly	3	....	3
Railway-men	7	....	7
Salesmen and agents	8	....	8
Sales clerks	2	3	5
Seamen	2	....	2
Steward	3	....	3
Student	13	7	20
Tailor	2	....	2
Teacher	....	2	2
Miscellaneous	16	8	24
Totals	145	96	241

TABLE No. 8.—SHOWING THE AGES OF THOSE ADMITTED FROM APRIL 1ST, 1931, TO MARCH 31ST, 1932.

Age.	Male.	Female.	Total.
Under 15 years	3	....	3
15 to 20 „	26	23	49
21 „ 25 „	19	34	53
26 „ 30 „	13	14	27
31 „ 35 „	20	14	34
36 „ 40 „	22	7	29
41 „ 45 „	20	1	21
46 „ 50 „	13	2	15
51 „ 55 „	1	1	2
56 „ 60 „	7	....	7
61 65 „	1	....	1
66 „ 70 „	....	....	....
Over 70 „	....	....	....
Totals	145	96	241

TABLE No. 9.—SHOWING ADMISSIONS, DISCHARGES, AND DEATHS FROM APRIL 1ST, 1931, TO MARCH 31ST, 1932.

Month.	Admissions.			Discharges.			Deaths.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
1931.									
April	16	8	24	14	7	21	1	4	5
May	11	8	19	11	6	17	2	1	3
June	9	9	18	11	7	18	1	3	4
July	18	11	29	8	4	12	4	2	6
August	11	5	16	12	3	15	2	1	3
September	14	6	20	12	6	18	4	4	8
October	25	14	39	15	7	22	7	2	9
November	5	6	11	5	2	7	2	1	3
December	10	5	15	5	4	9	2	1	3
1932.									
January	3	5	8	3	5	8	....	1	1
February	14	10	24	15	5	20	....	3	3
March	9	9	18	11	9	20	....	2	2
Totals	145	96	241	122	65	187	25	25	50

TABLE No. 10.—SHOWING CLASSIFICATION OF 237 DISCHARGES DURING 1931–32.

Classification on Admission.	Results.					
	Apparently arrested.	Quiescent.	Improved.	Unimproved.	Died.	Total.
Incipient	9	9	2	1	....	21
Moderately advanced	2	49	4	1	6	62
Far advanced	....	64	21	13	43	141
Miscellaneous	1	1	9	1	1	13
Totals	12	123	36	16	50	237

TABLE No. 11.—AVERAGE LENGTH OF RESIDENCE OF 171 DISCHARGED PATIENTS.

Condition.	Male.	Female.
	Days.	Days.
Apparently arrested	224	1,128
Quiescent	535	550
Improved	575	331

TABLE No. 12.—SHOWING LONGEST AND SHORTEST PERIODS OF RESIDENCE IN 171 DISCHARGES.

Condition.	Longest Period.	Shortest Period.
	Days.	Days.
Apparently arrested	3,092	63
Quiescent	6,649	7
Improved	3,297	10

TABLE No. 13.—SHOWING CLASSIFICATION OF 11 CASES (MISCELLANEOUS) DISCHARGED.

Classification.	Male.	Female.	Total.
Asthma	1	....	1
Bronchial asthma	1	....	1
Bronchiectasis	3	....	3
Keratitis	....	1	1
Infected lung	....	1	1
Lung abscess	1	....	1
Tuberculous adenitis	1	....	1
Tuberculous peritonitis	....	1	1
Tuberculous sacro-iliac	1	....	1
Totals	8	3	11

TABLE No. 14.—SHOWING WORK COMPLETED BY PATIENTS IN OCCUPATIONAL THERAPY CLASSES DURING THE YEAR ENDED MARCH 31ST, 1932.

Reed-work—	
Trays, size 14 by 20	36
Trays, size 12 by 18	52
Trays, size 12 by 12	21
Doll-cradles	28
Flower-baskets	60
Pin-trays	18
Table-lamps	6
Dresser-lamps	5
Flower-vases	16
Pine-needle work—	
Trays, size 12 by 18	7
Sewing-baskets	4

Woodwork—	
Picture-frames	36
Cribbage-boards	16
Tables, small	6
Pine-cone storks	106
Bead-work—	
Bags	16
Watch-fobs	12
Embroidery—	
Table-centres	10
Table-runners	6
Pillow-slips	16
Hand-bags	16
Painted handkerchiefs	209
Painted scarfs	46
Passe-partout work—Pictures framed	200

NOTE.—A sale of work was held in December which netted $110 for the patients; they also had a stall at the Kamloops Fair which brought in $44. Also quite a number of articles are sold from the show-case during the year.

TABLE No. 15.—WEATHER SUMMARY, BEGINNING APRIL 1ST, 1931, AND ENDING MARCH 31ST, 1932.

Month.	Max. Temp.	Min. Temp.	Ave. Temp.	Ave. Hum.	Rainfall.	Snowfall.	Sunshine.
1931.	Deg. F.	Deg. F.	Deg. F.	Deg. F.	Inches.	Inches.	Hours.
April	82	28	51.66	50.10	0.155	*Nil*	201.8
May	85	40	59.75	54.677	0.685	*Nil*	238.6
June	90	44	63.31	62.19	0.945	*Nil*	183.5
July	98	50	70.70	51.38	0.105	*Nil*	342.5
August	92	49	68.34	54.13	0.73	*Nil*	310.9
September	82	38	58.43	64.995	0.40	*Nil*	135.1
October	78	33	47.774	69.032	0.28	*Nil*	173.5
November	69	6	30.999	.....	0.10	7.86	68.3
December	48	— 2	28.82	.....	*Nil*	9.76	46.8
1932.							
January	44	—10	24.24	.....	*Nil*	2.66	81.6
February	61	—16	27.49	.....	*Nil*	3.50	100.9
March	62	13	37.45	.....	0.94	5.20	140.8

Total rainfall during the year, 4.34 inches; total snowfall during the year, 28.98 inches; total sunshine during the year, 2,024.3 hours.

GENERAL WORK DONE IN LABORATORY.

Material examined.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Totals.
Sputum	178	140	150	153	147	138	245	119	131	251	291	285	2,228
Positive	71	61	54	70	60	71	103	58	54	95	78	65	840
Negative	107	79	96	83	87	67	142	61	77	156	173	220	1,388
Urinalysis	36	397	26	23	339	21	57	332	56	33	345	44	1,665
Acid fast bacilli	2	13	2	.....	.....	.....	3	163	33	.....	5	2	223
Positive	.....	2	2	.....	.....	.....	1	32	.....	.....	.....	.....	37
Negative	2	11	.....	.....	.....	.....	2	131	33	.....	5	2	186
Albuminuria	3	24	4	4	22	2	6	27	11	4	22	4	133
Renal functional test	1	.....	.....	.....	1	1	1	.....	.....	3	3	2	12
Blood—													
Erythrocytes	22	26	18	31	16	11	49	11	9	1	1	2	197
Hæmoglobin	22	26	18	31	16	11	49	11	9	1	1	2	197
Leukocytes	23	27	20	32	19	13	49	11	8	.....	.....	3	205
Differential	23	27	20	32	19	13	49	11	8	.....	.....	3	205
Kahn precipitin test	30	20	11	26	22	16	49	23	6	31	23	21	278
Sedimentation	37	22	16	24	29	17	49	21	8	35	24	31	313
Blood-sugar	.....	.....	2	.....	.....	1	.....	.....	.....	.....	.....	1	4
Cerebrospinal fluid	1	1	1	1	.....	1	.....	.....	.....	.....	1	.....	6
Autopsies	.....	.....	.....	1	1	.....	6	.....	2	.....	.....	1	11
Animal inoculation	4	1	2	.....	3	.....	1	.....	3	2	3	.....	19
Animal autopsies	1	5	.....	1	.....	2	1	.....	.....	4	3	2	19
Cultures	19	17	15	11	8	24	10	11	11	21	11	8	166
Bacterial smears	19	28	16	16	8	6	16	13	13	18	13	15	181
Gastric analysis	1	.....	.....	1	1	3	4	13	.....	3	.....	1	27
Pleural fluid	3	6	.....	1	1	2	3	1	1	2	.....	2	22
T.B. positive	1	2	.....	1	1	.....	1	1	1	.....	.....	2	10
T.B. negative	2	4	.....	.....	.....	2	2	.....	.....	2	.....	.....	12
Agglutinations	5	1	3	.....	1	2	.....	2	2	2	.....	2	20
Tissue sections	.....	.....	.....	3	4	.....	20	.....	6	.....	.....	.....	33
Milk bacteriology	4	5	4	4	10	4	5	4	4	4	4	5	57
Milk chemistry	8	10	8	8	5	8	10	8	8	4	4	5	86
Milk sediment	1	3	4	4	5	4	5	4	4	4	4	5	47
Water	1	1	1	5	2	1	1	1	1	1	1	1	17
Miscellaneous	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	2

BURSAR'S REPORT.

TRANQUILLE, B.C., March 31st, 1932.

The Medical Superintendent,
Tranquille Sanatorium, Tranquille, B.C.

SIR,—I have the honour to submit herewith the Balance-sheet and the Profit and Loss Accounts covering the fiscal year ended March 31st, 1932.

As has been invariably the case in past years, our accommodation has been taxed to the utmost during the year just ended. The number of days' treatment given exceeded last year's by slightly over 2,000 days. There has also been a slight acceleration in admissions and discharges, making corresponding increases in the number of patients treated; these figures, in all cases, being somewhat in advance of any previous year.

The gross *per capita* cost per patient per day has been scaled down to $2.60, by comparison with last year's figure of $2.88, up to that time the lowest on record. Every economy consistent with efficiency has been practised, and it is difficult at the time of writing to envision any possibility of further reductions in operating costs. These latter appear to have reached a level which can hardly be lowered without seriously impairing the services of the institution. In the summary of operations shown in Table D of the accompanying statistics it will be seen that the net cost to the Government per patient per annum has been reduced from $1,133.86 in 1928–29 to $671.69 in 1931–32.

Some further relief, however, may be expected from an increase in the revenue owing to the higher assessments now being levied on the cities and municipalities, but only the close of the current fiscal year will show how far our hopes in this direction are justified.

I desire to express my appreciation of your cordial support in the performance of my duties, and of the active co-operation of the department heads and members of the office staff.

I have, etc.,

H. JEFFERIS,
Bursar.

TRANQUILLE SANATORIUM.

BALANCE-SHEET, MARCH 31ST, 1932.

Assets.

Land and improvements	$12,684.05
Buildings	634,176.95
Plant and equipment	148,236.94
Furnishings, linen, bedding, etc.	48,665.15
Inventory	13,731.44
Petty Cash Account	1,500.00
Accounts receivable	15,489.40
	$874,483.93
Cost of operating, 1931–32	261,939.20
	$1,136,423.13

Liabilities.

Government of British Columbia	$1,136,423.13

PROFIT AND LOSS ACCOUNT, MARCH 31ST, 1932.

Salaries	$147,698.21
Office supplies	2,226.58
Travelling and transportation	2,524.46
Fuel, light, and water	49,114.29
Maintenance	10,946.85
Bedding, linen, etc.	4,397.29
Provisions, etc.	74,787.61
Medical and surgical	13,546.14
Incidentals	7,972.39
	$313,213.82
Depreciation—	
Buildings	30,756.05
Plant and equipment	6,974.10
Bedding and linen	2,561.30
	$353,505.27
Revenue—	
Dept. of P. and N.H.	$23,994.17
Municipalities	62,709.20
Patients	3,862.70
Donation, J. B. Greaves Estate	1,000.00
	$91,566.07
Net operating expenses	261,939.20
	$353,505.27

SUMMARY OF PROFIT AND LOSS ACCOUNT, 1931–32.

		Yearly *Per Capita.*
Salaries	$147,698.21	$447.65
Office supplies	2,226.58	6.73
Travel and transportation	2,524.46	7.64
Fuel, light, and water	49,114.29	148.82
Maintenance	10,946.85	33.16
Bedding, linen, etc.	4,397.29	13.32
Provisions	74,787.61	226.62
Medical and surgical	13,546.14	41.04
Incidentals	7,972.39	24.15
	$313,213.82	$949.13
Less revenue	91,556.07	277.44
Net cost of operating	$221,657.75	$671.69
Depreciation (plant, building, and fixtures)	40,291.45	122.09
	$261,949.20	$793.78

Remarks.

No. of days' treatment given during year 1931–32	120,654
No. of patients in residence, March 31st, 1931	327
Daily average population for year ended March 31st, 1932	330
Gross maintenance *per capita* cost, 1 year	$949.13
Gross maintenance *per capita* cost, 1 day	2.60
Net maintenance *per capita* cost, 1 year	671.69
Net maintenance *per capita* cost, 1 day	1.84

FINANCIAL TABLES.

TABLE A.—SHOWING THE AVERAGE NUMBER OF PATIENTS IN RESIDENCE EACH YEAR, THE TOTAL AMOUNTS SPENT FOR MAINTENANCE, AND THE GROSS PER CAPITA COST.

Year.	Average Number in Residence.	Maintenance Expenses.	*Per Capita* Cost.
1921–22	190.04	$271,730.08	$1,429.85
1922–23	194.46	284,019.31	1,460.55
1923–24	207.15	312,065.72	1,506.46
1924–25	221.21	300,350.00	1,357.75
1925–26	224.00	293,980.72	1,312.44
1926–27	223.00	308,194.82	1,382.04
1927–28	216.00	294,674.82	1,364.24
1928–29	214.31	299,621.79	1,400.10
1929–30	293.00	347,939.58	1,187.51
1930–31	325.00	342,120.06	1,052.67
1931–32	330.00	313,213.82	949.13

TABLE B.—SHOWING ANALYSIS OF GROSS PER CAPITA COST.

Year.	Salaries.	Office Supplies.	Travelling and Transportation.	Fuel, Light, Water, and Power.	Maintenance and Repairs.	Furniture and Fixtures.	Provisions.	Medical and Surgical Supplies.	Incidentals.	Total Gross.
1921–22	$439.59	$9.01	$20.56	$225.14	$138.43	$57.79	$421.96	$28.37	$72.06	$1,429.85
1922–23	482.22	8.09	11.32	232.81	133.03	66.89	472.17	13.07	28.46	1,460.55
1923–24	479.85	7.46	9.42	243.48	85.77	13.70	441.26	39.95	65.76	1,506.46
1924–25	467.52	6.01	11.93	211.11	70.55	25.78	288.86	26.17	33.05	1,357.75
1925–26	479.75	8.97	8.09	189.92	68.62	6.62	392.98	34.68	19.31	1,312.44
1926–27	501.57	9.51	14.81	173.22	65.85	33.96	426.23	39.32	12.36	1,382.04
1927–28	554.98	10.32	11.89	169.48	64.20	34.93	448.96	53.82	15.65	1,364.24
1928–29	603.51	9.67	12.60	190.78	82.77	24.66	421.89	42.95	11.27	1,400.10
1929–30	544.63	10.21	8.78	157.94	62.23	.92	338.82	50.34	13.64	1,187.51
1930–31	484.06	8.09	6.52	132.71	48.92	14.23	297.72	44.93	15.69	1,052.67
1931–32	447.65	6.73	7.64	148.82	33.16	13.32	226.62	41.04	24.15	949.13

TABLE C.—SHOWING GROSS EXPENDITURES IN PROFIT AND LOSS ACCOUNTS ANALYSED UNDER ITS DIFFERENT HEADINGS.

Year.	Insurance.	Salaries.	Office Supplies.	Travelling and Transportation.	Fuel, Water, Light, and Power.	Janitors' Supplies and Maintenance.	Furnishings, Linen, etc.	Provisions.	Medical and Surgical Supplies.	Incidentals and Unforeseen.	Total.
1921–22	$3,222.69	$83,537.76	$1,713.14	$3,906.79	$42,785.73	$26,306.16	$10,982.78	$80,189.90	$5,391.16	$13,693.07	$271,730.08
1922–23	2,428.62	93,772.68	1,572.35	2,206.06	45,272.71	25,868.26	13,008.74	91,817.67	2,541.89	5,534.33	284,019.31
1923–24	24,819.26	99,400.17	1,545.66	1,952.17	50,436.74	17,767.20	2,837.67	91,407.31	8,276.71	13,662.83	312,065.72
1924–25	25,832.65	103,420.23	1,329.97	2,639.11	46,700.05	15,607.78	5,702.59	86,016.60	5,788.98	7,312.21	300,350.17
1925–26	23,189.10	107,464.34	2,008.04	1,811.63	42,541.98	15,368.15	1,481.87	88,020.94	7,770.12	4,324.35	293,980.72
1926–27	23,462.52	111,849.59	2,121.47	3,302.55	38,626.74	14,684.17	7,573.66	95,050.92	8,766.89	2,756.31	308,194.82
1927–28	.....	119,876.18	2,228.64	2,569.15	36,608.02	13,865.61	7,544.09	96,977.65	11,624.60	3,380.88	294,674.82
1928–29	.....	129,152.07	2,066.48	2,695.88	40,827.30	17,713.15	5,278.18	90,284.91	9,191.17	2,412.65	299,621.79
1929–30	.....	159,576.74	2,990.38	2,572.81	46,278.46	18,235.77	268.57	99,273.19	14,749.34	3,994.32	347,939.58
1930–31	.....	157,319.27	2,627.69	2,054.53	43,130.67	15,898.79	4,625.37	96,758.11	14,604.17	5,101.46	342,120.06
1931–32	.....	147,698.21	2,226.58	2,524.46	49,114.29	10,946.85	4,697.29	74,787.61	13,546.14	7,972.39	313,213.82

TABLE D.—SHOWING SUMMARY OF OPERATIONS WITH REFERENCE TO PER CAPITA COST.

Year.	Number of Patients treated.	Average Population.	Total Patient-days.	Revenue from Maintenance of Patients.	Revenue from Donations.	Total Maintenance Expenses.	Gross Yearly *Per Capita.*	Net Yearly *Per Capita.*	Gross Daily *Per Capita.*	Net Daily *Per Capita.*
1921–22	389	190.04	69,365	$173,295.98	$8,200.00	$271,730.08	$1,429.85	$474.81	$3.91	$1.30
1922–23	372	194.46	70,978	145,701.68	4,200.00	284,019.31	1,460.55	689.69	4.00	1.89
1923–24	425	207.15	75,819	107,428.18	70,500.00	312,065.72	1,506.46	647.53	4.11	1.77
1924–25	407	221.21	80,753	98,311.08	2,000.00	300,350.17	1,357.75	904.29	3.71	2.47
1925–26	382	224.00	81,775	83,809.76	1,000.00	293,980.72	1,312.44	933.82	3.59	2.56
1926–27	368	223.00	81,422	63,641.92	2,750.00	308,194.82	1,382.04	1,084.31	3.79	2.96
1927–28	383	216.00	77,770	60,256.53	2,005.00	294,674.82	1,364.24	1,075.99	3.72	2.94
1928–29	434	214.31	78,225	56,974.75	.....	299,621.79	1,400.10	1,133.86	3.83	3.11
1929–30	550	293.00	107,174	79,995.41	1,500.00	347,939.58	1,187.51	909.37	3.25	2.49
1930–31	562	325.09	118,558	84,466.98	950.00	342,120.06	1,052.67	789.86	2.88	2.16
1931–32	568	330.00	120,654	90,556.07	1,000.00	313,213.82	949.13	671.69	2.60	1.84

TABLE E.—SUMMARY OF LAUNDRY-WORK, APRIL 1ST, 1931, TO MARCH 31ST, 1932.

Month.	Personal.	Flat-work.	Total.	Value of Work done.
1931.				
April	17,006	48,848	65,854	$3,556.42
May	15,817	48,194	64,011	3,508.18
June	18,587	49,657	68,244	3,866.61
July	16,971	49,831	66,802	3,654.92
August	16,443	47,859	64,302	3,440.80
September	17,382	50,842	68,224	3,748.16
October	16,419	51,845	68,264	3,590.42
November	16,692	48,247	64,939	3,360.76
December	17,284	50,219	67,503	3,644.00
1932.				
January	15,063	46,560	61,623	3,194.54
February	16,424	45,448	61,872	3,364.54
March	17,811	52,442	70,253	3,828.90
Totals	201,899	589,992	791,891	$42,758.25

Flat-work, 589,992; personal, 201,899; total, 791,891.

SANATORIUM FARM REPORT.

TRANQUILLE, B.C., March 31st, 1932.

The Medical Superintendent,
Tranquille Sanatorium, Tranquille, B.C.

SIR,—I have the honour to submit herewith my report of the operations of Tranquille Sanatorium Farm for the year ended March 31st, 1932.

It has been a very busy year on the farm owing to the increase in the amount of stock, the preparation of 15 additional acres for cultivation, the necessity of building new corrals, additional fencing, etc.

The meadow-hay crop was light on account of low water. The alfalfa-crop was also light on account of a very hot summer and the lowering of the water in the storage-lakes at an earlier date than usual. This has resulted in the necessity of feeding all hay grown and we will have none to carry over to next season.

These conditions will be remedied in another year by increased acreage under alfalfa, and also by a greatly increased storage capacity for irrigation-water.

A large storage-basin on Tranquille Creek west of Tranquille Lake has been discovered. The outlet is very suitable for the building of a dam. A wagon-road has been cut through the woods to this site and the slashing and clearing around the site of the new dam all completed. During the summer the dam will be built. There will be two metal flumes set in concrete collars with metal gates for controlling the flow of water. The soil to be used in the construction of the dam proper is particularly suitable, being a heavy clay which seems to be impervious to water, and which is very hard when dried. The dam when completed will be 17 feet high, 80 feet thick, and 330 feet long at the top.

Since coming here I have brought over 30 acres, which was lying idle, under cultivation. With this acreage and the greatly increased water-supply, there should be an abundance of hay in the future.

The Hudson Bay lots have just been acquired under lease and will give us over 1,000 acres of additional bottom land for cutting meadow-hay and good winter pasturage. This is absolutely necessary to us if we are to allow the range herd to increase to about 1,000 head as we hope to do.

All water-holes on the leased range have now been fenced off and large troughs placed beside them. In this way the watering of the increased herd can be easily taken care of.

The new fencing has all been done with cedar posts and droppers, using four or five strands of barbed wire. The cost of this work has been surprisingly small and the result very gratifying. All fences now have a very substantial and neat appearance.

The swine have done exceptionally well and favourable comments from experts familiar with conditions throughout Canada have been encouraging. Mr. Baker, who has charge of the department, deserves a great deal of credit for the splendid showing being made. A new pen suitable for use as winter quarters for the breeding sows was built and found very helpful. We can now rear 600 or 700 pigs annually and supply the Sanatorium with all pork products. We also have a surplus of by-products which we have been able to dispose of to other Government institutions and camps.

The herd of pure-bred Hereford cattle purchased last year has wintered satisfactorily and the young stock born on our farm here are looking very promising. There are several fine-looking young bulls amongst this lot and we should be able to raise all our own bulls for the range herd from now on.

We turned out 681 range cattle this spring and have supplied all beef to the Sanatorium since the autumn of 1929. I would suggest that we dispose of all off-colour stock this fall if there is a fair market for it. We can improve the herd by doing this and still be able to produce more beef than the Sanatorium can use.

The dairy herd continues to improve in type and average production. We are supplying the Sanatorium with certified milk and have no difficulty in keeping the bacterial count at a very low level. We have a good supply of promising-looking heifers coming along to take the places of the older cows, a few of which have to be replaced every year. With a better market we should be able to dispose of several good heifers advantageously.

Allow me to express my appreciation of your interest and encouragement in the successful operation of the farm.

I have, etc.,

W. JACKSON,
Farm Manager.

BURSAR'S REPORT, TRANQUILLE SANATORIUM FARM.

BALANCE-SHEET, MARCH 31ST, 1932.

Assets.

Buildings and improvements	$105,511.18
Equipment	5,243.82
Land	70,405.88
Automobile Account	850.00
Accounts receivable	602.34
Dam Account	421.72
Petty cash	500.00
Inventory	71,024.23
	$254,559.17

Liabilities.

Capital balance	$252,215.60
Operating profit, 1931–32	2,343.57
	$254,559.17

PROFIT AND LOSS ACCOUNT, MARCH 31ST, 1932.

Expenditure.

Salaries	$19,220.01
Office supplies	35.65
Travel, tractors and automobile	1,945.94
Fuel and light	1,135.03
Maintenance and janitors' supplies	1,793.68
Feed	15,312.73
Provisions	4,083.44
Leases	349.56
Seeds	12.11
Blacksmith's supplies	35.63
Implements and harness	112.07
Drugs and veterinary	122.67
Incidentals	282.08
Boarding-house	587.62
Depreciation	805.45
	$45,833.70
Net operating profit	2,343.57
	$48,177.27

Receipts.

Live stock and products	$16,279.87
Milk-sales	24,415.75
Garden produce	1,144.49
Swine and products	6,337.16
	$48,177.27

TABLE SHOWING FINANCIAL RESULTS.

Year.	Profit.	Deficit.
1922	$2,282.42	.....
1923	.....	$13,785.66
1924	.....	22,023.05
1925	2,597.03	.....
1926	.....	3,655.69
1927	.....	4,524.03
1928	.....	9,629.12
1929	.....	15,411.51
1930	.....	34,270.93
1931	.....	2,507.95
1932	2,343.57	.....

NOTE.—Excessive loss in 1930 due to revaluation of inventory. Live stock and implements appraised at market values.

SUMMARY OF FARM PRODUCTION FOR FISCAL YEAR 1931–32.

Alfalfa, 230 tons at $9	$2,070.00
Meadow-hay, 155 tons at $5	775.00
Green feed, 378 tons at $5	1,890.00
Corn ensilage, 415 tons at $5	2,075.00
Mangels, 100 tons at $5	500.00
Potatoes, 40 tons at $10	400.00
Potatoes, 1 ton at $25	25.00
Carried forward	$7,735.00

SUMMARY OF FARM PRODUCTION FOR FISCAL YEAR 1931–32—*Continued.*

Brought forward	$7,735.00
Onions, 6 tons at $20	120.00
Carrots, 6 tons at $20	120.00
Beets, 4 tons at $20	80.00
Lettuce, 23 crates at $1	23.00
Vegetable marrow, 2,320 lb. at 2½ cents	58.00
Spinach, 100 lb. at 3 cents	3.00
Turnips, 3½ tons at $40	140.00
Parsnips, 1,388 lb. at 1½ cents	20.82
Corn, 78 dozen at 20 cents	15.60
Apples, 130 boxes at $1	130.00
Rhubarb, 210 lb. at 2½ cents	5.25
Greengages, 214 lb. at 2 cents	4.28
Citron, 945 lb. at 1 cent	9.45
Pears, 63 boxes at $1.25	78.75
Honey, 115 lb. at 16 cents	18.40
	$8,561.55

Sundries sold to Sanatorium.

Beef and beef products, 51,347 lb. at 9 cents	$4,621.23
Pork, 14,413 lb. at 12 cents	1,729.56
Ham, 7,848 lb. at 21 cents	1,648.08
Bacon, 8,754 lb. at 23 cents	2,013.42
Sausage, 5,237 lb. at 20 cents	1,047.40
Lard, 4,237 lb. at 10 cents	423.70
Sundries sold to Provincial Home, camps, etc.	562.68
	$12,046.07

Milk produced from Dairy Herd.

Milk, 79,384.3 gallons at 40 cents	31,753.90
	$43,799.97

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