

## **Annual report of the Department of Public Health, Province of Alberta.**

### **Contributors**

Alberta. Department of Public Health.

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36(k)



ANNUAL REPORT  
OF THE  
**Department of Public Health**  
PROVINCE OF ALBERTA  
INCLUDING  
**Vital Statistics Branch**  
**1943**

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PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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EDMONTON  
PRINTED BY A. SHNITKA, KING'S PRINTER  
1945

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Edmonton, December 20, 1944.

TO HIS HONOUR,

J. C. BOWEN,

*Lieutenant Governor of the Province of Alberta.*

SIR:

I have the honour to transmit herewith the Annual Report of the Department of Public Health for the year 1943.

I have the honour to be, Sir,

Your obedient servant,

WALLACE WARREN CROSS,

*Minister of Health.*

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Edmonton, December 20, 1944.

TO THE HONOURABLE DR. W. W. CROSS,  
*Minister of Health,*  
Administration Building, Edmonton, Alberta.


SIR:

I have the honour to submit herewith the Twenty-fifth Annual Report of the Department of Health.

I have the honour to be, Sir,

Your obedient servant,  
MALCOLM R. BOW, B.A., M.D., C.M., D.P.H.,  
*Deputy Minister.*





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TWENTY-FIFTH ANNUAL REPORT OF THE  
PROVINCIAL DEPARTMENT OF PUBLIC HEALTH  
INCLUDING THE VITAL STATISTICS BRANCH

THE DEPARTMENT

*Divisions:*

1. Communicable Diseases.
2. Public Health Education.
3. Hospital Inspection.
4. Laboratory.
5. Public Health Nursing.
6. Municipal Hospitals.
7. Social Hygiene.
8. Sanitary Engineering and Sanitation.
9. Dental Hygiene.
10. Cancer Services.
11. Mental Health.
12. Institutions: Provincial Mental Hospital, Ponoka.  
Provincial Auxiliary Hospital, Claresholm.  
Provincial Auxiliary Hospital, Raymond.  
Provincial Mental Institute, Oliver.  
Provincial Training School, Red Deer.
13. Tuberculosis Control and the Central Alberta Sanatorium, Calgary.
14. Child Welfare.
15. Vital Statistics.

A report giving a summary of the work of each of these Divisions is included herewith.

PROVINCIAL BOARD OF HEALTH

Five meetings of the Provincial Board of Health were held during the year.

REGULATIONS PASSED DURING THE YEAR

No regulations were passed this year.

LEGISLATION PASSED DURING THE YEAR

No legislation affecting our Department was passed this year.

## DEPARTMENT OF PUBLIC HEALTH

 DEPARTMENT OF PUBLIC HEALTH  
 REVENUE AND EXPENDITURE FOR THE FISCAL YEAR ENDED  
 MARCH 31, 1944

	Salaries	Expenses.	Revenue
1. 605 Communicable Diseases .....	\$ 2,749.33	\$ 42,546.50	\$ 1,905.55
2. 605 Public Health Education ....	3,018.36	860.32	.....
3. 603 Hospital Inspection .....	3,632.07	1,258.49	213.00
603 Grants .....	.....	555,334.50	.....
4. 626 Laboratory .....	.....	4,750.00	.....
5. 606 Public Health Nursing .....	62,619.71	18,490.14	11,525.10
621 Travelling Clinic .....	.....	.....	53.25
6. 608 Municipal Hospitals .....	3,198.30	1,318.94	.....
7. 610 Social Hygiene .....	15,931.83	15,613.41	.....
8. 605 Sanitary Engineering and Sanitation .....	8,225.95	3,841.80	1,765.85
9. 621 Dental Hygiene .....	.....	.....	.....
10. 622 Mental Hygiene .....	4,585.60	6,019.80	.....
11. 633 Cancer Treatment and Pre- vention .....	13,857.87	55,406.28	.....
609 Insulin .....	.....	10,080.47	.....
611 Grants to Homes .....	.....	2,962.50	.....
605 Full-Time Health Districts ...	.....	40,750.00	.....
631 Poliomyelitis .....	348.00	12,473.29	.....
SW No. 14 Civil Service Nurse Administration .....	966.52	350.74	.....
	22,243.13	3,373.39	942.50
<b>Institutions:</b>			
12. 612-1.) .....			
613-2.) Prov. Mental Institute, Oliver .....	166,658.21	95,609.81	76,500.83
612-2. Provincial Training School, Red Deer .....	82,510.45	40,227.12	64,007.15
612-3.) .....			
613-1.) Prov. Mental Hospital, Ponoka .....	315,521.41	166,473.31	174,338.06
612-4. Prov. Mental Auxillary Hospital, Claresholm ....	15,939.52	13,240.22	7,544.63
612-5. Prov. Mental Auxillary Hospital, Raymond .....	17,068.63	12,453.90	6,452.58
13. 604 Tuberculosis Control and Central Alberta Sanator- ium, Calgary .....	157,227.18	267,612.16	92,092.47
619 University of Alberta Hos- pital .....	.....	20,000.00	.....
	\$ 896,302.07	\$1,391,047.09	\$437,340.97
14. 627-28 Child Welfare .....	16,412.68	67,605.88	41,883.70
15. 607 Vital Statistics .....	31,143.22	6,905.86	70,663.14
	\$ 943,857.97	\$1,465,558.83	\$549,887.81
Total Expenditure: Public Health Depart- ment .....	\$2,409,416.80		
Less: Expenditure Child Welfare Branch	84,018.56		
	\$2,325,398.24		
Less: Public Health Revenue .....	549,887.81		
Net Expenditure: Public Health Depart- ment .....	\$1,775,510.43		

## VITAL STATISTICS

Vital Statistics registered during the year were as follows:

Births .....	19,290
Marriages .....	7,771
Deaths .....	6,524

In all cases in which rates are shown, these are based on an estimated population of 792,000. In the following table the number of births and the birth rate, the number of marriages and the marriage rate, and the number of deaths and the death rate, are shown for each of the years from 1938 to 1943:

Year	No. of Births	Birth Rate	No. of Marriages	Marriage Rate	No. of Deaths	Death Rate
1938 .....	15,891	20.30	6,973	8.90	5,871	7.50
1939 .....	16,470	20.90	7,838	9.90	5,789	7.30
1940 .....	17,359	21.84	8,782	11.00	6,203	7.80
1941 .....	17,308	21.70	8,470	10.70	6,385	8.10
1942 .....	18,317	22.70	9,037	11.20	6,091	7.50
1943 .....	19,290	24.30	7,771	9.80	6,524	8.20



The birth rate for 1943 is 24.3, as compared with 22.7 for 1942. The marriage rate for 1943 is 9.8, as compared with 11.2 for 1942. The death rate for 1943 is 8.2, as compared with 7.5 for 1942.

*General Health Conditions.*

The deaths of 6,524 persons were registered in Alberta in 1943. Of this number 3,999 were males and 2,525 were females, or 433 more than the number of deaths registered in the previous year. There were 407 deaths from Pneumonia in 1943, an increase of 72 over the previous year, and 153 deaths occurred from Influenza, an increase of 78 over the previous year. Deaths from Pulmonary Tuberculosis numbered 224 in 1943, as compared with 214 the previous year. The chief cause of death is heart disease, 1,550 deaths having been registered as due to this cause, giving a rate of 194 per 100,000 population, as compared with 184 the previous year. Deaths from Cancer registered in 1943 numbered 748 — a rate of 94 per 100,000 population, as compared with 784 deaths from this cause and a rate of 97 in 1942. Deaths from violence, excluding suicide, numbered 588, as compared with 483 for 1942, the respective rates being 73 and 59.

The infantile mortality rate in 1943 is 42, as compared with 38 for 1942. Special reference to the infantile death rate is made in another section of this report.

The maternal mortality rate for 1943 is 2.7, as compared with 2.3 for 1942. The deaths due to conditions associated with pregnancy numbered 52, as compared with 43 for the previous year, an increase of 20.9%.

Twelve deaths were reported as due to Whooping Cough in 1943, as compared with the same number of deaths from this cause in 1942. Of these twelve deaths, seven were infants under one year of age. Whooping Cough is one of the most serious diseases of childhood and all children should be immunized against it. The vaccine required for this purpose is furnished free of charge by the Department to physicians and health authorities.

There were 4,478 cases of Measles, with 19 deaths, and 551 cases of Rubella, with no deaths, reported in 1943. Detailed reports in regard to Measles and Rubella will be found in the report of the Communicable Diseases Division.

The combined death rate (deaths per 100,000 population) for Diphtheria, Scarlet Fever, Measles and Whooping Cough is 6.2, as compared with 4.5 for 1942. The increase is largely due to the increased number of deaths from Measles.

There were 46 cases of Diphtheria, with 11 deaths, reported in 1943, as compared with 58 cases and 11 deaths in 1942. Of the 46 cases reported in 1943, 20 were reported by cities, 13 by towns and villages and 13 by rural districts. The death rate for Diphtheria in 1943 is 1.4, the same as the rate for the previous year. Diphtheria is an entirely preventable disease and there should not be a single death from this cause. Diphtheria Toxoid, which is used for immunization of children is supplied



free of charge by the Department to physicians, local health authorities and local school authorities. While full advantage has been taken by many districts of this service, there are still a number of areas in the province in which little has been done to protect pre-school and school children from this highly dangerous disease.

In 1943, 1,983 children in 69 outlying districts were immunized against Diphtheria by a qualified Health Inspector on the Departmental staff, part of whose time is devoted to this service.

Only two cases of Smallpox were reported in 1943. Surveys made by the Department in previous years indicate that there are many areas in the province in which not more than one third of the pre-school and school children are vaccinated against Smallpox. Such a situation is a dangerous one from the public health point of view. Should Smallpox occur in such communities, it would be almost certain to spread with great rapidity. Should the outbreak be of the malignant type of Smallpox, the results would be tragic. I would again emphasize the importance of vaccinating children against Smallpox, if possible, within the first six months of life. Vaccination should be repeated when the child enters school and need not again be done, unless on exposure to Smallpox in after years. Smallpox vaccine is supplied free of charge by the Department to physicians, local boards of health and school boards.

In 1943, 2,047 persons, in 69 outlying areas, were vaccinated against Smallpox by the Health Inspector in charge of this work. These outlying areas are much better protected against Diphtheria and Smallpox than many of the well settled areas of the province.

In 1943, 1,676 cases of Scarlet Fever, with 7 deaths, were reported, as compared with 2,265 cases and 11 deaths in 1942. Most of the cases were of the mild type but even in the mild type complications occur and it is always important to bear in mind that Scarlet Fever is a serious disease. The more promptly the disease is recognized and treated, the better for the patient and the community. The following is a summary of the Scarlet Fever cases reported in 1943:

Under one year .....	6
1 to 4 years .....	192
5 to 14 years .....	645
15 to 19 years .....	209
20 or over .....	577
Age not stated .....	47
<b>Total</b> .....	<b>1,676</b>
Cases reported by cities .....	1,161
Cases reported by towns and villages .....	191
Cases reported by rural districts .....	324

There were 11 cases of Typhoid Fever and 9 cases of Paratyphoid Fever reported in 1943, as compared with 18 cases and 9 cases respectively in 1942. One death occurred from Typhoid Fever in 1943. The Typhoid death rate for 1943 is .1, which is the same as the rate for 1942, and is the lowest recorded in the province.

I wish to again direct attention to the important role played by Typhoid carriers in the spread of this infection. Careful



supervision and control of such carriers is essential in order to ensure that they do not become factors in the spread of infection. The co-operation of local health authorities with the Department is essential in the investigation of sources of infection, and also in the supervision and control of carriers. Constant vigilance in the supervision of local water, milk and food supplies is required. Pasteurization of milk and milk products carried out under proper supervision is a most effective means of safeguarding such products. It is gratifying to note the increased number of pasteurizing plants in operation in the towns of the province. Pasteurization provides protection, not only against Typhoid Fever, but other milk-borne diseases as well.

*Rocky Mountain Spotted Fever and Sylvatic Plague Survey.*

Mr. J. H. Brown, M.Sc., again had charge of the Rocky Mountain Spotted Fever and Sylvatic Plague Survey, directing one crew in the field. The main work of the Survey crew in 1943 was to supervise infected areas and to make a check on suspected areas.

During the early part of May, at the request of the Department of National Defence, arrangements were made to train three Royal Canadian Army Medical Corps crews in the procedure to be followed in carrying on field work. These crews were subsequently assigned, one to each of three provinces, for the purpose of conducting surveys in areas in which military camps and prisoner-of-war establishments are located.

Considerable time was spent in a study of the Tularaemia situation in Alberta. During the summer arrangements were made to enable the Survey crew to visit the Rocky Mountain Laboratory of the United States Public Health Service at Hamilton, Montana. All of the facilities of the Laboratory were put at the disposal of our Survey crew and every opportunity given to study the work which has been carried on in the Laboratory in connection with Rocky Mountain Spotted Fever, Tularaemia, and other diseases transmitted by ticks. Our grateful appreciation is extended to Dr. R. R. Parker, Director of the Laboratory, and his staff for the many courtesies extended to this Department over a long period of time.

One case of Rocky Mountain Spotted Fever occurred in 1943. The patient was an elderly farmer living east of Orion. The patient was admitted to the Medicine Hat General Hospital and the diagnosis established. The patient made a good recovery and was discharged from the hospital in July.

As in previous years, arrangements were made by the Department to vaccinate all persons desiring to be protected against Rocky Mountain Spotted Fever in the Manyberries District. Two hundred persons took advantage of the opportunity.

One case of Tularaemia occurred during the early spring and was traced to the handling of muskrat.

The survey crew this year devoted considerable time to the making of gopher population studies.



## COLLECTIONS

*Rocky Mountain Spotted Fever:*

The following table lists the ticks collected by the survey crew in 1943:

Source	Number of Hosts*	Nymph	Adult	Total
R. G. S.* .....	116	17	....	17
Jackrabbit .....	2	....	11	11
Drag Ticks .....	...	....	4	4
Total .....	118	17	15	32

\*Richardson Ground Squirrel (gopher).

Negative reports were submitted on all specimens forwarded to the Laboratory.

*Sylvatic Plague:*

There were 327 Richardson Ground Squirrels examined, yielding 340 fleas in 13 pools. Twelve pools of tissue, totalling 20 samples, were also collected and forwarded to the Laboratory. Negative reports were submitted by the Laboratory on all specimens.

Educational work was carried on along the same lines as in previous years. Addresses were given by Mr. Brown at Field Days in various parts of the province and bulletins issued by the Department on Rocky Mountain Spotted Fever and Sylvatic Plague were widely distributed.

The assistance of the Department of Pensions and National Health in providing the laboratory service so essential in this work is gratefully acknowledged.

Noteworthy results have been obtained since this work was undertaken in 1938. It is important that this work be continued and that an active educational campaign be carried on throughout the areas in which infection has been found in order that the residents of these areas and the public generally may be fully informed concerning the nature of these infections.

*Poliomyelitis.*

In 1923, 24 cases of Poliomyelitis were reported and no deaths occurred from this cause.

Under the provision made for free treatment of Paralysis due to Poliomyelitis, 45 patients were admitted to the University Hospital, one to the General Hospital, Edmonton, and 3 to the Junior Red Cross Hospital in Calgary.

Assistance was extended by the Department to enable 17 patients to complete academic and secretarial courses.

*Influenza and Pneumonia.*

One hundred and fifty-three deaths occurred from Influenza in 1943, as compared with 75 deaths from this cause in 1942, 407 deaths occurred from Pneumonia in 1943, as compared with 335 in 1942. Influenza and Pneumonia together accounted for 560 deaths, or 8.6% of the deaths registered from all causes in 1943. There were 150 more deaths from Influenza and Pneumonia registered in 1943, than in 1942.



Early diagnosis and prompt treatment with drugs now available, and early administration of typed Pneumonia serum in cases in which this is indicated, is essential if further improvement in the death rate from Pneumonia is to be obtained.

#### *Tuberculosis.*

During 1943, 294 deaths were reported from Tuberculosis, as compared with 271 deaths in 1942. The death rate for all forms of Tuberculosis, including deaths occurring among the Indian and Metis population, is 37.1 (per 100,000 population) in 1943, as compared with 33.4 in 1942. The total deaths from all forms of Tuberculosis, excluding deaths occurring in the Indian and Metis population numbered 142 in 1943, which is the same as the number reported in 1942, giving a death rate of 18.2 (per 100,000 population).

#### *Diseases of the Heart and Circulatory System.*

Diseases of the heart accounted for 1,550 deaths in 1943, as compared with 1,483 deaths in 1942. These 1,550 deaths represent 23.8% of the deaths from all causes reported for the year, giving a death rate of 194 (per 100,000 population) as compared with 184.2 in 1942.

Diseases of the arteries were reported as the cause of 116 deaths in 1943, as compared with 97 in 1942.

I wish to point out that with the ageing of our population there has been a steady rise in the number of deaths due to diseases of the heart and circulatory system. Included in these deaths are many which can be classified as preventable. Periodic medical examinations would detect many of these conditions in the early stages and thus enable persons showing evidence of such conditions to regulate their lives according to the advice of competent physicians. Periodic medical examinations of children and adults would reveal foci of infection which are in many cases factors in the development of diseases of the heart and arteries.

#### *Cancer.*

The deaths registered as due to Cancer number 748 in 1943, a decrease of 36 over the previous year. The death rate from Cancer in 1943 is 94 (per 100,000 population) as compared with 97 in 1942.

The trend in the Cancer death rate is upward. Cancer occupies second place in the list of causes of death and in 1943 accounted for 11.5% of the total deaths registered in the province from all causes. I wish to again emphasize the great importance of early recognition and prompt treatment in Cancer. It has been stated by authorities that the death rate from Cancer could be reduced by one half if early recognition and prompt treatment were the rule rather than the exception. Educational work has been carried on along the same lines as in previous years, in co-operation with the Alberta Branch of the Canadian Society for the Control of Cancer, and the Alberta Division of the Canadian Medical Association.



The two Cancer Diagnostic Clinics, one in Edmonton and the other in Calgary, were busy during the year. In addition to the diagnostic services provided by these Clinics, X-ray and radium treatment, and surgical treatment were authorized for such patients as in the opinion of the Clinic staff would be likely to benefit by such treatment. During the year provision was made for hospital care where in the opinion of the Cancer Clinic admission of a patient to hospital is necessary for the purpose of establishing a diagnosis. Hospitalization is provided for such period of time, not exceeding 14 days, as may be required to establish a diagnosis.

The following is a brief summary of the work done by the Diagnostic Clinics in 1943:

Edmonton Clinic:		
Examinations of new patients .....	1,046	
Re-examinations .....	714	
	<hr/>	1,760
Calgary Clinic:		
Examinations of new patients .....	624	
Re-examinations .....	249	
	<hr/>	873
Both Clinics, Total .....		<hr/> 2,633

Of the new patients examined at the Clinics 61.2% were found to be suffering from some type of Cancer.

There were 472 patients referred for diagnosis by X-ray, 541 patients were given radium or X-ray treatments, and 349 patients were referred for surgical treatment.

#### *Deaths Due to Violence.*

Deaths reported as due to violence (excluding suicides) numbered 587 in 1943, as compared with 483 in 1942, representing 9% of the total deaths registered in the province for the year and giving a death rate of 74 (per 100,000 population) as compared with 60 for 1942.

There were 79 suicides in 1943, as compared with 86 in 1942.

Highway accidents accounted for 107 deaths, of which 84 were due to automobile accidents, an increase of 36 in the number reported for the previous year. Practically all the deaths and the injuries sustained in automobile accidents are preventable. As will be noted from these statistics, highway accidents constitute one of our important causes of death and one which should give us serious concern.

There were 43 deaths reported from drowning in 1943, as compared with 52 deaths from this cause in 1942. Almost all such deaths are preventable but there is still much to be done before the public appreciates how serious are the hazards connected with swimming and the use of boats, canoes and other water craft.

I desire to call attention to the number of deaths due to destruction of homes by fire, in which, in most cases, parents, while absent from the home, have left young children to their own resources. More than one case is on record in this province in which several children have lost their lives. It would appear that legislation is necessary for the protection of children from this menace.



In the following table the deaths due to violence are classified:

Suicides .....	79	Accidental drowning .....	42
Homicides .....	6	Accidental injury by firearms ....	15
Railway accidents excluding motor vehicles .....	16	Accidental injury by cutting or piecing instruments .....	1
Motor vehicle accidents .....	84	Accidental injury by fall or crushing	84
Street car and other transport accidents .....	23	Injury by animals .....	4
Water transport .....	9	Hunger or thirst .....	1
Air transport .....	102	Excessive cold .....	12
Accidents in mines and quarries.	27	Excessive heat .....	1
Agriculture and forestry .....	52	Lightning .....	1
Other accidents involving machinery .....	8	Accidents due to electric currents..	1
Food poisoning .....	..	Attack by venomous animals .....	..
Accidental absorption of poison- ous gas .....	13	Other accidents .....	20
Acute accidental poisoning of solids or liquids .....	8	Deaths of persons in military ser- vice during operations of war ..	..
Conflagration .....	25	Deaths of civilians due to opera- tions of war .....	..
Accidental burns (conflagration excepted) .....	16	Legal executions .....	..
Accidental mechanical suffoca- tion .....	16		66 <sup>e</sup>

### *Infantile Mortality.*

There were 810 deaths of children under one year of age registered in 1943, as compared with 696 such deaths in 1942, an increase of 114 deaths.

The infantile mortality rate for 1943 is 42, as compared with 38 for 1942.

I desire to again direct attention to the higher death rate among children residing in the rural districts and smaller urban centres which are not served by Health Units. In 1943 the average infantile mortality rate for rural districts (including the smaller urban centres) is 51 and the rate for the seven cities of the province is 32. This means that in 1943 the death rate of children under one year of age in rural districts (other than Health Unit areas) is 59.4% higher than the death rate for this age group in the cities.

Of the 810 deaths of children under one year of age in 1943, 428 or 52.8% occurred within the first month of life, of which number 341 occurred within the first week and 194 on the first day of life. These figures serve to again emphasize that in spite of the marked reduction in the total number of deaths of children under one year of age that has taken place in recent years, there is still urgent need of the extension of our preventive health services through the organization of additional Full Time District Health Units until every section of the province enjoys the advantages of this service. It is significant that in districts in which Full Time Rural Health Units have been in operation for a period of years, the infantile death rate falls to the level of that for the cities of the province.

### *Maternal Mortality.*

The maternal death rate (deaths of mothers per 1,000 living births) in 1943 was 2.7, as compared with 2.3 in 1942. The average maternal death rate for the past five years is 3.16.



The following are the chief causes of maternal deaths registered in 1943:

Abortion with mention of infection .....	6
Abortion without mention of infection .....	2
Ectopic gestation .....	2
Haemorrhage of pregnancy, death prior to delivery .....	0
Toxaemia of pregnancy, death prior to delivery .....	5
Other diseases and accidents of pregnancy, death prior to delivery.....	3
Haemorrhage of childbirth and the puerperium .....	11
Infection during childbirth and the puerperium .....	13
Puerperal toxaeias following delivery .....	7
Other accidents of childbirth .....	1
Other and unspecified conditions of childbirth and the puerperal state....	2
Total .....	52

There was a slight increase in the maternal death rate in 1943. If our present knowledge concerning maternal hygiene were fully applied, a still further reduction could be recorded in the maternal death rate and a great deal of invalidity, both preceding and following childbirth, prevented. This problem is one of major importance from the standpoint of public health.

We can look forward with confidence to a further reduction in our maternal death rate as we extend our Full Time Rural Health Unit services throughout the Province. In 1943, 85.2% of the births registered in the Province occurred in approved hospitals.

#### *Full Time Rural Health Units.*

The work of the nine Rural Health Units, namely, Red Deer, Foothills, Stettler, Rosebud, Lamont, Sturgeon, Clover Bar, Holden and Two Hills, has been conducted along the same general lines as in previous years. Owing to the enlistment of Medical Officers of Health and the impossibility of finding replacements, it has been necessary to arrange for the part-time service of local Medical Officers of Health in five of our nine District Health Units. Constant changes in the staff of Public Health nurses have also increased the difficulties in maintaining the efficiency of the service in the various Health Units. It is noteworthy that in all cases District Boards of Health of the Health Units affected by these changes have determined to maintain the service to the best of their ability. A good general programme has been carried on which reflects great credit on the Boards and the staff responsible for this work.

The activities of our Full Time District Health Units include health education, the prevention and control of communicable diseases, child and maternal hygiene, mental hygiene, school hygiene, supervision of water and milk supplies, food inspection, health records and statistics, general sanitation, etc.

#### *Health Education.*

The health educational work of the Department is carried on through the publication of bulletins, through articles in the press and by means of lectures, radio talks, movies, health exhibits and demonstrations. Some 30 Departmental bulletins and pamphlets and some 80 publications issued by various organizations are distributed by the Department. During the year, over 100,000 bulletins and pamphlets were distributed. The lecturer in charge of health educational work gave 55 lectures, at which



the total attendance was 15,610. Fourteen of these lectures were given to members of the Armed Forces, in connection with the venereal disease control programme.

Health educational service is also carried on by the other Divisions of the Department, and occupies an important place in the activities of these Divisions. There is a great need for extension of our health educational work, which is of fundamental importance, and we plan on increasing this service in the near future.

In co-operation with the Federal Division of Nutritional Services, the Department assisted in promoting educational work in nutrition. In co-operation with the Alberta Council on Nutrition, an itinerary was planned for Miss Frances I. McKay, who visited the Province in March. During this itinerary Miss McKay addressed meetings in eight centres, and in a number of these, local nutrition committees were established. Mrs. Vera MacDonald, Supervisor of Women's Work in the Extension Branch of the Provincial Department of Agriculture, gave splendid co-operation in visiting places on Miss McKay's itinerary in advance, with a view to arousing interest of local groups in nutrition.

One of the outstanding activities, in connection with nutrition, was the Nutrition Camp which was organized and conducted by the Lamont Health Unit at Elk Island Park. This Camp continued for a period of six weeks, with Dr. H. Siemens, Medical Officer of the Lamont Health Unit, in charge. The staff consisted of three Public Health Nurses, a Nutritionist, a Physical Director and two cooks. The co-operation of the Department of Education in making the services of a Physical Director available, and the co-operation of the Department of Agriculture in making the services of a Nutritionist available, went a long way to ensure the success of the Camp, and is greatly appreciated.

Thirty boys, ranging in age from 10 to 13 (some twenty from the Lamont Health Unit and ten from the other Health Units in the Province), who were much below weight and definitely under-nourished, were given the opportunity of attending the Nutrition Camp.

The purpose of this demonstration was not to show how much this group of boys might gain in weight in a specified time, but rather to educate the parents in regard to the diet which should be provided for their children. Parents were invited to visit the Camp, and arrangements were made for lectures and demonstrations by the staff of the Camp on the occasions of these visits.

Each child was given a complete physical examination prior to admission to the Camp, and, wherever defects were found requiring attention, the necessary treatment was provided through the kind co-operation of the Lamont Clinic. Where dental defects were found, dental treatment was provided by Dr. Yoneyama, the dentist on the staff of the Lamont Health Unit.

Through the co-operation of Mr. Dan Campbell, of the Publicity Department, a film was made showing the various activities of the Camp. Two copies of this film have been made, one for



the Department of Education and one for our own Department. This film has been shown to many organizations and has aroused much public interest in nutrition.

The Lamont School Division, various community organizations, citizens of the town and district, all gave splendid co-operation and this community effort was a large factor in the success of the demonstration.

Miss Norma Coburn, the Nutritionist at the Camp, was attached to the staff of the Department at the conclusion of the Camp, and was assigned to work in the Lamont Health Unit with a view to determining how educational work in the field of nutrition can be carried on to the best advantage in a Rural Health Unit.

The Department proposes to have Miss Coburn move from one Health Unit to another, with a view to developing programmes on nutrition in the various Health Units.

There has been a great demand for literature in regard to nutrition, which has been distributed by the Health Education Division. Much of this material has been made available to the Department by Nutrition Services, Ottawa. We greatly appreciate the kind assistance which Nutrition Services have extended in this connection.

#### *Public Health Nursing.*

There are 39 nurses on the staff of the Department. One of these is in charge of the Child Hygiene Clinic serving the Edmonton district, one in charge of the Child Hygiene Clinic serving the Calgary district, one in charge of the Clinic serving the Medicine Hat and Redcliffe districts, and one in charge of the Clinic serving the Drumheller district. One nurse serves the Municipal District of Norma and the Town of Vegreville. There are 34 District Nurses stationed in outlying districts remote from medical and hospital services.

In the selection of District Nurses, special consideration is given to the ability, physique, character, training and experience of the applicants. The responsibilities these nurses are called on to assume are heavy.

One of the outstanding developments in 1943 was the organization of a special course in obstetrical nursing, for graduates in nursing, at the University of Alberta. This course, which extends over a period of three months, is designed to equip our nurses for service in outlying areas as District Nurses and has met a great need. Four nurses registered for this course in 1943. The Nursing Division co-operated with the University authorities in giving nurses taking this course an opportunity to spend some time in the field with District Nurses. I desire to express the sincere appreciation of the Department for the assistance extended by the University authorities in making this course available to our nurses.

There were 599 Child Hygiene Clinics held in Edmonton, Calgary, Medicine Hat, Redcliff, Drumheller and Vegreville, with a total attendance of 21,308 infants and pre-school children.



In the following table a summary of the work of our District Nurses is shown:

No. of homes visited .....	2,894	No. of child welfare visits .....	322
No. of office visits .....	21,906	No. of cases sent to hospital .....	891
No. of dressings .....	4,089	No. of Pertussis vaccinations .....	15
No. of medical cases .....	12,381	No. of Smallpox vaccinations .....	2,330
No. of surgical cases .....	2,069	No. of Scarlet Fever inoculations .....	446
No. of obstetrical cases .....	279	No. of Diphtheria inoculations .....	9,764
No. of abortions .....	59	No. of Typhoid inoculations .....	232
No. of pre-natal visits .....	298	No. of Communicable Disease	
No. of pre-natal consultations .....	1,409	cases .....	837

In addition to the 39 nurses employed on the staff of the Department, there are 18 Public Health Nurses serving on the staff of our District Health Units. We have been most fortunate in our nursing personnel. Since the war a great many staff changes have taken place. In many cases it has been exceedingly difficult to find suitable replacements but in spite of these difficulties the efficiency of our nursing service has been well maintained.

#### *Travelling Clinic.*

Owing to the impossibility of obtaining the medical, dental and nursing staff required, the Travelling Clinic did not operate in 1943, and there appears to be little prospect of resuming this service until the medical, dental and nursing personnel required is available after the war.

#### *Social Hygiene.*

Four clinics were conducted by the Division of Social Hygiene, one in each of the four larger cities. In addition, a clinic is held in each of the Provincial Goals at Lethbridge and Fort Saskatchewan. The diseases under treatment in all clinics during 1943 were as follows: Syphilis 414, Gonorrhoea 602, Non-Venereal 581, Chancroid 1, making a total of 1,598.

Educational work in connection with venereal disease prevention has been conducted along the same lines as in previous years. During the year 25 lectures were given to approximately 4,500 persons. We are planning on an expanded educational programme with the employment of the additional personnel required for more intensified follow-up work.

It is a matter of great satisfaction to report the splendid co-operation which has been given by physicians, various local Boards of Health, the R.C.M.P., and local police authorities.

Three additional venereal disease clinics were established in the fall of 1943, one at High Prairie, one at McLennan and one at Peace River. Through these clinics much needed facilities for treatment of venereal disease cases have made available, thus enabling the Division of Social Hygiene to exercise the necessary control. In addition, special instruction has been given to several of our District Nurses in the treatment of venereal disease patients and in regard to methods of control.

We have had splendid co-operation from the Royal Canadian Air Force and from the Military and Naval authorities in connection with the activities carried on by our Division of Social Hygiene. We have also had very fine co-operation from the American authorities in this work. A number of staff confer-



ences, attended by representatives of various civilian, Air Force, Military and Naval authorities, have been held during the year and these have been found of great value. Venereal disease constitutes one of the greatest of our public health problems to-day.

#### *Provincial Laboratory.*

In 1943 the staff of the Provincial Laboratory made 115,013 examinations. This is the largest number of examinations made in the history of the Laboratory, and the staff has been severely taxed in endeavoring to cope with the ever-increasing volume of work. I wish to again emphasize the very urgent need of additional laboratory space and additional staff. A very high standard of service is provided by the staff of the Provincial Laboratory. If this standard is to be maintained in the future, more adequate accommodation and more adequate staff must be provided.

The work of the Provincial Laboratory includes examinations of water, ice, sewage, milk, various examinations in connection with communicable disease control, examinations of pathological material submitted by hospitals, medico-legal examinations, food examinations, and many others.

The vaccines and sera used for the prevention and treatment of various communicable diseases are distributed by the Provincial Laboratory. The estimated value of the work done by the Laboratory in 1943, on the basis of minimum charges only, is \$372,740.00.

All public health laboratory service is provided free of charge, with the exception of serological tests made for the Armed Services. This service is provided at actual cost.

#### *Sanitary Engineering and Sanitation.*

Plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants were examined, and, where approved, certificates issued for the same, as required under the Public Health Act.

During the year 2,609 reports of analyses of water, ice and milk samples were received from the Director of the Provincial Laboratory, and the necessary steps taken to deal with matters requiring attention.

The work of the Plumbing Inspector has been carried on as in previous years. This service is meeting a real need in districts in which there is no adequate local supervision of plumbing installations and repairs.

I wish to again stress the responsibility of local municipal authorities for the safety of water supplies. Raw water from streams, irrigation ditches and other such sources, is unsafe for human consumption. Any municipal authority which permits the use of such water is almost certain, sooner or later, to experience a serious outbreak of water-borne disease.

I wish to again direct attention to the responsibility of municipal authorities in the control of milk supplies. Municipalities which permit the use of contaminated water supplies, and the sale of unsafe milk, are inviting serious trouble. Eternal vigil-



ance is the price of safety insofar as our water and milk supplies are concerned.

There were 111 complaints and requests for investigations received from various municipalities and referred to the Sanitary Inspectors for attention. During the year 42 inspections of lumber, tie, saw-mill and mining camps, were made. Excellent service has been given by the Sanitary Inspectors engaged in this work. When our District Health Unit services are extended to cover the entire Province, we will be in a position to provide a more satisfactory and complete sanitary inspection service.

#### *Dental Hygiene.*

Owing to the marked shortage of dentists in the Province, due to the number who have enlisted for war service, it has been impossible to provide dental service in outlying districts as in previous years. An effort has been made to provide essential dental services in our various institutions with the limited staff it has been possible to obtain for this purpose. A report of the dental work of the various institutions will be found in the reports of these institutions.

The Travelling Clinic was not in the field in 1943, owing to the impossibility of securing the medical, dental and nursing staff required to carry on this service.

#### *Hospital Inspection.*

In 1943, 97 approved hospitals received the government grant. Under the provisions of The Private Hospitals Act, 64 private hospitals (largely nursing homes and baby shelters) were licensed.

The total number of operations reported by hospitals in 1943 was 47,587. The classification of these operations is shown in the report of the Hospital Inspection Division.

On the basis of returns received from 93 approved hospitals, the total bed capacity, including cribs, was 5,013, the total bed complement 4,999, and in addition, 863 bassinets.

On the basis of a population of 792,000, there was one hospital bed available, including cribs and bassinets, for every 135 of our population, or 7.4 beds per 1,000 population.

The construction of an addition to the Esler Hospital at Cereal was undertaken in 1943.

There were 30 municipal hospitals in operation in 1943, 5 of which were not ready to accommodate patients until the latter part of the year. The 25 municipal hospitals which operated for the full year provided accommodation for 1,056 patients. During the year, 25,147 patients received treatment in these 25 municipal hospitals, representing 20% of all patients receiving treatment in the approved hospitals.

#### *Division of Tuberculosis Control.*

The number of treatment beds available for Tuberculosis remained the same as in the previous year, namely, 415. Patient days for all sanatoria in 1943 totalled 146,338, as compared with 146,320 for 1942.



During the year the Tuberculosis Division gave diagnostic service to 20,716 people, as compared with 9,277 in 1942.

There were 655 new cases of Tuberculosis reported in 1943. Of these, 58.9% were considered active, 35.4% inactive and 5.6% non-pulmonary.

The 618 new cases of active and inactive Pulmonary Tuberculosis are classified as follows:

Minimal .....	354	57.3%
Moderately advanced .....	185	30.0%
Far advanced .....	79	12.7%

There were 307 patients advised to take sanatorium treatment, and 267, or 87%, of these were admitted.

Non-infectious cases of Tuberculosis are not admitted to sanatoria under the scheme by which free treatment is provided for all bona fide residents of the Province. As soon as we are in a position to provide the accommodation required for this purpose, these non-infectious types of Tuberculosis should be admitted and cared for, as many of these patients require highly specialized treatment which can only be made available in sanatoria.

During 1943, 4,946 medical examinations were made by the medical staff of the Tuberculosis Division. There are 13 Tuberculosis clinic centres in the Province, and our travelling diagnosticians visited 27 other centres during the year.

The need for the erection of a new Tuberculosis Sanatorium in Edmonton remains urgent. It is our hope that the necessary priorities for this construction may be obtained in the near future. The need of more beds for Tuberculosis in the northern part of the Province is evidenced from a study of new cases reported to which reference is made in the report of the Tuberculosis Control Division.

At the request of the Indian Affairs Branch of the Federal Government, 1,286 children in eight Indian Residential Schools were X-rayed. All who showed abnormal X-ray films were examined. By this means, 34 new cases of Tuberculosis were found. More adequate facilities for the treatment of Indian patients and a complete programme for the control of Tuberculosis among the Indian population are urgent requirements in view of the high death rate from this disease in the Indian population.

The Alberta Tuberculosis Association made a presentation of a completely equipped mobile X-ray trailer unit to the Department, and this was put into service in September. With these facilities available, arrangements were made to do mass X-ray surveys in a number of districts. Nine thousand, nine hundred and twenty-six persons were X-rayed. I wish to express the sincere appreciation of the Department for the gift of this mobile X-ray unit, which constitutes a most effective contribution in the campaign against Tuberculosis.

The Alberta Tuberculosis Association has expanded its programme of rehabilitation of Tuberculous patients, extending assistance to a number of persons in securing training and in subsequently obtaining remunerative employment. This programme



is meeting a real need, and there is a great field for this type of service.

### *Mental Health Division.*

On January 1st, 1943, there were 2,976 patients in all Mental Institutions, and on December 31st, 1943, 3,009. Since the Provincial Mental Hospital at Ponoka was opened to receive patients in 1911, there has been a steady yearly increase of from 3 to 8% in the patient population of Provincial Mental Institutions, until 1943, when the increase dropped to 1.1%.

The rate of hospitalized mental patients to general population has increased from 156 per 100,000 population in 1921, to 379 in 1943.

There were 390 patients with psychoses, and 115 patients without psychoses, of whom 45 were mental defectives, admitted to the Provincial Mental Hospital at Ponoka; 273 patients with psychoses, and 78 patients without psychoses, of whom 21 were mental defectives, discharged; 84 deaths of patients with psychoses, and 3 deaths of mentally defective patients occurred during the year.

There were 33 patients transferred from the Provincial Mental Hospital, Ponoka, to the new building for disturbed women patients at the Provincial Mental Institute, Oliver. This afforded further relief in the over-crowded wards for disturbed patients at Ponoka.

The erection of one-storeyed buildings of the pavilion type to provide accommodation for quiet, senile patients would provide very satisfactory accommodation for such patients and would serve to relieve the pressure on Ponoka. Such pavilions could be constructed at reasonable cost, and the patients accommodated cared for at a considerably lower cost than in the main institution. Plans are being made to construct such a pavilion to accommodate about 120 patients during the coming year at Oliver. We also plan on the erection of a similar type of pavilion at Ponoka.

We now have accommodation for 282 patients at the Provincial Training School for Mental Defectives at Red Deer, divided as follows:

Infirmery type—mostly bedridden cripples .....	74 beds
Low grades—custodial types for whom everything has to be done.....	54 beds
Kindergarten and grade school children .....	26 beds
Full-time "helpers"—unable to do useful work, but able to dress and feed themselves .....	58 beds
Full-time "workers"—able to do useful work in varying degrees under proper supervision. The majority are imbeciles .....	70 beds

During the year 20 patients were admitted to the Training School, 4 discharged, 9 transferred, and 8 deaths occurred. Plans are being made to provide additional accommodation for mentally defective patients at Red Deer. In view of the number of urgent cases on the waiting list, it is hoped to provide 50 additional beds during the coming year.

There were 939 patients in the Provincial Mental Institute, Oliver, at the beginning of 1943, and 997 at the end of the year. During the year 122 patients with psychoses, and 32 patients without psychoses, were admitted; 29 patients with psychoses, and 28 patients without psychoses, were discharged; 46 deaths



of patients with psychoses, and 4 deaths of patients without psychoses occurred during the year. Of the 161 patients admitted to Oliver in 1943, 70 were patients transferred from the Provincial Mental Hospital at Ponoka and the Provincial Training School at Red Deer.

The Auxiliary Mental Hospital at Claresholm provides accommodation for 100 women. There were 98 patients in this institution at the beginning of the year and 100 at the end of the year. There were 9 admissions, 6 discharges and one death during the year.

In the Auxiliary Mental Hospital at Raymond there were 114 women patients on January 1st, 1943, and 115 at the end of the year. During the year 8 patients were admitted, 2 discharged and one death occurred.

#### *Guidance Clinics.*

Guidance Clinics were conducted, as in previous years, in Edmonton, Calgary, and periodically in Lamont, Red Deer and Stettler. It is a matter of regret that owing to the reduction in medical personnel available, due to the war, it has been found necessary to curtail this service.

Patients are referred to the Guidance Clinics by local health and school authorities, local physicians, magistrates, public welfare and other agencies. Parents frequently visit these clinics for the purpose of obtaining information and advice in regard to mental hygiene problems in which they are concerned at home and in the community. This is a service which the Department plans on expanding as soon as the funds and the personnel required are available.

Great credit is due to the physicians and social workers engaged in this new work, who are carrying on to the best of their ability under trying conditions.

During the year 64 Guidance Clinics were conducted, 212 new cases were presented and 1,013 follow-up cases were dealt with. Since the inception of this service in 1929, 4,973 cases have been examined by the clinic staff.

#### *Eugenics Board.*

The work of the Eugenics Board is carried on under the authority of the Sexual Sterilization Act, R.S.A., 1942. Six meetings of the Board were held in 1943. During the year 130 cases were presented to the Eugenics Board. Since the Sexual Sterilization Act was proclaimed in 1929, 1,920 cases have been presented to the Board. Sixty operations were performed during the year, bringing the total number of operations performed to the end of 1943 to 917,368 males and 549 females.

The Department is desirous to express its appreciation of the time and attention given by the members of the Eugenics Board in the discharge of their responsibilities.

Detailed information concerning the activities of the Mental Institutions, Guidance Clinics and Eugenics Board will be found in the reports of these services.



*Board of Visitors.*

The Board of Visitors, composed of Dr. J. M. MacEachran, Chairman, Dr. E. L. Pope, Dr. E. G. Mason, and Mrs. J. W. Field, visited the following institutions during the week beginning October 18th: Provincial Mental Institute, Oliver; Provincial Mental Hospital, Ponoka; Provincial Training School for Mental Defectives, Red Deer; Provincial Auxiliary Mental Hospital, Claresholm; Provincial Auxiliary Mental Hospital, Raymond; and Central Alberta Sanatorium, Calgary.

A comprehensive report has been submitted by the Board on each of the above mentioned institutions. The Department desires to express to the members of the Board sincere appreciation of the fine service they have rendered.

*Child Welfare.*

Under the provisions of The Child Welfare Act, any child declared by a judge of the Juvenile Court to be a neglected child is made a ward of the Superintendent of Child Welfare. In 1943, 553 children were declared permanent wards, as compared with 543 in the previous year.

*Juvenile Delinquents.*

The Juvenile Court dealt with 807 cases in 1943, as compared with 912 cases in the previous year.

Detailed information concerning the work of the Child Welfare Branch will be found in the report of that Branch.

*General Administration.*

A statement of revenue and expenditure for the year ended March 31st, 1944, will be found on page 10 of this report. An analysis of this statement shows that the total expenditure for all activities of the Department was \$2,409,416.80. The expenditure for the Child Welfare Branch amounted to \$84,018.56. The balance, namely, \$2,325,398.24, is the amount expended in carrying on the usual activities of the Department. Of the latter sum, approximately \$2,040,000.00 were expended for the maintenance and operation of the various institutions which come under the administration of the Department, for grants to approved hospitals and homes, and for other forms of what might be termed treatment services. Approximately 12% of the total budget of the Department, excluding the amount expended for Child Welfare, was expended for all other activities, including Communicable Disease Control, Vital Statistics, Public Health Nursing, District Health Units, Venereal Disease Prevention and Control, various clinic services, general administration, and all other preventive services. There is a great need for the further expansion of preventive health services, more particularly in our rural districts and smaller urban centres. Experience shows that funds wisely expended for preventive health services return large dividends.

In bringing this summary of the activities of the Department for the year 1943 to a conclusion, I desire to express my sincere appreciation of the fine co-operation and splendid service given by the directors and members of the staff of all divisions, includ-

ing the superintendents of provincial institutions and members of institutional staffs, which come under the jurisdiction of the Department. As in previous war years, frequent changes in staff occurred and great difficulty was experienced in finding adequate numbers of replacements, and difficult problems in administration have been experienced, more especially in our institutions. In spite of these difficulties, an earnest effort has been made in all divisions and institutions to maintain the efficiency of the service.

All of which is respectfully submitted,

MALCOLM R. BOW, B.A., M.D., C.M., D.P.H.

*Deputy Minister of Health.*



## Communicable Disease Division

(A. SOMERVILLE, B.A., M.D., D.P.H., *Director*)

The Division of Communicable Diseases has been made responsible for the prevention and control throughout the Province of all communicable diseases except tuberculosis and venereal diseases. In unorganized parts of the Province this is a direct responsibility, while in cities, towns, villages and rural municipalities the direct responsibility rests on the local board of health and this Division acts only in an advisory capacity and in supervision.

In fulfilling these responsibilities the Division collects information on the incidence of various communicable diseases, passing this information on to the authorities at Ottawa and in the form of a weekly report to the Health Officer of the Province.

The Division sponsors an immunizing programme by supplying free of charge to doctors, municipalities and other responsible parties, the inoculating materials which are necessary for this work. In addition to providing this material, a Provincial Inoculator goes periodically to outlying portions of the Province to give this service. Because of the scattered nature of the population which he serves, the following figures give only a hazy notion of the work involved:

### PERSONS IMMUNIZED BY PROVINCIAL INOCULATOR

Communicable disease lectures.....	17
Places visited .....	69
Reaction tests done.....	972
Inoculated against Diphtheria.....	1983
Vaccinated against Smallpox.....	2047

The Province also provided free inoculation for protection against Rocky Mountain Spotted Fever to 316 individuals in the area of South Eastern Alberta where this disease is known to be potentially dangerous. The survey work in delimiting the boundaries of the area that is dangerous is being continued by Mr. J. H. Brown, as well as survey work related to Sylvatic Plague among the wild rodents of the same corner of our Province.

### TYPHOID FEVER

(Cases 11, Deaths 1)

This is a further reduction in cases from anything previously recorded in the Province. Nearly all of these cases were sporadic, making it almost impossible to trace the source. At one point where three cases developed, the carrier was located.

Nine cases of Paratyphoid B were reported, being the same number as in 1942.

### SCARLET FEVER

(Cases 1,676, Deaths 7)

The epidemic of 1942 carried over into 1943 with 1,676 cases, which is practically double our median for the past five years. These cases were of a mild type.



## SMALLPOX

(Cases 2, Deaths 0)

In the past three years there have been only 4 cases of smallpox reported. It is hard to imagine sporadic cases of smallpox occurring like this in a community which is not highly protected by vaccination. This suggests the possibility of a wrong diagnosis in these four cases. The portions of our Province outside of the areas served by full-time health staff are usually not well immunized, and it is therefore only a question of time until this disease will be with us once more unless the vaccination programme becomes more widespread.

## DIPHTHERIA

(Cases 46, Deaths 11)

While the 46 cases reported in 1943 are a reduction from the number reported last year we still regret having to report any cases and any deaths from this disease. If our present knowledge regarding the prevention and treatment of this disease was fully applied there would be no deaths and only occasional cases. Edmonton and Calgary, with about 25 per cent. of the population of the Province, had 43 per cent. of the cases of diphtheria.

Seventeen diphtheria carriers were located during the year, which is a higher number than has been reported in any recent year.

## PULMONARY TUBERCULOSIS

(Cases 581, Deaths 224)

Tuberculosis continues to be our most serious communicable disease. Further information regarding this can be found in the report of the Tuberculosis Division.

## WHOOPIING COUGH

(Cases 1,520, Deaths 12)

The epidemic of whooping cough of 1942 carried over into 1943 and, in fact, increased during that year. Among our ordinary communicable diseases this is at present the most serious on the average, not only on account of the deaths but because of complications.

## MEASLES

(Cases 4,478, Deaths 19)

Among communicable diseases, measles caused more deaths than any other with the exception of tuberculosis.

## ACUTE ANTERO POLIOMYELITIS

(Cases 24, Deaths 0)

Polio this year was widely scattered, no place having more than two cases, except Edmonton, which had seven. The fact that there were no deaths in 24 cases suggests that the disease is milder than it was a few years ago or that the milder cases are better recognized and reported.



TABLE No. 1  
COMMUNICABLE DISEASE CASES AS REPORTED FOR 1942 AND 1943

	1942	1943		1942	1943
Actinomycosis	1	.....	Rocky Mountain Spotted Fever	1	1
Anthrax	.....	1	Rubella	1044	551
Acute Anterior Poliomyelitis	8	24	Scarlet Fever	2265	1676
Acute Septic Sore Throat	32	8	Smallpox	1	2
Chickenpox	1948	1759	Tetanus	.....	1
Diphtheria	58	46	T.B. Meningitis	6	5
Diphtheria Carriers	.....	17	Pulmonary Tuberculosis	569	581
Encephalitis	1	4	Non-Pulmonary Tuberculosis	24	8
Erysipelas	43	31	Trachoma	1	.....
Measles	1459	4478	Tularaemia	4	4
Meningococcic Meningitis	25	22	Typhoid Fever	18	11
Mumps	4191	2928	Undulant Fever	2	5
Ophthalmia Neonatorum	.....	.....	Whooping Cough	1131	1520
Paratyphoid Fever	7	9			

TABLE 2  
TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR 1942 AND 1943

	1942	1943		1942	1943
Pneumonia (all forms)	335	407	Diphtheria	11	11
Influenza (all forms)	75	153	Meningococcic Meningitis	5	7
Pulmonary Tuberculosis	214	224	Typhoid	1	1
Tuberculosis (all other forms)	57	70	Acute Anterior Poliomyelitis	.....	.....
Erysipelas	6	4	Measles	2	19
Scarlet Fever	11	7	Rubella	.....	.....
Encephalitis Lethargica	4	.....	Mumps	.....	.....
Whooping Cough	12	12	Smallpox	.....	.....

TABLE 3  
DEATHS DUE TO COMMUNICABLE DISEASES IN THE CITIES OF EDMONTON AND CALGARY FOR 1942 AND 1943

	Edmonton		Calgary	
	1942	1943	1942	1943
Pneumonia (all forms)	57	56	45	58
Influenza (all forms)	6	15	6	9
Pulmonary Tuberculosis	48	49	8	8
Tuberculosis (all other forms)	14	24	6	1
Diphtheria	2	1	5	3
Whooping Cough	3	4	1	1
Acute Anterior Poliomyelitis	.....	.....	.....	.....
Meningococcic Meningitis	2	3	1	2
Typhoid Fever	.....	.....	.....	.....
Erysipelas	1	.....	.....	1
Scarlet Fever	2	3	1	.....
Encephalitis	2	1	.....	.....
Measles	.....	2	1	.....
Mumps	1	.....	2	.....
Undulant Fever	.....	.....	.....	.....
Dysentery	3	2	.....	.....
Smallpox	.....	.....	.....	.....
Chickenpox	.....	.....	.....	.....

TABLE 4  
DEATHS DUE TO COMMUNICABLE DISEASES IN THE SMALLER CITIES, TOWNS, VILLAGES AND RURAL DISTRICTS FOR THE YEARS 1942 AND 1943

	1942	1943		1942	1943
Pneumonia (all forms)	152	93	Erysipelas	5	3
Influenza (all forms)	53	129	Scarlet Fever	8	4
Pulmonary Tuberculosis	58	167	Encephalitis	2	4
Tuberculosis (all other forms)	51	45	Measles	.....	17
Diphtheria	4	7	Mumps	5	3
Whooping Cough	5	7	Undulant Fever	1	1
Acute Anterior Poliomyelitis	.....	.....	Dysentery	5	16
Meningococcic Meningitis	2	2	Smallpox	.....	.....
Typhoid Fever	1	1	Chickenpox	.....	2

TABLE 5  
DEATHS DUE TO COMMUNICABLE DISEASES AMONG INDIANS IN THE PROVINCE FOR 1942 AND 1943

	1942	1943		1942	1943
Pneumonia (all forms)	81	93	Meningococcic Meningitis	.....	.....
Influenza (all forms)	10	27	Typhoid Fever	.....	.....
Pulmonary Tuberculosis	100	117	Erysipelas	.....	.....
Tuberculosis (all other forms)	29	35	Scarlet Fever	.....	.....
Diphtheria	.....	.....	Encephalitis	.....	.....
Whooping Cough	3	.....	Measles	1	6
Acute Anterior Poliomyelitis	.....	.....	Mumps	.....	.....

TABLE 6

	Total Cases	Total Deaths	Morbidity Rate	Mortality Rate	Case Fatality Rate
Acute Anterior Poliomyelitis .....	24	...	3.0	...	...
Cerebro-Spinal Meningitis .....	22	7	2.8	0.9	31.8
Chickenpox .....	1,750	...	221.0	...	...
Diphtheria .....	46	11	5.8	1.4	23.9
Diphtheria Carriers .....	17	...	2.1	...	...
Encephalitis .....	4	...	...	...	...
Erysipelas .....	31	4	3.9	0.5	12.8
Influenza .....	N.R.	153	...	19.3	...
Mumps .....	2,928	...	369.0	...	...
Measles .....	4,478	19	564.0	2.3	0.4
Pneumonia (all forms) .....	N.R.	407	...	...	...
Pulmonary Tuberculosis .....	581	224	74.0	28.2	39.4
Pulmonary Tuberculosis (Indians excepted) ..	N.R.	107	...	13.8	...
Non-Pulmonary Tuberculosis .....	8	70	1.0	8.9	...
Non-Pulmonary Tuberculosis (Indians ex- cepted) .....	N.R.	35	...	4.4	...
Smallpox .....	2	...	...	...	...
Scarlet Fever .....	1,676	7	208.0	0.9	0.4
Typhoid Fever .....	11	1	1.4	0.1	9.1
Paratyphoid Fever B .....	9	...	1.1	...	...
Whooping Cough .....	1,520	12	191.0	1.5	0.8
Rubella .....	551	...	69.6	...	...

N.R.—Not reported or incompletely reported.

INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES  
FOR THE 10-YEAR PERIOD 1934-1943

## DIPHTHERIA

	Population	Total Cases	Total Deaths	Morbidity Rate	Mortality Rate
1934 .....	769,000	31	8	4.00	1.00
1935 .....	770,000	28	8	4.00	1.00
1936 .....	772,782	47	9	6.00	1.00
1937 .....	778,000	30	10	3.86	1.28
1938 .....	783,000	74	18	9.40	2.3
1939 .....	789,000	36	7	4.5	0.9
1940 .....	795,000	52	12	6.42	1.5
1941 .....	796,169	31	6	3.9	0.8
1942 .....	805,152	58	11	7.3	1.4
1943 .....	792,000	46	11	5.8	1.4

## TYPHOID FEVER

	Population	Total Cases	Total Deaths	Morbidity Rate	Mortality Rate
1934 .....	769,000	57	7	7.4	.90
1935 .....	770,000	55	11	7.0	1.40
1936 .....	772,782	111	20	14.4	2.60
1937 .....	778,000	34	4	4.37	.51
1938 .....	783,000	77	11	9.8	1.40
1939 .....	789,000	44	6	5.6	.70
1940 .....	795,000	36	3	4.5	.40
1941 .....	796,169	33	5	4.1	.60
1942 .....	805,152	18	1	2.3	.10
1943 .....	792,000	11	1	1.4	0.1

## ACUTE ANTERIOR POLIOMYELITIS

	Population	Total Cases	Total Deaths	Morbidity Rate	Mortality Rate
1934 .....	769,000	12	4	1.6	0.5
1935 .....	770,000	162	15	21.0	2.0
1936 .....	772,782	18	1	2.3	0.1
1937 .....	778,000	169	13	21.72	1.67
1938 .....	783,000	105	15	13.4	1.9
1939 .....	789,000	24	5	3.0	0.6
1940 .....	795,000	...	4	...	...
1941 .....	796,169	167	8	20.9	1.0
1942 .....	805,152	8	...	1.0	...
1943 .....	792,000	24	...	3.0	...

## WHOOPIING COUGH

	Population	Total Cases	Total Deaths	Morbidity Rate	Mortality Rate
1934 .....	769,000	1,290	52	167.5	6.7
1935 .....	770,000	763	43	99.0	6.0
1936 .....	772,782	1,793	73	232.0	9.0
1937 .....	778,000	658	49	84.57	6.3
1938 .....	783,000	310	30	39.6	3.8
1939 .....	789,000	2,080	33	263.6	4.2
1940 .....	795,000	1,158	55	45.7	7.0
1941 .....	796,169	364	23	19.8	2.9
1942 .....	805,152	1,131	12	141.0	1.5
1943 .....	792,000	1,520	12	191.0	1.5



## SCARLET FEVER

	Population	Total Cases	Total Deaths	Morbidity Rate	Mortality Rate
1934 .....	769,000	378	5	49.1	0.6
1935 .....	770,000	642	8	83.0	1.0
1936 .....	772,782	2,729	23	353.0	3.0
1937 .....	778,000	2,123	24	272.9	3.08
1938 .....	783,000	1,452	25	185.0	3.2
1939 .....	789,000	1,113	19	141.0	2.4
1940 .....	795,000	779	9	98.0	1.1
1941 .....	796,169	792	6	101.0	0.8
1942 .....	805,152	2,265	11	286.0	1.4
1943 .....	792,000	1,676	7	208.0	0.9

## SMALLPOX

1934 .....	769,000	4	1	0.5	0.1
1935 .....	770,000	4	.....	0.5	.....
1936 .....	772,782	56	1	7.0	0.1
1937 .....	778,000	57	1	7.3	0.1
1938 .....	783,000	34	.....	4.3	.....
1939 .....	789,000	45	.....	5.7	.....
1940 .....	795,000	.....	.....	.....	.....
1941 .....	796,169	1	.....	0.1	.....
1942 .....	805,152	1	.....	0.1	.....
1943 .....	792,000	2	.....	.....	.....

CLASS OF COMMUNICABLE DISEASES REPORTED IN 1943  
WHOOPING COUGH

1943	Sex		MONTHS												AGES					TOTAL	
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-19	20-over		Not Stated
Cities:																					
Calgary	94	70	15	26	18	28	33	13	9	5	9	4	3	1	15	80	69				
Edmonton	397	459	73	94	57	80	106	75	98	85	102	64	13	9	67	428	355		5	1	
Lethbridge	3	1			1	1										3	1				
Medicine Hat	1	3								1	3					4					
Red Deer	8	10	1		1		2	5	5	3	1				3	8	7				
Wetaskiwin	76	86	15	9	28	1	7	11	17	37	13	17	6	1	11	63	73		1	5	
Towns and Villages	153	158	67	25	15	3	7	24	45	31	43	26	16	9	17	114	169		4	4	
Rural Districts																					
Totals	733	787	171	156	120	114	155	128	174	162	171	111	38	20	113	700	675	13	9	10	

CHICKENPOX

1943	Sex		MONTHS												AGES					TOTAL	
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-19	20-over		Not Stated
Cities:																					
Calgary	192	168	10	12	8	10	11	20	10	9	4	18	147	101	6	47	276	17	11	3	
Edmonton	366	379	68	27	24	29	14	23	22	22	16	60	202	238	28	195	459	33	17	13	
Lethbridge	54	57	9	15	17	15	28	20	5		2					6	97	4	4		
Medicine Hat	2	1																			
Red Deer	17	14	1	1		2	1	4	1	1			4	17	2	4	22	1	2		
Wetaskiwin	3	3		2	4											2	3				
Towns and Villages	108	124	30	17	22	31	19	21	27	6	6	29	18	9	9	30	157	16	15	5	
Rural Districts	133	139	32	13	2	22	34	24	18	8	5	4	34	76	7	34	171	13	33	14	
Totals	875	884	150	88	77	109	107	112	83	46	33	88	416	450	52	318	1186	84	84	35	

GERMAN MEASLES (RUBELLA)

1943	Sex		MONTHS												AGES					TOTAL	
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-19	20-over		Not Stated
Cities:																					
Calgary	29	14	2		3	4	12	11	3	1	1	2	4			8	25		10		
Edmonton	120	210	7	4	23	68	89	108	11	7	2	2	6	3	7	37	153	50	77	6	
Lethbridge	1							1									1				
Medicine Hat	2																				
Red Deer	11	3						7	4	1			1	1		1	2		11		
Wetaskiwin	1	1						1									1				
Towns and Villages	45	22	1	2	1	13	21	9	4	11		2	3		4	10	12	4	31	6	
Rural Districts	48	44	2	2	1	15	20	10	10	9	5	7	3	8	1	17	18	7	48	1	
Totals	257	294	12	8	28	100	143	147	32	30	9	13	17	12	12	73	213	62	178	13	





MUMPS

1943	Sex		MONTHS												AGES					TOTAL		
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-19	20-over		Not Stated	
Cities:																						
Calgary	260	163	18	12	27	59	72	39	34	35	8	26	50	43	3	21	196	79	127	423		
Edmonton	513	563	260	239	274	74	59	49	28	19	8	11	24	11	3	121	611	103	203	1076		
Lethbridge	22	2	3	4	9	5	2	1	1	1	1	1	1	1	1	4	19	4	19	24		
Medicine Hat	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	4		
Red Deer	28	7	1	1	1	13	3	6	4	3	3	1	1	1	1	5	4	2	24	35		
Wetaskiwin	21	1	1	1	1	16	5	1	1	1	1	1	1	1	1	21	1	1	1	22		
Towns and Villages	333	315	74	71	110	174	89	58	13	14	7	4	25	9	41	332	119	111	54	648		
Rural Districts	380	316	142	139	93	93	81	61	25	14	10	3	17	18	4	38	425	86	96	696		
Totals	1560	1368	497	487	515	434	312	213	104	85	38	46	116	81	8	226	1570	385	602	2928		

ERYSIPELAS

Cities:																							
Calgary	1	1	1	1	1	3	1	1	1	1	2	2	1	3	2	1	1	1	1	2	18		
Edmonton	10	8	2	1	1	1	1	1	1	2	2	1	3	2	1	1	1	1	17	5			
Towns and Villages	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	6			
Rural Districts	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	6			
Totals	18	13	5	1	1	5	1	2	1	4	3	1	4	3	1	1	1	2	27	31			

SMALLPOX

City:																							
Drumheller	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rural Districts	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totals	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

POLIOMYELITIS

Cities:																							
Calgary	3	4	3	4	3	3	1	1	2	1	1	3	1	1	1	1	1	1	1	1	3	1	3
Edmonton	2	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
Lethbridge	3	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1
Towns and Villages	6	2	2	2	2	2	2	2	2	2	2	4	1	1	1	1	1	1	1	1	1	1	1
Rural Districts	17	7	3	3	3	3	3	3	3	3	4	9	1	1	8	11	1	1	3	1	1	1	1
Totals	17	7	3	3	3	3	3	3	3	3	4	9	1	1	8	11	1	1	3	1	1	1	1



T.B. MENINGITIS

Edmonton	4	1	1	2	1	1	3	2	5
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ANTHRAX

Lethbridge	1	1	1	1	1	1	1	1	1
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ACUTE SEPTIC THROAT

Edmonton	4	4	3	1	1	3	1	4	3	8
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ROCKY MOUNTAIN SPOTTED FEVER

I.D. No. 32	1	1	1	1	1	1	1	1	1
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TETANUS

Carbon	1	1	1	1	1	1	1	1	1
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TULARAEMIA

City:										
Edmonton	2	1	1	1	1	2	2	2	2	2
Rural Districts	2	1	1	1	1	2	2	2	2	2
Totals	4	2	2	2	2	4	4	4	4	4

UNDULANT FEVER

Towns and Villages	2	2	1	2	1	1	1	1	2	4
Rural Districts	1	1	1	1	1	1	1	1	1	1
Totals	3	3	2	3	2	2	2	2	3	5

ENCEPHALITIS

City:										
Edmonton	1	2	1	1	1	1	1	1	1	3
Rural Districts	1	1	1	1	1	1	1	1	1	1
Totals	2	3	2	2	2	2	2	2	2	4

SCARLET FEVER

1943	Sex		MONTHS												AGES					TOTAL	
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-19	20-over		Not Stated
			314	230	38	18	38	46	60	83	51	36	38	46	44	46	75	236	71		
Cities:																					
Calgary	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	
Drumheller	305	208	47	71	83	41	59	39	18	9	16	33	40	57	53	197	86	160	513	33	
Edmonton	27	6	1	1	10	9	3	6	2	4	4	5	1	1	2	9	7	15	33	25	
Lethbridge	22	3	3	3	3	3	3	3	2	4	4	5	1	2	3	5	2	20	31	13	
Medicine Hat	27	4	4	4	4	4	4	4	2	4	2	1	2	1	1	5	1	11	13	191	
Red Deer	10	3	3	3	3	3	3	3	6	4	6	5	1	7	23	63	21	67	16	324	
Wetaskiwin	129	62	8	18	27	57	40	12	15	14	13	13	37	42	4	38	129	20	118	15	
Towns and Villages	186	138	25	18	29	18	62	38	15	14	13	13	37	42	4	38	129	20	118	15	
Rural Districts																					
Totals	1020	656	120	129	187	188	234	190	94	72	79	104	126	153	6	192	645	209	577	47	1676

TUBERCULOSIS

1943	Sex		MONTHS												AGES					TOTAL	
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-19	20-over		Not Stated
			43	38	10	9	13	2	7	4	5	5	1	6	10	9	1	3	2		
Cities:																					
Calgary	2	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	4	9	6	1	
Drumheller	56	66	7	18	7	13	17	23	6	10	10	1	1	9	1	4	4	102	6	122	
Edmonton	4	7	3	3	3	2	2	2	2	2	2	2	2	1	2	7	1	7	1	11	
Lethbridge	9	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	1	9	
Medicine Hat	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	1	2	
Red Deer	71	72	16	11	6	12	12	15	15	14	15	10	9	8	3	12	17	91	20	143	
Towns and Villages	109	95	11	8	17	8	24	20	10	19	23	22	19	23	1	6	60	22	100	15	
Rural Districts																					
Totals	295	286	47	48	47	36	64	65	37	49	52	44	41	51	2	13	83	51	388	44	581

TUBERCULOSIS—NON-PULMONARY

1943	Sex		MONTHS												AGES					TOTAL	
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-19	20-over		Not Stated
			2	1																	
Cities:																					
Calgary	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	
Edmonton	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rural Districts																					
Totals	5	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	4	3	8

MENINGOCOCCUS MENINGITIS

1943	Sex		MONTHS												AGES					TOTAL	
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-19	20-over		Not Stated
			1	5																	
Cities:																					
Calgary	7	5	3	2	2	2	2	2	2	2	2	2	2	2	2	3	4	1	2	1	
Edmonton	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
Medicine Hat	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Wetaskiwin	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	
Towns and Villages	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rural Districts																					
Totals	14	8	2	4	5	2	1	3	1	1	1	1	2	2	2	6	7	2	5	5	22



## Division of Health Education

(F. T. COOK, *Lecturer*)

Health education in Alberta in 1943 took a decided turn in the direction of nutrition. Co-operating with Nutrition Services of Canada, the Department assisted in promoting educational enterprises on a considerable scale. Under the direction of the Alberta Council on Nutrition an itinerary of lectures and organization meetings were held throughout the province. Miss Frances I. McKay, travelling under a Swift Fellowship in Applied Nutrition, and sponsored by the Minister of Pensions and National Health, visited many of the more important places in the province, and gave considerable impetus to the campaign. Local nutrition committees were organized in each place, most of which carried on active educational work.

The Extension Service of the Department of Agriculture also co-operated in the educational work, and Mrs. McDonald, Supervisor of Women's Work carried on extensive work, in connection with both Nutrition Services programme and the regular work of her own Department.

The outstanding nutritional enterprise was the Nutrition Camp held at Elk Island Park by the Lamont health unit. The Camp lasted for six weeks, and was under the direction of the medical officer of the Lamont Health Unit. The staff consisted of a supervising nurse, a nutritionist, and physical director and a cook. A motion picture was taken of the various activities of the camp, and at present is being re-edited, in the interest of nutritional education. The film, of which there will be several copies, will be made available for general showing in the Province.

Other educational activities as carried on for many years were continued during the year. Again there was a considerable increase in the amount of literature distributed by the Department. In addition to the usual bulletins, great quantities of nutrition literature, chiefly that published by Nutrition Services, were distributed.

Chiefly owing to the pressure of other work and the bad travelling conditions during the early months of the year, the official lecturer had fewer meetings than in previous years. Fifty-five meetings were held with a total attendance of 15,610 people. Fourteen of these meetings were held in various Service Camps, in connection with the venereal disease control programme.

Five new films were purchased during the year, making valuable additions to the film library of the Department.

The radio programme over C.K.U.A. was carried on as in previous years. From the middle of October to the middle of May, one talk was given each week, on Wednesday afternoons at four thirty.



# Hospital Inspection Branch and Medical Inspector's Report

(A. SOMERVILLE, B.A., M.D., D.P.H., *Inspector of Hospitals*)

This Branch of the Department of Health is organized to supervise the professional work of approved hospitals, private hospitals and such baby shelters as are licensed. A few hospitals are so isolated that they are rarely inspected, while the balance are inspected at intervals of about two years.

## APPROVED HOSPITALS

Approved hospitals are those which comply with the provincial requirements as to grant, and at the end of 1943 there were ninety-seven of these distributed as follows:

Catholic .....	34
Protestant .....	7
Municipal .....	29
Municipally operated .....	15
Community .....	6
Industrial .....	3
Service Groups .....	2
University .....	1
	97

This list shows two more hospitals than last year. Three new municipal hospitals are in operation at Taber, Brooks and Beaverlodge, while Marwayne hospital was closed. The tendency to municipalization is shown by the establishment of three new Municipal Hospital Districts, and the change over during the year of two hospitals from a community type to municipal. A considerable number of other districts are also discussing the question, or are actually preparing to take votes. At December 31, 1943, 42% of the beds in Alberta hospitals were operated by municipalities, either directly or under the Municipal Hospitals Act. I would like to mention the problem that arises through a tendency to split the province up into hospital districts that are too small, making hospitals that are too small to give first class service. One should think in terms of a hospital in which three doctors might work, when doctors again become available. In this way a much better service could be provided to the community as a whole, with perhaps even some degree of specialization in the local community. With the steady improvement in road conditions, hospitals of this type could give service to the great bulk of Alberta, while of course smaller hospitals would be necessary in some areas where the population is very scattered. One of course recognizes the very laudable attempts of many small communities to build themselves a hospital and perhaps in this way, attract a doctor. I believe time will show that fewer and better hospitals will give better community service.

The main problem in Alberta Hospitals during 1943 was the question of staff and this included all ranks. Domestic staff, nurses, internes and doctors have all been below requirements.



Practically every hospital in the Province was operating with too few nurses and this difficulty was further emphasized by the universal adoption of the 8 hour day: In spite of this 8 hour day, all nurses in all hospitals frequently worked 12 and 14 hours and this is particularly true of matrons and other senior nurses.

The acute shortage of doctors was most noticeable in rural parts of the Province and five hospitals in Alberta were closed, or were attempting to give service without any doctor in the local community, as at December 31st, 1943. These hospitals are situated at Bentley, Carmangay, Desmarais, Marwayne and Vilna, with Bentley and Marwayne actually closed.

The situation reported a year ago, where hospitals were having difficulty in getting adequate supplies, particularly in special equipment, but even in groceries, has now apparently been corrected and most of these things are now obtainable even if a little slow in coming through.

### PRIVATE HOSPITALS

There were 33 private hospitals in the province which were licensed for 1943, and these were divided as follows:

Chronic and Convalescent .....	8
Obstetrical .....	11
Medical and Obstetrical .....	4
Medical and Surgical .....	7
Medical, Obstetrical, Minor Surgery .....	3
	33

These hospitals are all small, many containing only one or two beds, usually in a private house and very frequently located some distance from other hospital facilities. The total capacity of these institutions was 200 beds. The larger hospitals in this group are for the care of chronic and convalescent cases and a few of them are operated by doctors in mining communities as part of their contract with the miners.

### BABY SHELTERS

During 1943 there were 31 baby shelters operating under a license issued by the Department of Health. These shelters are all situated in the cities of Edmonton and Calgary and are inspected regularly by a provincial public health nurse. Occasionally, because of special circumstances, the Medical Inspector of Hospitals is asked to make a special investigation. There are also a number of Baby Shelters which are not inspected by the Department of Health because they are operated under the Child Welfare Branch of the Department of Welfare.

### SURGICAL WORK PERFORMED IN HOSPITALS IN ALBERTA, 1942

General:	of				of		
	Approved Hospitals Exclusive Municipal	Municipal Hospitals	Private Hospitals		Approved Hospitals Exclusive Municipal	Municipal Hospitals	Private Hospitals
Abscess .....	732	161	4	Bone Graft .....	11	1	..
Adenectomy .....	23	10	..	Bone Plating .....	11	8	..
Adhesions .....	109	9	2	Bowel .....	15	8	..
Amputation .....	405	96	7	Bronchoscopy .....	4	..	..
Appendectomy .....	5191	1239	90	Bunionectomy .....	61	8	..
Arthrodesis .....	21	..	1	Burns .....	6	1	..
Aspiration .....	268	59	..	Cancer .....	4	..	..
Bladder .....	13	5	..	Carbuncle .....	40	10	..



	Approved Hospitals	Exclusive of Municipal Hospitals	Private Hospitals		Approved Hospitals	Exclusive of Municipal Hospitals	Private Hospitals
Cauterization	34	14	..	Tenoplasty	2	..	..
Cecopexy	7	..	..	Tenotomy	9	..	..
Cecostomy	1	..	..	Thoracotomy	3	..	..
Cholecystectomy	550	53	..	Thyroidectomy	360	22	1
Circumcision	672	218	5	Transfusion	2959	52	..
Colostomy	89	8	..	Tumor	176	20	2
Craniotomy	2	..	..	T. B.	16	19	..
Curetting	83	5	..	Urethrotomy	13	..	..
Cyst	463	86	3	Varicocele	38	3	1
Cystectomy	6	..	..	Vasectomy	50	4	..
Cystoscopy	543	12	..	Wounds	72	16	..
Cystotomy	97	1	..				
Decompresia	1	..	..	OBSTETRICS AND GYNAECOLOGY:			
Dilatation	60	4	..	Abortion	27	12	..
Dislocation	138	47	1	Adhesions	66	7	..
Enterectomy	1	1	..	Cervix	105	25	1
Epididymotomy	4	..	..	Caesarean Section	146	11	..
Evulsion Nail	106	25	1	Cauterization	141	44	..
Examination	493	48	..	Colporrhaphy	155	13	..
Excision	389	31	7	Colpotomy	18	1	..
Extraction Teeth	777	245	16	Curettage	1334	209	9
Fasciotomy	3	..	..	Dilatation	901	99	7
Fistula	68	11	1	Examination	121	14	..
Foreign Body	91	21	..	Hysterectomy	494	60	2
Fracture	1691	303	7	Induction Labour	3	74	..
Fulguration	49	2	..	Insertion Radium	151	..	..
Gastroectomy	29	1	..	Oophorectomy	175	13	1
Gastroenterostomy	71	8	1	Ovariectomy	28	8	1
Gastrostomy	6	2	..	Panhysterectomy	2	..	..
Hammer Toe	20	4	..	Perineorrhaphy	241	28	2
Hare Lip	17	..	..	Plastic Genital	2	..	..
Hemorrhoidectomy	437	70	5	Polypi	33	..	..
Herniotomy	1144	219	12	Salpingectomy	242	8	2
Hydrocele	83	9	3	Salpingo-Oophorectomy	72	2	..
Ileocolostomy	25	..	..	Sterilization	70	9	..
Incision	364	95	2	Suspension	384	44	3
Injection	355	32	..	Trachelorrhaphy	30	7	..
Intussusception	..	..	1	Uterus	104	7	..
Jejunostomy	26	2	..				
Laminectomy	17	..	..	EYE, EAR, NOSE, THROAT:			
Laparotomy	267	58	4	Abscess	21	2	..
Ligation	567	52	13	Adenoidectomy	47	12	1
Lithotomy	4	..	..	Antrum	22	..	..
Lobectomy	2	..	..	Cataract	129	1	2
Manipulation	463	62	1	Cautery	9	1	..
Mastectomy	97	6	..	Dacryocystectomy	10	..	..
Nephrectomy	64	6	..	Dilatation	13	..	..
Nephrotomy	21	2	..	Enucleation Eye	60	1	..
Neurectomy	11	1	..	Esophagoscopy	9	..	..
Orchidectomy	72	5	..	Ethmoidectomy	..	..	..
Osteoplasty	5	..	..	Examination	41	..	..
Osteotomy	32	3	..	Excision	17	..	..
Paralysis	3	4	..	Foreign Body	26	4	..
Phlebectomy	40	4	..	Iridectomy	44	..	..
Plaster Cast	1608	156	1	Laryngoscopy	13	..	..
Plastic	48	2	..	Mastoidectomy	54	1	..
Pneumothorax	3	31	..	Myomectomy	1	1	..
Proctoscopy	12	..	..	Myringotomy	6	1	..
Prostatectomy	104	9	..	Otitis Media	4	8	..
Puncture	45	18	..	Paracentesis	52	23	..
Pylorplasty	5	1	..	Plastic Eye	7	..	..
Removal	501	99	..	Polypi	99	8	..
Repair	356	79	1	Pterygium	26	1	..
Resection	499	14	..	Sinus	53	..	..
Sequestrectomy	14	2	..	Submucous Resection	159	3	..
Sigmoidoscopy	28	2	..	Suturing	48	3	..
Skin Graft	82	7	..	Tenotomy	..	..	..
Splenectomy	3	..	..	Tonsillectomy	2897	1049	76
Suturing	1055	282	8	Tracheotomy	8	..	1
Sympathectomy	1	1	..	Turbinectomy	12	..	..
Synovectomy	4	..	..	T. & A's.	5409	1174	78

Total number of operations in Hospitals:

Approved, exclusive of Municipal	39,981
Municipal	7,215
Private	391

Total..... 47,587



## Report of the Provincial Laboratory

ALLAN C. RANKIN, C.M.G., M.D. D.P.H., *Director Provincial Laboratory and Provincial Bacteriologist (On Active Service)*

(JOHN JAMES OWER, B.A., M.D., C.M., *Acting Director Provincial Laboratory*)

(ROBERT McLEOD SHAW, B.A., M.D., C.M., D.P.H., F.R.C.P., *Acting Provincial Bacteriologist*)

I have the honour to present the following short report of the work carried on in the Provincial Laboratory during the year 1943.

This work is associated with the control of infectious disease; the laboratory diagnosis of other conditions; medico-legal examinations; such public health examinations as may be required in relation to water, milk, food, etc.

Under twenty-four headings and in certain tables, some attempt is made to indicate the extent and varied nature of the investigations undertaken.

During the time under consideration numerous samples were examined for the armed forces of Canada and for the United States troops situated in the Province and in the north.

There have been some 10,000 more examinations performed than in the year 1942, mostly in relation to the control of venereal disease and diphtheria. Serological blood examinations numbered 74,000. The standardized test is full of technical difficulties and requires most exacting supervision and careful control. The blood of all recruits in the armed forces is so examined and the results may be of wide significance. The results from approved laboratories only are accepted by the armed services and a small fee is paid.

An epidemic of typhoid fever due, on epidemiological grounds, to infected cheese is now in process of investigation and already one possible source has been discovered. In order that this important investigation might be carried out an encroachment on space devoted to teaching, fortunately for the moment unoccupied, was necessary as a result of the persistently overcrowded conditions in the laboratory. This has been referred to year after year in this report and has constituted a serious disadvantage to the personnel employed in carrying out even the routine examinations required, to say nothing of emergencies. The usual working conditions of a hard working staff have thus not been available.

Under war conditions technical staff for various well known reasons has been somewhat difficult to hold. During the year there were seven replacements including some key positions necessitating increased supervision, as specifically trained technical help was not available. Replacements included also a laboratory boy aged sixty-five years. Additional technical staff,



temporary and permanent have always been authorized as they have been required to meet situations as they arose and in this respect conditions have been most satisfactory.

During most of the time under consideration, the laboratory was under the administration of Dr. J. J. Ower, who has had the support of a devoted and loyal staff much of whose work is of such nature as to require attention at irregular hours.

In conclusion it should be said that we have always had the sympathetic assistance and support of the appropriate University authorities and that on the whole the year has been one of successful, if strenuous, accomplishment.

WORK PERFORMED IN THE PROVINCIAL LABORATORY DURING THE YEAR 1943

	Total 1942	1943 Total	Increase	Decrease
Sputum .....	651	568	.....	83
Diphtheria and Haemolytic Streptococci.	2,289	3,322	1,033	.....
Typhoid Fever .....	437	542	105	.....
Milks .....	1,108	1,002	.....	106
Waters .....	3,171	2,812	.....	359
Miscellaneous Examinations .....	3,750	4,813	1,063	.....
Mother's Milk .....	1	1	.....	.....
Urinalysis .....	95	118	23	.....
Medico-Legal Examinations (Blood, seminal, etc.) .....	5	11	6	.....
Cerebro Spinal Fluids for the Wasserman Test .....	.....	2,445	.....	.....
Bloods for the Wasserman Test .....	30,851	8,344	.....	22,507
Bloods for the Presumptive Kahn Test..	40,611	8,885	.....	31,726
Bloods for the Standard Kahn Test.....	840	57,605	56,765	.....
Smears for the Gonococcus .....	7,317	10,616	3,299	.....
Van Den Bergh Determination .....	1,511	1,467	.....	44
Pathological Histological Material .....	6,243	6,258	15	.....
Blood Smear Examinations .....	124	109	.....	15
Post Mortem Examinations .....	201	190	.....	11
Medico-Legal P.M. Examinations.....	24	32	8	.....
Ascheim Zondek Examinations .....	314	259	.....	55
Comparative Series .....	18	17	.....	1
Cerebro Spinal Fluid Examinations (Colloidal gold, Pandy) .....	2,099	2,551	452	.....
Bacteriological Post Mortem Examinations .....	52	48	.....	4
B. Tularensis Examinations .....	436	575	139	.....
B. Abortus Examinations .....	436	541	105	.....
Cattle Blood Examinations .....	1,560	1,882	322	.....
Typhoid Vaccine (10 c.c. quantity).....	492	470	.....	22
Autogenous Vaccine (25 c.c. quantity)...	10	14	4	.....
Stock Vaccine (25 c.c. quantity).....	11	14	3	.....
Poliomyelitis Convalescent Serum (20 c.c. quantity) .....	12	6	.....	6
	104,669	115,517	63,342	54,939

Table No. 2 shows the number of water and milk, special and blood containers prepared and distributed during the year 1943.

	1942	1943
Water Containers .....	3,000	2,800
Special Containers (Diphtheria, Sputum, Typhoid) ....	3,617	3,925
Wassermann Containers .....	42,431	60,100
Total .....	49,048	66,825

Table No. 3 shows the number of cubic centimeters of autogenous and other vaccines prepared and distributed during the year 1943.

	1942	1943
Typhoid Vaccine .....	4,920 c.c.	4,700 c.c.
Autogenous Vaccine .....	250 c.c.	350 c.c.
Stock Vaccine .....	275 c.c.	350 c.c.
Poliomyelitis Convalescent Serum .....	240 c.c.	120 c.c.
Total .....	5,685 c.c.	5,520 c.c.

Decrease in the preparation and distribution of Vaccines and Serums....165 c.c.



Table No. 4 shows the detail of some of the work done by the Laboratory in relation to the control of infectious diseases, during the year 1943.

Diseases	No. of Specimens		No. of Post Offices	No. of Physic-ians	Month.	Sputum.	Diph.	Fever.	Total.
	Posi-tives	Nega-tives							
Pulmonary Tuberculosis ..	63	505	...	...	Jan. ....	34	142	30	206
Diphtheria and Haemolytic Streptococci ..	124	3,198	...	...	Feb. ....	45	470	32	547
Typhoid Fever	169	373	211	436	Mar. ....	58	353	34	445
					Apr. ....	53	229	31	313
					May ....	62	184	41	287
					June ....	58	251	66	375
					July ....	78	149	45	272
					Aug. ....	50	426	65	541
					Sept. ....	41	327	50	418
					Oct. ....	19	221	61	301
					Nov. ....	28	202	44	274
					Dec. ....	42	368	43	453
						568	3,322	542	4,432

Table No. 5 shows the number of blood and cerebro spinal fluid examinations by serological tests for the diagnosis of syphilis during the year 1943.

Bloods examined—	
Wassermanns .....	8,344
Standard Kahns .....	8,885
Presumptive Kahns .....	57,605
Cerebro Spinal Fluids examined by Wasserman Test.....	2,445
Bloods and Cerebro Spinal Fluids Unsuitable for Examination... (N.S.Q., A.C., Haem., Accidentally broken)	1,779
Bloods Broken in Transit .....	187
Bloods and Cerebro Fluids 'Positive' to Reaction.....	2,457
Bloods and Cerebro Spinal Fluids 'Negative' to Reaction.....	54,896
Bloods Giving 'Doubtful Please Repeat' Reaction .....	580
Bloods Giving 'Please Repeat' Reaction.....	1,633
Number of Bloods and Cerebro Spinal Fluids examined in 1942..	64,124
Number of Bloods and Cerebro Spinal Fluids examined in 1943..	62,175
Decrease in number of specimens examined.....'	1,949
Decrease in per cent.....'	3.04%

Table No. 6—Report of Work done for Military Authorities during the year 1943.

	Airforce	Army	Navy	U.S.	Total
Milks (No. 2 Nutritional Lab. took over in Sept.).....	5	13	0	4	22
Waters — Bact.....	201	71	0	92	364
Smears — G.C. ....	131	184	1	2	318
T. B. Exams. ....	35	47	0	1	83
Widals .....	43	33	0	8	84
Urines .....	1	3	0	3	7
Misc. Bact. ....	573	111	4	29	717
Throat Swabs (Diphtheria and Haem. Strep.) .....	386	84	279	8	757
Wassermann — Blood .....	971	563	2	183	1,719
Wassermann — C.S.F. ....	120	121	0	65	306
Kahn — Presumptive .....	21,676	3,963	104	1,756	27,499
Kahn — Standard .....	1,112	766	5	264	2,147
Path. Specimens .....	147	101	0	60	308
Ascheim Zondek Tests .....	35	4	0	4	43
Blood Smears .....	8	5	0	2	15
Total Number of Tests for....	25,444	6,069	395	2,481	34,389

Table No. 7 gives the details of the bacteriological and chemical examinations of water performed throughout the year 1943.

Waters	1942	1943
Number of samples of water examined bacteriologically and found fit for human consumption .....	1,740	1,724
Number of samples of water examined bacteriologically and found unfit for human consumption.....	352	580
Number of samples of water examined bacteriologically and chemically and found fit for human consumption .....	417	163
Number of samples of water examined bacteriologically and chemically and found unfit for human consumption .....	199	107
Number of samples of water examined chemically and found fit for human consumption.....	323	204
Number of samples of water examined chemically and found unfit for human consumption.....	127	126
Number of samples of ice examined bacteriologically and found fit for human consumption.....	13	8
Number of samples of ice examined bacteriologically and found unfit for human consumption.....	0	0
Total .....	3,171	2,812

Table No. 8 gives the details of the bacteriological, bacteriological and chemical, chemical examinations of milk performed throughout the year 1943.

	1942	1943
Number of samples of milk examined bacteriologically..	877	795
Number of samples of milk examined bacteriologically and chemically .....	152	131
Number of samples of milk examined chemically.....	0	9
Number of rinse waters examined bacteriologically.....	27	7
Number of ice creams examined bacteriologically.....	52	60
Total .....	1,108	1,002
Number of samples of milk examined showing low butter fat .....	25	21
Number of pasteurized milk samples examined bacteriologically with a bacterial count above 30,000.....	139	136
Number of non-pasteurized milk samples examined bacteriologically with a bacterial count above 100,000....	86	117
Number of pasteurized milk samples examined.....	522	507
Number of non-pasteurized milk samples examined.....	461	428

#### SERA AND VACCINES DISTRIBUTED—JANUARY, 1943-DECEMBER, 1943

	Pkgs.		
Smallpox Vaccine:		Tetanus Antitoxin:	
10 points .....	4,554	1,500 units .....	318
1 point .....	494	5,000 units .....	22
Diphtheria Antitoxin:		10,000 units .....	18
1,000 units .....	514	Anti-Meningococcus Serum:	
5,000 units .....	53	20 c.c. vial.....	72
20,000 units .....	239	Pertussis: 1 person.....	10,041
Diphtheria Toxoid:		Staphylococcus Toxoid: 2 c.c. vial	285
1 person .....	6,593	Staphylococcus Antitoxin:	
3 c.c. ....	1,239	20,000 units .....	3
6 c.c. ....	1,795	Anti-Pneumococcus Serum:	
1 person diluted.....	41	20,000 units .....	20
2½ c.c. reactors.....	5	Gas Gangrene:	
Diphtheria Toxoid and		4,000 units .....	..
Pertussis Vaccine (combined):		10,000 units .....	124
1 person .....	2,016	Typhoid-Paratyphoid Vaccine:	
6 person .....	388	(Connaught Laboratories)	
Schlick Test: 25 persons.....	489	1 person .....	76
Scarlet Fever Antitoxin:		10 c.c. ....	163
3,000 units, vial.....	119	Rocky Mountain Spotted Fever	
9,000 units, syringe.....	350	Vaccine:	
3,000 units, syringe.....	359		Bottles
Scarlet Fever Toxin:	½	5 c.c. ....	1
1 person .....	3,032	10 c.c. ....	5
6 person .....	3,962	55 c.c. ....	5
Dick Test: 10 person.....	907	60 c.c. ....	11



## COMMERCIAL VALUE OF WORK IF MINIMUM CHARGE WERE MADE, 1943

Sputum .....	568	\$ 1.00	\$ 568.00
Diphtheria and Haemolytic Streptococci..	3,322	1.00	3,322.00
Typhoid Fever .....	542	1.00	542.00
Milks .....	1,002	3.00	3,006.00
Waters .....	2,812	10.00	28,120.00
Miscellaneous Examinations .....	4,813	3.00	14,439.00
Mother's Milk .....	1	2.00	2.00
Urinalysis .....	118	3.00	354.00
Medico Legal Examinations .....	11	5.00	55.00
Cerebro Spinal Fluids for Wasserman Test....	2,445	3.50	8,557.50
Bloods for Wasserman Test.....	8,344	3.50	29,204.00
Bloods for Standard Kahn Test.....	8,885	3.50	31,097.50
Bloods for Presumptive Kahn Test.....	57,605	3.50	201,617.00
Smears for the Gonococcus.....	10,616	1.00	10,616.00
Van Den Bergh Determination.....	1,467	1.00	1,467.00
Pathological Histological Material.....	6,258	5.00	31,290.00
Blood Smear Examinations.....	109	2.00	218.00
Ascheim Zondek Test.....	259	5.00	1,295.00
Comparative Series .....	17	3.00	51.00
Cerebro Spinal Fluid Examinations.....	2,551	2.00	5,102.00
(Colloidal Gold, Pandy)			
Post Mortem Examnations (Bact.).....	48	5.00	240.00
B. Abortus Examinations.....	575	1.00	575.00
B. Tularensis Examinations.....	541	1.00	541.00
Typhoid Vaccine (10 c.c. quantity).....	470	.25	117.50
Autogenous Vaccine (25 c.c. quantity)....	14	5.00	70.00
Poliomyelitis Serum (20 c.c. quantity)....	6	2.50	15.00
Stock Vaccine (25 c.c. quantity).....	14	5.00	70.00
Total.....			\$372,552.00
Cattle Blood Examinations.....	1,882	.10	180.20
			<hr/>
			\$372,740.20

## Public Health Nursing Branch

(BLANCHE A. EMERSON, R.N., *Acting Superintendent.*)

I beg to submit the Annual report of the Public Health Nursing Branch for the year ending December 31, 1943.

Owing to the large influx of settlers in the Alder Flats district during the last few years, it was deemed advisable to discontinue the Teaching Centre, and a permanent district was organized in that area.

There are forty centres operated by the Public Health Nursing Branch as follows:

*Urban*—Calgary, Edmonton, Medicine Hat, Redcliff, Drumheller, Vegreville.

*Rural*—Worsley, Hines Creek, Bonanza, Blueberry Mountain, Valley View, Smith, Tangent, Grouard, Kinuso, Whitemud Creek, Fort Assiniboine, Fawcett, Dixonville, Mackay, Peers, Whitecourt, Lindale, Pendryl, Alder Flats, Grassland, Breynat, Newbrook, Maloy, Plamondon, Tulliby Lake, Youngstown, New Brigden, Vauxhall, Hilda, Lomond, Sunnybrook, Hemaruka, Warburg, Bow Island.

We were sorry to lose Dr. Margaret Savage from Dixonville, but owing to the vacancy at Cold Lake, she was prevailed upon to take over the practice there. The Committee then re-decorated and furnished the cottage, and a Public Health Nurse was placed at that point.

Miss Kate S. Brighty, Superintendent of Nurses since 1929, retired from active service in March 1943. The valuable service she rendered this Department was recognized by a suitable presentation from both the office and field staff of the Department. It was with regret that her resignation was received.

Miss Blanche A. Emerson was given Leave of Absence from the Edmonton Child Welfare Clinic to act as Superintendent of Nurses until a permanent appointment was made.

Miss V. Bransager, Miss M. Souch and Miss M. Lyons left the service to take up other work. The following resigned to be married: Miss Mary Plant, Miss Amy Strawson, Miss Kathleen Oriold, Miss E. C. Stewart, Miss Thordis Arnason.

Miss Lois Bird left to take a Post-Graduate Course in Public Health Nursing in McGill University, Montreal.

Miss Mildred E. Blake and Miss M. Ethel Jones took one year's leave of absence.

Miss Hazel O. Mann resigned to become Superintendent of the Nursing Mission in Lethbridge.

Miss Jessica D. Lee enlisted with the R.C.A.M.C., and is now serving with the forces in England.

Mrs. Barbara Eben-Ebenau resigned to accept a position on the teaching staff of the University of Alberta.

Short leaves of absence were granted to Miss Elizabeth Standing; Miss Beth Laycraft; Miss Anne Nordtorp and Miss



Amy V. Wilson to take the Summer Course in Public Health Nursing at the University of Alberta from May until August.

Miss Mary H. Willis, Miss B. Plant, Miss Dorothy Kaufman and Miss Beth Laycraft took Leave of Absence to attend the Obstetrical Course at the University of Alberta from October to December.

Miss Elizabeth Wallwork returned to the staff following leave of absence of one year during which time she took a Post-graduate Course in Public Health Nursing at McGill University, Montreal.

The following new appointments were made: Miss Dorothy Myers, Miss Margaret R. Burton, Miss Hazel I. Dearing, Miss Marie E. Dufresne, Miss Florence M. Harrison, Miss Esther S. Hedlin, Miss Kathleen A. Herman, Miss Hannah Goossen, Miss Isabel Miller, Miss Reina E. Peasley, Miss Naomi Pow, Mrs. Nina Renwick, Miss Leila Watt, Miss Mabel Johnson, Mrs. Mona Tonneson, Miss Margaret Hodgson.

The following nurses did relief work during the year: Mrs. V. G. Froome, Miss M. E. Clendenan, Mrs. Nellie Brown, Miss Helen Jamison, Miss M. A. K. Davis, Mrs. S. E. Heldal.

In the districts during this current year there have been 279 maternity cases and 59 abortions, totalling 337 obstetrical cases. It is very gratifying to note the number of pre-natal cases coming to the nurse's office for advice. This pre-natal service is given whether the patient goes to hospital or is confined at her home. Due to the shortage of doctors in the rural areas, the district nurse is filling a place hitherto undreamed of. At many points throughout the Province the doctor is not able to make home visits. The nurse in the adjoining district keeps in constant touch with the doctor regarding patients who otherwise would need a home visit from the doctor. She co-operates with the Canadian Institute of the Blind in giving assistance to blind cases in her district. There has been a great increase in the number of schools served by the district nurses where regular school inspections and immunization programmes are carried out. Schools in the adjoining territory to a district have likewise received this same service, the School Divisions being responsible for transportation and other expenses:

#### STATISTICAL REPORT

No. Home Visits .....	2,894	No. Cases sent to Hospital .....	891
No. Office Consultations .....	21,906	No. Visits to Indian Reserves .....	28
No. Dressings .....	4,089	No. Dental Extractions .....	199
No. Medical Cases .....	12,981	Communicable Diseases .....	837
No. Surgical Cases .....	2,069	No. Vaccinated .....	2,330
No. Obstetrical Cases .....	279	No. Scarlet Fever Immunizations .....	446
No. Abortions .....	49	No. Pertussis Vaccinations .....	415
No. Pre-natal Visits .....	298	No. Typhoid Inoculations .....	232
No. Pre-natal Consultations .....	1,409	No. Diphtheria Toxoid .....	9,764
No. Child Welfare Visits .....	322	Staphylococci Toxoid .....	1
No. Deaths (under 1 year) .....	19	Catarrhal Vaccine .....	7
No. Deaths (over 1 year) .....	62	Fees Collected .....	\$9,078.67

Miss Isabel Miller submits the following report for the Edmonton Child Welfare Clinic for the year ending December 31, 1943.

This has been an exceptionally busy year at the Baby Clinic. The increase in population and birthrate, also lack of doctors, caused us to have a much higher number of new admissions



there being 1,636. Many of these are Americans and Soldiers' wives temporarily living in Edmonton.

Due to shortage of nurses at the hospitals our student assistance at clinics during the year was very intermittent and is now withdrawn.

The B.Sc. Class from the University of Alberta were with us for observation at clinics and for field work. We also had nurses from the General, Royal Alexandra and University Hospitals at clinics.

Dr. Folinsbee and Dr. Newell were in attendance at Tuesday and Friday clinics as usual, and Dr. F. S. Macpherson relieved them for vacations in the summer.

Miss Blanche Emerson has been on leave of absence from the Clinic since the middle of March. Miss Jones relieved for two months, following that Miss Miller has been on duty. During summer vacations both clinic nurses were relieved by Mrs. Christenson. For some weeks during the early summer we had a woman from the Citizens' Volunteer Bureau helping at Clinics.

There were 147 out of town cases at the Clinic during the year.

Miss M. F. Lavell, R.N., Supervisor of the Calgary Child Welfare Clinic reports as follows:

The Clinic is open five afternoons a week. On four afternoons a doctor is in attendance, one afternoon the Clinic is held with nurses only in attendance.

At these clinics 3,651 infants were examined by Dr. Roach. It is the custom in the Calgary Clinic to make a special appointment for every child at three years of age to be given a complete physical examination. Where defects are found among those in poor circumstances, the case is followed up by a Clinic nurse. 1,016 complete physical examinations were given by all of the doctors to pre-school children. 450 of these were without defects.

Our thanks are due to the following. The Good Cheer Club for cod liver oil, clothes, layettes, glasses, etc., cod liver oil from the American Women's Club. Cod liver oil and infant foods from various Infant Food Companies. Woollen clothes and bedding from Hounsfeld Heights Club. Clothes and Christmas toys from Dorcas Club for pre-school children.

Two nurses from the General Hospital and three nurses from the Holy Cross Hospital, each completed two months instruction and observation. Four nurses from the University Hospital, (B.Sc. Course) completed two weeks each. Six student groups of twenty each, were there for observation and instruction.

There were 33 visits to Private Hospitals during the year, and five cases investigated for free Insulin.

Two talks were given to organization meetings at outside points and fifteen letters were sent out regarding infant feeding.

A Clinic was opened at Bowness during the year. Ten Clinics were held with a total attendance of 228 and 129 visits were made in the new district.



### MEDICINE HAT CHILD WELFARE CLINIC

The following report was submitted by Miss M. E. Hagerman, Supervisor of the Child Welfare Clinics at Medicine Hat and Redcliff:

A Child Welfare Clinic is held in Medicine Hat every Tuesday and Friday afternoon, and one is held in Redcliff every second Wednesday afternoon. A Venereal Disease Clinic is held on Thursday afternoon. Dr. Dixon is in charge of the V. D. Clinic. A Tuberculosis Clinic is scheduled for every second month. Only two Clinics were held during the year, but Dr. Baker, Medical Superintendent of the Central Alberta Sanatorium, forwarded a list of persons scheduled for re-examination at the clinic, asking for these and cases referred by the local doctors to be X-rayed. Appointments were made for these and the films were forwarded to the Central Alberta Sanatorium.

A Tuberculosis Survey sponsored by the local Kinsmen's Club, was carried out in the Cypress area of the Medicine Hat School Division No. 4, Suffield, Alderson, Bowell, and the Manyberries district. Children and some adults were Tuberculin tested. Children and the parents of children, with a positive re-action were X-rayed, and the films were forwarded to the Sanatorium. Number tested, 878. Number with positive re-action, 62.

One Day Well Baby Clinics were held at the following centres: Manyberries, Walsh, Irvine, Tilley, Rainier, and with Miss Devlin, District Nurse, at Schuler. The total attendance was 141, or an average attendance of 23.5 at the six Clinics.

Dr. Dixon was given assistance with vaccinations, and prophylactic treatment for tick bites at Manyberries. We made three trips.

The following is the report of the Immunization Clinics held in Medicine Hat, and in the Medicine Hat rural schools, and at the following points: Foremost, Etzikom, Fox and Thelma, with Dr. Hunt, Lethbridge in charge. Miss Kaufman, Public Health Nurse at Bow Island, assisted at these Clinics. Dr. Armstrong was in charge of the following centres: Manyberries, New Home, Ranchville, Suffield, Walsh, Alderson, Bowell, Irvine, and Medicine Hat Rural. Medicine Hat City schools used the Child Welfare office.

	Number Immunized for				Total
	Diphtheria	Scarlet Fever	Pertussis	Smallpox	
Foremost School Division .....	566	138	.....	564	681
Medicine Hat Schools and Medicine Hat School Division .....	757	779	.....	837	888
Pre-school and Infants, City .....	103	71	89	75	168
Totals .....	1,426	988	89	1,476	1,737
Medicine Hat City Schools .....	117	178	116	143	children
Totals .....	1,603	1,166	205	1,619	

City schools—Re-inforcing dose for Scarlet Fever, 384; Pertussis, 93.

Our thanks are due to Miss Carson, Relief Officer, and to the Red Cross Society for layettes that have been given to several needy families in the rural districts.

During the year four lectures were given on Public Health to the nurses-in-training at the Medicine Hat General Hospital. An under-graduate nurse is in attendance at the Baby Clinics, and spends two weeks taking further practical instruction.



Letters asking for advice from mothers in the outlying districts, and from mothers who have attended the Clinic and moved away, were received and answered. Home visits, and follow-up work in connection with the various Clinics were made.

Foremost School Division No 3 has paid for transportation (gas and oil) for immunization work done in their Division. Medicine Hat School Division No. 4 is going to pay transportation expenses (gas and oil) for the Tuberculosis Survey and immunization work done in their Division.

#### DRUMHELLER CHILD WELFARE CLINIC

Miss Margaret R. Burton, B.Sc., took over the Drumheller centre on March 20th, and submits the following report:

Forty-eight Child Welfare Clinics were held in Drumheller during the year. Child Welfare Clinics were established at Newcastle, East Coulee and Rosedale during the summer. The total attendance at these and all Clinics was 828. The Clinic at Rosedale is held every two weeks, and at East Coulee and Rosedale once a month. The Drumheller Clinic is held once a week. Anti-Tuberculosis Clinics are held the first Thursday in every month. During July a survey was carried out by a nurse sent out by the Kinsmen's Club and assistance was given. Eleven Clinics were held with a total attendance of 165, or an average attendance of 15.

During July and August a course in "Emergencies in War" was given to the Morrin Red Cross Group. The lectures were well attended and the women seem very interested.

From July 19th to 26th, I attended Girls' Camp as nurse. Lectures in Home Nursing were given to the girls, and in health education.

Two neglected children were taken to the Lacombe Home at Midnapore. Several trips were arranged for the Canadian Institute for the Blind. A comfort allowance from the Institute was looked after each month because the person to whom it is sent is incapable of looking after it. Inquiries and arrangements were made to have two children whose father is overseas moved from the Woods' Home to the Lacombe Home, and a case was investigated for the Calgary Council of Social Agencies. Visits were made to soldiers' families.

A generalized programme of Public Health is also carried out, including school inspections and a programme of Immunization.

#### VEGREVILLE CHILD WELFARE CLINIC

Miss Mary R. Black, R.N., Supervisor of the Child Welfare Clinic at Vegreville, is also engaged in a generalized programme of Public Health Nursing, and reports that the greater part of the work is done in the schools in the Municipality of Norma, and the Public and High Schools in the Town of Vegreville. The Child Welfare Clinic is held each Friday from 2 to 5 p.m. Children are weighed and measured, diet slips and other literature given to the mothers. All cases requiring medical attention are referred to their family doctor. Vaccinations and inoculations of infants and pre-school children is encouraged and given



when requested. The attendance in both infants and pre-school children shows an increase over last year. The pre-school attendance increased considerably due to the vaccinations and inoculations on Friday afternoon. This work is interfering with the Well Baby Clinics and is being transferred to Saturday mornings wherever possible. Vaccinations and inoculations are also carried out in the Municipality. Inspections for Mothers' Allowances are carried out for the Municipality, patients are conveyed to hospital and Government Clinics when necessary. The nurses-in-training in the hospital each spend a month with the nurse in this district.

Sincere appreciation is extended to the Canadian National Institute for the Blind; the I.O.D.E., and the Women's Institute for their splendid co-operation, also to the doctors, Sisters and nurses at the hospital for their advice and assistance, and to the teachers for their co-operation in the school work.

## STATISTICAL REPORT

## EDMONTON

Clinics held .....	150	Babies on roll .....	2,641
With doctor in attendance .....	100	Pre-school children in attendance .....	1,067
Number in attendance .....	6,716	New admissions .....	240
Babies in attendance .....	5,649	Re-admissions .....	67
Breast fed .....	987	Pre-school children discharged .....	505
Bottle fed .....	3,284	Pre-school children on roll .....	964
Mixed feedings .....	292	Referred to family doctor .....	67
Other feedings .....	1,146	Average attendance .....	45
New babies admitted .....	1,320	Out-of-town cases .....	147
Babies re-admitted .....	9	Number of home visits .....	2,521
Transferred to Pre-school clinic .....	176	Number on roll .....	3,605
Babies discharged .....	715	Number of deaths .....	6

## CALGARY

		Bowness	Calgary
Total number of clinics held .....		10	205
Total number in attendance .....		228	9,612
Number of babies in attendance .....			7,236
Breast fed .....	875		
Bottle fed .....	1,815		
Mixed feeding .....	2,009		
Other feeding .....	2,537		
Number of babies on roll .....		2,363	
Number of pre-school children on roll .....		4,308	
Number infectious diseases found at clinic .....			6,671
Number home visits by clinic nurses .....			2
Number infants referred to family doctor .....	15	129	3,500
Pre-schools referred to family doctor .....	88		
Number of deaths (infants) .....			103
Inoculations and vaccinations completed: .....			6
Diphtheria .....		20	1,192
Scarlet Fever .....			189
Pertussis .....			180
Vaccinations .....		20	137
Typhoid Fever .....			4
Number visits to baby shelters .....			108
Number visits to private hospitals .....			33
Number out-of-town cases .....			34
Number letters regarding infant feeding .....			15



## MEDICINE HAT AND REDCLIFF

	Redcliff	Medicine Hat
Total number clinics held .....	23	102
Total number in attendance .....	353	3,398
Number of babies in attendance .....	281	2,833
Breast fed .....	68— 834	
Bottle fed .....	106—1,276	
Mixed feeding .....	7— 93	
Other feeding .....	80— 630	
Number new babies admitted .....	36	383
Number re-admissions .....		3
Number transferred to pre-school clinic .....	11	95
Number referred to family doctor .....	4	39
Number babies discharged .....	9	34
Number deaths (babies) .....		2
Average attendance .....	15.3	33.3
Number pre-school children in attendance .....	72	565
Number new cases admitted .....	6	50
Number of re-admissions .....		4
Number referred to family doctor .....	2	20
Number discharged .....	37	37
Number cases on roll .....	40	647
Number out-of-town cases .....	2	163
Total number of home visits .....	73	677

## DRUMHELLER

Clinics held:		Rosedale .....	41	
Drumheller .....	48			828
Newcastle .....	10	Number inoculated and vaccinated:		
East Coulee .....	3	Diphtheria .....		11
Rosedale .....	5	Scarlet Fever .....		10
	66	Diphtheria and Pertussis combined .....		12
Number in attendance:		Pertussis .....		5
Drumheller .....	680	Smallpox .....		2
Newcastle .....	66	Home visits made .....		139
East Coulee .....	41	Number of interviews .....		16
		6 mos.		
Number of babies in attendance .....		Newcastle	Drumheller	
Breast fed .....	24—119	57	633	
Bottle fed .....	25—410			
Mixed feeding .....	5— 35			
Other feeding .....	3— 54			
Number new babies admitted .....		8	110	
Number re-admissions .....			10	
Number transferred to pre-school clinic .....			2	
Number referred to family doctor .....		2	41	
Number transferred to Newcastle clinic .....			15	
Number babies discharged .....			128	
Number babies on roll .....		23	140	
Total number of pre-school children .....		9	47	
Number new cases admitted .....		3	11	
Number cases re-admitted .....			2	
Number referred to family doctor .....		1	6	
Number pre-school children discharged .....			29	
Number transferred to Newcastle clinic .....			8	
Number of cases on roll .....		11	49	
Number out-of-town cases .....			118	

## VEGREVILLE

Number clinics held .....	43	Referred to family doctor .....	11
Number in attendance .....	401	Babies discharged .....	49
Babies in attendance .....	262	Cases on roll .....	85
Breast fed .....	60	Pre-school children in attendance .....	139
Bottle fed .....	167	Pre-schools discharged .....	5
Mixed feeding .....	3	Pre-school cases on roll .....	11
Other feeding .....	35	Number of home visits .....	42
New cases admitted .....	41	Average attendance .....	9.32
Transferred to pre-school clinic .....	9		



## DEFECTS NOTED IN EDMONTON, CALGARY, MEDICINE HAT, REDCLIFF, DRUM-HELLER, NEWCASTLE AND VEGREVILLE CHILD WELFARE CLINICS, 1943

	Pre- Babies. school		Pre- Babies. school	
<b>Eyes:</b>				
Conjunctivitis .....	13	2	Hypospadias .....	1
Infected eye .....	1	1	Undescended testicles .....	1
Injury to eye .....	1	.....	Swollen testicles .....	2
Sty .....	5	1	<b>Congenital:</b>	
Strabismus .....	2	1	Congenital idiocy .....	1
Closed tear duct .....	1	.....	Hydrocephalus .....	2
Cyst on eyelid .....	1	1	Microcephalus .....	1
Eyes .....	78	59	Congenital heart .....	1
<b>Ears:</b>			Blindness .....	1
Otitis media .....	11	6	Nevus .....	10
Discharging ear .....	1	1	Facial paralysis .....	1
Ears .....	39	30	Webbed toes .....	1
<b>Nose:</b>			Congenital malformation .....	11
Foreign body in nose .....	2	.....	Mentally deficient .....	1
Epistaxis .....	1	1	Nervous disorders .....	4
Rhinitis .....	1	.....	Orthopaedic .....	3
Nose .....	3	4	<b>Skin Diseases:</b>	
<b>Throat:</b>			Ringworm .....	5
Enlarged tonsils .....	10	471	Infected bites .....	1
Enlarged adenoids .....	7	224	Burn .....	4
Enlarged cervical glands .....	21	35	Eczema .....	234
Tonsillitis .....	3	.....	Millaria .....	29
<b>Mouth:</b>			Intertrigo .....	10
Thrush .....	15	.....	Ammoniacal dermatitis .....	7
Stomatitis .....	9	2	Seborrhoea .....	4
Trench mouth .....	1	1	Sunburn .....	1
Tongue tie .....	5	1	Frost bites .....	1
Cariou teeth .....	4	778	Urticaria .....	1
Tooth abscess .....	1	1	Bed bug bites .....	1
Mouth .....	11	8	Impetigo .....	25
<b>Chest:</b>			Scabies .....	1
Malformation of chest .....	1	.....	Other skin conditions .....	41
Colds .....	6	4	<b>Miscellaneous:</b>	
Cough .....	3	.....	Tenae Abdomen .....	1
Bronchitis .....	11	2	Jaundice .....	1
Asthma .....	1	1	Inflammation of kidneys .....	1
<b>Digestive:</b>			Infected toe .....	2
Nutritional Anaemias .....	40	5	Infected leg .....	1
Anaemia .....	13	22	Infected finger .....	2
Rickets .....	13	1	Pediculosis .....	1
Diarrhoea .....	181	3	Scabies .....	3
Malnutrition .....	18	29	Injury to lip .....	1
Fat indigestion .....	1	.....	Injury to hip .....	1
Projectile vomiting .....	1	.....	Night terrors .....	1
Anorexia .....	3	7	Muscular rheumatism .....	2
Pyloric Stenosis .....	1	.....	Moise umbilicus .....	1
Pin worms .....	1	4	Dog bite .....	1
<b>Genito-Urinary:</b>			Mastitis .....	2
Enuresis .....	5	.....	Torticollis .....	2
Balanitis .....	1	1	Flat feet .....	3
Urethral ulcer .....	2	.....	Heart murmur .....	3
Phimosis .....	186	30	Enlarged heart .....	1
Inguinal hernia .....	6	5	Cyst on neck .....	1
Umbilical hernia .....	92	.....	Lohdosis .....	1
Hernia .....	57	4	Prematurity .....	2
Hydrocele .....	6	.....	Furunculosis .....	5
Rectal fissure .....	1	.....	Cardiac disturbance .....	11
Strangulat'd inguinal hernia .....	1	.....	Other conditions .....	76

Eleven districts have reported the following work done in urban and rural schools:

## SCHOOL INSPECTION WORK

Children inspected .....	2,448	Malnutrition .....	309
Second inspections .....	791	Nervous symptoms .....	9
Classroom inspections .....	27	Pediculosis .....	6
Number treatments .....	127	Skin diseases .....	65
Not vaccinated .....	591	Mentality .....	10
Number with defects .....	2,153	Other skin conditions .....	32
Number without defects .....	1,046	Excluded for communicable or infectious diseases .....	31
Number vaccinated .....	146	<b>Results obtained:</b>	
Inoculated for diphtheria .....	642	Glasses fitted .....	32
<b>Suspect Defects:</b>		Glasses refitted .....	22
Vision .....	527	Tonsils removed .....	88
Glasses .....	52	Adenoids removed .....	86
Hearing .....	60	Dental treatment .....	122
Throat .....	753	Surgical treatment .....	4
Nasal .....	140	Medical treatment .....	5
Glands .....	164	Schoolroom talks .....	32
Teeth .....	1,328	Home visits .....	199
<b>Symptoms of:</b>		Demonstrations .....	2
Eye disease .....	7	Interviews .....	62
Ear disease .....	4	Public lectures .....	4
Orthopaedic defects .....	8		
Posture .....	73		



Home Nursing Classes were directed from this office for the purpose of giving instruction in Home Nursing and First Aid to women throughout the Province. Graduate nurses were the instructors. The greater portion of the teaching, however, was done by nurses in the Health Units and on our Provincial Nursing staff. The following is a list of points where classes were held, the number enrolled, and the number receiving certificates:

Point	Enrolled	Certificated
Bon Accord .....	28	22
Bow Island .....	16	15
Clover Bar Health Unit (2) .....	76	22
R.A. Hospital, Edmonton .....	10	6
Fort Saskatchewan (2) .....	56	56
Holden (3) .....	62	45
Rosebud Health Unit .....	16	11
Maloy .....	34	19
Pendryl .....	22	20
Smith .....	15	3
Sturgeon Health Unit (2) .....	74	74
Onion Lake .....	18	18
Totals (12 points) .....	427	311

Literature sent out from the Nursing Branch during the year is as follows:

Canadian Mother Books .....	590
Pre-natal letters .....	575
Post-natal letters .....	1,590
Supplementaries .....	1,590
Pre-school letters .....	1,124
School age letters .....	220
In between years .....	145
To years of discretion .....	148
	5,982

It is a source of great satisfaction to the Nursing Branch to notice the great demand on the part of the public for immunization against all communicable diseases. The nurses have not only given this service in their own districts, but also to the schools in the adjacent territory wherever possible. Emphasis has been placed on having babies over six months immunized against whooping cough and diphtheria. The parents have been very co-operative. Several of the districts have reported there was less illness among their children due to the services given by the resident nurse.

A general survey was made of the district nursing services, and the cottages occupied by the nurses. The local committees were found to be co-operative, and ready to put into effect changes and improvements asked for in the different cottages. In every case there is plenty of money available to make these improvements possible, the difficulty, of course, being the shortage of materials and labour.

A Refresher Course was held in March at which the newer drugs, and newer methods of treatment, as well as up-to-date methods of immunization were discussed.

In many districts the committees stated that the health of the community had improved, due, they felt, to the preventive teaching thus made available through the district nursing service.

In conclusion I wish to thank the nurses on the staff for their splendid co-operation during the change of personnel, and for their efficient service and loyalty to the Department.



## Hospitals Division

(L. A. PATTERSON, C.A., *Secretary of Department of Public Health*)

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The total number of hospitals approved under the provisions of The Hospitals Act of the Province of Alberta as at the 31st of December, 1943, was 97.

The total grant paid to hospitals and homes for the year 1943 amounted to \$555,334.50.

On the basis of returns received from 93 approved hospitals, the total bed capacity, including cribs, was 5,013 and 863 bassinets, and a total bed complement of 4,999 and 846 bassinets. The bed complement (including cribs) is classified as follows: Medicine and Surgery, 3,347; Obstetrics, 734; Tuberculosis (including T.B. Divisions), 224; Contagious Diseases, 136; Incurables (Daysland, Macleod and St. Joseph's, Edmonton), 21; Isolation, 122; others, 410. These figures do not include the Central Alberta Sanatorium, which has accommodation for 210 patients.

On the basis of a population in the Province of 792,000, we had one hospital bed (including cribs and bassinets) for every 135 of the population, or 7.4 for every 1,000 population; 125,446 patients were treated during the year, 109,011 adults and children, 16,435 newborn. The total patient days of all patients admitted was 1,637,843, being 1,201,855 for adults and children, 165,988 newborn. This means that in 1943, hospital treatment was provided for 15.8 per centum of the population, or one in every six persons.

There was an average daily admission of patients to hospital of 343.7. The average number of days spent in hospital by each patient was 9.8, or 9.7 for adults and children, 10.1 for newborn, excluding Incurables, Orthopaedic, S.C.R., Polio, and Tuberculosis Division cases.

The average number of patients in hospital daily was 2,889.18 or one in every 274.1 of our population. Each bed provided accommodation for 21.5 patients during the year.

The staff summary is as follows: Executive 93, Clerical 171, Salaried Doctors 33, Technicians 86, Internes 30, Nurses, Graduate 713, Student 812, Probationers 94, Affiliates 21, Dietitians, Graduates, 20, Student 5, Orderlies 338, all other employees 1,115.

There were 10 Nurses' Training Schools in the Province. The number of nurses graduating during the year was 218.

During the year, 16,272 maternity cases were cared for. These cases comprised 12.9 per cent. of the total cases admitted.

Living births were: Male 7,853, female 7,555, making a total of 15,408. There were 293 stillborn.

The maternal deaths reported were 28, these giving a death rate of .172 per centum of total maternity cases admitted and 1.817 per 1,000 living births.



The living births in Alberta for 1943, excluding Indians, were 18,443. Of this number, 83.5 per centum took place in Government approved hospitals.

The approved hospitals reported that 27,189 general and 6,591 spinal anaesthetics were administered, and 13 deaths resulted from these.

There were 634 autopsies performed. Infections developed in hospital totalled 285, divided into: Medical 69, Surgical 100, Obstetrical, mothers 44, infants 72.

The number of communicable diseases cases treated, excluding typhoid fever and tuberculosis, totalled 2,311; typhoid fever numbered 45, and tuberculosis, reported by general hospitals, 250.

Among other cases treated in hospital, there were 2,635 cardiac, 1,946 rheumatic, 599 goitre, 191 venereal, 246 alcoholics, and 1,323 malignant diseases cases.

There were 262 deaths within ten days of surgical operations, and 850 within 48 hours after admission. Communicable diseases accounted for 58 deaths.

The approved hospitals reported 339,191 laboratory examinations and 61,489 X-rays.

The total operating expenditure of approved hospitals for the year 1943 was \$4,700,498.46, divided as follows: Administration, \$492,929.55; Professional Care, \$1,781,860.57; Kitchen and Dining Room, \$1,140,338.47; General House and Property, \$844,322.41; and Maintenance, \$441,047.46.

Revenue of these hospitals amounted to \$5,346,177.47.

The average cost per patient day was \$3.57.

The average revenue per patient day was \$3.97.

The average cost was divided as follows: Administration, 10.48%; Professional Care, 37.91%; Kitchen and Dining Room, 24.26%; General House and Property, 17.96%; and Maintenance, 9.38%.

The statistical and financial information given in this report has been obtained from financial and statistical returns received from the approved hospitals for the year 1943.

The following statements are submitted giving the details of each approved hospital in the Province:

No. 1.—Bed capacity, number of patients, etc.

No. 2.—Patient days.

No. 3.—Staff.

No. 4.—Nursing statistics, cases treated.

No. 5.—Surgical operations, infections, deaths and other hospital statistics.

No. 6.—Expenses of administration, professional care, kitchen and dining room, general house and property, and maintenance.

No. 7.—Revenue.



No. 8.—Costs per patient day and earnings per patient day with percentage of costs over the different divisions of expenses.

No. 9.—Municipal Hospitals Statistics.

#### MUNICIPAL STATISTICS

Statistics for Municipal Hospitals are included with the other approved hospitals of the Province, but for convenience a separate table of some selected statistics is attached.







	417	65	58	540	417	65	58	540	260	58	37		62	4,223	6,455	837	783	5,060	7,238	12,298	
Edmonton, Royal Alexandra	110	10	22	142	110	10	22	142	93	23	4		1,241	2,015	300	295	1,541	2,310	3,851		
Edmonton, St. Joseph's	12	2	4	14	12	2	4	14	14	6	14		1,183	1,933	233	217	1,416	2,150	3,566		
Edmonton, University of Alberta:	24	2	4	30	24	2	4	30	18	6			1,667	2,564	290	269	1,957	2,833	4,790		
(b) S.C.R.	29	5	7	41	29	5	7	41	18	9			624	928	110	75	734	1,003	1,737		
(c) Orthopaedic	19	2	5	26	17	2	5	24	19	2			129	261	57	50	186	311	497		
(d) Polio	13	1	1	15	13	1	1	15	12	2			145	204	24	18	169	222	391		
(e) T.B. Division	10	6	6	16	10	6	6	16	6	4			264	327	39	37	303	364	667		
Edson, St. John's	30	3	5	38	29	3	5	37	26	5			8	840	1,155	86	94	926	1,249	2,175	
Elk Point, Municipal	26	1	10	37	32	1	10	43	23	10			54	54	15	54	54	15	69	15	
Empress, Cottage	20	5	5	25	20	5	5	25	13	2			1183	1933	233	217	1416	2150	3566	3	
Fairview, Community	21	3	5	29	12	7	9	18	12	2			1667	2564	290	269	1957	2833	4790	6	
Ft. McMurray, St. Gabriel's	14	4	4	22	9	7	9	25	11	1			624	928	110	75	734	1003	1737	9	
Ft. Smith, General	35	3	4	42	35	3	4	42	26	8			129	261	57	50	186	311	497	3	
Ft. Vermilion, St. Theresa	9	4	4	13	9	4	4	13	6	3			145	204	24	18	169	222	391	3	
Galahad, St. Joseph's	21	3	7	31	19	3	7	29	17	12			264	327	39	37	303	364	667	3	
Grande Prairie, Municipal	42	2	16	60	42	2	16	60	38	6			1,241	2,015	300	295	1,541	2,310	3,851	6	
Grimshaw, Battle River	7	1	4	12	9	1	4	18	12	2			177	412	43	44	220	456	676	3	
Hanna, Municipal	50	1	10	60	45	10	10	55	39	9			5	5	5	5	5	5	5	5	6
Hardisty, St. Anne's	20	1	6	27	20	1	6	27	18	3			177	412	43	44	220	456	676	3	
High Prairie, Providence	49	6	8	63	49	6	8	63	46	7			177	412	43	44	220	456	676	3	
High River, Municipal	48	7	15	70	48	7	15	70	43	12			257	355	28	38	285	393	678	3	
Innisfail, Municipal	36	3	8	47	36	3	8	47	30	9			120	95	21	24	141	119	260	3	
Islay, Municipal	12	4	4	16	12	4	4	16	8	4			82	221	51	51	133	272	405	3	
Jasper, Seton	14	4	4	18	14	4	4	18	12	2			295	445	29	49	324	494	818	3	
Killam, General	16	1	5	22	15	1	5	19	12	4			211	340	45	53	256	393	649	3	
Lacombe and District, Community	41	2	10	53	39	2	10	51	35	4			164	289	47	54	211	343	554	3	
Lac la Biche, St. Catherine's	40	5	8	53	21	5	8	34	22	4			349	539	65	42	414	581	995	3	
Lamont, Public	64	8	8	80	64	8	8	80	51	8			492	1,008	160	147	652	1,155	1,807	3	
Lethbridge, Isolation	14	2	2	16	14	2	2	16	16	8			115	267	44	34	159	301	460	3	
Lethbridge, Galt	96	8	17	121	96	8	17	121	87	17			115	267	44	34	159	301	460	3	
Lethbridge, St. Michael's	105	15	27	147	102	15	27	144	87	26			115	267	44	34	159	301	460	3	
Lloydminster, Municipal	41	5	14	60	52	6	14	72	43	11			115	267	44	34	159	301	460	3	
Macleod, General	48	2	6	56	48	2	6	56	50	5			115	267	44	34	159	301	460	3	
Magrath, Municipal	12	2	2	16	12	2	2	16	12	2			115	267	44	34	159	301	460	3	
Mannville, Municipal	21	3	5	29	21	3	5	29	15	9			115	267	44	34	159	301	460	3	
Marwayne, Nursing Home																					
Medicine Hat, General	110	10	22	142	110	10	22	142	93	23	4		1,241	2,015	300	295	1,541	2,310	3,851	6	
Medicine Hat, Isolation	12	2	4	14	12	2	4	14	14	6	14		1,183	1,933	233	217	1,416	2,150	3,566	3	
Mundare, General	24	2	4	30	24	2	4	30	18	6			1,667	2,564	290	269	1,957	2,833	4,790	6	
McLennan, Sacred Heart	29	5	7	41	29	5	7	41	18	9			624	928	110	75	734	1,003	1,737	9	
Myrnam, Municipal	19	2	5	26	17	2	5	24	19	2			129	261	57	50	186	311	497	3	
Nordegg, General	13	1	1	15	13	1	1	15	12	2			145	204	24	18	169	222	391	3	
Olds, General	10	6	6	16	10	6	6	16	6	4			264	327	39	37	303	364	667	3	
Peace River, Municipal	23	2	4	29	23	2	4	29	20	5			1,241	2,015	300	295	1,541	2,310	3,851	6	
Pincher Creek, St. Vincent's	24	2	5	31	24	2	5	31	26	5			177	412	43	44	220	456	676	3	
Provost, Municipal	24	2	8	34	24	2	8	34	21	5			5	5	5	5	5	5	5	6	
Radway, St. Joseph's	20	7	6	33	20	7	6	33	22	4			177	412	43	44	220	456	676	3	
Red Deer, Municipal	52	4	15	71	52	4	15	71	42	12	1		115	267	44	34	159	301	460	3	
Rimbe, St. Paul's	20	3	6	29	21	3	6	29	18	6			115	267	44	34	159	301	460	3	



TABLE No. 1—Continued

Hospitals	Bed Capacity			Bed Complement			Classification (Beds, Cribs)							Patients Under Care During Year				Total												
	Number			Number			General Med. and Surgery	Obstetrics	Tuberculosis	Contagious Diseases	Incurables	Isolation	Others	M. F.	M. F.	M. F.	M. F.													
	Adult	Cribs	Bassnets	Total	Adult	Cribs													Bassnets	Total	Adults and Children	Newborn	Total							
Rocky Mountain House	20	2	4	26	20	4	26	17	4	1	1	1	238	273	51	46	289	319	608											
Smoky Lake, George McDougall	16	3	6	25	16	6	25	14	5	1	1	1	134	242	48	31	183	273	456											
Spirit River, Holy Cross	13	6	4	23	12	3	21	18	1	1	1	1	128	160	15	20	143	180	323											
St. Paul, St. Theresa	33	6	6	51	40	6	52	31	6	2	1	6	336	570	103	100	457	670	1,127											
Stettler, Municipal	20	2	10	45	33	2	45	30	5	1	1	1	105	221	48	34	153	255	408											
Trochu, St. Mary's	14	1	9	24	14	1	21	11	4	1	1	1	200	248	66	48	266	296	562											
Turner Valley, Oilfields General	70	9	16	95	70	9	95	64	12	3	1	1	716	1,113	98	93	814	1,206	2,020											
Vegreville, General	44	2	9	55	42	2	53	33	10	1	1	1	355	612	73	56	428	668	1,096											
Vermilion, Municipal	22	2	6	30	22	6	30	17	6	1	1	1	198	294	54	56	252	350	602											
Viking, Municipal	15	3	4	22	15	3	21	18	1	1	1	1	62	160	32	28	94	188	282											
Vilna, Our Lady's	22	2	6	30	22	2	24	17	6	1	1	1	204	409	66	65	270	474	744											
Vulcan, Municipal	24	2	4	30	24	2	30	26	1	1	1	1	239	301	55	39	294	340	634											
Wainwright, Municipal	20	2	3	25	23	2	28	23	3	1	1	1	373	250	29	35	402	285	687											
Wayne, General	32	2	9	43	30	2	41	20	10	2	2	2	525	772	84	101	609	873	1,482											
Westlock, Immaculata	34	5	10	49	34	5	49	28	8	1	1	1	509	876	139	145	648	1,021	1,669											
Wetaskiwin, Community	25	6	6	37	25	6	37	23	6	2	2	2	352	425	57	48	409	473	882											
<b>Total</b>	<b>4,521</b>	<b>492</b>	<b>863</b>	<b>5,876</b>	<b>4,499</b>	<b>500</b>	<b>5,845</b>	<b>3,347</b>	<b>734</b>	<b>224</b>	<b>136</b>	<b>21</b>	<b>122</b>	<b>410</b>	<b>44,393</b>	<b>64,618</b>	<b>8,379</b>	<b>8,056</b>	<b>52,773</b>	<b>72,673</b>	<b>125,446</b>									
													Less Incurables, Orthopaedic, S.C.R., Polio, and Tuberculosis Division Cases				2,061		416		2,061		416		2,477					
																	42,332		64,202		8,379		8,056		50,712		72,257		122,969	



TABLE No. 2

Hospitals	PATIENT DAYS										Aver. No. Patients in Hospital Daily
	Total of All Patients Admitted			Total Patients Discharged and Died			Average Stay of Patients Discharged and Died			Total	
	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total		
	5,407	1,157	6,564	5,377	1,116	6,493	9.45	10.52	9.62		
Athabasca, Municipal	5,407	1,157	6,564	5,377	1,116	6,493	9.45	10.52	9.62	17.98	
Banff, Mineral Springs	24,913	324	25,237	18,008	292	18,300	24.73	10.81	22.20	69.14	
Barrhead, St. Joseph's	5,838	994	6,832	5,810	1,006	6,816	8.24	9.06	8.35	18.71	
Bassano, Municipal	4,886	1,024	5,910	5,126	1,044	6,170	10.54	9.58	10.45	16.19	
Bentley, Community	573	151	724	565	151	716	6.01	8.88	6.45	1.98	
Berwyn, R. A. P.	2,361	558	2,919	2,217	558	2,775	5.62	12.68	6.66	7.99	
Bonnyville, K. H. P.	2,756	502	3,258	2,772	512	3,284	9.82	10.89	9.98	8.92	
Bonnyville, St. Louis	6,657	979	7,636	6,643	977	7,620	11.6	10.6	11.6	20.92	
Brooks	1,393	191	1,584	1,001	188	1,189	6.85	7.3	4.33	4.33	
Calgary, General	79,504	9,831	89,335	78,515	9,770	88,285	12.04	11.04	11.92	244.75	
Calgary, Isolation	10,897	10,897	10,897	10,675	220	10,895	27.09	10.9	10.9	29.85	
Calgary, Holy Cross	88,798	13,205	102,003	90,414	13,359	103,773	10.9	10.2	10.9	27.94	
Calgary, Junior Red Cross	18,614	18,614	18,614	12,046	5,956	12,046	191.2	10.67	10.67	33.21	
Calgary, Salvation Army Grace	6,253	5,872	12,125	6,359	2,869	9,228	10.74	9.31	7.74	39.78	
Camrose, St. Mary's	11,661	2,859	14,520	11,662	2,701	14,363	7.43	10.00	6.65	22.38	
Canmore, Canmore	6,585	1,585	8,170	6,343	1,600	7,943	6.16	9.69	6.65	8.32	
Cardston, Municipal	2,740	298	3,038	2,429	298	2,727	8.16	9.37	9.151	11.88	
Carman, Little Bow Municipal	3,699	638	4,337	3,667	647	4,314	8.28	10.95	8.92	4.44	
Castor, Our Lady of the Rosary	1,140	481	1,621	1,143	471	1,614	10.9	12.7	11.2	30.3	
Cereal, Esler	9,263	1,797	11,060	9,462	1,821	11,283	6.84	10.61	7.18	5.39	
Claresholm, Municipal	1,635	334	1,969	1,545	329	1,874	6.84	10.61	7.18	6.19	
Cold Lake, John Neil	2,262	2,262	4,524	2,181	2,181	4,362	7.18	10.7	9.68	13.27	
Coleman, Miners' Union	4,225	620	4,845	3,767	611	4,378	9.53	10.7	9.68	13.27	
Consort, Municipal	3,055	553	3,608	3,045	553	3,598	7.00	7.00	7.00	9.88	
Coronation, General	1,077	436	1,513	1,099	441	1,540	8.71	9.58	8.95	4.14	
Daysland, Providence	1,675	84	1,759	1,585	84	1,669	9.78	12.00	9.7	4.81	
Desmarais, St. Martin's	2,593	714	3,307	2,531	704	3,235	5.59	8.28	6.11	9.06	
Didsbury, General	19,438	2,217	21,655	19,470	2,201	21,671	6.81	10.2	7.05	59.32	
Drumheller, Municipal	650	275	925	611	273	884	4.21	7.8	4.91	2.53	
Eckville, Municipal	2,645	2,299	4,944	2,825	2,459	5,284	19.5	21.2	20.2	13.54	
Edmonton, Beulah Rescue Home	47,749	5,867	53,616	47,455	5,804	53,259	213.9	9.7	9.7	146.89	
Edmonton, General	50,173	105	50,278	42,568	521	43,089	260.5	213.9	213.9	137.46	
Edmonton, General, T.B. Division	55,704	13,835	69,539	41,699	10,631	52,330	6.65	8.87	7.01	190.51	
Edmonton, General, Polio Division	117,387	18,244	135,631	117,316	17,817	135,133	10.00	10.00	10.00	37.15	
Edmonton, Misericordia				521		521				28	
Edmonton, Royal Alexandra				117,316		117,316					



TABLE No. 2—Continued

Hospitals	PATIENT DAYS										Aver. No. Patients in Hospital Daily
	Total of All Patients Admitted			Total Patients Discharged and Died			Average Stay of Patients Discharged and Died			Total	
	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total		
Edmonton, Isolation	14,866		14,866	14,421		14,421	20.00		20.00	40.72	
Edmonton, Isolation (T.B. Division)	12,945		12,945	14,384		14,384	575.00		575.00	35.46	
Edmonton, St. Joseph's	31,869		31,869	23,138		23,138	183.63		183.63	87.31	
Edmonton, University of Alberta:	78,545	6,569	85,114	83,747	6,710	90,457	16.20	11.28	15.34	233.18	
(b) S.C.R.	36,983		36,983	37,342		37,342	22.21		22.21	101.32	
(c) Orthopaedic	1,625		1,625	2,159		2,159	49.07		49.07	4.45	
(d) Polio	2,574		2,574	4,454		4,454	85.65		85.65	7.05	
(e) T.B. Division	12,896		12,896	13,610		13,610	316.51		316.51	35.33	
Edson, St. John's	842		842	762		762	9.29		9.29	17.24	
Elk Point, Municipal	5,452	1,269	6,721	5,545	1,244	6,789	7.1	8.9	7.3	30.69	
Empress, Cottage	4,815	25	4,840	5,546	744	6,290	5.74	12.00	86.8	13.26	
Fairview, Community	3,361	632	3,993	3,425	652	4,077	8.31	8.25	8.30	10.93	
Ft. McMurray, St. Gabriel's	3,093	391	3,484	3,158	392	3,550	7.03	9.3	7.90	9.54	
Ft. Smith, General	4,365	130	4,495	4,365	130	4,495	10.2	10.00	10.2	12.31	
Ft. Vermilion, St. Theresa	593	113	706	593	113	706	10.22	9.41	10.09	1.93	
Galahad, St. Joseph's	4,271	931	5,202	4,241	916	5,157	6.88	8.48	7.18	14.25	
Grande Prairie, Municipal	10,938	2,171	13,109	10,920	2,102	13,022	9.07	9.9	9.2	35.91	
Grimshaw, Battle River	2,256	892	3,148	2,216	871	3,087	7.6	12.8	8.5	8.62	
Hanna, Municipal	7,960	1,380	9,340	7,315	1,344	8,659	9.2	9.95	9.31	25.58	
Hardisty, St. Anne's	3,784	764	4,548	3,774	729	4,503	9.07	8.67	9.0	12.46	
High Prairie, Providence	9,842	871	10,713	10,106	920	11,026	8.07	9.37	8.2	29.35	
High River, Municipal	12,552	2,373	14,925	12,530	2,327	14,857	8.81	11.5	9.15	40.89	
Innisfail, Municipal	7,363	1,782	9,145	7,199	1,840	9,039	9.66	11.72	10.02	25.05	
Islay, Municipal	2,484	429	2,913	2,484	429	2,913	8.66	10.7	8.9	7.98	
Jasper, Seton	2,145	353	2,498	1,999	339	2,338	9.29	10.9	9.46	6.84	
Killam, General	3,189	740	3,929	3,062	739	3,801	7.1	10.00	7.52	10.76	
Lacombe and District, Community	7,482	1,974	9,456	7,566	1,992	9,558	6.28	8.33	6.6	25.91	
Lac la Biche, St. Catherine's	3,572	734	4,306	3,671	747	4,418	7.3	9.00	7.5	11.79	
Lamont, Public	15,468	1,496	16,964	14,845	1,518	16,363	7.56	8.52	7.64	46.47	
Lethbridge, Galt	31,948	4,848	36,796	30,646	4,903	35,549	10.1	11.3	10.3	10.08	
Lethbridge, Isolation	1,228		1,228	1,201		1,201	17.9		17.9	3.36	
Lethbridge, St. Michael's	34,216	5,872	40,088	33,566	5,847	39,413	8.1	10.59	8.49	10.98	
Lloydminster, United Municipal	17,024	1,890	18,914	16,503	1,838	18,341	10.9	10.4	10.9	51.81	
Macleod, General	3,350	1,130	4,480	3,476	1,165	4,641	9.00	10.00	19.00	12.27	
Magrath, Municipal	2,017	409	2,426	2,032	409	2,441	5.89	9.74	6.31	6.64	
Mannville, Municipal	4,634	810	5,444	4,534	785	5,319	7.84	10.6	8.16	14.91	



	31,122	5,756	No Report	30,356	5,668	36,024	9,55	No Report	9,74	9,58	10,10
Marwayne, Nursing Home	211	211	36,878	211	5,668	36,024	23,44	No Report	9,74	9,58	10,10
Medicine Hat, General	3,758	758	4,516	3,757	758	211	23,44	No Report	9,74	23,44	59
Medicine Hat, Isolation	6,772	1,038	7,810	6,719	1,038	4,515	6,51	No Report	8,71	6,79	12,37
Mundare, General	3,150	570	3,720	3,131	563	3,694	5,17	No Report	8,8	8,1	21,39
McLennan, Sacred Heart	2,007	400	2,407	1,934	400	2,334	9,08	No Report	8,8	5,52	10,19
Myram, Municipal	2,792	780	3,572	2,730	767	3,497	9,19	No Report	7,7	9,05	6,59
Nordegg, General	7,558	743	8,301	7,558	743	8,301	14,5	No Report	10,00	8,83	9,78
Olds, General	5,131	866	5,997	5,551	934	6,485	10,4	No Report	9,6	10,4	22,74
Peace River, Municipal	4,384	1,042	5,426	4,302	1,028	5,330	9,66	No Report	10,4	10,00	16,43
Pincher Creek, St. Vincent's	4,714	807	5,521	4,642	799	5,441	5,29	No Report	8,41	5,54	14,86
Provost, Municipal	12,184	3,000	15,184	12,125	3,056	15,181	8,20	No Report	10,15	8,53	15,12
Radway, St. Joseph's	4,875	830	5,705	5,036	837	5,873	13,5	No Report	10,9	13,1	41,60
Red Deer, Municipal	3,665	754	4,419	3,737	759	4,496	7,31	No Report	7,82	7,51	15,63
Rimbe, St. Paul's	2,538	693	3,231	2,558	693	3,251	6,84	No Report	9,0	7,2	12,11
Rocky Mountain House	2,085	315	2,400	2,075	315	2,390	7,4	No Report	9,00	7,6	8,85
Smoky Lake, George McDougall	8,701	1,599	9,656	7,817	1,569	9,386	8,60	No Report	7,84	8,47	6,57
Spirit River, Holy Cross	2,817	2,001	10,702	8,775	2,014	10,789	9,67	No Report	11,44	9,97	26,45
St. Paul, St. Theresa	3,345	2,828	3,645	2,884	866	3,750	9,2	No Report	10,56	9,45	29,31
Stettler, Municipal	13,910	1,368	4,713	3,429	1,397	4,826	7,79	No Report	13,4	8,8	12,91
Trochu, St. Mary's	7,488	1,504	15,414	13,654	1,519	15,173	7,7	No Report	8,3	7,7	42,23
Turner Valley, Oilfields General	1,547	1,443	8,931	7,277	1,381	8,658	7,7	No Report	11,3	8,08	24,46
Vegreville, General	1,547	559	2,106	1,547	610	2,157	7,03	No Report	10,3	7,73	5,77
Vermilion, Municipal	3,723	1,060	4,783	3,723	1,060	4,783	7,84	No Report	10,00	13,10	13,10
Vilna, Our Lady's	5,187	1,262	6,449	5,014	1,246	6,260	8,4	No Report	9,81	8,61	17,66
Viking, Municipal	4,915	496	5,411	4,833	443	5,276	7,9	No Report	7,26	7,85	14,82
Vulcan, Municipal	5,480	700	6,180	5,365	673	6,038	10,3	No Report	7,5	9,9	16,93
Wayne, General	7,492	1,856	9,348	7,391	1,832	9,223	6,00	No Report	10,29	6,34	25,61
Wainwright, Municipal	10,257	2,210	12,467	10,215	2,206	12,421	7,61	No Report	7,87	7,97	34,15
Westlock, Immaculata	6,040	1,006	7,046	5,903	991	6,894	7,73	No Report	9,71	7,97	19,3
Wetaskiwin, Community											
Willingdon, General											
<b>Total</b>	<b>1,201,885</b>	<b>165,988</b>	<b>1,367,843</b>	<b>1,165,187</b>	<b>163,629</b>	<b>1,328,816</b>	<b>10,96</b>	<b>10,25</b>	<b>10,8</b>	<b>2,889,18</b>	

Less Incurables, Orthopaedic, S.C.R., Pollo, and Tuberculosis Division Cases

167,784

167,784

1,034,071

1,200,059

165,988

165,988



TABLE No. 3

Hospital	STAFF														Medical Staff	No. of Doctors	Training School	Affiliation with other Institutions	Graduated during the Year
	Administrat'n		Professional			Nurses			Dietitians			Others		Total					
	Executive	Clerical	Salared Doctors	Internes	Technicians	Graduate	Student	Probationers	Affiliates	Graduate	Student	Orderlies and Ward Helpers	All other Employees						
Athabasca, Municipal	6	2	1	5	6	1	1	1	1	1	1	2	10	26	Yes	1	No	.....	.....
Banff, Mineral Springs	2	1	1	5	12	3	3	3	3	3	3	3	23	46	No	2	No	.....	.....
Barrhead, St. Joseph's	1	1	1	1	3	6	2	2	2	2	2	1	5	12	No	1	No	.....	.....
Bassano, Municipal	1	1	1	1	2	2	2	2	2	2	2	1	3	11	No	1	No	.....	.....
Bentley, Community	1	1	1	1	2	2	2	2	2	2	2	1	3	7	No	.....	.....	.....	.....
Berwyn, R.A.P.	1	1	1	1	2	2	2	2	2	2	2	1	3	7	No	.....	.....	.....	.....
Bonnyville, K.H.P.	1	1	1	1	2	2	2	2	2	2	2	1	3	8	No	.....	.....	.....	.....
Bonnyville, St. Louis	1	1	1	1	3	3	3	3	3	3	3	4	5	12	No	2	No	.....	.....
Brooks, Municipal	3	19	2	9	23	134	14	4	4	8	8	1	78	296	Yes	93	Yes	.....	46
Calgary, General	1	1	1	1	3	3	3	3	3	3	3	1	3	7	No	.....	.....	.....	.....
Calgary, Isolation	2	17	1	7	35	129	17	1	1	1	1	17	93	323	Yes	104	Yes	.....	48
Calgary, Holy Cross	1	1	1	1	7	7	7	7	7	7	7	2	14	18	Yes	9	No	.....	.....
Calgary, Junior Red Cross	1	1	1	1	2	2	2	2	2	2	2	4	8	15	Yes	9	No	.....	.....
Calgary, Salvation Army Grace	1	1	1	1	7	7	7	7	7	7	7	4	8	23	Yes	6	No	.....	.....
Camrose, St. Mary's	1	1	1	1	2	2	2	2	2	2	2	2	3	7	No	1	No	.....	.....
Canmore, Canmore	1	1	1	1	2	2	2	2	2	2	2	2	2	7	No	.....	.....	.....	.....
Cardston, Municipal	1	1	1	1	2	2	2	2	2	2	2	2	2	7	No	.....	.....	.....	.....
Cardston, Little Bow Municipal	3	1	1	1	3	3	3	3	3	3	3	3	5	10	No	.....	.....	.....	.....
Carmangay, Our Lady of the Rosary	1	1	1	1	5	5	5	5	5	5	5	3	7	17	Yes	3	No	.....	.....
Cereal, Esler	1	1	1	1	2	2	2	2	2	2	2	1	2	4	No	.....	.....	.....	.....
Claresholm, Municipal	5	1	1	1	10	10	10	10	10	10	10	1	5	22	No	.....	.....	.....	.....
Cold Lake, John Neil	1	1	1	1	2	2	2	2	2	2	2	2	5	10	No	.....	.....	.....	.....
Coleman, Miners' Union	1	1	1	1	3	3	3	3	3	3	3	2	5	8	No	.....	.....	.....	.....
Coleman, Miners' Union	1	1	1	1	3	3	3	3	3	3	3	3	1	9	No	.....	.....	.....	.....
Consort, Municipal	1	1	1	1	3	3	3	3	3	3	3	3	4	7	No	.....	.....	.....	.....
Coronation, General	1	1	1	1	3	3	3	3	3	3	3	2	4	11	No	.....	.....	.....	.....
Daysland, Providence	1	1	1	1	1	1	1	1	1	1	1	2	2	5	No	.....	.....	.....	.....
Desmarais, St. Martin's	1	1	1	1	4	4	4	4	4	4	4	2	2	6	No	.....	.....	.....	.....
Didsbury, General	1	1	1	1	13	13	10	10	10	10	10	2	26	53	Yes	8	No	.....	.....
Drumheller, Municipal	1	1	1	1	2	2	2	2	2	2	2	2	3	7	No	.....	.....	.....	.....
Eckville, Municipal	1	1	1	1	1	1	1	1	1	1	1	2	3	7	No	.....	.....	.....	.....
Edmonton, Beulah Rescue Home	1	1	1	1	35	35	99	9	9	9	9	4	98	282	Yes	68	Yes	.....	26
Edmonton, General	4	12	5	8	23	23	91	4	4	4	4	23	88	256	Yes	92	Yes	.....	.....
Edmonton, Misericordia	6	6	7	6	6	6	7	7	7	7	7	38	156	504	Yes	77	Yes	.....	36
Edmonton, Royal Alexandra	2	35	7	14	98	98	126	18	18	18	18	38	156	504	Yes	77	Yes	.....	.....



Edmonton, St. Joseph's	2	3	1	1	1	3	15	6	4	4	7	7	24	No	62	Yes	36
Edmonton, University	2	28	7	17	50	1	95	4	4	77	36	352	Yes	24	Yes	No	7
Edson, St. John's	1	1	1	1	4	5	1	1	1	5	9	14	No	14	No	No	9
Elk Point, Municipal	1	1	1	1	3	4	1	1	1	5	7	17	No	9	No	No	3
Empress, Cottage	1	1	1	1	3	3	1	1	1	2	3	9	No	9	No	No	3
Fairview, Community	1	1	1	1	2	2	1	1	1	2	3	9	No	10	No	No	3
Ft. McMurray, St. Gabriel's	1	1	1	1	2	2	2	2	1	3	3	7	No	7	No	No	5
Ft. Smith, General	1	1	1	1	1	1	2	1	1	1	5	11	No	2	No	No	2
Ft. Vermilion, St. Theresa	1	1	1	1	4	4	1	1	1	2	5	11	No	3	No	No	5
Galahad, St. Joseph's	1	1	1	1	10	10	1	1	1	6	9	25	Yes	3	No	No	9
Grande Prairie, Municipal	1	1	1	1	3	3	1	1	1	3	3	7	No	2	No	Yes	7
Grimshaw, Battle River	1	1	1	1	10	10	1	1	1	4	7	23	Yes	2	No	Yes	2
Hanna, Municipal	1	1	1	1	2	2	1	1	1	3	4	10	No	3	No	No	4
Hardisty, St. Anne's	1	1	1	1	8	8	1	1	1	3	4	10	No	3	No	No	8
High Prairie, Providence	4	1	1	1	12	12	1	1	1	8	10	29	No	3	No	No	10
High River, Municipal	1	1	1	1	9	9	1	1	1	1	8	18	Yes	3	No	No	8
Innisfail, Municipal	1	1	1	1	3	3	1	1	1	1	3	7	No	3	No	No	3
Islay, Municipal	1	1	1	1	4	4	1	1	1	1	3	9	No	3	No	No	3
Jasper, Seton	1	1	1	1	3	3	1	1	1	1	3	7	No	3	No	No	3
Killam, General	1	1	1	1	3	3	1	1	1	2	3	10	No	3	No	No	3
Lacombe and District, Community	1	1	1	1	8	8	1	1	1	2	3	18	No	3	No	No	3
Lac La Biche, St. Catherine's	1	1	1	1	3	3	1	1	1	3	6	13	No	4	Yes	Yes	6
Lamont, Public	1	5	4	4	17	17	29	1	1	14	17	58	Yes	4	Yes	Yes	17
Lethbridge, Galt	2	4	4	4	40	40	40	1	1	20	20	102	Yes	31	Yes	Yes	20
Lethbridge, Isolation	1	1	1	1	1	1	1	1	1	1	1	2	No	2	No	No	1
Lethbridge, St. Michael's	2	5	5	4	38	38	1	1	1	8	43	101	Yes	27	No	No	43
Lloydminster, United Municipal	2	1	1	1	14	14	1	1	1	14	14	30	Yes	4	No	No	14
McLeod, General	1	1	1	1	5	5	1	1	1	2	3	10	No	3	No	No	3
Magrath, Municipal	1	1	1	1	3	3	1	1	1	1	3	7	No	3	No	No	3
Mannville, Municipal	1	1	1	1	3	3	1	1	1	2	3	8	No	3	No	No	3
Marwayne, Nursing Home	3	3	3	1	18	18	29	4	1	8	30	97	Yes	No Report	Yes	5	30
Medicine Hat, General	1	1	1	1	1	1	1	1	1	2	5	11	No	8	Yes	No	5
Medicine Hat, Isolation	1	1	1	1	3	3	1	1	1	2	8	14	No	2	No	No	8
Mundare, General	3	1	1	1	3	3	1	1	1	2	2	10	No	6	No	No	2
McLennan, Sacred Heart	3	1	1	1	2	2	1	1	1	1	2	6	No	9	No	No	2
Myrnam, Municipal	1	1	1	1	5	5	1	1	1	3	5	12	Yes	8	No	No	3
Nordegg, General	1	1	1	1	4	4	1	1	1	3	5	12	Yes	8	No	No	5
Olds, General	1	1	1	1	5	5	1	1	1	3	6	12	No	8	No	No	3
Peace River, Municipal	1	1	1	1	4	4	1	1	1	3	5	13	No	7	No	No	5
Pincher Creek, St. Vincent's	1	1	1	1	5	5	1	1	1	3	5	13	No	7	No	No	3
Provost, Municipal	2	2	2	1	5	5	1	1	1	5	10	23	No	7	Yes	No	10
Radway, St. Joseph's	1	1	1	1	11	11	1	1	1	6	7	27	Yes	7	No	No	6
Red Deer, Municipal	2	1	1	1	3	3	1	1	1	2	5	11	No	1	No	No	2
Rimber, St. Paul's	1	1	1	1	4	4	1	1	1	2	5	11	No	1	No	No	2
Rocky Mountain House	1	1	1	1	3	3	1	1	1	1	4	10	No	1	No	No	1
Smoky Lake, George McDougall	1	1	1	1	2	2	1	1	1	1	4	10	No	1	No	No	4
Spirit River, Holy Cross	1	1	1	1	2	2	1	1	1	1	6	11	No	4	No	No	6
St. Paul, St. Theresa	1	1	1	1	5	5	9	2	1	1	10	24	No	4	No	No	10
Stettler, Municipal	1	1	1	1	7	7	1	1	1	1	15	25	Yes	4	Yes	No	15



TABLE No. 3—Continued

Hospital	STAFF															No. of Doctors	Training School	Affiliation with other Institutions	Graduated during the year					
	Administrat'n		Professional			Nurses			Dietitians			Others			Total					Medical Staff				
	Executive	Clerical	Salaries Doctors	Interns	Technicians	Graduate	Student	Probationers	Affiliates	Graduate	Student	Orderlies and Ward Helpers	All other Employees											
Trochu, St. Mary's	1	1				3						1				7	No			15	No			
Turner Valley, Oilfields General						3										3				6	No			
Vegreville, General	3				1	8										26				6	No			
Vermilion, Municipal	1	1				7						1								56	Yes	6	Yes	
Vilna, Our Lady's						4														16	No			
Viking, Municipal						4														9	No			
Vulcan, Municipal						4														10	No			
Wayne, General	1	1				5														10	No			
Wainwright, Municipal	5	1				4														10	No			
Westlock, Immaculata	1	1				5														17	No			
Wetaskiwin, Community	1	1				9								2						16	Yes	2		
Willingdon, General	1	2				3														17	No			
	93	171	33	30	86	713	812	94	21	20	5	338	1,115	3,531		650			218					



TABLE No. 4

Hospitals	Medical		Surgical				Non-Operative		Obstetrics Admitted	Percentage of Maternity to Total Admissions	Living Births		Tuber- culosis		Communicable Diseases except Typhoid & T.B.	Typhoid cases	Cardiac Disease cases	Rheumatic cases	Malignant Disease Cases	Gonorrhea cases	Venereal Disease cases	Alcoholics
	Male	Female	Major	Minor	Male	Female	Male	Female			Male	Female	Pulmon- ary	Other Forms								
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Athabasca, Municipal	102	156	19	20	49	38	51	31	117	16.9	51	59	..	..	..	..	..	..	..	..	..	..
Banff, Mineral Springs	332	384	36	39	4	1	34	16	27	3.3	11	16	..	..	..	..	..	..	..	..	..	..
Barrhead, St. Joseph's	178	246	33	26	120	79	36	9	111	13.2	54	55	1	..	..	..	..	..	..	..	..	..
Bassano, Municipal	80	112	28	19	58	53	8	1	127	20.9	57	50	..	..	..	..	..	..	..	..	..	..
Bentley, Community	29	31	2	5	7	2	..	..	18	16.00	7	10	..	..	..	..	..	..	..	..	..	..
Berwyn, R. A. P.	126	89	14	10	33	39	..	..	40	8.9	23	20	2	..	..	..	..	..	..	..	..	..
Bonnyville, K. H. P.	84	108	11	15	25	21	10	10	44	13.1	23	22	..	..	..	..	..	..	..	..	..	..
Bonnyville, St. Louis	175	158	22	45	45	23	8	7	99	14.6	56	36	..	..	..	..	..	..	..	..	..	..
Brooks, Municipal	61	31	9	4	20	9	4	2	21	12.1	8	10	..	..	..	..	..	..	..	..	..	..
Brooks, General	673	757	594	817	1332	1422	376	373	935	12.2	461	427	4	5	5	3	153	16	103	33	6	17
Calgary, Isolation	190	239	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Calgary, Holy Cross	1082	1253	760	1043	1500	1743	264	219	1323	13.4	664	631	11	18	429	2	306	85	266	90	25	13
Calgary, Junior Red Cross	..	8	21	16	11	17	30	36	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Calgary, Salvation Army Grace	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Camrose, St. Mary's	330	386	114	162	130	94	8	3	597	50.7	285	276	..	..	..	..	..	..	..	..	..	..
Canmore, Canmore	112	61	22	18	62	55	1	..	337	17.7	105	202	..	..	..	..	..	..	..	..	..	..
Cardston, Municipal	195	234	59	67	121	180	..	..	47	11.2	22	18	..	..	..	..	..	..	..	..	..	..
Carmangay, Little Bow Municipal	85	86	6	18	22	15	..	..	166	13.7	77	87	..	..	..	..	..	..	..	..	..	..
Castor, Our Lady of the Rosary	103	132	10	24	56	50	5	6	32	10.4	14	19	..	..	..	..	..	..	..	..	..	..
Cereal, Esler	15	36	8	7	17	13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clareholm, Municipal	206	288	25	26	66	81	38	10	45	24.2	15	28	..	..	..	..	..	..	..	..	..	..
Cold Lake, John Neil	60	106	..	..	..	..	..	..	141	13.5	69	75	1	4	2	22	24	4	1	4	1	1
Coleman, Miners' Union	77	62	41	32	45	48	6	2	31	11.7	15	17	2	5	1	5	6	1	1	1	..	..
Consort, Municipal	94	95	7	22	75	89	..	..	59	12.6	31	28	..	..	..	..	..	..	..	..	..	..
Coronation, General	194	131	11	12	10	29	10	4	58	12.6	36	18	..	..	..	..	..	..	..	..	..	..
Daysland, Providence	57	53	4	8	5	5	..	..	44	25.0	23	21	..	..	..	..	..	..	..	..	..	..
Desmarais, St. Martin's	61	99	..	..	..	..	..	..	7	3.87	3	4	..	..	..	..	..	..	..	..	..	..
Didsbury, General	50	66	15	29	89	71	..	..	91	16.6	40	43	..	..	..	..	..	..	..	..	..	..
Drumheller, Municipal	461	366	101	137	368	387	..	..	235	7.6	119	95	2	1	1	62	3	9	5	1	2	2
Eckville, Municipal	14	37	6	13	15	18	..	..	38	20.1	23	9	..	..	..	..	..	..	..	..	..	..
Edmonton, Beulah Rescue Home	..	16	..	..	..	..	..	..	133	43.4	59	58	..	..	..	..	..	..	..	..	..	..
Edmonton, General	1222	1218	338	422	528	596	..	..	608	10.8	269	273	..	..	..	..	..	..	..	..	..	..
Edmonton, Misericordia	1029	1251	365	582	377	464	451	451	1367	17.9	609	589	7	10	5	104	81	46	48	15	31	74
Edmonton, Royal Alexandra	1841	2618	623	863	2126	2237	887	300	1585	12.9	813	760	69	5	5	228	93	174	41	3	24	3
Edmonton, St. Joseph's	159	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Edmonton, University of Alberta:	1776	825	626	380	1115	815	492	381	634	10.9	297	280	41	62	30	247	76	274	97	41	7	7



TABLE No. 4—Continued

Hospitals	Medical		Surgical				Non-Operative		Obstetricals Admitted		Percentage of Maternity to Total Admissions		Living Births		Tuber- culosis		Communicable Typhoid & T. B.	Typhoid cases	Cardiac Disease cases	Rheumatic cases	Malignant Disease Cases	Gonorrhoe cases	Venereal Disease cases	Alcoholics	
	Male	Female	Major		Minor		Male	Female	Male	Female	Male	Female	Pulmonary	Other Forms											
			Male	Female	Male	Female																			
Edson, St. John's	140	68	21	19	68	56	95	17	97	14.1	42	42	5	6	1	8	1	4	1	4	6	2	2	2	
Elk Point, Municipal	379	301	67	94	191	138	3	1	141	8.9	66	74	5	55	1	49	31	11	1	11	2	2	6	6	
Empress, Cottage	208	214	32	31	73	61	3	1	62	8.4	36	25	4	4	4	18	18	2	2	2	2	2	2	2	
Fairview, Community	113	102	13	6	43	39	10	1	82	16.3	43	25	1	1	1	4	7	4	7	4	4	2	1	1	
Ft. McMurray, St. Gabriel's	116	142	14	24	74	30	97	31	43	9.57	8	5	1	33	7	7	6	3	7	6	3	2	5	5	
Ft. Smith, General	154	170	10	18	42	33	1	1	13	2.95	8	8	28	16	7	18	37	1	18	37	1	14	1	1	
Ft. Vermilion, St. Theresa	17	29	1	2	2	1	1	5	12	17.1	4	8	1	2	32	32	3	1	32	3	1	1	1	1	
Galahad, St. Joseph's	153	190	8	10	61	66	2	2	104	14.3	44	61	1	2	No Report	No Report	No Report	No Report	No Report	No Report	No Report	No Report	No Report	No Report	No Report
Grande Prairie, Municipal	66	79	7	5	25	25	1	1	85	22.9	29	40	1	1	6	6	5	1	6	5	1	1	1	1	
Grimshaw, Battle River	178	227	29	41	85	79	17	15	137	14.5	63	71	4	4	20	20	5	6	20	5	6	6	6	3	
Hanna, Municipal	71	162	27	32	44	52	4	8	84	16.3	43	44	1	1	12	12	2	3	12	2	3	6	6	1	
Hardisty, St. Anne's	292	244	33	81	207	165	6	12	100	7.23	116	95	1	3	3	24	14	6	3	14	6	4	4	4	
High Prairie, Providence	356	452	69	84	124	167	108	159	210	12.6	116	95	1	3	3	24	14	6	3	14	6	4	4	4	
High River, Municipal	110	185	7	6	36	25	2	39	159	17.2	79	78	1	2	1	24	9	6	1	24	9	6	2	2	
Innisfail, Municipal	110	185	7	6	36	25	2	39	159	17.2	79	78	1	2	1	24	9	6	1	24	9	6	2	2	
Islay, Municipal	110	185	7	6	36	25	2	39	159	17.2	79	78	1	2	1	24	9	6	1	24	9	6	2	2	
Jasper, Seton	151	56	5	3	11	11	1	29	29	11.4	17	13	1	1	6	6	4	2	6	4	2	2	2	1	
Killam, General	116	65	13	12	70	48	16	15	75	14.7	46	29	1	1	16	16	1	2	16	1	2	2	2	1	
Lacombe and District, Community	399	382	75	55	85	130	27	31	266	18.0	135	107	1	2	2	25	1	6	2	25	1	6	2	2	
Lac la Biche, St. Catherine's	158	198	11	9	21	16	6	3	97	16.1	34	46	4	1	2	8	18	2	8	18	2	2	2	2	
Lamont, Public	585	739	81	85	175	152	20	9	31	14.3	82	93	4	6	3	88	47	36	88	47	36	85	5	1	
Lethbridge, Galt	717	679	147	245	432	608	124	164	456	12.8	226	210	4	4	4	123	26	27	123	26	27	11	13	4	
Lethbridge, Isolation	54	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Lethbridge, St. Michael's General	947	1103	204	298	399	485	85	34	611	12.8	284	265	2	7	69	101	30	30	101	30	30	49	4	4	
Lloydminster, United Municipal	508	529	72	79	113	161	41	59	175	10.1	107	73	1	11	1	69	36	13	69	36	13	1	1	1	
Macleod, General	77	99	15	24	30	19	6	3	106	21.3	55	46	1	1	2	2	2	2	2	2	2	1	1	1	
Magrath, Municipal	82	98	18	20	49	44	13	7	42	10.7	24	18	1	1	1	8	2	2	8	2	2	3	4	4	
Mannville, Municipal	197	171	8	4	102	71	7	4	84	12.6	39	36	1	1	2	28	6	3	28	6	3	4	4	4	
Marwayne, Nursing Home	641	583	196	262	559	665	72	30	631	16.4	293	288	7	8	8	109	33	44	109	33	44	4	5	3	
Medicine Hat, General	6	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Medicine Hat, Isolation	130	274	15	22	47	59	15	8	89	13.2	42	44	3	3	18	18	17	6	18	17	6	2	2	7	
Mundare, General	255	239	20	36	46	56	37	10	135	13.9	51	61	1	1	8	8	25	1	8	25	1	2	2	7	
McLennan, Sacred Heart	188	156	23	43	51	56	7	10	66	9.73	27	37	1	1	7	7	1	1	7	1	1	1	1	1	
Myrnam, Municipal	63	19	10	7	25	18	22	4	47	18.1	21	24	1	1	7	7	1	1	7	1	1	1	1	1	
Nordegg, General	90	119	12	15	30	27	3	4	101	24.9	50	51	1	1	7	7	1	5	7	1	5	3	3	3	
Olds, General	119	119	12	15	30	27	3	4	101	24.9	50	51	1	1	7	7	1	5	7	1	5	3	3	3	



Peace River, Municipal	226	253	28	65	40	76	16	10	89	10.9	29	49	4	2	3	18	2	4	1			
Pincher Creek, St. Vincent's	124	152	15	23	58	45	10	15	93	14.3	43	51	2	1	1	22	12	5	1			
Provost, Municipal	124	133	12	16	28	41	9	3	100	18.1	47	53	2	1	7	18	11	3	1			
Radway, St. Joseph's	219	272	69	108	70	100	9	3	108	18.1	64	42	2	1	2	25	6	10	1			
Red Deer, Municipal	238	371	61	97	128	149	87	55	337	18.6	154	140	2	2	2	19	4	14	2			
Rimbey, St. Paul's	115	190	11	2	30	23	3	5	81	17.6	43	34	1	1	1	8	3	3	1			
Rocky Mountain House	160	118	23	22	51	34	9	7	95	15.6	50	46	1	1	1	5	1	1	1			
Smoky Lake, George McDougall	131	153	14	10	33	36	9	7	78	17.1	48	31	2	2	4	6	3	1	1			
Spirit River, Holy Cross Community	97	106	4	6	31	17	3	2	42	13.00	15	20	7	7	4	5	8	3	3			
St. Paul, St. Theresa	144	299	30	39	173	210	3	31	209	18.5	102	99	1	1	1	9	2	7	1			
Stettler, Municipal	134	169	28	42	130	152	40	4	175	15.9	90	87	1	1	1	9	2	4	1			
Trochu, St. Mary's	115	121	9	11	31	40	1	4	85	20.8	47	33	1	1	1	9	4	1	2			
Turner Valley, Oilfields General	196	242	6	41	41	13	10	3	114	20.0	65	45	5	5	5	8	38	23	11			
Vegreville, General	477	665	68	83	259	263	10	10	129	9.5	95	93	5	3	4	59	30	5	14			
Vermillion, Municipal	237	338	33	60	90	51	19	10	129	11.6	71	53	1	1	1	23	1	2	1			
Vilna, Our Lady's	42	76	9	8	9	9	1	5	58	20.6	29	27	1	1	1	2	1	2	1			
Viking, Municipal	119	133	7	10	42	28	14	3	119	20.0	29	35	1	1	2	16	10	3	4			
Wayne, General	221	90	30	34	83	46	29	6	68	10.0	29	38	1	1	1	12	12	4	4			
Wainwright, Municipal	152	146	18	9	37	21	31	22	104	16.0	50	38	1	1	1	10	5	2	2			
Westlock, Immaculata	255	310	43	74	194	188	25	8	184	12.4	83	101	4	1	5	15	11	9	1			
Wetaskiwin, Community	246	285	73	107	165	181	9	6	281	16.8	135	142	1	8	6	22	7	2	1			
Willington, General	267	323	19	31	49	39	11	16	113	13.0	56	47	1	1	2	17	19	1	2			
<b>Total</b>	<b>23009</b>	<b>24767</b>	<b>5831</b>	<b>7443</b>	<b>13712</b>	<b>14129</b>	<b>3782</b>	<b>2605</b>	<b>16272</b>	<b>12.9</b>	<b>7853</b>	<b>7555</b>	<b>250</b>	<b>195</b>	<b>2311</b>	<b>45</b>	<b>2635</b>	<b>1946</b>	<b>1323</b>	<b>599</b>	<b>191</b>	<b>246</b>



TABLE No. 5

Hospitals	Surgical Operations										Infections Developed in Hospitals					Deaths						
	Abdominal	Gynaecological not including Curettages	Curettages	Amputations	Fractures		General	Total Operations	Medical	Surgical	Obstetrical		From Cancer	From Anaesthetics	From Communicable Diseases	Within 48 Hours of Admission						
					Open	Closed					Mothers	Infants										
	Curettages		Amputations		Fractures		General	Total Operations	Medical	Surgical	Mothers	Infants	From Cancer	From Anaesthetics	From Communicable Diseases	Within 48 Hours of Admission						
No Report	4	6	3	1	2	1											1	1	1	1	1	1
Athabasca, Municipal	40			9		41	65	155								6						
Banff, Mineral Springs	69			6		52	130	258								5						
Barrhead, St. Joseph's	46	2	4	3		2	104	161								2						
Bassano, Municipal	7			1			8	16								1						
Bentley, Community	20	1	8	1		3	44	89								4						
Berwyn, R. A. P.	26		6	1		7	33	72								2						
Bonnyville, K. H. P.	67	2	2	8			56	135								2						
Bonnyville, St. Louis	13					10	151	174								9						
Brooks, Municipal	947	76	162	40	29	259	2247	3760								1						
Calgary, General																1						
Calgary, Isolation																74						
Calgary, Holy Cross	975	475	174	81	26	100	3929	5760	4	17	3	4	1	23	30	26	43	97				
Calgary, Junior Red Cross				1			28	29														
Calgary, Salvation Army Grace																						
Camrose, St. Mary's	250	10	19	5	10	50	217	561												19		
Canmore, Canmore	25	4	4	1	8	6	109	157												2		
Cardston, Municipal	126		16	1	1		284	427												9		
Cardston, Little Bow Municipal	20	2	1	1	1	7	27	58												6		
Castor, Our Lady of the Rosary	29	5	2	1	1	14	81	133												2		
Cereal, Esler	6	1	2	1			29	45												1		
Claresholm, Municipal	37		4	4			12	145	198											2		
Cold Lake, John Neil			1			3	26	30												2		
Coleman, Miners' Union	73	4	2		6	89	174													2		
Consort, Municipal	2	2		2	15	14	184	219												2		
Coronation, General	20		2				41	63												3		
Daysland, Providence	12						10	22												1		
Desmarais, St. Martin's																					1	
Didsbury, General	52	2	2	4	2	7	152	221												6		
Drumheller, Municipal	210	87	25	8	2	52	609	993												2		
Eckville, Municipal	15	2	3			5	27	52													2	
Edmonton, Beulah Rescue Home																						2
Edmonton, General	444	156	110	17	23	60	1074	1884													42	
Edmonton, Misericordia	565	203	77	21	9	203	1775	2853													48	
Edmonton, Royal Alexandra	975	467	189	93	36	501	3949	6210	34	43	18	51	2	14	28	17	66			87		



Edmonton, St. Joseph's	552	224	25	39	84	125	1049	6	1	1	1	4	4	6	4	3	70	3	34
Edmonton, University	38	5	4	1	3	17	109	19	1	1	1	2	2	2	1	1	1	6	4
Edson, St. John's	131	6	1	1	11	11	339	19	1	1	1	3	3	3	1	1	1	1	3
Elk Point, Municipal	48	5	1	1	5	5	131	197	1	1	1	4	4	4	1	1	1	1	3
Empress, Cottage	19	6	1	1	2	9	70	101	1	1	1	4	4	4	1	1	2	2	7
Fairview, Community	29	6	1	1	1	9	93	141	1	1	1	1	1	1	1	1	1	1	4
Ft. McMurray, St. Gabriel's	53	4	6	4	1	27	8	103	1	1	1	1	1	1	1	1	1	1	3
Ft. Smith, General	7	1	1	1	1	2	4	4	1	1	1	1	1	2	1	1	1	1	4
Ft. Vermilion, St. Theresa	11	2	1	1	1	18	120	146	No Report	No Report	No Report	1	1	2	2	1	No Report	No Report	4
Galahad, St. Joseph's	11	2	No Report	No Report	No Report	6	38	62	No Report	No Report	No Report	1	1	1	1	1	No Report	No Report	7
Grande Prairie, Municipal	63	3	7	3	1	41	115	233	1	1	1	1	1	3	3	4	4	4	7
Grimshaw, Battle River	43	6	1	1	1	12	93	155	2	2	2	3	3	3	3	1	1	1	4
Hanna, Municipal	107	10	7	14	5	96	378	617	5	5	2	3	3	4	4	1	5	5	6
Hardisty, St. Anne's	146	11	42	1	2	45	197	444	1	1	1	4	4	4	1	2	2	2	10
High Prairie, Providence	54	10	5	8	2	26	172	275	1	2	2	1	1	2	2	2	2	2	6
High River, Municipal	13	8	3	3	3	13	48	74	1	2	2	1	1	1	1	1	1	1	7
Innisfail, Municipal	25	1	3	3	8	8	19	8	1	1	1	1	1	1	1	1	2	2	4
Jasper, Seton	90	24	10	8	20	29	170	338	1	1	1	1	1	1	1	1	1	1	4
Killam, General	12	18	3	1	1	20	130	167	4	4	4	3	3	6	6	4	4	4	4
Lacombe and District, Community	129	18	3	1	1	29	338	519	5	1	1	2	2	3	3	4	1	1	5
Lac la Biche, St. Catherine's	268	117	58	2	3	10	974	1432	3	1	1	5	5	6	6	6	6	6	7
Lamont, Public	339	127	52	14	5	58	1409	2004	2	2	2	8	8	5	11	9	9	9	4
Lethbridge, Isolation	113	8	21	5	2	76	202	425	4	4	4	6	6	1	3	8	8	8	2
Lethbridge, St. Michael's General	27	6	1	3	1	7	55	97	4	4	4	1	1	5	1	1	1	1	14
Lloydminster, United Municipal	38	1	3	3	1	3	86	131	No Report	No Report	No Report	1	1	1	1	1	1	1	3
Macleod, General	12	No Report	No Report	No Report	No Report	11	172	196	No Report	No Report	No Report	1	1	4	2	2	2	2	1
Magrath, Municipal	318	156	61	22	18	97	1000	1672	No Report	No Report	No Report	1	1	11	2	20	No Report	No Report	2
Mannville, Municipal	32	3	2	2	1	18	87	143	1	1	1	2	2	1	2	3	3	3	16
Marwayne, Nursing Home	55	6	9	2	2	29	97	198	1	1	1	2	2	1	4	4	4	4	6
Medicine Hat, General	61	2	3	2	1	17	112	190	1	1	1	1	1	2	2	2	1	1	4
Medicine Hat, Isolation	17	1	2	2	1	14	42	75	1	1	1	1	1	2	2	1	1	1	1
McLennan, Sacred Heart	24	1	1	1	1	6	60	91	1	1	1	2	2	1	1	1	1	1	3
Myrnam, Municipal	51	15	7	7	1	12	96	182	1	1	1	1	1	5	1	1	1	1	6
Nordegg, General	19	6	6	2	2	76	96	221	3	3	3	1	1	1	1	3	3	3	6
Olds, General	34	5	4	4	2	13	54	97	1	1	1	1	1	2	2	4	4	4	6
Peace River, Municipal	165	15	17	2	7	33	212	424	2	2	2	3	3	2	2	1	2	2	8
Pincher Creek, St. Vincent's	141	4	20	7	7	15	33	66	2	1	1	1	1	5	4	4	4	4	7
Provost, Municipal	38	6	2	3	3	21	81	151	1	1	1	2	2	2	2	2	2	2	9
Radway, St. Joseph's	12	2	3	3	3	15	33	66	3	3	3	1	1	3	3	3	3	3	9
Red Deer, Municipal	38	2	2	2	2	12	44	72	1	1	1	2	2	5	4	4	4	4	7
Rimby, St. Paul's	13	2	2	1	1	12	29	58	2	2	2	1	1	3	3	3	3	3	9
Rocky Mountain House	10	2	5	5	1	12	29	58	2	2	2	1	1	2	2	2	2	2	7
Smoky Lake, George McDougall	69	4	16	3	3	11	354	457	1	1	1	3	3	3	3	3	3	3	9
Spirit River, Holy Cross Community	61	6	12	8	8	32	233	352	1	1	1	4	4	3	3	3	3	3	7
St. Paul, St. Theresa	12	4	16	3	3	11	354	457	1	1	1	3	3	3	3	3	3	3	12
Stettler, Municipal	61	6	12	8	8	32	233	352	1	1	1	4	4	3	3	3	3	3	16



TABLE No. 5—Continued

Hospitals	Surgical Operations							Infections Developed in Hospitals				Deaths								
	Abdominal	Gynaecological not including Curetages	Curetages	Amputations	Fractures		General	Total Operations	Medical	Surgical	Obstetrical		Mothers	Newborn	Stillborn	Premature	From Cancer	From Anaesthetics	From Communicable Diseases	Within 48 Hours of Admission
					Open	Closed					Mothers	Infants								
Trochu, St. Mary's	20	.....	.....	3	.....	10	58	91	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Turner Valley, Oilfields General	.....	.....	1	2	.....	17	54	74	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vegreville, General	136	30	23	7	10	57	410	673	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vermilion, Municipal	86	4	5	2	1	23	114	235	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vilna, Our Lady's	17	.....	.....	.....	.....	5	16	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Viking, Municipal	17	9	4	.....	.....	17	61	108	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wayne, General	46	9	14	5	8	14	132	228	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wainwright, Municipal	17	.....	4	2	2	15	53	93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Westlock, Immaculata	117	12	12	8	.....	33	317	499	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wetaskiwin, Community	122	5	35	12	8	40	226	448	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willingdon, General	50	.....	.....	2	.....	11	75	138	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	9195	2380	1323	545	378	2784	25465	42070	69	100	44	72	28	159	293	173	389	13	58	850









Medicine Hat, General	6	3.58	45	33	930	116	7750	650	3	Yes	Yes
Medicine Hat, Isolation	1	.699	3	4	66	25	510	191	2	Yes	Yes
Mundare, General	1	.505	8	7	147	6	1180	175	3	No	No
McLennan, Sacred Heart	1		4	1	173	11	310	31	Yes	No	Yes
Myrnam, Municipal	1		1		47	6		130		Yes	Yes
Nordegg, General	1	1.09	4	2	73	6		2	Yes	Yes	Yes
Olds, General	1	.549	11	9	201	17		96	Yes	Yes	Yes
Peace River, Municipal	1		5	8	106	16	386	276	2	No	Yes
Pincher Creek, St. Vincent's			4	6	331	23	1238	283	4	Yes	Yes
Provost Municipal			4	3	48	2	2	52	2	No	Yes
Radway, St. Joseph's			4	4	296	98	1206	675	6	No	Yes
Red Deer, Municipal			20	4	21		404	63	5	Yes	No
Rimby, St. Paul's			3	1	114	12	500	173	4	No	No
Rocky Mountain House	1	.662	3	1	114	8	500	173	4	No	No
Smoky Lake, George McDougall	1	1.38	4	1	55	1	154	48	4	No	No
Spirit River, Holy Cross	1		8	2	26	1	100	184	4	No	No
St. Paul, St. Theresa	1	.218	5	4	283	158	1067	276	4	No	No
Stettler, Municipal			16	8	224	35	472	34		No	No
Trochu, St. Mary's	1	1.09	7	4	77		162	54		No	No
Turner Valley, Oilfields General			4	1		8		130	2	No	No
Vegreville, General	2	.297	16	13	416	93	4137	414	5	Yes	Yes
Vermilion, Municipal	2	.851	7	10	138	35	840	300	4	Yes	Yes
Vilna, Our Lady's	1	2.63	2	3	25	7	55	49	2	No	No
Viking, Municipal			2		41	16	206	100	2	No	No
Vulcan, Municipal			3	4						No	No
Wayne, General	1	.438	7	4	125	43		207	12	No	Yes
Wainwright, Municipal			5	8	45	2	27	45	4	No	Yes
Westlock, Immaculata	1	.200	2	6	446	9	1122	232	4	Yes	Yes
Wetaskiwin, Community	1	.223	22	9	384	23	698	175	9	Yes	Yes
Willington, General	1	.724	8	5	70	35	663	56	1	No	Yes
	262	.625	1286	877	27189	6591	339191	61489	19753	940	.....

TABLE No. 6

Hospitals	Salaries and Audit	Board Meetings	Office Expenses	Stationery, Printing, Postage	Telegraph and Telephones	Insurance	Sundry	Total Administration
Athabasca, Municipal	\$ 1,723.27	\$ 481.20	\$ 160.83	\$ 342.23	\$ 195.50	\$ 459.02	\$ 418.93	\$ 3,780.98
Banff, Mineral Springs	4,382.47	124.42	155.37	153.38	112.65	186.48	82.82	5,197.59
Barrhead, St. Joseph's	600.00	.....	.....	78.58	80.32	113.15	120.00	992.05
Bassano, Municipal	1,280.00	393.00	.....	195.29	135.47	268.39	200.65	2,472.80
Bentley, Community	120.00	.....	.....	42.86	86.86	50.00	1.50	301.22
Berwyn, R. A. P.	435.00	256.50	.....	285.29	54.02	105.31	180.05	1,316.17
Bonnyville, K. H. P.	.....	.....	61.80	70.22	110.32	8.93	137.41	388.68
Bonnyville, St. Louis	400.00	.....	52.15	48.50	75.74	279.98	.....	856.37
Brooks, Municipal	435.00	398.16	174.01	422.72	118.52	93.85	190.83	1,833.09
Brooks, General	17,803.64	.....	.....	5,513.49	1,864.23	2,111.48	1,315.96	28,608.80
Calgary, General	5,934.49	.....	.....	180.00	136.60	174.65	60.00	6,485.14
Calgary, Isolation	19,038.90	3,775.90	4,646.80	3,379.10	2,095.68	4,256.88	13,755.64	50,948.90
Calgary, Holy Cross	887.92	.....	593.90	175.90	295.31	295.41	417.06	2,575.10
Calgary, Junior Red Cross	1,379.00	846.15	66.25	109.38	256.38	59.37	134.17	2,850.70
Calgary, Salvation Army Grace	1,225.00	.....	138.33	274.95	175.36	172.85	6,844.82	8,831.31
Canmore, St. Mary's	830.00	.....	401.20	.....	397.13	393.10	.....	2,021.43
Canmore, Canmore Hospital	1,310.00	362.55	263.50	241.29	153.28	193.53	909.40	3,433.55
Cardston, Municipal	330.00	209.20	4.31	195.83	104.06	214.45	115.72	1,173.57
Carmanagay, Little Bow Municipal	1,000.00	.....	.....	227.99	140.71	730.32	.....	2,099.02
Castor, Our Lady of the Rosary	1,400.00	283.90	40.85	201.51	247.05	.....	84.26	532.82
Cereal, Esler	.....	.....	.....	221.29	141.48	.....	27.71	2,246.24
Clareholm, Municipal	7.50	.....	.....	91.84	121.72	131.01	536.13	757.19
Cold Lake, John Neill	.....	No Report	.....	.....	No Report	.....	.....	.....
Coleman, Miners' Union	465.00	218.20	.....	74.70	104.42	97.43	.....	959.75
Consort, Municipal	300.00	.....	66.19	213.68	107.54	108.80	75.46	871.67
Coronation, General	600.00	.....	275.00	62.65	113.66	153.00	16.36	1,220.67
Daysland, Providence	.....	.....	.....	18.00	.....	.....	.....	18.00
Desmarais, St. Martin's	.....	.....	52.38	.....	157.15	59.00	.....	525.53
Didsbury, General	240.00	.....	455.00	1,265.91	252.29	2,242.16	326.81	9,320.36
Drumheller, Municipal	3,956.19	822.00	.....	.....	No Report	.....	.....	.....
Edmonton, Municipal	1,186.53	No Report	16.94	142.24	72.80	178.77	785.59	2,382.87
Edmonton, Beulah Rescue Home	18,199.09	35.00	1,615.93	2,855.43	1,154.48	1,590.82	5,681.22	31,131.97
Edmonton, General	13,010.32	.....	.....	1,703.73	751.79	3,256.33	8,017.80	26,739.97
Edmonton, Misericordia	48,049.49	.....	5,112.18	8,489.15	1,823.87	6,028.42	6,379.95	75,883.06
Edmonton, Royal Alexandra	1,925.97	198.96	415.18	.....	111.53	216.48	2,029.84	4,897.96
Edmonton, St. Joseph's	31,697.82	.....	452.12	5,895.21	3,783.38	2,942.04	13,571.40	58,341.97
Edmonton, University of Alberta	960.00	.....	75.59	109.57	163.72	202.73	473.41	1,985.02
Edson, St. John's	927.50	381.40	.....	584.94	113.44	188.22	1,198.84	3,394.34
Elk Point, Municipal	535.00	81.90	116.89	92.38	113.00	17.70	817.00	1,691.97
Empress, Cottage	335.00	.....	50.34	215.74	59.05	118.13	18.90	879.06
Fairview, Community	529.75	420.20	137.41	106.02	5.28	.....	.....	1,198.66
Ft. McMurray, St. Gabriel's	.....	No Report	.....	.....	No Report	.....	.....	.....
Ft. Smith, General	.....	.....	.....	8.00	.....	29.40	.....	37.40
Fort Vermilion, St. Theresa	.....	.....	.....	41.54	88.23	173.39	.....	303.16
Galahad, St. Joseph's	.....	.....	.....	550.57	196.44	279.65	569.14	5,649.96
Grande Prairie, Municipal	3,480.03	511.80	62.33	.....	.....	.....	.....	.....



Grimshaw, Battle River .....	1,880.00	846.40	1.23	76.63	10.92	441.81	357.48	446.26
Hanna, Municipal .....	990.0	388.40	5.00	607.48	229.29	441.81	128.00	4,137.98
Hardisty, St. Anne's .....	1,279.35	451.00	30.79	115.63	108.67	55.55	123.79	434.43
High Prairie, Providence .....	1,200.00	273.30	147.63	243.33	26.09	291.15	488.09	2,096.29
Innisfail, Municipal .....	360.00	338.40	137.90	780.83	373.62	306.35	532.31	3,660.86
Islay, Municipal .....	1,000.00	338.40	2.30	399.41	160.55	211.29	947.16	3,507.31
Jasper, Seton .....	1,003.50	144.36	79.10	232.20	94.64	152.75	269.43	1,384.62
Killam, General .....	5,842.36	144.36	18.94	92.08	75.99	50.00	41.00	1,259.07
Lacombe and District, Community .....	6,038.85	338.40	261.74	462.77	84.97	103.00	644.87	930.88
Lac la Biche, St. Catherine's .....	9,621.55	144.36	829.72	224.74	45.60	144.00	25.87	2,503.31
Lamont, Public .....	1,670.00	102.40	395.20	1,188.49	497.40	316.88	381.43	9,200.64
Lethbridge, Galt .....	440.00	218.00	37.61	1,928.55	930.55	1,370.78	1,671.04	12,334.97
Lethbridge, Isolation .....	390.00	184.20	7.00	7.00	36.50	21.32	114.71	217.14
Lethbridge, St. Michael's .....	4,709.29	16.28	110.00	908.92	699.14	1,707.17	4,481.18	17,527.96
Lloydminster, United Municipal .....	1,000.00	17.70	100.00	592.13	220.05	249.40	3,415.50	2,300.11
Macleod, General .....	1,920.00	No Report	2.76	268.60	90.79	393.08	764.88	2,300.11
Mannville, Municipal .....	470.29	No Report	42.40	234.55	108.36	139.00	247.36	1,387.27
Magrath, Municipal .....	1,000.00	No Report	5,968.67	740.60	942.23	487.23	2,403.26	15,267.56
Marwayne, Nursing Home .....	1,000.00	17.70	90.41	59.09	107.43	16.31	16.31	1,382.38
Medicine Hat, General .....	1,920.00	No Report	147.64	59.48	82.40	202.75	306.14	2,718.41
Medicine Hat, Isolation .....	1,050.00	No Report	13.50	193.54	No Report	No Report	24.00	262.28
Mundare, General .....	1,200.00	No Report	19.19	379.57	190.40	339.46	324.30	2,678.52
Myrnam, Municipal .....	2,680.00	375.00	100.00	280.60	70.00	295.20	745.80	1,876.26
Nordegg, General .....	1,500.00	285.75	86.07	30.37	162.84	255.00	496.23	2,689.35
Olds, General .....	417.30	285.75	33.18	432.28	202.08	287.11	567.88	3,778.25
Peace River, Municipal .....	840.00	285.75	399.27	359.89	189.16	289.77	226.25	2,815.03
Pincher Creek, St. Vincent's .....	1,220.00	629.40	169.60	164.20	151.92	266.93	332.71	1,117.39
Provost, Municipal .....	1,032.94	629.40	80.00	411.14	129.43	298.75	407.50	1,265.83
Radway, St. Joseph's .....	200.00	2.25	227.63	149.81	50.00	134.50	31.50	1,226.00
Red Deer, Municipal .....	417.30	2.25	115.00	90.00	131.95	114.00	126.35	2,331.24
Rimby, St. Paul's .....	57.73	2.25	31.66	511.31	184.05	1,693.59	972.81	4,915.18
Rocky Mountain House .....	1,858.80	495.60	485.00	402.39	88.57	225.33	676.02	617.52
Smokey Lake, George McDougall .....	600.00	305.75	136.80	47.12	210.58	111.82	22.35	4,249.35
Spirit River, Holy Cross Community .....	600.00	305.75	31.66	181.13	191.02	940.00	81.03	2,585.47
St. Paul, St. Theresa .....	720.00	124.88	12.69	693.50	122.65	257.60	636.80	2,192.35
Stettler, Municipal .....	475.00	354.20	497.40	261.02	126.77	263.24	442.56	1,467.62
Trochu, St. Mary's .....	720.00	354.20	2.04	454.03	126.77	263.24	503.45	1,964.97
Turner Valley, Oilfields General .....	1,038.45	213.20	163.54	72.16	69.73	8.471	286.44	2,671.06
Vegreville, General .....	800.00	213.20	465.10	146.66	247.41	198.27	103.56	1,415.90
Vermilion, Municipal .....	1,038.45	213.20	58.43	193.86	124.12	374.33	74.11	1,280.99
Viking, Municipal .....	1,038.45	213.20	58.43	123.14	114.23	15.20	2,215.20	1,111.00
Vilna, Our Lady's .....	600.00	305.75	12.69	72.16	69.73	8.471	286.44	2,671.06
Vulcan, Municipal .....	475.00	354.20	497.40	146.66	247.41	198.27	103.56	1,415.90
Wainwright, Municipal .....	720.00	354.20	163.54	193.86	124.12	374.33	74.11	1,280.99
Wayne, General .....	1,038.45	213.20	465.10	146.66	247.41	198.27	103.56	1,415.90
Westlock, Immaculata .....	800.00	213.20	58.43	193.86	124.12	374.33	74.11	1,280.99
Wetaskiwin, Community .....	1,038.45	213.20	465.10	146.66	247.41	198.27	103.56	1,415.90
Willingdon, General .....	800.00	213.20	58.43	123.14	114.23	15.20	2,215.20	1,111.00
<b>Total</b> .....	\$ 245,199.60	\$ 15,929.01	\$ 27,096.60	\$ 51,042.48	\$ 24,730.47	\$ 42,857.44	\$ 86,073.95	\$ 492,929.55



TABLE No. 6a

Hospitals	Professional Care of Patients			Kitchen and Dining Room		
	Salaries	Supplies	Total	Wages	Food Supply	Total
Athabasca, Municipal	\$ 7,828.02	\$ 2,508.67	\$ 10,336.69	1,035.75	3,516.67	4,552.42
Banff, Mineral Springs	38,525.80	9,970.37	48,496.17	5,672.72	15,012.62	20,685.34
Barrhead, St. Joseph's	6,319.75	1,214.06	7,533.81	3,270.00	4,180.05	7,450.05
Bassano, Municipal	6,509.26	1,519.27	8,028.53	749.63	3,812.25	4,561.88
Bentley, Community	1,184.52	174.65	1,359.17	258.45	501.23	759.68
Berwyn, R. A. P.	3,432.75	1,238.45	4,671.20	437.50	2,049.45	2,486.95
Bonnyville, K. H. P.	3,725.80	1,184.68	4,910.48	432.00	2,497.52	2,929.52
Bonnyville, St. Louis	3,690.00	402.75	4,092.75	1,690.00	1,948.57	3,638.57
Brooks, Municipal	2,827.63	2,429.68	5,057.31	556.77	1,337.82	1,894.59
Calgary, General	79,638.23	36,862.63	116,500.86	19,584.89	55,607.16	75,192.05
Calgary, Isolation	7,686.41	432.86	8,119.27	2,234.84	8,035.33	10,270.17
Calgary, Holy Cross	78,954.20	45,610.92	124,565.12	26,148.52	63,773.89	89,922.41
Calgary, Junior Red Cross	16,649.38	6,757.65	23,407.03	3,461.93	7,720.04	11,181.97
Calgary, Salvation Army Grace	7,850.35	1,707.07	9,557.42	1,688.40	5,577.12	7,265.52
Camrose, St. Mary's	17,794.73	4,821.80	22,616.53	900.00	8,251.47	9,151.47
Canmore, Canmore	2,097.04	4,062.67	6,159.71	2,000.00	3,859.43	5,059.43
Cardston, Municipal	8,532.17	3,305.58	11,837.75	1,748.35	6,065.19	7,813.54
Carmanagay, Little Bow Municipal	3,598.97	654.44	4,253.41	556.00	1,522.67	2,078.67
Castor, Our Lady of the Rosary	4,867.00	1,966.64	6,833.64	1,610.00	3,095.80	4,705.80
Cereal, Esler	2,168.31	617.21	2,785.52	747.18	720.66	1,467.84
Claresholm, Municipal	11,322.60	3,113.90	14,436.50	1,279.14	5,897.99	7,177.13
Cold Lake, John Neil	3,332.30	417.28	3,749.58	551.85	1,496.24	2,048.09
Coleman, Miners' Union		No Report			No Report	
Consort, Municipal	4,265.15	1,102.46	5,367.61	785.30	2,454.15	3,239.45
Coronation, General	4,505.19	1,979.46	6,484.65	687.12	2,635.54	3,322.66
Daysland, Providence	2,725.99	527.85	3,253.84	576.85	7,387.54	7,964.39
Desmarais, St. Martin's	1,820.00	18.00	1,838.00		800.00	800.00
Didsbury, General	4,012.80	1,394.42	5,407.22	1,234.62	2,134.08	3,368.70
Drumheller, Municipal	23,953.46	4,728.31	28,681.77	3,733.50	14,882.16	18,615.66
Eckville, Municipal		No Report			No Report	
Edmonton, Beulah Rescue Home	2,836.48	365.90	3,402.38	370.55	3,893.84	4,264.39
Edmonton, General	86,7773.88	31,823.76	118,597.64	17,851.88	65,980.02	83,831.90
Edmonton, Miseriordia	35,838.53	51,347.05	87,185.58	11,195.00	40,014.82	51,209.82
Edmonton, Royal Alexandra	190,268.86	65,675.91	255,944.77	26,329.65	109,006.28	135,335.93
Edmonton, St. Joseph's	10,750.97	874.35	11,625.32	7,918.66	3,387.66	11,306.26
Edmonton, University of Alberta	156,771.10	87,424.34	244,195.44	37,050.51	94,716.87	131,767.38
Edson, St. John's	8,834.00	882.03	9,716.03	446.85	5,382.03	5,828.88
Elk Point, Municipal	7,125.16	4,935.20	12,060.36	982.13	5,322.51	6,304.64
Empress, Cottage	3,066.64	3,377.34	6,443.98	1,542.61	2,382.81	3,925.42
Fairview, Community	3,355.47	1,665.93	5,021.40	927.75	3,012.45	3,940.20
Ft. McMurray, St. Gabriel's	2,758.41	702.63	3,461.04	303.28	2,233.39	2,536.67
Ft. Smith, General		No Report			No Report	
Fort Vermilion, St. Theresa	1,460.00	353.04	1,813.94		668.10	668.10
Galahad, St. Joseph's	4,260.00	893.51	5,153.51	580.50	2,267.82	2,848.32



Grande Prairie, Municipal	15,338.99	5,269.53	20,608.52	2,319.25	6,988.67	9,307.92
Grimshaw, Battle River	2,816.05	1,247.87	4,063.92	790.50	1,993.10	2,783.60
Hanna, Municipal	8,924.16	2,672.02	11,596.18	1,323.98	5,737.18	7,061.16
Hardisty, St. Anne's	4,540.00	1,152.84	5,692.84	1,383.00	2,466.37	3,849.37
High Prairie, Providence	15,012.60	17,061.36	32,073.96	2,640.00	6,387.92	9,027.92
High River, Municipal	11,287.31	4,719.46	16,006.77	1,737.75	9,308.07	11,045.82
Innisfail, Municipal	9,520.38	2,593.63	12,024.01	1,452.22	4,902.90	6,355.12
Islay, Municipal	3,650.15	1,167.63	4,817.78	448.50	2,080.23	2,528.73
Jasper, Seton	4,460.33	1,284.43	5,744.76	1,420.00	2,350.42	3,770.42
Killam, General	2,176.35	2,649.09	4,825.44	675.00	2,100.27	2,775.27
Lacombe and District, Community	7,792.25	3,816.13	11,608.38	983.65	4,908.03	5,891.68
Lac la Biche, St. Catherine's	5,188.30	508.00	5,696.30	840.00	1,619.89	2,459.89
Lamont, Public	13,315.07	4,281.59	17,596.66	2,420.00	16,214.48	18,634.48
Lethbridge, Galt	30,772.62	14,001.84	44,774.46	9,100.26	30,580.53	39,680.79
Lethbridge, Isolation	1,309.80	74.26	1,384.06	146.40	1,132.31	1,278.71
Lethbridge, St. Michael's	35,172.98	14,417.13	49,590.11	14,766.40	30,820.64	45,587.04
Lloydminster, United Municipal	16,392.30	3,963.58	20,355.88	3,614.10	12,551.36	16,165.46
Macleod, General	6,497.80	2,668.26	9,166.06	2,240.26	7,194.70	9,434.96
Mannville, Municipal	4,368.08	797.01	5,165.09	794.07	2,382.80	3,176.87
Magrath, Municipal	3,146.84	1,908.90	5,055.74	1,087.30	1,832.48	2,919.78
Marwayne, Nursing Home	28,696.89	No Report	40,060.36	5,126.90	No Report	31,919.95
Medicine Hat, General	1,092.20	11,363.47	1,092.20	628.47	26,793.05	628.47
Medicine Hat, Isolation	1,482.86	417.77	1,900.63	800.00	3,480.30	4,280.30
Mundare, General	4,130.61	1,659.72	5,790.33	1,440.00	6,217.51	7,657.51
Myram, Municipal	3,539.24	No Report	4,371.60	1,064.00	No Report	4,374.41
Nordegg, General	6,468.57	No Report	9,302.54	1,112.55	6,104.61	7,217.16
Olds, General	7,980.00	2,833.97	9,490.55	2,000.00	2,868.60	4,868.60
Peace River, Municipal	5,859.18	1,510.55	6,373.35	1,176.02	3,712.84	4,888.86
Pincher Creek, St. Vincent's	6,756.00	3,506.05	10,262.05	2,018.35	6,335.28	8,353.63
Provost, Municipal	12,753.35	3,625.41	16,378.76	1,707.40	6,531.94	8,239.34
Radway, St. Joseph's	3,235.00	950.26	4,185.26	352.50	3,419.29	3,771.79
Red Deer, Municipal	4,466.20	1,723.20	6,189.40	2,091.25	3,002.90	5,094.15
Rimbey, St. Paul's	4,962.14	6,036.33	10,998.47	813.75	1,427.51	2,241.26
Rocky Mountain House	4,260.00	1,263.00	5,523.00	464.50	2,038.95	2,503.45
Smoky Lake, George McDougall	4,119.00	2,666.37	6,785.37	1,360.00	4,254.76	5,614.76
Spirit River, Holy Cross Community	10,756.88	2,418.93	13,175.81	1,117.28	5,600.34	6,717.62
St. Paul, St. Theresa	4,320.00	655.09	4,975.09	660.00	2,368.70	3,928.70
Stettler, Municipal	3,768.72	1,769.59	5,538.31	1,036.21	3,891.28	4,927.49
Turner Valley, Oilfields General	7,175.50	4,773.52	11,949.02	1,619.00	9,392.55	11,211.55
Vegreville, General	7,923.87	2,239.17	10,163.04	1,139.85	4,421.88	5,561.73
Vermilion, Municipal	5,074.36	1,641.70	6,716.06	1,811.61	3,237.02	5,038.63
Viking, Municipal	4,474.33	259.01	4,733.34	762.13	1,400.79	2,162.92
Vilna, Our Lady's	5,584.38	1,971.75	7,556.13	976.10	4,247.95	5,224.05
Vulcan, Municipal	5,855.27	2,077.01	7,932.28	1,918.16	3,995.12	5,913.28
Wainwright, Municipal	5,142.59	1,194.28	6,336.87	716.64	2,923.77	3,640.41
Wayne, General	2,840.00	2,587.90	5,427.90	720.00	5,225.83	5,945.83
Westlock, Immaculata	10,625.60	5,650.90	16,276.50	1,607.02	5,762.45	7,369.47
Wetaskiwin, Community	2,270.81	2,288.29	4,559.10	800.00	4,036.30	4,836.30
Willingdon, General						
<b>Total</b>	<b>\$1,251,033.22</b>	<b>\$ 530,827.35</b>	<b>\$1,781,860.57</b>	<b>\$ 271,021.95</b>	<b>\$ 869,316.52</b>	<b>\$1,140,338.47</b>







Grimshaw, Battle River	1,110.08	28.30	681.90	381.40	310.00	29.29	322.51	418.45	190.00	1,289.26
Hanna, Municipal	465.12	465.12	240.00	63.33	1,234.40	29.29	1,258.98	1,614.28	161.90	6,970.95
Hardisty, St. Anne's	2,213.09	200.00	1,650.00	502.49	386.00	2,400.00	624.10	548.16	34.50	1,861.59
High Prairie, Providence	2,013.20	484.83	1,407.70	489.44	2,400.00	1,256.20	1,719.15	1,820.44	167.00	10,135.87
Innisfail, Municipal	201.09	1,351.82	435.00	80.34	1,690.00	143.62	1,328.50	986.40	250.82	9,441.78
Islay, Municipal	66.90	32.00	350.00	142.80	380.00	37.63	548.70	822.41	2.40	5,784.17
Jasper, Seton	1,420.00	189.91	720.00	101.95	380.00	196.92	434.24	536.60	266.80	2,703.30
Killam, General	720.00	284.11	720.00	87.30	1,810.00	1,107.02	1,317.64	786.82	437.71	3,966.86
Lacombe and District, Community	1,039.80	845.91	840.00	255.20	880.00	814.72	1,105.91	351.57	120.50	2,589.93
Lac la Biche, St. Catherine's	420.00	426.13	840.00	582.57	7,795.65	814.72	5,551.79	1,105.91	214.87	7,473.13
Lamont, Public	2,163.64	354.08	2,049.15	582.57	7,795.65	814.72	5,551.79	1,105.91	248.16	4,400.42
Lethbridge, Isolation	299.81	1,543.39	3,435.04	1,163.61	4,487.62	800.84	224.64	149.86	374.50	20,880.54
Lethbridge, Galt	1,325.61	3,429.98	1,348.14	1,348.14	5,924.16	1,070.65	3,191.57	3,776.97	1,371.85	18,903.34
Lethbridge, St. Michael's General	653.37	2,487.50	431.62	431.62	1,425.00	52.10	1,173.18	772.85	120.00	20,067.08
Lloydminster United, Municipal	375.30	766.75	65.17	65.17	508.55	3.92	472.10	359.40	126.32	8,665.82
Macleod, General	8.52	693.00	63.93	63.93	916.13	No Report	1,139.47	647.51	103.85	3,429.40
Magrath, Municipal	163.33	504.68	504.68	504.68	916.13	No Report	1,139.47	647.51	3,371.12	2,235.74
Mannville, Municipal	5,619.80	1,604.07	6,411.71	855.14	2,850.00	2,977.45	111.61	20,418.82	100.65	20,418.82
Marwayne, Nursing Home	870.50	183.84	40.00	93.54	386.65	129.00	411.84	353.94	50.01	111.61
Medicine Hat, General	1,260.00	412.64	480.00	220.17	1,200.00	No Report	1,226.43	727.20	240.00	2,519.32
Medicine Hat, Isolation	No Report	No Report	No Report	No Report	No Report	No Report	No Report	No Report	No Report	5,766.44
Mclennan, Sacred Heart	507.00	558.80	497.83	441.69	954.50	No Report	1,368.75	1,196.07	310.10	999.39
Mundare, General	1,580.00	558.80	450.00	258.20	980.00	49.89	3,665.40	355.00	101.20	5,397.02
Nordegg, General	720.00	158.54	487.50	32.70	790.00	118.97	1,410.10	709.35	6.00	4,773.90
Olds, General	694.95	847.72	644.25	264.38	1,340.80	598.69	1,595.57	397.08	5,719.31	3,948.62
Peace River, Municipal	828.50	196.69	897.20	503.60	2,230.00	22.03	1,238.00	1,999.82	657.65	9,090.97
Pincher Creek, St. Vincent's	196.00	200.83	180.00	119.25	1,167.00	118.67	528.45	614.31	29.40	3,772.94
Provost, Municipal	540.51	307.87	240.00	150.00	636.00	5.90	929.87	525.46	130.00	2,547.68
Radway, St. Joseph's	644.99	134.88	814.35	150.80	1,000.00	14.00	500.00	248.00	2,154.00	2,900.91
Red Deer, Municipal	240.00	123.66	480.00	154.13	1,198.64	39.22	881.86	1,040.90	13.75	4,273.61
Rimbeey, St. Paul's	1,723.55	795.00	2,061.54	160.00	1,020.00	81.95	93.72	313.95	208.50	5,059.39
Rocky Mountain House	888.97	469.96	574.50	129.76	904.85	70.80	1,110.77	974.59	2.24	1,515.81
Smoky Lake, George McDougall	382.40	62.07	215.00	112.22	960.00	1.00	688.66	155.37	558.80	8,979.96
Spirit River, Holy Cross Community	499.92	72.45	520.85	78.70	897.80	105.39	817.65	696.46	101.17	5,126.44
St. Paul, St. Theresa	510.51	193.38	626.38	216.82	627.50	125.00	378.05	566.09	293.98	2,916.62
Stettler, Municipal	666.99	187.49	420.00	600.00	480.00	301.50	997.35	1,445.20	69.70	2,194.32
Trochu, St. Mary's	1,260.00	308.05	752.65	436.97	991.75	13.00	1,561.74	617.93	33.95	3,487.85
Turner Valley, Oilfields General	1,723.55	795.00	2,061.54	160.00	1,020.00	81.95	93.72	313.95	208.50	2,792.96
Vegreville, General	888.97	469.96	574.50	129.76	904.85	70.80	1,110.77	974.59	2.24	1,515.81
Vermilion, Municipal	382.40	62.07	215.00	112.22	960.00	1.00	688.66	155.37	558.80	8,979.96
Viking, Municipal	499.92	72.45	520.85	78.70	897.80	105.39	817.65	696.46	101.17	5,126.44
Vulcan, Municipal	510.51	193.38	626.38	216.82	627.50	125.00	378.05	566.09	293.98	2,916.62
Wainwright, Municipal	666.99	187.49	420.00	600.00	480.00	301.50	997.35	1,445.20	69.70	2,194.32
Wayne, General	1,260.00	308.05	752.65	436.97	991.75	13.00	1,561.74	617.93	33.95	3,487.85
Westlock, Immaculata	1,723.55	795.00	2,061.54	160.00	1,020.00	81.95	93.72	313.95	208.50	2,792.96
Wetaskiwin, Community	888.97	469.96	574.50	129.76	904.85	70.80	1,110.77	974.59	2.24	1,515.81
Willington, General	666.99	187.49	420.00	600.00	480.00	301.50	997.35	1,445.20	69.70	2,194.32
<b>Total</b>	<b>\$167,907.05</b>	<b>\$125,640.86</b>	<b>\$27,597.41</b>	<b>\$177,907.75</b>	<b>\$22,647.36</b>	<b>\$146,709.49</b>	<b>\$85,288.77</b>	<b>\$33,951.05</b>	<b>\$5,298.87</b>	<b>\$844,322.41</b>



TABLE No. 6c—MAINTENANCE

Hospitals	Buildings and Grounds	Furniture and Equipment	Dry Goods	Sundries and Rents	Total Maintenance	Total Running Cost
	\$	\$	\$	\$	\$	\$
Athabasca, Municipal	671.03	316.62	422.44	100.00	1,510.09	24,989.69
Banff, Mineral Springs	1,788.52	1,207.62	506.48	178.25	2,996.14	97,601.18
Barrhead, St. Joseph's	105.00	150.00	354.40	15.66	939.73	20,956.06
Bassano, Municipal	336.74	569.05	188.06	1.00	1,260.19	21,427.61
Bentley, Community	125.57	334.98	64.47	497.80	1,412.33	3,205.86
Berwyn, R. A. P.	279.13	124.10	142.00	78.56	803.17	11,661.14
Bonnyville, K. H. P.	174.35	4.76	227.24	27,206.02	860.72	12,367.93
Bonnyville, St. Louis	130.48	891.79	6,661.45	2,629.85	3,999.04	12,484.29
Brooks, Municipal	2,083.47	28,057.16	376.31	821.94	310.56	10,416.99
Calgary, General	137.58	11,208.34	921.70	900.00	3,659.22	30,638.25
Calgary, Isolation	38,159.90	288.96	479.91	27,206.02	58,020.65	382,828.62
Calgary, Holy Cross	1,596.06	1,199.46	315.88	2,629.85	1,596.06	47,542.82
Calgary, Junior Red Cross	2,182.19	1,199.46	921.70	2,040.96	3,669.40	28,038.42
Calgary, Salvation Army Grace	1,199.46	479.91	315.88	821.94	1,470.21	15,573.61
Canmore, Canmore	315.88	386.87	439.62	877.01	2,601.07	52,163.10
Cardston, Municipal	2,415.01	609.81	233.44	278.79	2,019.38	30,282.10
Cardangay, Little Bow Municipal	1,105.92	1,158.38	481.26	335.50	3,537.05	12,836.05
Castor, Our Lady of the Rosary	125.15	359.43	368.96	84.59	2,745.56	19,913.34
Cereal, Esler	1,186.95	1,886.95	504.24	84.59	1,189.04	6,484.81
Clareholm, Municipal	536.07	325.00	180.00	352.34	1,991.73	30,375.29
Cold Lake, John Neil	372.00	No Report	192.68	No Report	1,393.41	10,195.26
Coleman, Miners' Union	438.87	306.98	192.68	No Report	871.66	13,290.26
Consort, Municipal	833.73	472.52	2,172.45	361.75	438.87	12,946.98
Coronation, General	98.00	95.00	2,172.45	361.75	3,840.45	19,882.10
Daysland, Providence	235.50	230.18	53.75	287.00	287.00	4,351.00
Desmarais, St. Martin's	1,752.61	5,100.54	982.65	696.78	519.43	11,957.76
Didsbury, General	651.05	No Report	564.92	630.44	No Report	83,271.94
Drumheller, Municipal	22,739.38	3,041.38	2,056.81	2,241.60	2,379.76	15,284.36
Eckville, Municipal	14,693.23	2,872.97	5,878.26	15,345.93	30,099.17	322,727.96
Edmonton, Beulah Rescue Home	981.93	1,016.46	8,709.90	12,000.00	38,790.39	255,808.55
Edmonton, General	21,670.12	30,337.56	2,143.09	547.22	20,709.90	631,153.15
Edmonton, Misericordia	567.30	256.06	9,253.93	61,261.61	4,688.70	36,533.86
Edmonton, Royal Alexandra	393.08	582.12	32.91	32.91	856.27	557,962.74
Edmonton, St. Joseph's	1,397.62	766.23	88.32	32.44	1,686.74	23,485.79
Edmonton, University of Alberta	162.44	66.90	118.55	347.89	2,284.61	17,095.73
Edson, St. John's	7.00	34.15	407.07	580.48	1,028.70	13,521.29
Elk Point, Municipal	No Report	No Report	No Report	No Report	No Report	11,854.20
Empress Cottage	279.33	437.92	20.00	No Report	20.00	2,848.54
Fairview, Community	975.35	1,005.98	208.61	2,629.66	925.86	11,704.99
Ft. McMurray, St. Gabriel's						
Ft. Smith, General						
Fort Vermilion, St. Theresa						
Galahad, St. Joseph's						
Grande Prairie, Municipal						



Grimshaw, Battle River .....	802.37	452.18	681.06	1,133.24	9,696.28
Hanna, Municipal .....	582.90	510.81	442.47	1,910.65	31,676.92
Hardisty, St. Anne's .....	2,166.89	306.64	140.40	1,649.51	13,487.14
High Prairie, Providence .....	704.60	1,772.10	537.73	5,840.51	44,161.95
Innisfail, Municipal .....	419.75	869.13	626.84	2,200.57	42,355.80
Islay, Municipal .....	92.57	28.13	10.50	977.36	28,647.97
Jasper, Seton .....	251.16	351.58	392.46	836.61	12,271.04
Killam, General .....	325.25	88.90	41.62	727.00	15,468.11
Lacombe and District, Community .....	123.66	343.86	262.56	1,257.25	12,378.77
Lac la Biche, St. Catherine's .....	784.72	194.04	2,500.00	123.66	27,600.16
Lamont, Public .....	3,166.43	813.88	813.88	3,680.16	16,651.11
Lethbridge, Galt .....	5,250.72	847.35	5,138.11	5,138.11	71,450.43
Lethbridge, Isolation .....	65.06	2,408.52	86.82	10,944.42	126,637.98
Lethbridge, St. Michael's General .....	3,548.98	88.00	88.00	186.69	3,441.10
Lloydminster, United Municipal .....	749.74	321.41	41.14	3,548.98	136,321.17
Macleod, General .....	316.32	323.44	22.36	1,664.50	50,267.16
Mannville, Municipal .....	308.21	241.91	.....	957.87	25,288.40
Marwayne, Nursing Home .....	.....	277.14	600.00	720.94	13,821.29
Magrath, Municipal .....	103.49	224.04	243.09	No Report	11,889.80
Medicine Hat, General .....	1,691.71	3,810.89	1,992.30	577.24	115,735.87
Medicine Hat, Isolation .....	225.42	.....	.....	8,069.18	2,074.01
Mundare, General .....	50.65	454.03	183.58	225.42	10,812.86
McLennan, Sacred Heart .....	3,583.60	1,010.71	525.64	730.23	28,038.37
Myrnam, Municipal .....	.....	.....	.....	6,105.68	.....
Nordegg, General .....	.....	277.14	600.00	No Report	10,974.87
Olds, General .....	812.33	701.82	.....	No Report	26,526.80
Peace River, Municipal .....	2,050.80	1,910.00	.....	1,931.56	25,189.85
Pincher Creek, St. Vincent's .....	476.53	419.22	.....	5,311.00	18,844.28
Provost, Municipal .....	1,077.66	1,757.53	.....	2,157.19	31,143.40
Radway, St. Joseph's .....	1,130.28	602.66	.....	4,119.06	39,699.69
Red Deer, Municipal .....	1,245.60	317.47	.....	2,212.37	16,396.15
Rimbey, St. Paul's .....	212.14	.....	.....	1,851.13	16,742.78
Rocky Mountain House .....	1,131.34	.....	355.10	1,794.16	18,537.81
Smoky Lake, George McDougall .....	100.00	20.00	40.00	1,131.34	11,616.45
Spirit River, Holy Cross Community .....	413.71	675.68	672.02	210.00	21,289.62
St. Paul, St. Theresa .....	694.20	308.15	8.75	2,284.64	31,223.48
Stettler, Municipal .....	890.67	500.49	22.36	1,355.48	13,107.59
Trochu, St. Mary's .....	880.76	69.79	664.46	1,634.82	14,774.79
Turner Valley, Oilfields General .....	1,965.36	1,650.00	.....	2,175.66	41,045.98
Vegreville, General .....	679.24	29.64	.....	4,656.10	24,590.99
Vermillion, Municipal .....	533.85	270.10	.....	1,154.31	17,814.96
Viking, Municipal .....	31.27	514.52	62.75	951.30	11,166.74
Vilna, Our Lady's .....	485.02	256.69	.....	608.54	19,533.66
Vulcan, Municipal .....	438.52	308.54	143.50	1,300.66	20,240.77
Wainwright, Municipal .....	858.00	34.50	.....	1,134.18	16,186.21
Wayne, General .....	677.61	369.92	631.04	1,213.49	20,829.38
Westlock, Immaculata .....	953.38	736.86	67.90	3,232.61	32,595.38
Wetaskiwin, Community .....	448.43	1,000.22	43.95	1,758.14	16,133.86
Willington, General .....	.....	.....	.....	1,686.50	.....
<b>Total</b> .....	<b>\$ 165,452.90</b>	<b>\$ 119,377.14</b>	<b>\$ 83,406.80</b>	<b>\$ 441,047.46</b>	<b>\$4,700,498.46</b>



TABLE No. 7—EARNINGS OR REVENUE

Hospitals	Grants		Patients' Fees	Donations, Cash and Service	Tax Requisitions	Sundry Earnings	Total
	Alberta	Others					
Athabasca, Municipal	\$ 2,917.80		\$ 8,590.99		\$ 10,694.95	\$ 5,045.13	\$ 27,248.87
Banff, Mineral Springs	6,547.05		58,226.12	207.71	53,913.26	6,168.55	125,062.69
Barrhead, St. Joseph's	3,007.00		17,889.11	2,360.00			23,256.11
Bassano, Municipal	2,659.50		7,990.71		6,524.48	3,427.18	20,601.87
Bentley, Community	352.35		2,535.92	191.42		525.40	3,604.91
Berwyn, R.A.P.	1,315.35		7,949.77		2,925.00	154.14	12,344.26
Bonnyville, K.H.P.	1,455.30	\$ 1,108.30	5,925.40	21.50		1,244.25	9,754.75
Bonnyville, St. Louis	3,242.25		19,207.50	1,485.00	11,472.50	560.00	24,494.75
Brooks, Municipal	712.80		2,755.00			873.31	15,813.61
Brooks, General	36,595.35		263,231.04			39,289.21	339,115.60
Calgary, Isolation	4,725.90		1,336.60				6,062.50
Calgary, Holy Cross	45,558.00	1,024.00	389,323.82	4,217.60		9,938.39	480,061.81
Calgary, Junior Red Cross	17,295.35	750.00	15,173.22	3,980.25		6,168.35	39,386.92
Calgary, Salvation Army Grace	5,453.55	2,262.96	20,617.35			114.93	32,429.04
Camrose, St. Mary's	6,533.55		50,676.28			8,560.00	65,769.83
Canmore, Canmore	1,230.75		6,412.50			7,643.25	7,643.25
Cardston, Municipal	3,676.50		8,573.14		17,650.00	2,498.59	32,398.23
Carmangay, Little Bow Municipal	1,442.10		5,618.75		5,859.59	301.77	13,222.21
Castor, Our Lady of the Rosary	1,951.65		12,330.28	3,840.75		564.75	18,686.68
Cereail, Esler	729.45	690.00	1,841.46	203.53	2,484.00	174.86	6,123.30
Claresholm, Municipal	4,618.30		15,119.37	40.75	12,410.98	2,556.00	34,745.40
Cold Lake, John Nelli	904.15		3,580.65	10.00		115.50	4,610.30
Coleman, Miners' Union			No Report			No Report	
Consort, Municipal	2,016.00	2,047.00	6,463.60		5,744.85	436.37	16,707.82
Coronation, General	1,620.00		9,220.36			2.50	10,842.86
Daysland, Providence	680.75		8,906.30	4,200.00		6,522.92	20,309.97
Desmarais, St. Martin's	377.50	1,164.75					1,542.25
Didsbury, General	1,184.30	1,800.00					12,125.15
Drumheller, Municipal	8,584.20		35,899.29		36,040.42	8,024.98	88,548.88
Eckville, Municipal			No Report			No Report	
Edmonton, Beulah Rescue Home	2,039.85	1,237.50	6,776.96	3,977.55		871.81	14,903.67
Edmonton, General	23,121.45	6,000.00	323,942.27	21,764.64		48,243.06	423,071.42
Edmonton, Misericordia	8,238.15		244,799.10	24,700.00			277,737.25
Edmonton, Royal Alexandra	66,353.70		552,737.48			9,128.27	628,219.45
Edmonton, St. Joseph's	225.16	125.00	51,878.04				60,968.20
Edmonton, University	77,232.35	62,498.93	559,761.59	8,740.00		195.14	699,688.01
Edson, St. John's	2,828.70		16,743.03				19,571.73
Elk Point, Municipal	4,983.30		13,638.43		10,362.50	879.43	29,863.66
Empress, Cottage	2,493.00		18,160.74	118.25		293.56	21,065.55
Fairview, Community	1,736.10	225.00	9,542.90		6,000.00	92.50	17,596.50
Ft. McMurray, St. Gabriel's	1,242.00	3,683.14	10,639.55	5,016.15		No Report	20,580.84
Ft. Smith, General			No Report				
Ft. Vermilion, St. Theresa	256.50	540.00	1,242.68	1,800.00			3,839.18
Galahad, St. Joseph's	1,731.15	6,296.85	943.00	5,553.20			14,524.20
Grande Prairie, Municipal	6,808.95	1,440.00	23,990.88		22,585.00	3,768.79	58,593.62



Grimshaw, Battle River	1,372.50	6,690.82	215.75	21,432.00	2,303.28	8,279.07
Hanna, Municipal	4,203.00	14,456.43	89.37	.....	2,303.28	42,484.08
Hardisty, St. Anne's	1,971.45	12,727.54	3,536.12	.....	991.34	19,226.45
High Prairie, Providence	5,516.55	34,230.93	10,872.80	.....	1,837.79	56,434.82
High River, Municipal	6,697.80	20,539.50	79.67	.....	5,345.86	54,332.83
Innisfail, Municipal	4,085.10	11,357.57	.....	.....	1,742.25	32,842.92
Islay, Municipal	1,414.35	3,511.00	.....	.....	173.85	11,149.20
Jasper, Seton	1,108.80	8,830.00	5,504.80	.....	17,943.60	17,943.60
Killam, General	1,804.95	9,578.90	3,053.25	.....	61.84	14,498.94
Lacombe and District, Community	4,211.10	26,169.00	.....	.....	.....	30,380.10
Lac La Biche, St. Catherine's	1,878.75	13,995.14	7,320.00	.....	.....	23,693.89
Lamont, Public	7,326.06	55,608.94	359.60	6,091.44	5,673.63	78,215.92
Lethbridge, Galt	16,448.29	106,190.57	25.00	.....	1,730.34	131,394.20
Lethbridge, Isolation	543.60	2,629.55	.....	267.95	.....	3,441.10
Lethbridge, St. Michael's	16,557.76	155,798.65	15,020.00	.....	1,593.57	188,969.98
Lloydminster, United Municipal	4,433.85	41,349.55	.....	.....	582.27	50,593.17
McLeod, General	2,331.45	11,883.72	.....	8,146.55	.....	11,883.72
Mannville, Municipal	1,091.70	5,720.41	46.20	6,641.83	.....	16,592.52
Magrath, Municipal	.....	4,493.15	.....	.....	.....	12,954.51
Marwayne, Nursing Home	.....	No Report	.....	.....	No Report	.....
Medicine Hat, General	16,217.35	97,220.33	217.00	.....	3,487.08	126,141.76
Mundare, General	2,060.10	12,901.00	662.65	.....	.....	18,486.75
McLennan, Sacred Heart	3,505.50	19,082.02	5,738.36	.....	4,261.40	34,017.38
Myrnam, Municipal	.....	No Report	.....	.....	No Report	.....
Nordegg, General	1,083.15	99.75	.....	.....	No Report	1,182.90
Olds, General	3,748.95	No Report	.....	.....	No Report	.....
Peace River, Municipal	2,397.50	17,607.85	35.00	11,262.65	891.55	33,546.00
Pincher Creek, St. Vincent's	2,253.15	14,492.35	8,000.00	.....	.....	25,189.85
Provost, Municipal	2,484.45	7,418.90	.....	10,356.00	330.00	20,358.05
Radway, St. Joseph's	6,832.80	17,701.90	6,890.00	.....	.....	27,076.35
Red Deer, Municipal	2,567.25	35,299.85	4,427.00	1,713.77	9,198.87	53,193.18
Rimby, St. Paul's	1,800.00	13,122.38	3,172.87	.....	.....	20,116.63
Rocky Mountain House	1,458.90	6,099.58	.....	.....	.....	11,072.45
Smoky Lake, George McDougall	1,080.00	16,931.79	8,325.60	.....	.....	24,435.77
Spirit River, Holy Cross	3,433.50	18,798.54	2,400.00	.....	859.18	18,508.60
St. Paul, St. Theresa	4,693.50	12,578.00	.....	10,999.69	1,896.70	30,248.82
Stettler, Municipal	1,640.25	10,036.25	2,549.34	.....	.....	30,167.89
Trochu, St. Mary's	2,119.05	11,858.00	4,928.29	.....	206.00	14,625.84
Turner Valley, Oilfields General	6,936.30	48,881.62	.....	.....	49.12	60,795.33
Vegreville, General	4,018.95	10,655.95	4.00	.....	2,350.97	28,200.87
Vermilion, Municipal	2,158.20	5,822.88	.....	11,175.00	789.12	18,304.20
Viking, Municipal	928.80	4,736.02	4,860.00	.....	331.47	10,956.29
Vilna, Our Lady's	2,902.05	6,262.00	.....	15,720.00	1,617.52	26,501.57
Vulcan, Municipal	2,915.55	11,517.44	.....	10,254.55	456.00	25,143.54
Wainwright, Municipal	2,434.95	1,733.00	.....	9,490.50	137.70	16,601.15
Wayne, General	4,138.20	31,492.00	6,960.00	.....	.....	42,590.20
Westlock, Immaculata	5,336.10	32,621.99	.....	.....	.....	37,958.09
Wetaskiwin, Community	3,159.45	8,902.50	.....	525.14	.....	18,526.84
Willingdon, General	.....	.....	.....	.....	.....	.....
<b>Total</b>	<b>\$ 543,978.12</b>	<b>\$ 3,842,897.06</b>	<b>\$ 212,893.26</b>	<b>\$ 381,652.60</b>	<b>\$ 216,714.08</b>	<b>\$ 5,346,177.47</b>

TABLE No. 8

Hospitals	Operating Cost Per Patient Per Day Exclusive of Capital and Reserve	Percentage of Cost					Revenue per Patient per Day
		Adminis- tration %	Professional Care %	Kitchen and Dining Room %	House and Property %	Mainten- ance %	
Athabasca, Municipal	\$ 3.81	15.13	41.4	18.21	19.24	6.04	4.15
Banff, Mineral Springs	3.88	5.33	49.7	21.19	20.72	3.07	4.95
Barrhead, St. Joseph's	3.06	4.8	35.9	35.6	19.3	4.5	3.40
Bassano, Municipal	3.62	11.54	37.46	21.28	23.81	5.88	3.48
Bentley, Community	4.42	9.38	42.38	23.71	20.12	4.39	4.97
Berwyn, R.A.P.	3.99	11.28	40.05	21.32	20.44	6.88	4.22
Bonnyville, K.H.P.	3.79	3.14	39.69	23.68	26.5	6.96	2.99
Bonnyville, St. Louis	1.63	6.85	32.74	29.14	28.01	3.19	3.20
Brooks, Municipal	6.57	17.59	48.54	18.19	12.68	2.98	9.97
Calgary, General	3.66	8.74	35.6	22.97	15.15	17.52	3.79
Calgary, Isolation	2.80	20.94	26.21	33.16	6.79	11.8	.55
Calgary, Holy Cross	3.76	13.30	52.54	23.49	15.51	15.16	4.41
Calgary, Junior Red Cross	2.55	5.42	49.23	23.5	18.4	3.4	2.11
Calgary, Salvation Army Grace	2.31	10.16	34.08	25.9	16.74	13.08	2.67
Camrose, St. Mary's	3.59	16.92	43.35	17.54	17.18	4.98	4.52
Canmore, Canmore	4.99	12.97	39.55	32.48	5.53	2.45	4.52
Cardston, Municipal	3.71	11.31	39.05	25.73	16.98	6.65	3.96
Carmangay, Little Bow Municipal	4.29	9.01	32.63	15.97	15.28	27.13	4.35
Castor, Our Lady of the Rosary	4.59	10.52	34.26	23.59	17.69	13.93	4.31
Cereal, Esier	4.00	8.21	42.96	22.63	7.86	18.35	3.77
Clareholm, Municipal	2.74	7.39	47.52	23.62	14.89	6.55	3.14
Cold Lake, John Neil	5.17	7.42	36.78	20.08	22.04	13.66	2.34
Coleman, Miners' Union			No Report			No Report	
Consort, Municipal	2.74	7.21	40.39	24.36	21.46	6.56	3.44
Coronation, General	3.58	6.73	50.08	25.66	14.12	3.39	3.00
Desmarais, St. Martin's	2.47	.41	42.24	18.38	32.36	6.59	.88
Didsbury, General	3.61	4.39	45.22	28.17	17.87	4.34	3.66
Drumheller, Municipal	3.84	11.19	34.44	22.35	21.76	10.24	4.08
Eckville, Municipal			No Report			No Report	
Edmonton, Beulah Rescue Home	3.09	15.59	22.25	27.89	18.67	15.57	3.01
Edmonton, General	3.10	9.64	36.74	25.97	18.3	9.32	4.07
Edmonton, Misericordia	3.67	10.45	34.08	20.01	20.28	15.16	3.99
Edmonton, Royal Alexandra	4.65	12.02	40.55	21.44	22.7	3.28	4.63
Edmonton, St. Joseph's	1.14	13.41	31.82	30.94	10.99	12.83	1.91
Edmonton, University	4.00	10.45	43.79	23.61	11.18	10.97	5.02
Edson, St. John's	3.73	8.45	41.36	24.81	21.71	3.64	3.10
Elk Point, Municipal	2.71	11.16	39.68	20.74	22.84	5.55	2.66
Empress, Cottage	3.53	9.89	37.69	22.95	16.08	13.36	4.35
Fairview, Community	3.38	6.5	37.12	29.14	24.65	2.57	4.40
Ft. McMurray, St. Gabriel's	3.40	10.11	29.19	21.4	30.61	8.68	5.90
Ft. Smith, General			No Report			No Report	
Ft. Vermilion, St. Theresa	4.03	1.12	54.98	20.2	23.01	.61	5.40
Galahad, St. Joseph's	2.25	2.58	44.03	24.33	21.13	7.91	2.79



Grande Prairie, Municipal	3.22	11.56	42.2	19.06	16.96	10.19	3.86
Grimshaw, Battle River	3.08	4.59	41.91	28.71	13.08	11.68	2.62
Hanna, Municipal	3.39	13.06	36.6	22.29	22.01	6.07	4.54
Hardisty, St. Anne's	2.96	3.21	42.21	28.58	13.8	12.22	4.20
High Prairie, Providence	4.12	4.75	38.63	20.44	22.95	13.23	5.26
High River, Municipal	2.83	8.6	37.79	26.07	22.29	5.19	3.64
Innisfail, Municipal	3.13	12.24	41.97	22.18	20.18	3.41	3.59
Islay, Municipal	4.20	11.28	39.26	20.61	22.02	6.82	3.80
Jasper, Seton	6.19	8.13	37.14	24.37	25.64	4.7	7.18
Killam, General	3.15	7.52	38.97	22.41	20.92	10.15	3.69
Lacombe and District, Community	2.90	9.06	42.05	21.34	27.07	4.4	3.20
Lac La Biche, St. Catherine's	3.86	2.48	34.2	14.77	26.43	22.09	5.50
Lamont, Public	4.20	12.87	24.62	26.07	29.22	7.19	4.60
Lethbridge, Galt	3.44	9.74	35.35	31.33	14.92	8.64	3.57
Lethbridge, Isolation	2.80	6.31	40.22	37.16	10.89	5.43	2.80
Lethbridge, St. Michael's	3.40	12.85	36.37	33.44	14.72	2.61	4.70
Lloydminster, United Municipal	2.65	6.79	40.4	32.16	17.23	3.3	2.67
Macleod, General	5.64	9.90	36.24	37.31	13.55	3.78	2.65
Magrath, Municipal	4.90	9.26	42.52	24.55	18.81	4.8	5.33
Marwayne, Nursing Home	.....	.....	No Report	.....	.....	No Report	.....
Mannville, Municipal	2.53	10.03	37.37	22.98	24.39	5.21	3.04
Medicine Hat, General	3.13	13.18	34.58	27.55	17.62	7.04	3.42
Medicine Hat, Isolation	9.82	7.71	52.65	30.32	5.4	10.84	.....
Mundare, General	2.39	12.78	17.58	39.58	23.29	6.75	4.09
McLennan, Sacred Heart	3.59	9.69	20.65	27.32	20.57	21.77	4.35
Myrnam, Municipal	.....	.....	No Report	.....	.....	No Report	.....
Nordegg, General	4.55	2.38	39.83	39.85	9.1	8.8	4.90
Olds, General	.....	.....	No Report	.....	.....	No Report	.....
Peace River, Municipal	3.19	10.09	35.06	27.21	20.34	7.28	4.04
Pincher Creek, St. Vincent's	4.20	2.96	37.67	19.32	18.95	21.08	4.20
Provost, Municipal	3.47	9.97	33.81	25.94	18.83	11.44	3.75
Radway, St. Joseph's	5.64	8.63	32.95	26.82	18.36	13.22	4.90
Red Deer, Municipal	2.60	9.5	41.25	20.75	22.89	5.57	3.50
Rimbey, St. Paul's	2.87	17.60	25.36	22.86	23.47	11.22	3.52
Rocky Mountain House	3.78	6.67	36.96	30.42	15.21	10.71	2.50
Smoky Lake, George McDougall	5.73	6.82	59.32	12.08	15.64	6.1	7.56
Spirit River, Holy Cross	4.84	10.55	47.54	21.54	18.54	1.81	7.70
St. Paul, St. Theresa	2.20	10.84	31.57	26.12	19.88	10.63	3.13
Stettler, Municipal	2.90	15.74	42.19	21.51	16.2	4.3	2.80
Trochu, St. Mary's	3.59	5.15	37.95	23.1	21.3	12.47	4.00
Turner Valley, Oilfields General	3.13	4.18	37.48	33.34	10.26	14.72	3.00
Vegreville, General	2.66	10.35	29.11	27.31	21.87	11.34	3.94
Vermilion, Municipal	2.75	10.51	41.32	22.61	20.84	4.6	3.15
Viking, Municipal	3.72	12.30	37.76	28.27	16.37	5.3	3.82
Vilna, Our Lady's	5.30	13.14	32.38	19.36	19.64	5.5	5.20
Vulcan, Municipal	3.02	10.05	38.68	26.74	17.85	6.6	4.10
Wainwright, Municipal	3.27	13.19	39.18	29.21	12.79	5.6	4.06
Wayne, General	2.99	8.7	39.14	22.49	22.11	7.5	3.06
Westlock, Immaculata	2.22	6.15	25.58	28.54	23.72	15.51	4.55
Wetaskiwin, Community	2.60	6.79	49.93	22.61	15.26	5.4	3.04
Willingdon, General	2.28	6.88	28.25	29.97	24.42	10.45	2.62
Total	3.57	10.48	37.91	24.26	17.96	9.38	3.97



DEPARTMENT OF PUBLIC HEALTH

MUNICIPAL HOSPITALS, 1943

Hospital	Operating Cost per Patient Day Exclusive of Capital and Reserve	Administration	Professional care	Kitchen and Dining Room	House and Property	Maintenance	Revenue per Patient per Day Ex. of Capital & Res.	Total Patients Admitted During the Year	Total Patient Days During the Year	Bed and Crib Capacity	Basinets	No. of Graduate Nurses Including Superintendent	Orderlies and Ward Aides and Other Staff	Total Surgical Operations	Medical Cases	Non-Operative	Obstetrical Cases		Total Deaths for the Year excluding Still-births
																	Admitted	No. Living Births	
Athabasca	\$ 3.81	\$ .58	\$ 1.57	\$ .69	\$ .73	\$ .24	\$ 4.15	694	6,564	38	7	5	9	126	258	82	117	110	13
Bassano	3.62	.42	1.36	.77	.86	.21	3.48	605	5,910	30	6	6	4	158	192	9	127	107	14
Brooks	3.71	.42	1.45	.95	.73	.15	3.96	1,206	8,170	30	9	9	8	427	429	166	166	164	22
Cardston	2.74	.20	1.31	.65	.41	.17	3.14	1,041	11,060	33	5	10	6	198	494	48	141	144	26
Claresholm	2.75	.20	1.11	.67	.59	.18	3.44	467	4,845	16	7	2	6	191	189	28	59	59	10
Consort	3.84	.43	1.31	.86	.85	.39	4.08	3,111	21,655	86	14	13	33	993	827	235	235	214	53
Drumheller	2.71	.30	1.08	.56	.62	.15	2.66	1,576	11,203	27	10	5	14	490	680	4	141	140	21
Elk Point	3.22	.37	1.46	.66	.55	.18	3.86	1,444	13,109	44	16	10	14	836	407	40	216	214	52
Grande Prairie	3.40	.44	1.24	.76	.76	.20	4.54	945	9,340	50	10	9	12	234	405	32	137	134	28
Hanna	2.84	.25	1.07	.74	.63	.15	3.64	1,667	14,925	55	15	12	11	444	808	.....	210	211	32
High River	3.13	.38	1.31	.69	.63	.12	3.59	926	9,145	39	8	9	9	275	.....	.....	159	157	32
Innisfall	3.65	.43	1.43	.70	.83	.26	2.80	334	2,913	12	4	3	3	61	171	2	32	33	10
Islay	4.29	.39	1.40	.68	.66	1.16	4.35	308	3,038	18	4	3	3	74	.....	.....	39	39	10
Little Bow	2.66	.18	1.08	.85	.46	.09	2.67	1,737	18,914	46	14	15	15	425	1,037	100	175	180	47
Lloydminster	4.90	.45	2.08	1.20	.93	.24	5.33	391	2,426	14	2	3	4	131	180	20	42	42	7
Magrath	2.53	.20	1.00	.62	.57	.14	3.04	467	5,444	24	5	3	6	185	368	11	84	75	14
Mannville	4.73	.33	3.04	.75	.49	.12	5.28	678	3,720	21	5	2	4	173	344	17	66	64	8
Myrnam	3.19	.32	1.13	.86	.65	.23	4.04	818	8,301	25	4	6	10	209	479	26	89	78	54
Peace River	3.46	.33	1.17	.90	.65	.41	3.75	554	5,426	26	8	8	8	97	257	.....	100	100	17
Provost	2.61	.25	1.08	.54	.60	.14	3.50	1,807	15,184	56	15	13	14	435	609	142	337	294	36
Red Deer	2.92	.46	1.23	.63	.47	.13	2.80	1,095	10,702	35	10	8	15	352	303	71	175	177	40
Stettler	2.75	.29	1.14	.62	.57	.13	3.15	1,096	8,931	46	9	7	17	234	575	29	129	124	22
Taber	3.72	.43	1.40	1.05	.64	.20	3.82	602	4,783	24	6	4	15	87	252	17	119	108	24
Vermillion	3.02	.28	1.32	.75	.46	.21	4.10	744	6,889	24	6	4	12	215	313	26	144	128	15
Vulcan	3.27	.41	1.31	.98	.40	.17	4.06	634	6,180	26	4	5	12	85	298	53	104	88	19
Wainwright	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals and Averages	\$ 3.34	.....	.....	.....	.....	.....	\$ 3.77	25,147	218,337	845	203	170	165	7,135	10,160	758	3,343	3,174	605



## Division of Social Hygiene

(HAROLD ORR, O.B.E., M.D., D.P.H., F.R.C.P. (C.), F.A.C.P.,  
*Director.*)

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I have the honour to submit the twenty-fourth annual report of the Division of Social Hygiene for the year ending December 31st, 1943.

The tempo of our venereal disease control programme was stepped up very considerably in the middle of the year as a result of the increase in money placed at our disposal. The Federal grant of \$8,500.00, together with an increase in the Provincial Vote, has made it possible for us to develop our staff well along the road to adequacy. In spite of this increase it would not have been possible to have achieved the results reflected in the statistical part of this report were it not for the outstanding loyalty of the staff. Most of the members gave one or two evenings per week extra time; their only reward being the satisfaction of knowing that they were making an important contribution to our war effort. There is no branch in the public health field which has more direct bearing on the maintenance of our manpower than that of venereal disease control; and to have achieved the lowest venereal disease rate in Canada on so low a per capita expenditure is an outstanding tribute to the zeal, keenness and loyalty of the members of my staff.

We appreciate very much the sympathetic support given to us by the Hon. Dr. W. W. Cross and Dr. M. R. Bow. We owe very much to the active co-operation of the officers and men of the Royal Canadian Mounted Police, to the local police forces of our cities, to local medical officers of health, health units in the Province, practising physicians, and to the medical officers of the Armed Forces, for their invaluable assistance in enabling us to locate and bring under control sources of infection. In this connection a physician, who is consulted by a venereally infected patient, can play a very important part in this programme. This patient possesses information of incalculable value to the community. If every patient could be persuaded to give information leading to the finding and bringing under treatment the person who infected him or her; the control of these diseases would be tremendously simplified. The fact that during the year for every four persons with recently acquired venereal disease seeking medical advice we were able to bring under treatment three others, who probably did not know of their infection, speaks well for the efficiency of this part of the programme. This record is said not to be approached elsewhere on the American Continent, and is the main reason for our low venereal disease rate.

During the year Mrs. Tainton and her assistants visited practically all the centres and all the military and air force establishments in the Province, and have maintained a very close liaison with them. Accompanied by the venereal disease control officer for British Columbia and by Dr. Bow, we visited the northern



part of the Province and tightened up the venereal disease control measures on the southern end of the Alaska Highway. Many problems arising out of the construction of the highway were dealt with. As a direct result of the influx of large numbers of troops and work gangs, it became necessary to establish clinics at Peace River, High Prairie and McLennan. In addition three of our district nurses in the north country, after special training in our Edmonton headquarters, have been conducting clinics at remote points, especially in the Slave Lake district. This is in the nature of an emergency measure necessitated by the lack of medical personnel and was concurred in by a resolution passed unanimously at the general session of the National Venereal Disease Control Conference held at Ottawa in December.

The question of closing the Medicine Hat and Lethbridge clinics is under consideration. Most of the patients in these communities are treated by private physicians, to whom we supply drugs free, and the cost of maintaining free clinics there is out of proportion to the service rendered.

Your director attended the National Conference on Venereal Disease Control in Ottawa during the first week in December, at which he served as chairman of the Committee on Diagnostic and Therapeutic Procedures. Dr. Somerville also represented the Department at this meeting. A Provincial Conference was not held during the year, but several conferences of small groups were held in Edmonton and Calgary. Several of these were with the dance hall proprietors. With the closing of the houses of prostitution, the public dance hall became a meeting place for infected girls and members of the Armed Forces, with a considerable increase in the number of infections acquired in this way. The dance hall proprietors, when the facts were laid before them, patriotically took steps to end this state of affairs, with the result that the dance hall now plays a very minor role in the facilitation process.

The education programme has continued unabated. Plans are under way for a Province-wide campaign on Venereal Disease education by the Junior Chambers of Commerce early in 1945. The departmental lecturer, Mr. F. T. Cook, has continued his excellent work, having held 25 meetings in various parts of the Province, attended by a total of 4,500 persons. We distributed quantities of literature and circulated a large number of films.

Our consultation service for physicians seems to be serving a useful service, having been used by 150 physicians.

Drugs were supplied free as is our policy for the treatment of their venereally infected patients.

The following statistical report indicates briefly the work of the Department.







PROVINCIAL CLINIC, c/o Galt Hospital, Lethbridge  
CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENT

	Males			Females			Totals
	0-12 yrs.	12-20 yrs.	Over 20 yrs.	0-12 yrs.	12-20 yrs.	Over 20 yrs.	
Carried forward from 1942:							
Syphilis .....			9			1	10
Gonorrhoea .....							
							10
New patients admitted in 1943:							
Syphilis .....			5				5
Gonorrhoea .....			1				1
Non-Venereal .....			3			1	4
Chancroid .....			1				1
Total number of patients treated.....			19			2	21
			Males—19			Females—2	

Number and results of Kahn and Wassermann tests: 57 tests, of which 24 were positive.  
Number and results of Cerebrospinal Fluid tests: 2 tests, of which 1 was positive.  
Number and results of Bacteriological tests for Gonococci: 2 tests, of which 1 was positive.

PROVINCIAL CLINIC, c/o General Hospital, Medicine Hat  
CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENT

	Males			Females			Totals
	0-12 yrs.	12-20 yrs.	Over 20 yrs.	0-12 yrs.	12-20 yrs.	Over 20 yrs.	
Carried forward from 1942:							
Syphilis .....			4			3	7
Gonorrhoea .....						1	1
							8
New patients admitted in 1943:							
Syphilis .....	1		6			5	12
Gonorrhoea .....			7		3	5	15
Non-Venereal .....	4	1	5	2	2		14
Total number of patients treated .....	5	1	22	2	5	14	49
			Males—28			Females—21	

Number and results of Kahn and Wassermann tests: 198 tests, of which 82 were positive.  
Number and results of Cerebrospinal Fluid tests: 3 tests, of which 1 was positive.  
Number and results of Bacteriological tests for Gonococci: 88 tests, of which 11 were positive.

PROVINCIAL GAOL, Fort Saskatchewan  
CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENT

	Males			Females			Totals
	0-12 yrs.	12-20 yrs.	Over 20 yrs.	0-12 yrs.	12-20 yrs.	Over 20 yrs.	
Carried forward from 1942:							
Syphilis .....			9			4	13
Gonorrhoea .....						7	7
							20
New patients admitted in 1943:							
Syphilis .....		1	11		3	26	41
Gonorrhoea .....			7		29	43	79
Total number of patients treated .....		1	27		32	80	140
Total number of prisoners examined:							
Females .....							310
Males .....							950
							1,260

Number and results of Kahn and Wassermann tests: 999 tests, of which 164 were positive.  
Number and results of Cerebrospinal Fluid tests: 5 tests, of which 1 was positive.  
Number and results of Bacteriological tests for Gonococci: 4,083 tests, of which 262 were positive.



PROVINCIAL GAOL, Lethbridge  
CLASSIFICATION OF DISEASES

All patients are males over 20 years of age:	Syphilis	Gonorrhoea	Totals
Carried forward from 1942 .....	1	.....	1
New patients admitted in 1943 .....	12	5	17
	<hr/>	<hr/>	<hr/>
Total number of patients treated.....	13	5	18

Number of results of Kahn and Wassermann tests: 406 tests, of which 9 were positive.  
Number of prisoners examined: 500.

RECAPITULATION

OF PATIENTS TREATED BY THE STAFF OF THE DIVISION OF SOCIAL  
HYGIENE IN 1943

Sex:	Syphilis.	Gonorrhoea.	Chancroid.	Non-Venereal.	Totals.
Males .....	231	238	1	238	703
Females .....	183	364	.....	348	895
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Totals .....	414	602	1	581	1598

Total number of new cases of: Syphilis ..... 169  
Gonorrhoea ..... 490  
Total ..... 659

CASES REPORTED BY DOCTORS AND MILITARY AUTHORITIES

	Private Physicians.	M.D. No. 13	R.C.A.F. No. 4	Totals.
Syphilis .....	380	29	25	434
Gonorrhoea .....	147	202	279	628
	<hr/>	<hr/>	<hr/>	<hr/>
Totals .....	527	231	304	1062



## Sanitary Engineering Division

(D. B. MENZIES, M.Sc., C.E., *Provincial Sanitary Engineer.*)

The continuation of the war has again resulted in sanitary conditions slipping backwards, essentially because of the shortage of manpower. More municipalities previously operating their own system of garbage disposal have had to discontinue them and have had to throw the responsibility of such disposal back on the individual, often with very unsatisfactory results. Likewise restaurant sanitation has shown a definitely backward trend. Insufficient help, inability to obtain materials for renovating and improving, and the shortage of carpenters and decorators, etc., have been the primary reasons for this undesirable result. Moreover many restaurants in rural Alberta have closed their doors, in many cases leaving only one restaurant to carry on business. Thus with no competition to meet, there has been less stimulus to improve conditions than was formerly the case. Sanitation, on the other hand, in lumber camps, has shown a definite improvement. This no doubt results from the fact that the operators of lumber camps have been forced to improve their camps if they hope to get any labour. This is a definite contrast with conditions as they existed a few years ago.

The milk business for table supply continues to suffer. The higher prices being paid for milk and cream to be used for cheese and butter-making, has caused more and more dairymen formerly producing milk for table use to give up their business and to ship directly to processing factories. Veterinary inspectors, likewise, are still not available in sufficient numbers to properly test cattle, both for tuberculosis and contagious abortion.

The higher earning capacity of the farmer is again emphasized by the number of rural homes that have been modernized during the year by the installation of complete plumbing facilities. The Division of Sanitary Engineering has provided a great deal of literature along these lines and the demand continues.

As in 1942, very little municipal waterworks or sewerage construction was carried out, but there was a definite revival of interest in such schemes, possibly stimulated by hope that the end of the war was approaching. The Town of Claresholm, however, was successful in providing a good portion of its area with sewerage, and as was pointed out in last year's report, this marks the first occasion in Alberta's history where the financing of the scheme was partly taken care of by a sewer rental system.

The following certificates were issued by the Provincial Board of Health covering public works and hospital construction:

1. City of Edmonton, Certificate No. 459-43. Sewer Construction. Estimated cost, \$22,704.00.
2. Town of Claresholm, Certificate No. 460-43. Sewer Construction. Cost, \$43,000.00.
3. City of Calgary, Certificate No. 461-43. Water and Sewer Connections. Estimated cost, \$20,000.



4. Esler Hospital Board. Certificate No. 462-43. Hospital Improvements. Estimated cost, \$7,000.00.

5. Town of Macleod. Certificate No. 463-43. Sewage Disposal System. Estimated cost, \$18,770.00.

6. Town of Pincher Creek. Certificate No. 464-43. Reconstruction of Water-works Intake. Estimated cost, \$4,331.25.

7. Corps of Engineers U. S. Army. Certificate No. 466-43. Sewage Disposal Plant.

Continuing its policy of trying to obtain one or more water samples from public water-works systems of the larger centres of population for bacteriological examination, the division obtained the following results:

Municipality and Source of Supply.	Chlorinated	Positive (confirmed)	Negative
Athabasca—Athabasca River .....	Yes	5	7
Bassano—Bow River .....	Yes	1	2
Bellevue—Connelly Creek .....	No	0	2
Blairmore—York Creek and Oldmar River .....	No	0	1
Brooks—Irrigation Water .....	Yes	0	4
Calgary—Elbow River .....	Yes	0	15
Camrose—Stoney Creek and Wells .....	Yes	7	67
Cardston—Lees Creek .....	No	8	0
Carmangay—Little Bow River .....	at times	0	1
Claresholm—Willow Creek .....	Yes	3	18
Edmonton—N. Saskatchewan River .....	Yes	0	27
Edson—Wells .....	No	0	3
Grande Prairie—Wells .....	No	0	20
Hanna .....	No	0	2
High River—Wells .....	No	0	10
Lacombe—Wells .....	No	1	10
Macleod—Oldman River .....	Yes	0	8
Magrath—Wells .....	No	0	4
Medicine Hat—S. Saskatchewan River .....	Yes	1	49
Nordegg .....	No	4	4
Pincher Creek—Pincher Creek .....	No	5	0
Raymond—Surface Reservoir .....	At times	1	2
Redcliff—S. Saskatchewan River .....	Yes	7	12
Red Deer—Red Deer River .....	Yes	0	12
Taber—Oldman River .....	Yes	0	15
Turner Valley—Highwood River .....	Yes	0	11
Vegreville—Wells .....	No	0	2
Wetaskiwin .....	No	0	26

During the year the reports of 2,487 water tests were received from the Provincial Laboratory, 2,016 being bacteriological and 471 chemical. The reports on 9 ice and 113 milk samples were likewise received. In the case of contaminated waters, the persons concerned were advised as to the procedure to follow in order to restore the quality of the water to a safe condition.

The Sanitary Inspector of the Division investigated 111 complaints from different points in the Province along with other routine inspections. inspected 42 industrial camps and disinfested a number of buildings with hydrocyanic acid gas.

Plumbing fixtures installed throughout the Province during the year under the inspection of either Local Boards or the Provincial Board of Health were as follows: Water Closets 4,608, Lavatory Basins 3,503, Laundry Tubs 459, Baths and Showers 2,219, Sinks 2,503, Miscellaneous Fixtures 992, Septic Tanks installed 145. As a result of the above plumbing installations 296 outside closets were eliminated.

The staff of the division remained the same as in 1942, viz. the Director, one sanitary inspector, one plumbing inspector and one stenographer.



## Dental Hygiene Division

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As in former years a full-time dental service was provided for all patients in all Provincial Institutions, which include the Provincial Mental Hospital at Ponoka, the Provincial Auxiliary Hospitals at Claresholm and Raymond, the Provincial Mental Institute at Oliver, the Provincial Training School at Red Deer, and the Provincial Sanatoria. A report of the work done may be found in the annual report of these institutions.

Owing to the impossibility of securing suitable professional staff, the travelling clinic did not go out in 1943, and there is, therefore, no work to report from this service.

Several radio talks were given over CKUA on dental health by Dr. H. A. Gilchrist, of the University of Alberta.

A new venture in dental services was made during the year by the Lamont Health Unit. A full-time dentist was employed by the health unit, through whose services full dental care is provided for all school children in the district. The clinics are decentralized, that is, clinics are held at various places chosen to cover the entire area with the greatest convenience to the children. This is the only rural area in the Province where dental service is provided by a health organization.



## Cancer Service

(E. L. POPE, M.D., *Director, Cancer Services*)

On behalf of the late Director, Dr. G. H. Malcolmson, whose widely lamented death occurred in February, 1944, I have the honour to submit the annual report of the Cancer Diagnostic Clinics for the year 1943.

Number of patients examined:

	New	Follow-up	Total
Edmonton .....	1,046	714	1,760
Calgary .....	624	249	873
Totals .....	1,670	963	2,633

It will be noted that the total number of new cases is 1,670, compared with 1,142 in 1941 and 1,186 in 1942.

Of these new cases, 847 were found to be non-malignant and therefore did not require treatment under the Cancer Clinic.

A summary of the anatomical distribution of the cancerous lesions in order of frequency is attached herewith, the total number being 813.

The total number of surgical operations authorized for 1943 was as follows:

Edmonton .....	297
Calgary .....	259
	<u>556</u>

The total number of authorizations for surgical operations acted upon was as follows:

Edmonton .....	221
Calgary .....	128
	<u>349</u>

The total number of cases referred by the Clinics for X-ray therapy:

Edmonton .....	388
Calgary .....	153
	<u>541</u>

Number of cases referred for X-ray examinations:

Edmonton .....	312
Calgary .....	160
	<u>472</u>

From August 1st, 1943, until the end of the year 32 cases were referred to hospitals in Edmonton and Calgary for the purpose of diagnosis.

Since the opening of the Clinics in 1941 the total number of cases examined, exclusive of re-examinations, is 3,998. Of these 1,994 were diagnosed as cancer or 49.32%.



## DEPARTMENT OF PUBLIC HEALTH

## 1943 ANATOMICAL DISTRIBUTION OF CANCEROUS LESIONS IN ORDER OF FREQUENCY

	Edmonton	Calgary	Total
Skin .....	81	60	141
Breast .....	76	58	134
Lip .....	41	32	73
Stomach .....	46	18	64
Uterine Cervix .....	36	27	63
Genito-urinary, male .....	35	22	57
Colon .....	34	16	50
Rectum .....	20	17	37
Genito-urinary, female .....	21	13	34
Malignant Lymphoma .....	15	14	29
Uterine Corpus .....	15	11	26
Mouth, Tongue, etc. ....	10	9	19
Miscellaneous .....	14	5	19
Larynx, Lung, Pharynx .....	9	6	15
Oesophagus .....	15	.....	15
Brain, Spinal Cord .....	15	.....	15
Bone .....	12	3	15
Gall Bladder, Liver and Pancreas .....	7	.....	7
	<hr/> 502	<hr/> 311	<hr/> 813

## Mental Health Division

(RANDALL R. MACLEAN, M.D., *General Medical Superintendent of Mental Institutions*)

Separate reports are submitted for each branch of this Division, namely:

Eugenics Board,  
Mental Hygiene (Guidance Clinics),  
Provincial Mental Hospital, Ponoka, including Provincial  
Auxiliary Hospitals at Claresholm and Raymond,  
Provincial Mental Institute, Oliver,  
Provincial Training School for Mental Defectives, Red Deer.

The institutional population shows an increase over the previous year, the increase being 1.1%. On January 1st there were at all institutions, 1,902 males and 1,074 females, a total of 2,976 patients. At the close of the year there were 1,885 male patients and 1,124 female patients, a total of 3,009 an increase of 33 for the year.

From the time our first Mental Hospital was opened in 1911, there has been a steady increase in the population of our mental institutions ranging from 3 to 8% per year until 1943, when the rate dropped to 1.1%.

For the same period the ratio of hospitalized mental patients to the population of the Province has shown an annual increase from 156 per 100,000 in 1921 to 379 in 1943.

The admission rate to the Provincial Institutions was approximately the same as 1942. The discharge rate was relatively high, but the admissions were somewhat in excess of the discharges. Admissions of patients to the Provincial Mental Hospital, Ponoka, numbered 505; there were 351 discharged, 94 transfers to other institutions, and 87 deaths. The net result was a slight reduction in the population of the Provincial Mental Hospital, Ponoka, during the year. During the year, some 51 female patients were transferred from the Provincial Mental Hospital at Ponoka to the Provincial Mental Institute, the Claresholm Auxiliary Mental Hospital and the Raymond Auxiliary Mental Hospital. The bulk of the patients were transferred to the new Women's Ward at the Provincial Mental Institute, Oliver. No additional accommodation was provided at the Provincial Training School for Mental Defectives.

It is still thought highly advisable that some provision be made for Psychiatric Wards in Calgary and Edmonton at the earliest possible moment.

Radio talks on Mental Health subjects were given over CKUA by members of the staffs of the institutions during the year. A number of lectures and talks on Mental Hygiene and allied subjects were also given to clubs and societies throughout the Province. The usual course of lectures and clinics in Psychiatry was given to the medical students at the University of Alberta.

Special mention should be made of the faithful service given by the Superintendents of the various institutions and members of their staffs, despite the handicaps of shortage of staff, due to war-



time conditions. With the introduction of the eight-hour day, the problems of staffing the wards has become more acute, with the unfortunate result that active treatment of an intensive character had to be reduced to a minimum.

During the year 1943, five meetings of the Eugenics Board were held at the Provincial Mental Hospital, Ponoka, and one meeting was held at the Provincial Training School, Red Deer. A total of 130 cases were presented to the Eugenics Board, making the total number of cases presented to the Board to date, 1,920. During 1943, 29 males cases were sterilized, and 31 females had sterilization operations. The total number of cases operated on to December 31st, 1943, was 917—368 males and 549 females. All operations were performed in the operating room of the Provincial Mental Hospital, Ponoka, by the honorary surgeons, assisted by the medical staff of the hospital.

Mental Hygiene or Guidance Clinics were held regularly in Edmonton and Calgary and periodically in Lamont, Red Deer and Stettler, and clinic cases were seen in consultation at the Provincial Mental Hospital at Ponoka. There were certain changes in the clinic staff, and there was a shortage of trained social workers available for appointments.

#### TABULATED SUMMARY

##### A.—INSTITUTIONS—MOVEMENT OF PATIENTS

	On Books Jan. 1, 1943			Admissions 1943			Discharges 1943			Deaths 1943			On Books Dec. 31/43		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
	*40	*5											*30	*9	
Ponoka .....	847	656	1548	269	236	505	247	198	445	53	34	87	827	655	1521
Oliver .....	869	70	939	102	59	161	40	13	53	49	1	50	882	115	997
Red Deer .....	146	131	277	11	9	20	6	7	13	5	3	8	146	130	276
Claresholm .....		98	98		9	9		6	6		1	1		100	100
Raymond .....		114	114		8	8		5	5		2	2		115	115
Totals .....	1902	1074	2976	382	321	703	293	229	522	107	41	148	1885	1124	3009

\*On leave.

†In residence.

##### ADMISSIONS—BROAD DIAGNOSIS

	Psychotic			Non-Psychotic			Mental Defectives			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
	Ponoka .....	198	192	390	50	20	70	21	24	45	269	236
Oliver .....	80	42	122	21	11	32	1	6	7	102	59	161
Red Deer .....							11	9	20	11	9	20
Claresholm .....		9	9								9	9
Raymond .....		7	7					1	1		8	8
Totals .....	278	250	528	71	31	102	33	40	73	382	321	703

##### B.—CLINIC SUMMARY

Place	1942				1943				Total New Cases Since 1929
	No. of Clinics	New Cases	Follow-ups Interviews	Case Load Total	No. of Clinics	New Cases	Follow-ups Interviews	Case Load Total	
Edmonton .....	37	146	458	604	34	86	363	449	1456
Calgary .....	17	72	763	835	18	86	634	720	1356
Lethbridge .....	2	19	4	23					627
Medicine Hat .....		6		6					545
Drumheller .....	1	4	9	13					127
High River .....									88
Lamont .....	3	15	21	36	3	12	6	18	131
Red Deer .....	4	15	11	26	4	13	7	20	104
Other Clinics .....	6	33	6	39	5	15	3	18	539
Totals .....	70	310	1272	1582	64	212	1013	1225	4973



## The Eugenics Board for the Province of Alberta

(J. M. MACEachran, M.A., Ph.D., *Chairman.*)

During the year 1943, the Eugenics Board held five meetings at the Provincial Mental Hospital, Ponoka, on January 28, March 25, May 27, July 29, and October 19, and one meeting at the Provincial Training School for Mental Defectives, Red Deer, on January 28.

Sixty-seven male and sixty-three female cases were presented to the Board during the year, making a total of one hundred and thirty cases, as compared to ninety-eight presented last year. Of these, seventeen cases were presented to the Board through the Guidance Clinics — four male cases, and thirteen female cases.

To date nineteen hundred and twenty cases have been presented to and passed by the Eugenics Board.

During 1943, twenty-nine operations were done on males, and thirty-one operations on females, making a total of sixty operations. In cases of five women and eleven men, the more serious operation removing the glands was done at the Board's direction. Last year fifty-two operations were performed under the direction of the Eugenics Board.

All operations were performed by either Dr. J. W. Richardson, of Calgary, or Dr. J. Ross Vant, of Edmonton, at the Provincial Mental Hospital, which is the usual procedure. The Board wishes to take this opportunity of thanking the Medical, Nursing, and Attendant Staffs for their assistance in this work.

As the number of social workers associated with the Guidance Clinics dropped to one for part of this year, the follow-up work in connection with the Eugenics Board cases had, of necessity, to be curtailed. However, every attempt was made under the circumstances to follow up the cases in the Calgary district, where the social worker is stationed.

The Eugenics Board again acted as a Visiting Board to the various Provincial Institutions this year, and the tour was made in October. The Provincial Mental Institute at Oliver was visited on October 19, the Provincial Mental Hospital at Ponoka and the Provincial Training School at Red Deer on October 20, the Central Alberta Sanatorium and the Claresholm Auxiliary Mental Hospital on October 21; and on October 22 a visit was made to the Auxiliary Mental Hospital at Raymond. A detailed report of these visits has already been submitted to the Minister of Health.

The Board wishes to thank Dr. R. R. MacLean, General Superintendent of Mental Institutions, for the transportation he provided and for his assistance and co-operation during the tour.



The Board would also like to express appreciation of the work of Mrs. A. M. James, stenographer at the Provincial Mental Hospital, whose conscientious work in the preparation of the summaries of the cases presented to the Eugenics Board has been invaluable.

Miss E. Mary Frost, who was Acting Secretary of the Eugenics Board during the past year, resigned at the end of February, 1943, and her place was taken by Miss K. Colgrove, Social worker of the Calgary Guidance Clinic. The Board wishes to thank Miss Frost for her systematic and careful work.

During April and May of this year, Miss K. Colgrove, Acting Secretary to the Board visited as many as possible of the cases who had had the more serious type of sterilization operation and presented a report of her findings to the Board. To date there has not been a sufficient number of cases in this class to establish with certainty any conclusions regarding the effects of these operations on the emotional life of the patients concerned. However, Miss Colgrove's report shows that, with certain patients, there appears to have been some improvement in general conduct and tractability.

A tabular summary of the Eugenics Board work to the end of 1943 is attached.

#### CASES PRESENTED AND PASSED

(To December 31, 1943)

	Yearly Totals			Cumulative Totals		
	Male	Female	Totals	Male	Female	Totals
1929	1	3	4	1	3	4
1930	6	36	42	7	39	46
1931	25	63	88	32	102	134
1932	20	43	63	52	145	197
1933	35	56	91	87	201	288
1934	132	82	214	219	283	502
1935	123	97	220	342	380	722
1936	103	88	191	445	468	913
1937	115	87	202	560	555	1115
1938	84	84	168	644	639	1283
1939	104	74	178	748	713	1461
1940	53	61	114	801	774	1575
1941	67	50	117	868	824	1692
1942	47	51	98	915	875	1790
1943	67	63	130	982	938	1920

#### OPERATIONS ONLY

(To December 31, 1943)

	Yearly Totals			Cumulative Totals		
	Male	Female	Totals	Male	Female	Totals
1929	1	2	3	1	2	3
1930	6	30	36	7	32	39
1931	13	51	64	20	83	103
1932	15	34	49	35	117	152
1933	13	41	54	48	158	206
1934	46	59	105	94	217	311
1935	33	54	87	127	271	398
1936	36	42	78	163	313	476
1937	57	48	105	220	361	581
1938	26	37	63	246	398	644
1939	18	29	47	264	427	691
1940	14	23	37	278	450	728
1941	37	40	77	315	490	805
1942	24	28	52	339	518	857
1943	29	31	60	368	549	917



## Guidance Clinics

(R. R. MACLEAN, M.D., *Director.*)

The work of the Guidance Clinics in the Mental Hygiene Division was carried on regularly during 1943 on a reduced scale which has been necessary during wartime. The annual trip to the Peace River-Grande Prairie area has been discontinued since 1939. Further Clinics in Medicine Hat and High River have been cancelled since 1941.

Last year it was possible to hold two Clinics in Lethbridge, one in Drumheller and three in Legal, but during 1943, it was impossible to hold Clinics in any of these centers, partly because of the distance of the centers from the Mental Hospital, and partly because there was no full-time social worker in the Edmonton Clinic for part of the year to help with the Clinic work at Legal.

Major E. J. Kibblewhite, who was Chief Psychiatric Social Worker, is still on leave-of-absence, and is with the Canadian Army. Miss Isobel Munroe, who was granted leave of absence in July, 1942, is still in England under the auspices of the British Children's War Services.

In March, 1943, Miss E. Mary Frost, who has been with the Clinics since 1939, left to be married. Miss Frost's Clinic work has been much appreciated by all who worked with her. During the time she was with the Clinics, she made important contributions to survey and statistical work. We wish to take this opportunity to wish Miss Frost — (now Mrs. T. A. Gander) — health and happiness in the future.

In August, 1943, Miss Marjorie Thompson, an honour graduate of the University of Alberta, was appointed to the Clinic Staff. She took up her duties with the Edmonton Clinic in September, after spending seven weeks in the Calgary Clinic with Miss Kathleene Colgrove, the regular social worker there. Miss Thompson has been doing very good work since her appointment. Since Miss Thompson's appointment, Miss Colgrove has been acting in the capacity of Chief Psychiatric Social Worker.

During the period from March to September, when there was no regular social worker in the Edmonton Clinic, Mrs. A. R. Schrag, who was with the Clinics before her marriage, assisted ably with the work in that district. Had it not been for Mrs. Schrag's timely assistance, the Edmonton Clinics could not have been held during that period.

During 1943, it has been necessary for Miss Colgrove, who is stationed in Calgary, to divide her duties between the Calgary Clinic and the Provincial Mental Hospital, where she has taken over the work formerly done by Mr. Kibblewhite, including the secretarial work of the Eugenics Board.

As in former years, Dr. Randall R. MacLean, Director of Clinics and General Superintendent of Provincial Mental Hos-



pitals, or Dr. T. C. Michie, Assistant Superintendent of the Provincial Mental Hospital, attended the Clinics in the southern part of the Province. Dr. A. Ralph Schrag, Assistant Superintendent of the Provincial Mental Institute, attended the Clinics in Edmonton and Lamont, and Dr. D. L. McCullough, Medical Superintendent of the Provincial Training School, attended the Clinics at Red Deer and Stettler.

The total number of Clinics held in 1943 was 64, as compared with 70 last year. The number of new cases seen this year was 212. Last year it was 310. The number of follow-ups and interviews was 1013, as compared with 1272 in 1942. This makes a total case load of 1225 for this year, as compared with 1582 in 1942.

Since the Guidance Clinics were started in 1929, 4973 cases have been examined throughout the Province.

More detailed reports of the work at the various centers follows below:

#### *Edmonton.*

Thirty-four half day Clinics were held in 1943 as compared with 37 in 1942. Eighty-six new cases were seen as compared with 146 in 1942. This is a decrease of 40 per cent. from 1942, and of ten per cent. from 1941. The total number of follow-ups and interviews for 1943 was 363. This is a decrease of 20 per cent. from the follow-ups and interviews last year, and a decrease of 34 per cent. from 1941. The case load total for 1943 was 449, as compared with a total of 604 for 1942.

The decrease in new cases and in follow-ups and interviews is probably due to two facts — the first being that the Edmonton social worker, Miss Mary Frost, left at the end of February to be married. Miss Frost has proven herself to be a valuable member of the Guidance Clinic Staff, and her absence made considerable difference to the volume of work done during the year. Mrs. A. R. Schrag fortunately consented to act as temporary social worker in Miss Frost's place. For five months Mrs. Schrag gave two half-days a week to the work in the Edmonton Clinic, and so kept the Clinics running successfully. We are much indebted to her for her timely assistance, and to Miss Frost for her excellent work while with the Guidance Clinics. The second reason for the decrease lies in the fact that approximately one-third of Miss Frost's time was spent at the Provincial Mental Hospital in connection with other duties. The follow-ups also decreased during the five months that Mrs. Schrag was on the Staff, as she had time for the Clinics only.

Dr. A. Ralph Schrag, Assistant Superintendent of the Provincial Mental Institute, has been the Psychiatrist in attendance at the Edmonton Clinic. Miss Marjorie M. Thompson was appointed to the position of resident social worker in Edmonton, at the beginning of September. Since her appointment, she has been careful and conscientious, and is making rapid progress in her work.



*Calgary.*

During the past year, eighteen Clinics were held in Calgary—one more than in 1942. Eighty-six new cases were examined, which is 14 more than during 1942. This increase is due, in part, to the fact that the Clinics have been started a half-hour earlier in the day.

The follow-up visits and interviews showed a decrease from 763 last year to 634. This decrease is rather less than was expected, because the social worker is now spending half-time away from the center, in connection with other Clinic and hospital work. Last year she spent approximately one-third of her time elsewhere.

The Calgary Clinic has the same quarters in the City Hall as in former years. We wish to take this opportunity once more to express our appreciation of the assistance given by the Pre-School Clinic and the Calgary Health Department, especially during the absence of the social worker from this center.

Dr. MacLean attended eleven of the Clinics and Dr. Michie seven.

*Lethbridge.*

It was not possible to hold any Clinics in this center during 1943, as to do so would necessitate a Psychiatrist being away from the Mental Hospital for more than two successive days, and at the present one cannot be spared for this length of time.

*Medicine Hat.*

No Medicine Hat Clinics have been held since 1941.

*Drumheller.*

No Clinics were held in this center during 1943.

*High River.*

Clinics at this center have been cancelled since 1941.

*Lamont.*

Three Clinics were held at Lamont during 1943 and 12 new cases were seen. This is a decrease from the 15 new cases seen in 1942. The total case load was 18, as compared with 36 the previous year.

*Red Deer.*

During the past year four Clinics were held at this center, which is the same number as in 1942. Thirteen new cases were examined and the total case load was 20, as compared with 26 the previous year.

The Clinics were held in the Health Unit Offices, as has been the practice in former years. We wish to thank Mrs. Laura Humber, Public Health Nurse, who is in charge of the Health Unit, and her Staff for their assistance in making Clinic appointments.

Dr. D. L. McCullough of the Provincial Training School at Red Deer, attended all four Clinics.



*Stettler.*

Three Clinics were held in Stettler last year—one more than in 1942. Ten new cases were seen and the case load total was 12, as compared with 9 the previous year. Again the weather on more than one occasion was unfavourable, resulting in a drop in the number attending Clinics.

Dr. D. L. McCullough attended all the Clinics. Dr. M. G. McCallum and his Staff assisted materially in the preparatory work as in former years.

*Ponoka.*

A limited number of individual cases have been examined at the Mental Hospital aside from the regular hospital work. During the year five new cases and one return case were examined.

TABLE 1  
SUMMARY OF NEW CASES EXAMINED AND FOLLOW-UP WORK

	1942				1943				Total New Cases Since 1929
	No. of Clinics	New Cases	Follow-ups Interviews	Case Load Total	No. of Clinics	New Cases	Follow-ups Interviews	Case Load Total	
Edmonton .....	37*	146	458	604	34*	86	363	449	1456
Calgary .....	17	72	763	835	18	86	634	720	1356
Lethbridge .....	2	19	4	23	.....	.....	.....	.....	627
Medicine Hat .....	.....	6	.....	6	.....	.....	.....	.....	545
Drumheller .....	1	4	9	13	.....	.....	.....	.....	127
High River .....	.....	.....	.....	.....	.....	.....	.....	.....	88
Lamont .....	3	15	21	36	3	12	6	18	131
Red Deer .....	4	15	11	26	4	13	7	20	104
Other Clinics .....	6†	33	6	39	5	15	3	18	539
Totals .....	70	310	1272	1582	64	212	1013	1225	4973

\*Half-day Clinics.

†Including one Two-day Clinic.



TABLE 2  
AGE AND SEX CLASSIFICATION OF NEW CLINIC CASES, 1943

Age Group	Edmonton		Calgary		Lethbridge		Medicine Hat		Other Clinics		Totals		Percentages	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
0-4	2	4	6	4	10	1	1	2	9	9	18	8.1	8.9	8.5
5-9	7	7	14	6	25	12	4	16	38	17	55	34.2	16.8	26.0
10-14	15	8	23	14	24	5	2	7	34	20	54	30.6	19.8	25.5
15-19	4	5	9	2	11	1	1	1	6	15	21	5.4	14.9	9.9
20-24	3	5	8	3	3	1	1	2	7	6	13	6.3	5.9	6.1
25-29	3	3	6	4	4	2	1	3	5	8	13	4.5	7.9	6.1
30-34	1	4	5	3	3	2	1	2	3	7	10	2.7	6.9	4.7
35-39	1	5	6	1	1	1	1	1	1	7	8	9	6.9	3.8
40-44	2	1	3	1	1	1	4	5	3	5	8	2.7	5.0	3.8
45-49	1	1	2	1	1	1	1	1	1	3	4	9	3.0	1.9
50	2	1	2	1	3	4	1	1	3	3	6	2.7	3.0	2.8
Unknown	1	1	2	1	2	1	1	2	1	1	2	9	1.0	9
Totals	42	44	86	45	41	86	24	16	40	111	101	212	99.9	100.0

TABLE 3  
CLASSIFICATION OF NEW CLINIC CASES ACCORDING TO INTELLIGENCE QUOTIENTS  
INTELLIGENCE QUOTIENTS OF 75 AND LESS

I.Q. Range	Edmonton		Calgary		Lethbridge		Medicine Hat		Other Clinics		Total	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
0-25	2	6	8	3	4	7	1	2	3	6	12	18
26-50	3	3	6	10	4	14	4	4	8	17	11	28
51-75	4	5	9	6	5	11	5	4	9	15	14	29
Undetermined	4	4	4	1	1	2	2	2	4	3	7	10
Totals	9	18	27	20	14	34	12	12	24	41	44	85



TABLE 4a  
CLASSIFICATION OF NEW CLINIC CASES—PRE-SCHOOL GROUP  
(0-6 YEARS 11 MONTHS)

Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
Examination and Report .....	.....	.....	.....	.....	.....	.....
Mental Deficiency:						
General Retardation .....	8	13	.....	.....	5	26
Epilepsy .....	.....	1	.....	.....	.....	1
Epilepsy .....	.....	1	.....	.....	.....	1
Other Conditions .....	1	6	.....	.....	2	9
Totals .....	9	21	.....	.....	7	37

TABLE 4b  
CLASSIFICATION OF NEW CLINIC CASES—SCHOOL AGE GROUP  
(7 YEARS 0 MONTHS-18 YEARS 11 MONTHS)

Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
Examination and Report .....	.....	.....	.....	.....	.....	.....
Mental Deficiency:						
General Retardation .....	10	12	.....	.....	8	30
Behaviour Problem (including theft) .....	5	2	.....	.....	.....	7
Sex Delinquency:						
Epilepsy .....	1	2	.....	.....	1	4
Physical Defect .....	.....	1	.....	.....	.....	1
Other Conditions .....	.....	.....	.....	.....	2	2
Backward in School .....	4	4	.....	.....	.....	8
Behaviour Problem .....	11	13	.....	.....	3	27
Sex Delinquency .....	.....	1	.....	.....	.....	1
Epilepsy .....	.....	1	.....	.....	.....	1
Psychosis .....	2	2	.....	.....	.....	4
Other Conditions .....	9	10	.....	.....	5	24
Totals .....	42	48	.....	.....	19	109

TABLE 4c  
CLASSIFICATION OF NEW CLINIC CASES—ADULT GROUP  
(OVER 19 YEARS 0 MONTHS)

Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
Examination Report .....	.....	.....	.....	.....	.....	.....
Mental Deficiency:						
General Retardation .....	.....	.....	.....	.....	4	4
Behaviour Problem .....	.....	.....	.....	.....	.....	.....
Sex Delinquency .....	.....	.....	.....	.....	1	1
Epilepsy .....	.....	.....	.....	.....	3	3
Physical Defects .....	1	2	.....	.....	.....	3
Psychosis .....	2	1	.....	.....	2	5
Sex Delinquency .....	.....	.....	.....	.....	.....	.....
Epilepsy .....	2	2	.....	.....	.....	4
Psychosis:						
Other than G.P.I. ....	12	5	.....	.....	1	18
Psychoneurosis .....	8	3	.....	.....	.....	11
Arteriosclerosis .....	1	.....	.....	.....	.....	1
Other Conditions .....	9	4	.....	.....	3	16
Totals .....	35	17	.....	.....	14	66
Table 4a .....	9	21	.....	.....	7	37
Table 4b .....	42	48	.....	.....	19	109
Grand Totals .....	86	86	.....	.....	40	212



TABLE 5  
AGENCIES REFERRING NEW CLINIC CASES, 1943

Agency	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
School Officials and Teachers .....	2	21	.....	.....	15	38
Doctors, Medical Health Officers and Clinics .....	32	25	.....	.....	10	67
Provincial Child Welfare, Children's Aid, Juvenile Court .....	7	12	.....	.....	.....	19
Police, Provincial Gaols, Courts .....	1	.....	.....	.....	.....	1
Homes (Mountview, Beulah, Kiwanis, Y.W.C.A., and Salvation Army) .....	1	5	.....	.....	.....	6
Parents, Relatives, Friends .....	20	14	.....	.....	3	37
Relief Department .....	.....	.....	.....	.....	.....	.....
Provincial Health Department other than Child Welfare and Relief .....	7	.....	.....	.....	.....	7
Full-time Health Units .....	.....	.....	.....	.....	12	12
Self .....	2	1	.....	.....	.....	3
Other Agencies, etc. ....	14	8	.....	.....	.....	22
Totals .....	86	86	.....	.....	40	212

TABLE 6  
MAJOR RECOMMENDATIONS MADE IN REGARD TO NEW CLINIC CASES, 1943

Major Recommendations	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Total
Admission to Provincial Mental Hospital or Provincial Mental Institute .....	12	6	.....	.....	3	21
Admission to Provincial Training School or other similar Institutions .....	16	14	.....	.....	4	34
Treatment by own Doctor or other Clinics .....	1	11	.....	.....	6	18
Treatment given, including direct treatment for Epilepsy .....	1	2	.....	.....	4	7
Continue Home, Institutional, or School life .....	2	12	.....	.....	6	20
Modified School Programme, Special Class, or Vocational Training .....	9	6	.....	.....	3	18
Change in Home Routine, Care, Discipline .....	5	4	.....	.....	3	12
More Social Contacts, wider interests, re-establishment of self-confidence .....	4	1	.....	.....	5	10
Return to Clinic, further examination .....	23	12	.....	.....	2	37
Placement under careful supervision .....	8	3	.....	.....	4	15
Other Recommendations .....	5	15	.....	.....	.....	20
Totals .....	86	86	.....	.....	40	212

TABLE 7  
SUMMARY OF WORK OF GUIDANCE CLINICS SINCE 1934

Year	No. of Clinics	New Cases	Follow-ups, Interviews	Total Case Load	Total New Cases, Since 1934
1934 .....	91	428	450	878	1770
1935 .....	90	363	432	795	2133
1936 .....	87	393	471	864	2526
1937 .....	99	416	513	929	2942
1938 .....	97	406	632	1038	3348
1939 .....	95	403	1275	1678	3751
1940 .....	94	356	1398	1754	4107
1941 .....	88	344	1315	1659	4451
1942 .....	70	310	1272	1582	4761
1943 .....	64	212	1013	1225	4973
Total New Cases from 1929 to 1934—1342.					



## Provincial Mental Hospital, Ponoka, Alberta

(R. R. MACLEAN, *Medical Superintendent.*)

### PATIENT POPULATION CHANGES

There were 1,503 patients—847 male, 656 female in residence January 1st, 1943. On December 31st, 1943 there were 1482 patients actually in residence — 829 male and 653 female, representing a reduction in the population during the year of twenty-one patients. During the year, transfers were made to the Provincial Mental Institute, Edmonton, of both male and female patients. There were minor transfers of females also to the Claresholm and Raymond Hospitals, but on occasions it was necessary to receive patients from all of the Provincial Mental Institutions into this Hospital, for various reasons.

The institution has remained seriously overcrowded on both male and female wards, despite some reduction in the patient population during recent years. The overcrowding is more serious on the female side, and has not as yet been relieved to any great extent by transfers to the Women's Ward at the Provincial Mental Institute, Edmonton.

The demand for the admission of Seniles and Mental Defectives has continued, and it has been necessary to keep up the campaign to induce relatives to find other accommodation for the aged, and to request all physicians and Magistrates that these cases not be sent to our Mental Hospitals. The reasons why elderly people should not be admitted to Mental Hospitals are numerous and obvious. There are many reasons also why Mental Defectives should not be sent to Mental Hospitals, and their admissions have been actively curtailed, as much as possible.

The acute shortage of Medical staff has continued, there being but three physicians on the staff, apart from the Medical Superintendent. Because of this shortage, the detailed keeping of Medical records has been quite impossible and Mental Hygiene and Guidance Clinics have been reduced to a minimum. Experience has shown that in the absence of these Clinics, many cases have to be admitted to the Mental Hospitals for investigation, which might have been disposed of in the Clinics, had they been held.

The need for Psychopathic Wards in key centres in the Province is still present, but war conditions would prevent anything being done in connection with their establishment at present.

### ADMISSION OF PATIENTS

The total number of admissions for the year was 481—254 males, 227 females. This would be eight less than the previous year. The number of First Admissions, Re-Admissions and Transfers appears in Table 1. Over 100 patients were again



admitted voluntarily, the balance being admitted by other methods.

During the year some sixty-one patients, suffering from Neurosyphilis were admitted for special treatment; most of these were admitted as voluntary patients in cooperation with the Department of Social Hygiene.

Less than twenty patients were admitted as a result of Alcoholism and Drug Addiction. The results in the treatment of Alcoholics have not been at all encouraging. Those addicted to the use of Opiates were not admitted because of failure of treatment of such cases in the past. A few patients were admitted with sufficiently high Bromide concentrations in the blood to be responsible for symptoms of Bromide intoxication. It would seem as if the Medical profession of the Province might have taken heed of the dangers of the prescribing of Bromide compounds in dosages likely to result in accumulation in the blood with consequent toxic symptoms. By far the greater number of patients admitted were Canadian born and American born.

The Nativities of the Patients appear in Table III, in detail.

#### SEPARATIONS OF PATIENTS

Separations for the year totalled 351 — 201 male and 150 female. These figures are exclusive of transfers, deaths and elopements. The discharge rate was therefore approximately 73% of the admission rate. There were 87 deaths during the year — 53 male and 34 female; the death rate based on the total number under treatment would be approximately 4%.

The commonest causes of death were those associated with Cardio-vascular disease and respiratory disease, including tuberculosis.

#### ACCIDENTS

There continued to be a considerable number of major and minor accidents. There were many fractures of the long bones in elderly cases, which were directly attributable to the crowded conditions on the Wards, and to the fact that elderly people cannot be adequately supervised when among so many uncertain cases of other types. The shortage of staff and overcrowding have created a situation which is expected at any time to result in serious accidents or tragedies.

#### ELOPEMENTS

There were eleven elopements — nine male and two female. With a few exceptions, all these patients were returned, none the worse for their experience. There were many successful attempts at elopement. The possibilities of elopements have increased, as a result of the shortage of experienced and trained members of the staff.

#### GENERAL HEALTH

The general health of the patients has been very good. Again there were no serious outbreaks of epidemics. In the absence of a sufficient number of Medical Officers, to detect illnesses in the patients, trained personnel have given valuable assistance, in that they are careful to report any suspected illness. Regular X-ray examinations, with a view to searching out the tuberculous



cases among the patients have been carried out. Infected cases have been placed in the Wards, set apart for such cases.

Efforts are made to get practically all of the patients outside on walking parties or on the verandahs or in the Airing Courts daily, weather permitting, to offset the overcrowding on the Wards and to improve the general standard of health.

The general health of the resident staff of the Hospital has been very satisfactory.

#### CLINICAL WORK

The Medical staff consisted of four physicians, including the Medical Superintendent. It was impossible during the year to obtain the services of Medical Students or recent Medical Graduates for even short periods of time, which rendered conditions even worse. It was necessary to continue to enlist the services of Graduate Nurses, Student Nurses and Social Workers, in the taking of histories and the making of progress notes. The assistance given by these persons was greatly appreciated.

#### TREATMENT OF PATIENTS

During the year, an Electro-Shock treatment machine was obtained and replaced Metrazol and Insulin treatments almost entirely. The results obtained from the treatment of patients by this method were very gratifying. Although the best results seemed to be obtained in patients suffering from mood disorders, good results were obtained as well from persons with other conditions, especially those displaying reactions which rendered them difficult of management. In this category, would be the destructive, excited and noisy, homicidal and suicidal, stuporose and the non-eating types.

The shortage of Medical Staff prevented the giving of the amount of intensive Psychotherapy which is considered necessary. The Hospital was fortunate, however, in having trained personnel—Nurses and Attendants who are able to give valuable assistance in this respect.

A large number of Neurosyphilitics and a few other types were treated by Fever Therapy, with good results. The practice of the using of Sedative Drugs as little as possible has continued.

Staff Conferences were held twice a week again, with greater regularity. At each Conference, some six to ten cases were reviewed, and recommendations recorded, as well as diagnoses made. All cases admitted or re-admitted, and most of those considered eligible for discharge or special treatment were considered at Conference. The holding of regular Conferences, despite the shortage of staff and the incompleteness of the records, has been found to greatly facilitate the handling of cases, both from the standpoint of treatment and disposition.

#### HYDROTHERAPY

This important branch of treatment was supervised by two appointees, one of whom supervised the work on the male side, the other on the female side. Treatments given were mostly in the form of prolonged baths, wet packs and tonic Hydrotherapy treatments, but the Hydrotherapists gave as well, Electric Cabin-



et treatments, and administered such treatments as hot compresses, hot baths, Sitz baths and others. The results of treatment in the Hydrotherapy Department have been satisfactory.

#### MENTAL HYGIENE AND GUIDANCE CLINICS

These Clinics were conducted regularly at Edmonton, Calgary and Red Deer, and a few Clinics were held at other points at irregular intervals. The shortage of Medical staff made it impossible to do more in this respect. The case load in such Clinics has been heavy, presaging what might be expected when conditions improve and regular Clinics at all points are re-instituted. The Medical Superintendent was assisted by members of the Medical staffs of the Oliver and Red Deer Hospitals, as well as this Hospital. Throughout the year there were two full-time Social Workers—one each at Edmonton and Calgary. A complete report of the Guidance Clinics is prepared separately, annually.

#### *Raymond and Claresholm Mental Hospitals.*

These institutions are under the supervision of the Medical Superintendent of this Hospital. They were visited during the year but visits had to be curtailed, due to the shortage of staff here and difficulty in travelling conditions. The Matrons of these Hospitals supervised the work most efficiently and faithfully, with the aid of an Honorary physician for each institution. These Honorary physicians have rendered valuable service and have administered satisfactorily to the needs of the patients and staff. Separate Annual Reports for these institutions are submitted herewith.

#### DENTAL DEPARTMENT

The work of this Department has been carried out most efficiently and quietly by the Dentist and his Nurse Assistant, who is also the X-ray Technician. All patients newly admitted to the Hospital are examined by the Dentist and have their needs attended to. All patients resident in the Hospital for any length of time have regular check-ups. The Dentist has been good enough to visit the Raymond, Claresholm and Oliver Hospitals, and the Tuberculosis Sanatorium periodically, to do such work in these institutions as was urgently required. These institutions have been without a regular Dental service for some time, due to war conditions.

The following is a summary of the work done in this Department:-

Ponoka:			
Examinations .....	2,701	X-Rays .....	54
Treatments .....	848	New Dentures .....	27
Examined but not treated .....	746	Remade Dentures .....	30
Extractions .....	885	Repaired Dentures .....	39
Amalgam fillings .....	407	Repaired Inlays .....	5
Kryptex fillings .....	100	New Bridge .....	1

The Dental Office supplied Dental Service to other Departmental Hospitals as follows:

Claresholm .....	3 days
Raymond .....	6 days
Oliver .....	10 days
Central Alberta Sanatorium .....	25 days
Total .....	44 days



## X-RAY DEPARTMENT

The work of the X-ray Department was done by a Nurse Technician, who assists the Dentist as well. The Technician has rendered valuable service. During the year the Technician attended a short course from which she received valuable training and experience.

The following is an account of examinations made:

Chests .....	591	Foot .....	7
Skull .....	51	Arm .....	14
Dorsal Spine .....	276	Elbow .....	8
Lumbar Spine .....	26	Wrist .....	12
Cervical Spine .....	3	Hand .....	9
Clavicle .....	15	Finger .....	7
Ribs .....	6	Barium Series .....	10
Abdomen .....	7	Barium Enema Series .....	2
Heart .....	28	Gall Bladder .....	12
Pelvis .....	21	Kidney and Bladder .....	20
Femur .....	6	Stomach .....	2
Leg .....	6	Dentals .....	54
Knee .....	18	Fluoroscope .....	18
Ankle .....	28	Basal Metabolism Test .....	37

## OCCUPATIONAL DEPARTMENT

Included in this Department are Occupational Therapy and Recreational Therapy. These Therapies are considered of paramount importance, and this Department has been developed to the greatest extent possible. The shortage of trained Nursing and Attendant Personnel has interfered to some extent with the regular work of this Department. The Studios, which are located in various parts of the Hospital, including the Reception Wards and the continued Treatment Wards, accommodate some fifteen to forty patients each, and have been kept operating as regularly as possible. The work done consists of woodwork, reed work, weaving, leather and metal work and other crafts. Weather permitting, many of the Classes are held in Garden Courts, designed attractively to add to the interests of the work.

Students and Post-Graduate Nurses attend the Occupational Classes for instruction. Occupational Internes have been coming annually from the University of Toronto for experience and instruction. The authorities of the latter University have expressed their gratitude to this Hospital for this service.

The annual Bazaar and Tea were held as usual, with outstanding success. The affair was very largely attended and those present expressed great admiration and interest in the work being done and exhibited.

During the year, many new books were added to the Patients' Library, which is supervised by the Occupational Department. The circulation of the books is quite gratifying. Donations of magazines were made regularly by the Kinsmen Club of the town of Ponoka. The efforts of this Club on behalf of the patients are appreciated.

The Canteen, at which smokes, candies and soft drinks are sold had a successful year; the profits were used to buy radios, library books, prizes for various competitions held for the patients who have rendered faithful service to the Hospital, and who have no money in their Comforts Accounts.

The Occupational Department organized Sports events, such as Badminton, Softball, Shuffle Board and other games. During the year also, several mixed Card Parties were held for the



patients. Prizes were obtained from the profits of the Canteen. Several picnics and teas were held for the patients also. All of these events were much enjoyed and greatly appreciated by the patients participating in them.

The Occupational Department continued to select the Talkies, which were shown during the cooler months fortnightly. The patients enjoyed the pictures and looked forward to them with great interest.

The Rink was well patronized during the winter months. Several skating parties were held, which were followed by coffee and eats.

This Department made most of the arrangements for the Staff Dances, the "At Home" and the Civil Service Card Party, which were held as in former years. These functions were well patronized and much enjoyed by all those in attendance.

Parcels of smokes, eats and other articles were sent as often as possible by this Department, to members of the staff in the Services. Letters and cards of acknowledgement were received and contained expressions of gratitude and appreciation from those in the Services.

#### RELIGIOUS SERVICES

Regular services of all major denominations were held throughout the entire year. The services are for the most part, well attended by patients whose conditions permit them to be present. Many pastoral visits to the patients were made by the Parish Priest and Clergymen during the year.

#### SOCIAL SERVICE DEPARTMENT

There were several changes in the personnel of this Department during the year, but the work was carried on efficiently by those who remained. Two Social Workers were attached to the staff and were located—one in Edmonton and Calgary each. Periodically, either one or the other Social Worker would visit the Hospital and remain for a week and assist with the taking of histories and in doing Psychometrics on the patients. The Social Workers also assisted in obtaining Field Reports when these were urgently required.

#### EUGENICS SERVICE

During the year, five meetings of the Eugenics Board were held. Some one hundred and twenty-six cases, sixty-three male and sixty-three female, were presented to the Board. The Chief Social Worker acted as Secretary to the Board and supervised the preparation of the cases, assisted by the Stenographer in the Mental Hygiene Division.

#### SURGICAL SERVICE

Dr. J. Ross Vant, Edmonton, and Dr. J. W. Richardson, Calgary, acted as Honorary Surgeons during the year and were assisted by Dr. J. M. Byers of this staff as Anaesthetist and Dr. G. W. Murray of this staff as Assistant Surgeon. The work done by this group was most valuable to the institution, and highly skilful and successful.



The following is a summary of the operations performed by the Surgeons:

Operations	Male	Female	Total
Salpingectomy .....		26	26
Vasectomy .....	18		18
Orchidectomy .....	11		11
Oophorectomy .....		4	4
Hysterectomy .....		4	4
Herniotomy .....	5		5
Appendectomy .....		1	1
Hemorrhoidectomy .....	1		1
Cystoscopy .....	1		1
Tonsillectomy .....	1	2	3
Other Operations .....	6	7	13
	43	44	87

#### NURSES TRAINING SCHOOL

The eleventh Annual Graduation Exercises were held June 2nd, 1943, when the eighth Class of General and Psychiatric Nurses—six in number, received their Diplomas. In addition there were three Graduate Nurses received Certificates in Psychiatric Nursing. The Male Attendants graduating were three in number, having completed the three years' course.

The Hospital was honoured in having Dr. W. H. Hill, Medical Health Officer of the City of Calgary, deliver the address to the Graduating Class.

The following is the distribution of Nurses and Attendants in training and graduating:

Number of Graduating Nurses .....	7
Number of Affiliating Students .....	16
Number of First Year Students .....	10
Number of Second Year Students .....	11
Number of Post-Graduate Students .....	5
Number of Male Attendants Graduating .....	7

Many changes have taken place in our Training School staff. Mrs. E. Miles, R.N., Instructor, resigned and was replaced by Miss Mildred Nelson, R.N., Graduate of this School and Post-Graduate in Teaching and Supervision from the School for Graduate Nurses, University of British Columbia. Miss Dorothy Bjarnason, R.N., Assistant Superintendent of Nurses, resigned to be married. We were fortunate in securing Miss Elizabeth Robertson, R.N., Graduate of this School, and who has had valuable teaching experience. Both Miss Nelson and Miss Robertson have shown the value of the combined course in Nursing, and their valuable assistance in planning and directing the teaching programme is much appreciated.

Due to the increase in Students, we were recommended for an additional instructor, paid by the Federal Grant. Miss Kathleen Methel, R.N., Graduate of the Calgary General Hospital, and a member of the staff of the Royal Alexandra Hospital, for several years, came to assist in teaching. Miss Methel has shown keen interest in Student education and is a valuable teacher in General Nursing Arts. Having an additional Instructor, we have been able to carry out a more elaborate Ward teaching programme.

During the winter term, Miss B. A. Beattie, Superintendent of Nurses assisted with a course in Hospital Administration for Matrons of Small Hospitals, arranged by the University of Alberta, in conjunction with the Association of Registered Nurses for Alberta. At the conclusion of the course, the Class of



twelve Matrons spent a day at the Hospital, visiting the Wards and observing all treatments and activities of the day. Dr. MacLean addressed the group on "Care of the Mental Patient before Admission to a Mental Hospital". All expressed much interest and enjoyment of the day.

During the Spring term, fifteen B.Sc. Nursing Students of the University of Alberta had two weeks of observation on the wards, as part of their term field work.

We have been given a further Library Grant of fifty dollars, from the C.N.A. Federal Grant. These yearly gifts have been of great benefit to our School Library and have added many valuable reference books.

Once again, this School of Nursing has received recognition in the award of Bursaries to two former Graduates. Miss Helen McCauley is taking Hospital Administration at the School of Nursing, McGill University and Miss Margaret Carswell is taking Public Health at the University of Toronto.

We were honoured during the Winter term by a visit from Mrs. E. Fitzsimmons, R.N., representative of the American Psychiatric Association, who was making a survey of Training Schools in Mental Hospitals, in the United States and Canada. Mrs. Fitzsimmons spoke to the Nursing staff during the visit and was most interesting and informative in all matters pertaining to Psychiatric Nursing.

Despite the rapid turnover of subsidiary staff, we have endeavored to carry out a teaching programme to all members. This has, we believe, resulted in increased interest and more consideration of the patient and better general care. There is still an acute shortage of Graduate staff, which throws a heavy responsibility on the Student body. It is difficult to foresee any improvement in this respect in the near future.

#### TEACHING OF MEDICAL STUDENTS

Lectures and Clinics in Psychiatry were given to the Medical Students by the Medical Superintendent, throughout most of the year, in view of the fact that the Medical Course in recent years has been on the "Accelerated Plan."

#### MEDICAL LIBRARY

Subscriptions to Medical Journals were renewed and a number of new volumes of recent publications were added during the year.

#### VISITORS TO THE HOSPITAL

Dr. W. W. Cross, the Minister of Health visited the Hospital on several occasions during the year, and was present at our Graduation Exercises. Dr. Cross continues to be particularly interested in this branch of the Public Health Service and has been most sympathetic towards the requests made by the Administrators for changes for the betterment of the patients, the staff, and the institution as a whole.

Dr. Bow, the Deputy Minister of Health visited the Hospital on many occasions, including the occasion of the Nurses' Graduation Exercises. During his visits he made rounds and



continued to assist the Hospital in its difficulties and to offer helpful suggestions in its administration.

From time to time, representatives from other Departments of the Government visited the institution. These visits are very welcome and more frequent and lengthy visits by members of the Department of Public Works particularly, would be very helpful in effecting the necessary structural changes and repairs which should be made in the institution.

Countless numbers of relatives and friends of the patients and members of the staff visited the institution throughout the year. Many of those who visited were escorted to various Departments of the Hospital and the Wards, and expressed appreciation of the courtesy extended to them, and admiration for the manner in which the patients were treated. Generally speaking, the public's attitude towards the institution and its problems in the present crisis has been most sympathetic.

The Eugenics Board acted as a Visiting Committee as in recent years, and made rounds in the Hospital and observed the work being done. The report of this Committee was submitted to the Department of Health, with recommendations and suggestions for the betterment of the institution as a whole.

#### ACCOMODATION AND ALTERATIONS

No new accommodation was provided during the year in this institution. Notwithstanding this, 43 male patients were transferred to the Provincial Mental Institute at Oliver and 51 female patients were transferred to Oliver, Raymond and Clarseholm, most of whom went to Oliver.

A great deal of repair work was done to the buildings of the institution in the nature of redecoration and structural repairs and alterations. Notwithstanding this, the major problem at the moment is that in connection with leaky roofs. Practically all of the roofs of the institution have developed leaks, some of which are quite serious in their extent. This being the case, it is a matter of urgent recommendation that a considerable amount be appropriated to take care of this situation, which will imply the use of much material and labour.

#### STAFF CHANGES

There were no additions to the Medical Staff during the year and very little Medical assistance was obtainable, in view of the fact that Medical Students have a very short vacation in their present course, recent Medical Graduates are immediately taken into the Services or otherwise absorbed immediately, and no trained and experienced Medical Officers appear to be available. The situation in connection with the shortage of Medical personnel must be regarded as very far from satisfactory, if not very alarming, considering the continued high admission rate, and the consequent need for much work in connection with the admission, investigation, treatment and disposal of the cases.

The Medical Superintendent of this Hospital, in his capacity of General Medical Superintendent of the various Provincial Mental Institutions and Training School, has additional responsi-



bilities, in connection with the coordination of the work of the various Hospitals involved.

Certain changes took place in the staff of the Training School Office, which are noted in the report of that Office and the Training School.

#### BUSINESS OFFICE

This office under the direction of the Business Superintendent, Mr. J. D. J. McDonald, operated and directed all the various matters and activities in connection with the operation of this Hospital, and the Auxiliary Hospitals of Raymond and Claresholm. The collection of maintenance of patients at the Mental Institute, Oliver, was also handled. The numerous matters and activities were dealt with as they arose, and these and the regular routine work were carried on in a satisfactory way, with the fullest cooperation between this office and that of the Medical Superintendent. Some changes occurred in the Junior staff—however, satisfactory replacements were secured. Considerable additional work was caused by various War-Time regulations, especially the rationing of food stuffs.

#### PRINT SHOP

This Department is in charge of a competent Printer, assisted by a number of responsible patients. All the usual printing requirements of the various Hospitals were filled satisfactorily, and such work was also done for other branches of the Department of Public Health. This is a great convenience, and a considerable saving is made in printing costs.

#### CANNERY

This Unit of the Hospital activities, operated under the personal supervision of the Business Superintendent, had a most successful year. A total of 15,425 Large No. 10 Cans were processed and stored.

With the continuance of War-Time restrictions, shortages, and the total absence of certain canned foods and evaporated fruits on the market, the products of this Cannery has filled a most vital need and has been a solution in helping maintain a satisfactory diet for patients and resident staff.

The operation of this Cannery not only fills a real need but naturally results in a very large saving in food costs.

#### CARPENTER SHOP

This Department, while operating under the Business Office, is also part of the Occupational Therapy work of the Hospital. Under the supervision of a competent Carpenter and Cabinet Maker, many male patients were occupied in making or repairing small articles of furniture, principally for wards of the Hospital. Due to the prevailing needs and circumstances, work of a more handicraft nature had to be reduced to a minimum. During the year, this Unit erected and completed a two-storey Poultry House at the Poultry Farm, which was absolutely necessary and could not be otherwise made available at the present time, due to labour shortages and other difficulties.



### TAILOR SHOP

This branch operated in the usual satisfactory manner; manufacturing all uniforms, patients' clothing, bedding, towels, mattresses and many other items. A certain amount of furniture upholstering repairs were also handled by this Department. The entire work was done by one qualified capable tailor, assisted by patient labour.

### SHOEMAKER'S DEPARTMENT

The new Shop and increased facilities have proven to be very satisfactory. The working conditions are much more pleasant and the work is carried on more efficiently. All shoe repairs were kept up, and a quantity of shoes suitable for ward purposes were manufactured. The continual repairing and rebuilding of patients' shoes is reflected in the increasingly low average cost of the patients' footwear, and in times as the present, with prevailing shortages of shoes, this branch more than ever proves its worth.

### LAUNDRY DEPARTMENT

This Department continued to be taxed to capacity; however the work was turned out satisfactorily and with little or no delay. A real need is felt for new items of equipment to replace poor-order or out-moded machines. It has been increasingly difficult to secure and retain the necessary supervisory staff, and at times there existed a shortage of suitable patients capable of doing this work. A tremendous volume of work was handled daily.

### STORES DEPARTMENT

This Department operated very satisfactorily and all records and stocks were kept in a meticulous manner. A need is still evident for more refrigeration facilities.

### FARM

The Season of 1943 was fairly satisfactory, in spite of the cold, backward spring. The grain crops were generally good, with the exception of Section 15, which was damaged with hail and frost, reducing grain yield approximately 4000 bushels. The potato crop was a little below average. However, all forage crops were good. The harvesting season was favourable, and all crops were harvested in good time.

Due to the reduced field and loss through hail and frost, it was necessary to purchase considerable grain for feed purposes in order to maintain the volume of production in milk, eggs, pork and poultry.

Milk production for the first time passed the million pound mark. Detailed production and profits accounting for the year are shown in the Annual Farm Report.

### GARDEN DEPARTMENT

The year was fairly successful. In the vegetable garden the early sowing suffered from cold weather, onions especially being cut down. A good supply of all other vegetables maintained both the Kitchen and Cannery, except for corn, beans and tender stuff which were frozen. The fruit Garden was increased to



twice the size of last year, and the crop picked during the year was about double. Small fruit bushes, such as black currants and red currants were planted, and should be producing in two years. One and one half acres of raspberries were planted — also one and a quarter acres of strawberries.

On the grounds, very little improvement was made, but the grounds were kept in fair shape, until shortage of help resulted in work being practically stopped. There was a fair showing of flowers in beds around the grounds.

The Greenhouse grew a good supply of potted plants and cut flowers. The tomato and cucumber crops were as large as usual. Sufficient bedding plants for the grounds, and vegetable plants for the gardens were also raised.

Despite the weather condition which reduced the crop of certain vegetables, the total production was considerably in excess of the previous year—1942.

The institution suffered a serious loss in the death of its Gardner, in the fall, who had been in the employ of the institution for many years, and whose services at all times were outstandingly satisfactory.

#### DEPARTMENT OF HOUSEKEEPER

The work of this Department is very gratifying. By virtue of the establishment of it, it is now possible to keep inventories of the Hospital supplies which have appeared to have resulted in a considerable saving in the cost of the supplies. With the aid of this Department, it is possible to distribute the furnishings more equably, and much better use is made of equipment and many supplies which were formerly unsuitably distributed.

#### LINEN ROOM

The Linen Room, which serves as a sorting and distributing centre for bed linen, patients' dresses, under-clothing, blankets and many other items of ward equipment continues to operate most satisfactorily. This Department, like that of the Department of the Housekeeper, has been instrumental in effecting a considerable saving in connection with Hospital supplies and Ward equipment.

#### SEWING ROOM

This Department, which is responsible for the manufacture of female staff uniforms, dresses for patients and repairs to these items, continues to function very efficiently. A number of female patients assist in the work of this Department.

#### KITCHEN AND DIETARY DEPARTMENT

The year 1943 was a difficult one from the standpoint of the Dietary Department. It was not only difficult to obtain food of the proper quality and in sufficient quantities for good nutrition, but difficult to employ sufficient staff to prepare and serve it. Many items of food formerly obtainable, such as dried fruit could not be procured. To offset this situation, much garden stuff and fruit was canned in the Cannery. During the fruit season, a large number of gallon containers were filled with fruit juices, for the diets during the winter season. A considerable quantity



of jelly was made from these fruit juices. Large groups of female patients were organized to assist in the work of the Cannery and the Kitchen during the busy Seasons. Among other things, these patients assisted in preparing peas, beans and other items, for canning.

The problem of arriving at a suitable formula for the use of "Canada Approved Flour" was solved during the year, with the result that the bread made was of a very high standard.

Some improvement was made in the formula for tube feeds for the patients.

The work of the Diet Kitchen, in connection with special diets and nourishments was increased, thereby reducing the necessity for preparation of these diets on the Wards, where facilities are so limited.

#### DEPARTMENT OF CHIEF ENGINEER

During the peak of the heating season, the coal supply was not maintained steadily by the mines, with consequent inconvenience in some sections of the Hospital, due to an inadequate supply of heat. It would appear that the revamped heating system with its better results limited greatly the inconvenience mentioned. The chief Engineer reports that the work of his Department has been chiefly routine. Some major repairs were made to the Boiler Room and additions and changes were made in connection with heating facilities. The Engineer reports that the general condition of the Power Plant and machinery is good, and there is plenty of capacity with the exception of the domestic hot-water heating and storage capacity and the AC electrical production equipment. It is reported that the electrical production system, within the buildings, is generally loaded to capacity if not overloaded. The water piping condition within the buildings is apparently loaded to capacity as well. It is reported also that the Sewage System within the buildings and beyond them, and the storm water drainage system, are likewise overloaded. It is implied that the Sewage System is inadequate and does not conform to accepted regulations. The co-operation between the Engineering Department and the Department of Health has been very satisfactory, and each Department has worked with the other during difficult periods.

#### DEPARTMENT OF BUILDING MAINTENANCE

This Department continued to co-operate thoroughly throughout the year, in the maintaining of repairs to the buildings and equipment. Much re-decoration of the institution was carried out, and some repairs were made on staff dwellings on the Hospital grounds. During the year, a considerable amount of furniture and furnishings was obtained and added, improving the general appearance of the Hospital as a whole.

Regular fire inspections were made by this Department. The fire fighting equipment was checked and kept in working order and fire drill was practised at regular intervals.



## CONCLUSION

Once again, in conclusion, the overcrowding on the male and female wards must be given special attention and mention, as the most difficult problem and situation in the institution. The overcrowding on the female wards is more serious as a result of long years of accumulation of refractory patients.

There were very few major staff changes during the year, but the shortage of trained Nurses and Attendants of all descriptions has been most alarming. There would appear to be no immediate solution to the problem of shortage of Medical and Nursing staffs.

The co-operation received from the heads of all Departments and their employees has been most heartening and gratifying, especially during this critical period of the institution's existence.

The Medical Superintendent on his own behalf, and that of his staff, wishes to take advantage of this opportunity to thank the Minister of Public Health, the Deputy Minister of Health, the Department of Public Works, the Attorney General's Department, and all others who have assisted in the administration of the Hospital affairs during the year just noted.

Attached hereto are the Annual Reports of the Auxiliary Hospitals at Claresholm and Raymond.

## DIAGNOSIS OF PATIENT POPULATION, DECEMBER 31st, 1943

	Psychoses		Male	Female	Total
01 Psychoses with syphilitic meningoencephalitis (general paresis)....	53	11	64		
02 Psychoses with other forms of syphilis of the central nervous system .....	8	1	9		
03 Psychoses with epidemic encephalitis .....	1	3	4		
04 Psychoses with other infectious diseases .....	3	...	3		
05 Alcoholic psychoses .....	9	2	11		
06 Psychoses due to drugs or other exogenous poisons .....	1	...	1		
07 Traumatic psychoses .....	6	1	7		
08 Psychoses with cerebral arteriosclerosis .....	32	12	44		
09 Psychoses with other disturbances of circulation .....	1	...	1		
10 Psychoses with convulsive disorders .....	13	35	49		
11 Senile psychoses .....	39	25	64		
12 Involutional melancholia .....	11	12	23		
13 Psychoses due to other metabolic, etc., diseases .....	2	1	3		
14 Psychoses due to new growth .....	2	...	2		
15 Psychoses associated with organic changes of nervous system.....	5	5	10		
16 Psychoneuroses .....	1	4	5		
17 Manic-depressive psychoses .....	36	69	105		
18 Dementia Praecox (Schizophrenia) .....	446	346	792		
19 Paranoia and paranoid conditions .....	52	38	90		
20 Psychoses with psychopathic personality .....	2	14	16		
21 Psychoses with mental deficiency .....	45	50	95		
22 Undiagnosed psychoses .....	...	9	9		
23 Without psychoses .....	58	17	75		
24 Primary behaviour disorders .....	...	...	...		
Totals.....	827	655	1482		



TABLE No. 1  
MOVEMENT OF PATIENT POPULATION DURING 1943

	Male	Female	Total	Male	Female	Total
In residence Dec. 31, 1942 .....				847	656	1503
On leave or otherwise absent .....				40	5	45
				<u>887</u>	<u>661</u>	<u>1548</u>
Admissions:						
First Admissions:						
(a) Voluntary .....	46	35	81			
(b) Certificates .....	50	37	87			
(c) Warrant .....	109	87	196			
(d) M.D. Act .....	1	.....	1			
Re-Admissions:						
(a) Voluntary .....	9	16	25			
(b) Certificates .....	6	16	22			
(c) Warrant .....	33	36	69			
(d) M.D. Act .....	.....	.....	.....			
Transfers .....	15	9	24			
				<u>269</u>	<u>236</u>	<u>505</u>
				<u>1156</u>	<u>897</u>	<u>2053</u>
Separations:						
Discharges:						
(a) As recovered .....	45	38	83			
(b) As improved .....	78	61	139			
(c) As unimproved .....	38	28	66			
(d) As without psychosis .....	40	23	63			
Transfers .....	43	51	94			
Deaths .....	53	34	87			
				<u>297</u>	<u>235</u>	<u>532</u>
				<u>859</u>	<u>662</u>	<u>1521</u>
On leave or otherwise absent .....				30	9	39
In residence Dec. 31st, 1943 .....				<u>829</u>	<u>653</u>	<u>1482</u>

TABLE No. 2  
SHOWING THE PSYCHOSES IN THOSE ADMITTED, 1943

Psychoses	Male	Female	Total
01 Psychoses with syphilitic meningoencephalitis (general paresis)	16	1	17
02 Psychoses with other forms of syphilis of the central nervous system:			
023 Tabo-paresis .....	7	.....	7
03 Psychoses with epidemic encephalitis .....	.....	.....	.....
04 Psychoses with other infectious diseases .....	.....	.....	.....
05 Alcoholic psychoses:			
052 Delirium tremens .....	2	1	3
054 Acute hallucinosis .....	1	1	2
055 With excitement .....	1	1	2
06 Psychoses due to drugs or other exogenous poisons .....	2	.....	2
07 Traumatic psychoses:			
075 Traumatic delirium .....	2	.....	2
08 Psychoses with cerebral arteriosclerosis .....	17	8	25
09 Psychoses with other disturbances of circulation .....	.....	1	1
10 Psychoses with convulsive disorders:			
101 Epileptic deterioration .....	.....	2	2
102 Epileptic clouded states .....	4	.....	4
103 Idiopathic Epilepsy .....	1	3	4
11 Senile psychoses:			
111 Simple deterioration .....	16	14	30
114 Depressed and agitated .....	2	1	3
115 Paranoid types .....	3	.....	3
12 Involutional melancholia:			
121 Melancholia .....	3	4	7
13 Psychoses due to other metabolic, etc., diseases .....	.....	.....	.....
14 Psychoses due to new growth .....	.....	.....	.....
15 Psychoses associated with organic changes of the nervous system .....	.....	.....	.....
16 Psychoneuroses:			
161 Hysteria .....	.....	1	1
162 Psychasthenia .....	.....	2	2
163 Neurasthenia .....	.....	5	5
165 Reactive depression .....	.....	6	6
166 Anxiety state .....	.....	2	2
17 Manic-depressive psychoses:			
171 Manic type .....	12	22	34
172 Depressive type .....	10	12	22
173 Mixed types .....	1	.....	1
174 Hypomanic .....	4	5	9
18 Dementia Praecox (Schizophrenia):			
182 Hebephrenic type .....	.....	2	2
183 Catatonic type .....	55	59	114
184 Paranoid type .....	29	25	54
185 Ungrouped .....	1	1	2
19 Paranoia and paranoid conditions:			
191 Paranoia .....	1	.....	1
20 Psychoses with psychopathic personality .....	2	1	3



TABLE No. 2—Continued  
SHOWING THE PSYCHOSES IN THOSE ADMITTED, 1943

	Males	Females	Total
21 Psychoses with mental deficiency .....	4	8	12
22 Undiagnosed psychoses .....	2	5	7
23 Without psychoses .....	9	6	15
231 Epilepsy .....	3	2	5
232 Alcoholism .....	5	.....	5
233 Drug addiction .....	1	.....	1
234 Mental deficiency .....	21	24	45
235 Disorder of personality .....	1	.....	1
236 Psychopathic personality .....	.....	2	2
237 Senility .....	1	.....	1
238 Disseminated sclerosis .....	1	.....	1
239 Neurosyphilis .....	19	7	26
240 Tabes dorsalis .....	8	1	9
241 Tabo-paresis .....	2	.....	2
243 Chronic encephalitis .....	.....	1	1
24 Primary behaviour disorders:			
241 Simple maladjustment .....	.....	1	1
Totals .....	269	236	505

TABLE No. 3  
NATIVITIES OF PATIENTS ADMITTED, 1943

Nativities	Male	Female	Total	Nativities	Male	Female	Total
Canada .....	133	138	271	Ukrainia .....	7	1	8
England .....	16	20	36	France .....	.....	.....	.....
Scotland .....	11	4	15	Germany .....	11	3	14
Ireland .....	9	6	15	Hungary .....	4	3	7
Wales .....	2	1	3	Norway .....	2	1	3
New Zealand .....	1	.....	1	Sweden .....	2	.....	2
South Africa .....	.....	1	1	Italy .....	2	4	6
U.S.A. ....	28	20	48	China .....	11	.....	11
Switzerland .....	2	.....	2	Serbia .....	1	.....	1
Austria .....	5	6	11	Denmark .....	1	2	3
Russia .....	7	9	16	Holland .....	.....	1	1
South America .....	1	.....	1	Bohemia .....	1	.....	1
Poland .....	6	8	14	Latvia .....	.....	1	1
Czecho-Slovakia .....	2	4	6				
Finland .....	3	2	5	Totals .....	269	236	505
Rumania .....	1	1	2				

TABLE No. 4  
AGES OF PATIENTS ADMITTED DURING 1943

Ages	First Admissions			Re-admissions			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 15 years .....	2	3	5	.....	.....	.....	2	3	5
15 to 19 years .....	18	18	36	2	2	4	20	20	40
20 to 24 years .....	21	21	42	4	8	12	25	29	54
25 to 29 years .....	20	18	38	3	7	10	23	25	48
30 to 34 years .....	19	22	41	4	10	14	23	32	55
35 to 40 years .....	26	16	42	7	11	18	33	27	60
40 to 44 years .....	23	15	38	6	11	17	29	26	55
45 to 49 years .....	17	14	31	6	2	8	23	16	39
50 to 54 years .....	14	6	20	3	5	8	17	11	28
55 to 59 years .....	16	8	23	7	7	14	23	15	38
60 to 64 years .....	8	8	16	4	6	10	12	14	26
65 to 69 years .....	14	7	21	2	2	4	16	9	25
70 and over .....	20	9	29	3	.....	3	23	9	32
Total .....	218	165	383	51	71	122	269	236	505



DISCHARGES, CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSES AND CONDITION ON DISCHARGE  
FOR THE YEAR 1943

	Recovered			Improved			Unimproved			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Psychoses												
01. Psychoses with syphilitic meningo- encephalitis (general paresis).....												
02. Psychoses with other forms of syphilis of the central nervous system.....												
03. Psychoses with epidemic encephalitis.....												
04. Psychoses with other infectious diseases.....												
05. Alcoholic psychoses.....												
052 Delirium tremens.....	1		1									
053 Korea-kow's psychosis.....	2		2									
055 With excitement.....	1		1									
06. Psychoses due to drugs or other exo- genous poisons.....	2		2									
07. Traumatic psychoses.....												
08. Psychoses with cerebral arteriosclerosis.....	3	1	4		2	2		1	1	3	4	7
09. Psychoses with other disturbances of circulation.....												
10. Psychoses with convulsive disorders.....	1		1									
101 Epileptic deterioration.....	2		2									
102 Epileptic clouded states.....												
103.....												
11. Senile psychoses.....												
111 Simple deterioration.....												
114 Depressed and agitated.....												
115 Paranoid types.....												
12. Involutional melancholia.....												
121 Melancholia.....												
13. Psychoses due to other metabolic, etc., diseases.....												
14. Psychoses due to new growth.....												
15. Psychoses associated with organic changes of the nervous system.....												
16. Psychoneuroses.....												
162 Psychasthenia.....												
163 Neurasthenia.....												
165 Reactive depression.....	1		1									
166 Anxiety state.....												
17. Manic-depressive psychoses.....												
171 Manic type.....	9	8	17	7	1	8	1	2	3	17	11	28
172 Depressive type.....	8	7	15	5	4	9	4	4	4	13	15	28
173 Mixed types.....	1	1	2	1	1	2	1	1	2	2	2	4
174 Hypomanic.....	2	1	3	1	1	2	1	1	2	4	2	6



18. Dementia Praecox (Schizophrenia) .....	16	15	31	27	19	1	10	7	17	53	41	1	94
182 Hebephrenic type .....	2	2	2	13	7	46	7	2	9	22	9	41	31
183 Catatonic type .....				1	3	20	1	1	1	1	4	4	5
184 Paranoid type .....				1	1	1	1	1	1	2	2	2	2
185 Ungrouped .....				4	3	7	2		2	6	3	3	9
19. Paranoia and paranoid conditions .....													
192 Paranoid conditions .....													
20. Psychoses with psychopathic personality .....													
21. Psychoses with mental deficiency .....	2	1	3	1	2	3	2	1	3	5	4	4	9
22. Undiagnosed psychoses .....		1	1	1	1	1	8	1	9	12	8	1	20
23. Without psychoses .....		3	3	4	4	8	3	1	1	4	1	1	1
231 Epilepsy .....				1		1	3		3	4			4
232 Alcoholism .....				1		1			1	1			1
233 Drug addiction .....				1		1			1	1			1
234 Mental deficiency .....	1		1		3	3	5	12	17	6	15	21	21
237 Tabes dorsalis .....							8		8	8			8
239 Neurosyphilis .....		1	1	3	3	6	11	2	13	14	6	6	20
24. Chronic encephalitis .....							3	1	4	3	1	1	4
241 Primary behaviour disorders .....		1	1										
241 Simple maladjustment .....													1
Totals .....	53	40	93	81	67	148	70	41	111	204	148	1	352



TABLE No. 6  
DISCHARGES DURING 1943—SHOWING DURATION OF RESIDENCE

	Under 3 months		Under 6 months		Under 9 months		Under 12 months		Under 18 months		Under 2 years		Over 2 years		Total		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
01. Psychoses	3	3	4	1	5										7	1	8
02. With syphilitic meningo-encephalitis	1														1		1
03. With other forms of syphilis of the central nervous system																	
04. With epidemic encephalitis	3	3							1						5		5
05. With other infectious diseases	2	2													2	2	4
06. Due to drugs or other exogenous toxins	2	2													1	1	2
07. Traumatic psychoses	2	2	1	2	3										4	3	7
08. With cerebral arteriosclerosis	3	2	1	1	2				1	1					6	4	10
09. With other disturbances of circulation	2	2													3	1	4
10. With convulsive disorders	1	1	1												2		2
11. Senile psychoses																	
12. Involutional psychoses	1	1	1												3	1	4
13. Psychoses due to other metabolic, etc., diseases															2	3	5
14. Psychoses due to new growth																	
15. Associated with organic changes of the nervous system																	
16. Psychoneuroses	9	9	2	2													
17. Manic-depressive psychoses	11	11	2	9	11												
18. Schizophrenia	20	24	16	16	32				3	4	7				33	30	63
19. Paranoia and paranoid conditions	1	1	1	1	1				5	4	9				76	55	131
20. With psychopathic personality									1						8	3	11
21. With mental deficiency	2	3	2	1	3										5	4	9
22. Undiagnosed psychoses	2	2															
23. Without psychoses	40	23	3	1	3				2	2	4				47	32	79
24. Primary Behaviour Disorders			1	1											1	1	2
Total	90	81	30	35	65	10	11	21	11	11	22	5	3	8	200	151	351



## RECORD OF DEATHS DURING 1943

Register No.	Sex.	Age.	Time in Hospital.			Cause of Death.
			Years.	Months.	Days.	
8838	F	44	5	2	14	Exhaustion from schizophrenia, catatonic type.
656	F	67	28	2	11	Chronic nephritis, schizophrenia, catatonic type.
11047	M	78	1	....	29	Chronic Myocarditis, second stage, prostatectomy, senile psychosis.
11522	F	67	....	....	10	Exhaustion, pulmonary tuberculosis.
9881	F	68	2	11	26	Bronchoneurosis. Fracture, left thigh.
11495	M	62	....	1	23	General paresis of the insane.
9184	F	70	4	7	21	Generalized Arteriosclerosis.
6140	M	80	10	3	28	Cerebral thrombosis.
11521	M	68	....	1	....	Mesenteric thrombosis with gangrene and perforation of caecum.
11481	F	59	....	2	15	Chronic myocarditis.
8407	M	75	5	11	6	Deterioration and generalized arteriosclerosis.
11533	M	78	....	....	21	Myocarditis.
11150	M	86	....	11	18	Generalized arteriosclerosis.
5004	M	57	12	4	29	Coronary occlusion.
10538	M	56	2	3	13	Broncho-pneumonia.
11130	M	85	1	....	21	Myocarditis.
11589	M	54	....	5	5	Broncho-pneumonia.
11177	M	72	....	11	27	Generalized arteriosclerosis.
11602	M	56	....	....	5	Generalized arteriosclerosis.
11303	M	83	....	7	26	Generalized arteriosclerosis.
11302	M	43	....	8	11	Therapeutic malaria.
9750	M	52	4	1	....	General paresis of the insane.
11582	F	58	....	....	22	Broncho-pneumonia.
10456	M	84	2	3	14	Generalized arteriosclerosis, chronic myocarditis.
11590	M	65	....	....	20	Chronic myocarditis.
11608	F	65	....	....	6	Epilepsy, exhaustion.
10952	M	56	6	6	4	Gastric hemorrhage.
9466	M	67	4	3	6	Myocarditis. Therapeutic malaria.
11630	M	64	....	....	3	Chronic myocarditis.
10946	M	69	1	5	9	Chronic myocarditis.
11503	F	84	....	3	13	Broncho-pneumonia.
4777	F	76	13	1	25	Cerebral thrombosis, chronic generalized arteriosclerosis.
6285	F	56	9	7	8	Myocarditis.
8675	F	56	5	9	....	Tabo-paresis.
11656	M	64	....	....	15	Cerebral hemorrhage. Tabo-dorsalis.
11674	F	28	....	....	9	Exhaustion as a result of schizophrenic excitement.
879	F	51	26	3	....	Broncho-pneumonia.
9894	M	50	3	8	11	Lung abscess.
10981	M	62	1	6	24	Chronic myocarditis, generalized arteriosclerosis.
11199	M	80	1	1	12	Broncho-pneumonia, generalized arteriosclerosis.
5330	M	33	11	2	7	Accidental suffocation.
11611	F	25	....	1	28	Drowned self in Battle River (suicide).
4771	F	74	13	3	1	Pulmonary tuberculosis.
11689	F	57	....	....	14	Broncho-pneumonia.
8689	F	24	5	9	11	Broncho-pneumonia.
11703	M	51	....	....	10	Exhaustion due to general paresis of the insane.
4749	M	80	23	7	2	Carcinoma of sigmoid colon.
11098	F	55	1	4	11	Cerebral thrombosis.
5169	F	51	11	9	17	Bilateral pulmonary tuberculosis.
10010	M	54	3	6	6	Cerebral thrombosis.
11685	M	47	....	1	1	Broncho-pneumonia.
11698	M	78	....	1	23	Broncho-pneumonia.
11296	M	67	1	....	24	Broncho-pneumonia.
10228	F	76	3	3	1	Intestinal obstruction.
4061	M	45	14	2	11	Hemorrhage from gastric ulcer.
9218	M	76	4	1	4	Myocarditis, generalized arteriosclerosis.
10337	F	78	3	1	10	Chronic myocarditis.
10834	M	66	2	1	10	Generalized arteriosclerosis.
4035	M	48	5	7	....	Arteriosclerosis of coronary artery.
11613	M	85	....	5	17	Myocarditis.
4599	M	56	14	....	7	Chronic myocarditis.
10805	M	85	2	....	27	Myocarditis with myocardial degeneration.
11824	F	63	....	....	12	Chronic myocarditis.
11820	F	58	....	2	28	Suicide by drinking creolin.
11511	F	80	....	9	1	Senility, senile psychosis.
475	F	75	29	10	6	Generalized arteriosclerosis.
9670	F	80	4	5	7	Bronchial pneumonia.
4789	F	51	13	7	3	Chronic myocarditis, chronic nephritis.
11666	F	82	....	5	10	Senile psychosis.
9312	M	39	4	5	22	Psychosis with convulsive disorder, epilepsy.
11478	F	60	....	11	17	Pyonephrosis.
11452	F	69	....	11	28	Broncho-pneumonia. Senile psychosis.
11505	M	85	....	10	2	Generalized arteriosclerosis.
11758	F	66	....	3	15	Chronic myocarditis, senile psychosis.
11839	M	82	....	1	15	Generalized arteriosclerosis.
11868	M	65	....	1	2	Myocarditis, therapeutic malaria.
10571	M	76	4	1	6	Femoral phlebitis.



## RECORD OF DEATHS DURING 1945—Continued

Register No.	Sex.	Age.	Time in Hospital.			Cause of Death
			Years.	Months.	Days.	
11907	M	73	....	....	11	Chronic myocarditis, senile psychosis.
11661	M	66	....	....	7	Generalized arteriosclerosis.
2617	M	82	19	....	17	Generalized arteriosclerosis.
11834	M	76	....	....	29	Generalized arteriosclerosis.
11917	F	64	....	....	21	Erysipelas of lower left leg.
11944	M	78	....	....	10	Generalized arteriosclerosis.
11934	M	59	....	....	19	Broncho-pneumonia with pleurisy.
10531	M	69	3	....	5	Diarrhoea and enteritis.
10355	F	75	2	....	8	Acute myocarditis.
5342	M	65	12	4	....	Generalized arteriosclerosis, coronary thrombosis.

## PROVINCIAL AUXILIARY HOSPITAL, CLARESHOLM

*Movements of Patients.*

In residence on January 1, 1943, there were ninety-eight patients. In residence on December 31, 1943, there were one hundred patients. As in former years, the transfer of patients from the Provincial Mental Hospital to this institution and the return of patients from this institution to the former, accounted for the bulk of the patient changes.

There were nine patients transferred to this hospital. One patient was discharged to her relatives as improved. Two patients were discharged as unimproved. Three patients were returned to the Provincial Mental Hospital. Two were actively disturbed and the facilities for looking after them were lacking. One patient was returned to be discharged to relatives, from the Provincial Mental Hospital. There was one death during the course of the year.

*Accidents and Elopements.*—There were no elopements. There were no accidents of a serious nature.

*General Health.*—In general the health of the patients and staff has been good. There was one death due to degenerative conditions.

All members of the staff and patients were given X-Ray examination for Tuberculosis by the "Mobile X-Ray Unit."

*Dentistry.*—Dr. Revell, from the Provincial Mental Hospital, visited this hospital and gave the patients all necessary dental care. Emergency work was done by the local dentist.

*Occupational Therapy.*—The Occupational Therapy Department continued to do excellent work. Supervision of this department was taken over by Mrs. E. Ermatinger upon the resignation of Miss E. D. Smith. Many more patients were given instruction.

*The Library.*—The patient's library was utilized to the fullest. More books were obtained.

*Buildings.*—Repairs to all the buildings were carried out by the Public Works staff. Their kind co-operation and interest in the welfare of the institution is very much appreciated.

*Religious Services.*—These were conducted each Sunday afternoon. The clergymen of the local churches kindly co-operated in conducting the services.



*Recreation and Entertainment.* — Regular matinees at the local theatre were held twice per month. The management of the local theatre were very kind in co-operating with the staff in arranging these. The patients enjoyed the shows very much.

The annual Sports' Day was held during July, on the hospital grounds. Refreshments were served and prizes provided for the winners of the various events.

Picnic suppers were served on the lawn when weather permitted.

Several parties were given for the patients who assisted with the garden, laundry and other work.

Mrs. Lundgard and Miss A. Horton kindly donated their services to provide music for the parties at Hallowe'en and Christmas time.

The United Church Choir kindly presented enjoyable programmes of music at Easter and Christmas. This music was greatly enjoyed by the patients.

*Gardens and Grounds.*—Despite a dry season sufficient vegetables were obtained from the garden for the entire year.

*Dietetic Department.*—Under the direction of Miss Harvey this department maintained its high standard of efficiency.

*Staff Changes.*—There have been frequent staff changes during the past year. It has been impossible to obtain trained staff, however, all the vacancies have been filled and every effort has been made to maintain the usual standard of efficiency.

*Staff.*—Dr. G. B. Rose has given the necessary medical care to the patients. His kind co-operation is greatly appreciated.

TABLE No. 1  
MOVEMENT OF PATIENT POPULATION DURING 1943

	Male	Female	Total	M.	F.	Total
In residence Jan. 1, 1943 .....				0	98	98
Admissions:						
(a) Voluntary .....	0	0	0			
(b) Certificate .....	0	0	0			
(c) Warrant .....	0	0	0			
(d) Order .....	0	0	0			
(e) Transfers .....	0	9	9			
Re-admissions:						
(a) Voluntary .....	0	0	0			
(b) Certificate .....	0	0	0			
(c) Warrant .....	0	0	0			
(d) Order .....	0	0	0			
(e) Transfers .....	0	0	0	0	9	9
				0	107	107
Discharged During the Year:						
(a) As recovered .....	0	0	0			
(b) As improved .....	0	1	1			
(c) As unimproved .....	0	2	2			
(d) As without psychosis .....	0	0	0			
(e) Transferred to other hospitals ...	0	3	3			
(f) Eloped .....	0	0	0			
(g) Deported to other countries .....	0	0	0			
(h) Deaths .....	0	1	1	0	7	7
				0	100	100



TABLE No. 2

SHOWING THE DIAGNOSIS OF THOSE IN RESIDENCE, DECEMBER 31, 1943

	Male	Female	Total
01. Psychoses with syphilitic meningo-encephalitis (general paresis) .. .. .	..	..	..
02. Psychoses with other form of syphilis of the central nervous system .. .. .	..	..	..
021 Meningo-vascular type (cerebral syphilis)....	..	..	..
022 With intracranial gumma .. .. .	..	..	..
023 Other types (to be specified) .. .. .	..	..	..
03. Psychoses with epidemic encephalitis .. .. .	1	1	1
04. Psychoses with other infectious diseases:			
041 With tuberculous meningitis .. .. .	..	..	..
042 With meningitis (unspecified) .. .. .	..	..	..
043 With acute chorea (Sydenham's) .. .. .	..	..	..
044 With other infectious diseases .. .. .	1	1	1
045 Post-infectious Psychoses .. .. .	..	..	..
05. Alcoholic Psychoses:			
051 Pathological intoxication .. .. .	..	..	..
052 Delirium tremens .. .. .	..	..	..
053 Korsakew's psychosis .. .. .	..	..	..
054 Acute hallucinosis .. .. .	..	..	..
055 Other types (to be specified) .. .. .	..	..	..
06 Psychoses due to drugs or other exogenous poisons			
061 Due to metals (to be specified) .. .. .	..	..	..
062 Due to gases (to be specified) .. .. .	..	..	..
063 Due to opium and derivatives .. .. .	..	..	..
064 Due to other drugs (to be specified) .. .. .	..	..	..
07. Traumatic psychoses:			
071 Traumatic delirium .. .. .	..	..	..
072 Post-traumatic personality disorders .. .. .	..	..	..
073 Post-traumatic mental deterioration .. .. .	..	..	..
074 Other Types (to be specified) .. .. .	..	..	..
08. Psychoses with cerebral arteriosclerosis .. .. .	5	5	5
09. Psychoses with other disturbances of circulation:			
091 With cerebral embolism .. .. .	..	..	..
092 With cardio-renal disease .. .. .	..	..	..
093 Other types (to be specified) .. .. .	..	..	..
10. Psychoses with convulsive disorders (epilepsy)			
101 Epileptic deterioration .. .. .	..	..	..
102 Epileptic clouded states .. .. .	..	..	..
103 Other epileptic types .. .. .	1	1	1
11. Senile psychoses:			
111 Simple deterioration .. .. .	1	1	1
112 Presbyophrenic type .. .. .	..	..	..
113 Delirious and confused types .. .. .	..	..	..
114 Depressed and agitated types .. .. .	1	1	1
115 Paranoid types .. .. .	2	2	2
12. Involutional psychoses:			
121 Melancholia .. .. .	5	5	5
122 Paranoid types .. .. .	..	..	..
123 Other types (to be specified) .. .. .	..	..	..
13. Psychoses due to other metabolic, etc., diseases:			
131 With diseases of the endocrine glands .. .. .	..	..	..
132 Exhaustion delirium .. .. .	..	..	..
133 Alzheimer's disease .. .. .	..	..	..
134 With pellagra .. .. .	..	..	..
135 With other somatic diseases .. .. .	..	..	..
14. Psychoses due to new growth:			
141 With intracranial neoplasms .. .. .	..	..	..
142 With other neoplasms .. .. .	..	..	..
15. Psychoses associated with organic changes of the nervous system:			
151 With multiple sclerosis .. .. .	..	..	..
152 With paralysis agitans .. .. .	..	..	..
153 With Huntington's Chorea .. .. .	..	..	..
154 With other brain or nervous diseases .. .. .	1	1	1
16. Psychoneuroses:			
161 Hysteria (Anxiety hysteria, conversion hysteria and subgroups) .. .. .	..	..	..
162 Psychasthenia or compulsive states .. .. .	..	..	..
163 Neurasthenia .. .. .	..	..	..
164 Hypochondriasis .. .. .	..	..	..
165 Anxiety state .. .. .	..	..	..
166 Mixed Psychoneurosis .. .. .	..	..	..



TABLE No. 2—Continued

	Male	Female	Total
17. Manic-depressive psychoses:			
171 Manic type .....	..	..	..
172 Depressive type .....	2	2	2
173 Circular type .....	..	..	..
174 Mixed type .....	..	..	..
175 Perplexed type .....	..	..	..
176 Stuperous type .....	..	..	..
177 Other types .....	..	..	..
18. Dementia praecox (schizophrenia):			
181 Simple type .....	2	2	2
182 Hebephrenic type .....	5	5	5
183 Catatonic type .....	19	19	19
184 Paranoid type .....	25	25	25
185 Other types .....	..	..	..
19. Paranoia and paranoid condition:			
191 Paranoia .....	1	1	1
192 Paranoid conditions .....	10	10	10
20. Psychoses with psychopathic personality .....	..	..	..
21. Psychoses with mental deficiency .....	12	12	12
22. Undiagnosed psychoses .....	..	..	..
23. Without psychoses:			
231 Epilepsy .....	..	..	..
232 Alcoholism .....	..	..	..
233 Drug addiction .....	..	..	..
234 Mental Deficiency .....	6	6	6
235 Disorders of personality due to epidemic encephalitis .....	..	..	..
236 Psychopathic personality:			
2361 with pathological sexuality .....	..	..	..
2362 with pathological emotionality .....	..	..	..
2363 with asocial or amoral trends .....	..	..	..
2364 Mixed types .....	..	..	..
24. Primary behaviour disorders:			
241 Simple adult maladjustment .....	..	..	..
242 Primary behaviour disorders in children			
2421 Habit disturbance .....	..	..	..
2422 Conduct disturbance .....	..	..	..
2423 Neurotic traits .....	..	..	..
Total .....	100	100	100

TABLE No. 3

## RECORD OF DEATHS DURING 1943

Register No.	Sex.	Time in Mental Hospital				Cause of Death
		Age.	Years.	Months.	Days	
5821	F	67	11	9	24	Myocardial Failure

### PROVINCIAL AUXILIARY MENTAL HOSPITAL RAYMOND, ALBERTA

*Movements of Patients.*—On January 1, 1943, there were one hundred and fourteen patients in residence. There were eight patients transferred to this hospital from the Mental Hospital at Ponoka. There were two discharges and three patients transferred to the Mental Hospital at Ponoka. There were two deaths.

*Accidents and Elopements.*—The only accident of any consequence was when an elderly lady fell and fractured her left arm. A plaster of paris cast was applied, and the injury healed without complications.

There was one elopement when an elderly lady wandered away from the airing court and across some nearby fields. She was brought back without any difficulty by the nursing staff.

*General Health.*—During the past year the general health of the patients has been very good. There have been a few head and chest colds among them, but during the winter they receive



cod liver oil capsules daily, which have proven a great help in preventing these. All of the patients and the Nursing Staff were inoculated against typhoid fever.

*Dentistry.*—The hospital was visited by Dr. J. E. Revell, who examined all of the patients with teeth, doing the necessary dental work. Several of the patients were given upper and lower dentures.

*Occupational Therapy.*—From early spring to late fall the form of occupation most desired by a large number of the patients is working in the gardens and about the grounds. The occupational parlour for needlework has been open all year, and in the summer time patients often take their fancy work to the lawns. However, its greatest benefit is seen during the winter, when it is enthusiastically attended. A cup of tea is served to the ladies during the afternoons, and the pleasant, quiet atmosphere soothes and quiets many.

Patients are also employed in the kitchen, laundry and Nurses' Home, and some are given the responsibility of seeing that the sleeping dormitories are kept dusted and tidy.

*Library.*—We have had twenty-five new volumes added to our Library, but it is still too small for the patient population, containing only 112 volumes. Some magazines have been donated by townspeople and the Catholic priest. These are very much appreciated by the patients and eagerly read.

*Religious Services.*—The United Church minister has faithfully held services every Sunday afternoon for the patients. The Catholic priest calls once monthly.

*Recreation and Entertainment.*—Twice monthly about sixty patients walk to the local theatre and enjoy the latest picture shows. They are escorted by the nurses. It is a form of entertainment thoroughly enjoyed by the patients, and the picture shows are discussed upon their return.

Before each Sunday service the patients enjoy an hour's singing of hymns. In this way new hymns are also taught to them.

Physical exercises and marches are still conducted daily, and these are of great benefit to the patients especially during the winter when they cannot get outside.

Every Sunday during the summer the patients were served supper in the airing court. Several groups of workers were also taken on picnics to the local park.

On Valentine's Day the patients had a party and Valentine box. On Hallowe'en the wards were tastefully decorated and a party and dance held. At Christmas time a party was held for the workers in the Occupational parlours and a small gift given to each from the O.T. Department. Christmas Eve a Women's Entertainment Club from Raymond came up and gave a concert to the patients. This was enjoyed very much by all.

The piano is a constant source of entertainment and dancing, and there are two radios in the ward.

Groups of patients are taken on long walks whenever possible.

*Staff Changes.*—There have not been many changes this year. However the staff, with the exception of two graduate nurses,



have had no training, so it is planned to give a course of lectures this coming year to the Ward Aids. Although the hospital duties have been executed satisfactorily it is felt that this course would arouse more interest among the Ward Aids and enable them to give better service in the treatment of patients individually.

*Visitors.*—Periodic visits during the year were made by the General Medical Superintendent of Provincial Mental Hospitals. The Eugenics Board, acting as a Board of Inspection, also made their annual visit. The Fire Inspection Board also made a visit of inspection. Mr. E. R. Nickolls, of the Poultry Branch of the Department of Agriculture, has also periodically inspected the hospital poultry.

Relatives and friends of the patients have visited and have also been conducted throughout the hospital. In all cases they have shown a keen interest and were well pleased with the accommodations for the patients.

*Alternations.*—There have not been any alterations made at the hospital this year, but many of the rooms have been re-decorated throughout.

A new root cellar was built for the hospital last fall, and has proven invaluable in keeping the vegetables through this winter.

*Garden and Grounds.*—Due to a very dry season the garden produce was less this year than ever before, the potato crop being quite insufficient. However, what was raised has kept very well in the new root cellar so there should not be the shortage of vegetables as in previous years, there being less waste.

The flower beds were not as pretty this year, due to the dryness of the season. However, there were plenty of cut flowers for the wards. A greenhouse for the raising of potted plants for the wards during the winter, and the starting of certain vegetables and flowers in the spring would be an invaluable asset.

*Conclusion.*—The general health of the patients is very good. For practically ten months of the year the patients are out on the lawns and in the airing court. For the most part they are contented and happy.

TABLE No. 1.  
MOVEMENT OF PATIENT POPULATION DURING 1943.

	Male	Female	Total	M.	F.	Total
In residence January 1, 1943 .....				0	114	114
Admissions:						
(a) Voluntary .....	0	0	0			
(b) Certificates .....	0	0	0			
(c) Warrant .....	0	0	0			
(d) Order .....	0	0	0			
(e) Transfers .....	0	8	8			
Re-admissions:						
(a) Voluntary .....	0	0	0			
(b) Certificates .....	0	0	0			
(c) Warrant .....	0	0	0			
(d) Order .....	0	0	0			
(e) Transfers .....	0	0	0	0	8	8
				0	122	122
Discharges during the Year:						
(a) As recovered .....	0	0	0			
(b) As improved .....	0	2	2			
(c) As unimproved .....	0	0	0			
(d) As without Psychosis .....	0	0	0			
(e) Transferred to other hospitals ...	0	3	3			
(f) Eloped .....	0	0	0			
(g) Deported to other countries .....	0	0	0			
(h) Deaths .....	0	2	2	0	7	7
				0	115	115



TABLE No. 2

SHOWING THE DIAGNOSIS OF THOSE IN RESIDENCE, DECEMBER 31, 1943

Psychoses		Male	Female	Total
01.	Psychoses with syphilitic meningo-encephalitis (general paresis) .....	.....	.....	.....
02.	Psychoses with other forms of syphilis of the central nervous system:			
	021 Meningo-vascular type .....	2	2	2
03.	Psychoses with epidemic encephalitis .....	.....	.....	.....
04.	Psychoses with other infectious diseases .....	.....	.....	.....
05.	Alcoholic psychoses .....	.....	.....	.....
06.	Psychoses due to drugs or other exogenous poisons .....	.....	.....	.....
07.	Traumatic psychoses .....	.....	.....	.....
08.	Psychoses with cerebral arteriosclerosis .....	4	4	4
09.	Psychoses with other disturbances of circulation .....	.....	.....	.....
10.	Psychoses with convulsive disorders:			
	101 Epileptic deterioration .....	1	1	1
	103 With arteriosclerosis .....	1	1	1
11.	Senile psychoses:			
	111 Simple deterioration .....	6	6	6
	115 Paranoid types .....	3	3	3
12.	Involuntional melancholia .....	.....	.....	.....
13.	Psychoses due to other metabolic, etc., diseases .....	.....	.....	.....
14.	Psychoses due to new growth .....	.....	.....	.....
15.	Psychoses associated with organic changes of the nervous system .....	.....	.....	.....
16.	Psychoneuroses .....	.....	.....	.....
17.	Manic-depressive psychoses:			
	171 Manic type .....	1	1	1
	172 Depressive type .....	5	5	5
	174 Hypomanic .....	1	1	1
	177 Circular type .....	1	1	1
18.	Dementia Praecox (Schizophrenia):			
	181 Simple type .....	1	1	1
	182 Hebephrenic type .....	7	7	7
	183 Catatonic type .....	22	22	22
	184 Paranoid type .....	23	23	23
19.	Paranoia and paranoid conditions:			
	192 Paranoid conditions .....	10	10	10
20.	Psychoses with psychopathic personality .....	.....	.....	.....
21.	Psychoses with mental deficiency .....	9	9	9
22.	Undiagnosed psychoses .....	1	1	1
23.	Without psychoses .....	.....	.....	.....
	234 Mental deficiency .....	16	16	16
	235 Disorder of personality .....	1	1	1
24.	Primary behaviour disorders .....	.....	.....	.....
	Total .....	115	115	115

TABLE No. 3

RECORD OF DEATHS DURING 1943

Register No.	Sex.	Age.	Time in Mental Hospital.			Cause of Death
			Years.	Months.	Days.	
322	F	68	30	9	7	Base skull fracture due to cerebral apoplexy.
9071	F	82	5	5	....	Hypostatic pneumonia due to cerebral apoplexy.



# Provincial Mental Institute, Edmonton, Alberta

(W. J. MCALISTER, M.D., *Medical Superintendent*)

## GENERAL REMARKS

The patient population at the end of the year totalled 997. Of these 161 were admitted during the year; 88 were first admissions; 3 re-admissions and 70 transferred. There were 2 cases transferred from Red Deer. A total of 103 patients were discharged, of whom 50 died. Of the latter 20 were cases of senile dementia, seventy years of age or older.

We had 126 mental defectives without psychosis at the end of the year. As previously mentioned, these were for the most part of low-grade mentality, especially the female defective.

There were three elopements, none of whom have been apprehended. Two presumably have left the Province. Fortunately, there were no cases of suicide or homicide.

## INSTITUTIONAL PROGRESS

In this respect I am pleased to record the completion of the extension to the bakery, and the alterations made in the kitchen, namely, the new refrigerator. Accommodation was also completed for a new meat refrigerator; but, unfortunately, we have not as yet been able to secure the necessary machinery to place it in operation.

Only one floor of the Women's Building was in complete operation. We were, however, enabled to open the two wings on the second floor and some forty additional patients were transferred from Ponoka.

Our total female population at the end of the year was 110. Owing to the fact that they were all refractory patients, it was difficult to secure adequate staff to properly care for them.

One other factor which added to the difficulty was our lack of housing accommodation for female staff. We have accommodation of sorts, but this is in parts of buildings occupied by patients, hence noisy, and in other ways most unsuitable. I feel quite satisfied that a certain percentage of our losses in staff has been due to this unsatisfactory state of affairs.

We have not been able to add to our medical staff; consequently, all the clinical and administrative work, together with such extra-institutional activities that are carried on, has devolved upon myself and Dr. Schrag. This staff, for a population such as we have here, is obviously quite inadequate, and many activities which would have been considered routine in normal conditions had to remain in abeyance, with the consequent noticeable letting down of our standard of administration and possible therapy.

We had hoped to secure accommodation to more adequately care for our tubercular patients. As nothing was done to meet



this need, we arranged for some changes in one of our dormitories in No. 2 Building, which enabled us to set apart some side-rooms where the segregation was fairly complete. This limited accommodation is always filled and the problem of adequate care for the tubercular still remains acute.

Our staff problem remains almost as serious as in 1942. It was eased somewhat with the introduction of the eight-hour day and the increase in salaries. The quality of staff, however, has not stepped up, and our defections remain almost as many as in 1942. As a matter of fact, there were 134 appointments and 128 resignations during the year.

Our population as a whole, with the exception of the increase as a result of transfer, has not materially changed. For such changes that have taken place, I would refer you to the tables as are herewith enclosed.

#### RELIGIOUS SERVICES

There have been no changes in the routine of religious services. These have been carried on satisfactorily, and the attendance has been up to standard.

#### GENERAL HEALTH

We have fortunately been free from epidemics and apart from the tubercular situation, the general health of the population has been good.

We still continue to admit a large number of the senile type of patient. Most of these are admitted directly and, while we are reluctant to deal with these cases, nevertheless, many of them do constitute a real problem in the home when the only solution is custodial care in an institution.

Our hospital facilities for acute conditions has functioned quite smoothly, although at times the hospital ward is crowded to capacity. There has been little of acute illness among the female patients up to the present time. This is rather fortunate as facilities for the care of acute illness in No. 5 building are practically non-existent.

#### INSTITUTIONAL FARM

The work at the farm was disrupted quite noticeably as a result of the prolonged illness of the manager. However, he finally recovered and was able to assume his duties again the 1st of May.

There have been many problems there to contend with, especially those associated with the dairy, but every effort was made to keep up the dairy herd and the supply of milk for the Institution.

The number of patients that have been employed there has varied from time to time, and the more valuable of this patient help were placed on special parole so that they would receive some remuneration for their services. This has worked out quite satisfactorily and could with profit be extended.



## INSTITUTIONAL FINANCE

The net profit shown from the Farm and Institution was \$8,408.22. Broken down here was a live stock inventory increase of \$1,525.00, and an increase of \$4,475.00 of vegetable produce, all of which was grown at the Institute by our head gardener and his staff. We had a good crop of roots and vegetables and were fortunate in being able to dispose of a large quantity of potatoes, parsnips, carrots, turnips and cabbage. That is, we not only produced sufficient for the Institution but had a surplus which we sold and which netted some \$2,611.50.

There has been an increase in per capita cost from 65.5 cents to 70.2 cents. This has been occasioned by the increased cost in purchase price.

## CONCLUDING REMARKS

There is little further to add to what has already been said.

The staff have, for the most part, proven themselves loyal and efficient. This applies particularly to the older members. Those who have been taken on during the year are, unfortunately, either too old or have some physical or personal disability which precludes the possibility of their ever becoming first-class attendants.

The spirit of co-operation with other departments which has prevailed in the past has held during 1943. Mr. Cameron has proven a bulwark of strength in his willingness to assist us in any emergency relative to the maintenance of the buildings, and Mr. Muir has likewise been sympathetic and co-operative in the face of many difficulties.

The Bursar and his staff have carried on in the usual efficient manner, although the work there has increased to such an extent as to become a real problem. The staff is too small and office accommodation too limited for what is expected of them. One can only hope that the time may soon come when it will be possible to build a proper administration building, thus making it possible to put this department on a proper working basis.

Dr. Schrag, my assistant, has been forced to take upon himself a great deal of extra work, but has proven himself loyal and efficient in the face of the many added difficulties incident to the deplorable deficiency in medical staff.

The nursing personnel, on the whole, has carried on acceptably although we have found it practically impossible to place this department on an adequate basis. We have been able to secure quite a number of nurses and ward aides, but it has been most difficult to retain their services for any length of time.

At the time of completing this report, the Farm Cottage is in process of construction. This will be of distinct value, not only providing for additional transfers from Ponoka, but meeting our need for a large group of the more quiet type of patient who could, with profit, be accommodated in less expensive buildings. One wonders if a similar building could not be erected for the care of the more tractable, senile type of female patient.

I still feel that a Nurses' Home is a necessity in view of all the information now at hand. The accommodation provided in



No. 5 building has not met the situation. As a matter of fact, one can readily understand the objections raised by the staff, as the patients are very noisy, and the employees have no assurance that they will not be disturbed at any time night and day. This applies to a less extent in the other buildings, where we have staff accommodation, but still holds, nevertheless, as we have airing courts adjacent to all these units, hence there is nowhere that staff on night duty can be housed where they will be assured rest during the day-time. In addition, the question of control for training and discipline will continue unsolved just so long as facilities to that end remain unprovided.

To conclude, I wish to thank you, Sir, and the Department executive for the sympathetic understanding you have shown to all the varied requests made by your Superintendent during the past year. Mental Hospitals have many specific problems, some of which I fully recognize as being insoluble at the present time, but I do appreciate the fact that the Department has done everything in its power to assist me in my efforts to "carry on" and to maintain at least a fair standard of efficiency in Institutional administration.

TABLE No. 1  
MOVEMENT OF POPULATION

	Males	Females	Total
Patients on Books January 1st, 1943:			
(a) In Hospital	848	67	915
(b) On Probation	14	2	16
(c) Elopements	1	1	2
(d) In University Hospital	.....	.....	.....
(e) On Special Parole	6	.....	6
Total	869	70	939
Admissions during year:			
(a) First Admissions	62	26	88
(b) Re-admissions	3	.....	3
(c) Transfers	37	33	70
Total	102	59	161
Total received during year:			
(a) Transfers	37	33	70
(b) Re-admissions	3	.....	3
(c) By Warrant	47	17	64
(d) Voluntary	2	1	3
(e) By Certificate	6	3	9
(f) By Mental Defectives Act	7	5	12
Total	102	59	161
Total on books during year			
	971	129	1100
Discharged during year:			
(a) As Recovered	7	6	13
(b) Improved	15	6	21
(c) Unimproved	9	.....	9
(d) Without psychosis	.....	.....	.....
(e) Transfers	9	1	10
(f) Died during year	49	1	50
Total	89	14	103
Patients on books end of year:			
(a) In Hospital	858	109	967
(b) On Probation	15	4	19
(c) Elopements	2	1	3
(d) In University Hospital	.....	.....	.....
(e) On Special Parole	7	1	8
Total	882	115	997
Total Admitted Since Opening	1536	131	1667
Total Discharge Since Opening	462	15	477
Total Died Since Opening	341	2	343



TABLE No. 2  
NUMBER OF OFFICERS AND EMPLOYEES

	Males	Females	Total
Medical Superintendent	1	.....	1
Assistant Medical Superintendent	1	.....	1
Medical Officer	.....	.....	.....
Dentist (part time)	1	.....	1
Bursar	1	.....	1
Storekeeper	1	.....	1
Stenographers and Clerks	1	3	4
Night Supervisors	1	.....	1
Graduate Nurses	.....	11	11
Other Female Nurses	.....	10	10
Male Attendants	70	.....	70
Seamstress	.....	1	1
Shoemaker	1	.....	1
Therapists	1	1	2
Kitchen and Bakery	6	1	7
Laundry	2	3	5
Gardeners and Assistants	4	.....	4
Engineers and Mechanics	12	.....	12
Other Employees	11	7	18
<b>Total</b>	<b>114</b>	<b>37</b>	<b>151</b>

TABLE No. 3  
PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION OF PATIENTS

	Males	Females	Total
<b>Psychiatric:</b>			
Patients Insane	781	90	871
Epileptic (not Insane)	7	.....	7
Mental Deficiency (not Insane)	89	23	112
Alcoholic (not Insane)	.....	.....	.....
Drug Addicts (not Insane)	.....	.....	.....
Neurosyphilitics (not Insane)	.....	.....	.....
All Other Types (not Insane)	5	2	7
Undiagnosed	.....	.....	.....
<b>Total Population</b>	<b>882</b>	<b>115</b>	<b>997</b>
<b>Industrial:</b>			
Industrial Workers	56	20	76
Garden Workers and Farm	48	.....	48
Internal Workers	392	44	436
Doing no Work	362	45	407
On Probation, Parole, etc	24	6	30
<b>Total Population</b>	<b>882</b>	<b>115</b>	<b>997</b>

TABLE No. 4  
NATIVITY OF PATIENTS IN RESIDENCE

	Males	Females	Total	Males	Females	Total
Canada	288	48	336	Japan	2	2
Australia	1	.....	1	Norway	18	18
Austria	65	10	75	Poland	39	52
Belgium	3	.....	3	Roumania	7	8
China	5	.....	5	Russia	41	47
Denmark	8	.....	8	Scotland	27	33
England	98	9	107	Sweden	19	19
Finland	3	1	4	Switzerland	7	7
France	9	1	10	United States	119	131
Germany	31	3	34	Wales	8	9
Holland	1	.....	1	Other Countries	31	34
Hungary	6	.....	6	Unascertained	18	18
Ireland	18	1	19			
Italy	10	.....	10	<b>Total</b>	<b>882</b>	<b>997</b>

TABLE No. 5  
CITIZENSHIP OF PATIENTS IN RESIDENCE

	Males	Females	Total
Citizen by Birth	319	48	367
Citizen by Naturalization	81	40	121
Aliens	308	10	318
Unascertained	34	.....	34
British Birth out of Canada	140	17	157
<b>Total</b>	<b>882</b>	<b>115</b>	<b>997</b>

TABLE No. 6  
DENTAL REPORT

	Males	Females	Total
Patients Examined	112	33	145
Patients Treated	99	21	120
Prophylactic Treatment	18	5	23
Fillings	22	8	30
Extractions	113	47	160
New Dentures	.....	.....	.....
Dentures Repaired	5	.....	5
General Anaesthetic	.....	.....	.....
Denture Adjustments	.....	.....	.....



TABLE No. 7  
AGE AT ADMISSION AND PRINCIPAL PSYCHOSES

Psychoses	Total		Under 15 years		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39								
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.							
1. Traumatic	32	6	38																		
2. Senile	24	2	26																		
3. Cerebral Arteriosclerosis	34	2	36																		
4. General Paralysis	3	3	6																		
5. With Cerebral Syphilis	1	1	2																		
6. With Huntington's Chorea	6	1	7																		
7. With Brain Tumour	3	3	6																		
8. With Other Brain Diseases	4	1	5																		
9. Alcoholic	47	13	60																		
10. Due to Drugs	4	1	5																		
11. With Pellagra	47	13	60																		
12. With Other Somatic Diseases	477	39	516																		
13. Manic Depressive	66	3	69																		
14. Involutional Melancholia	29	7	36																		
15. Schizophrenia	1	1	2																		
16. Paranoia and Paranoid Conditions	2	2	4																		
17. Epileptic Psychoses	51	11	62																		
18. Psychoneuroses and Neuroses	1	1	2																		
19. Psychopathic Personality	1	1	2																		
20. With Mental Deficiency	7	2	9																		
21. Undiagnosed	1	1	2																		
22. Without Psychoses:																					
A	7	7	14																		
B	1	2	3																		
D	90	23	113																		
E	3	3	6																		
F																					
Total	882	115	997	10	5	15	44	12	56	114	14	128	135	19	154	141	16	157	122	17	139



TABLE No. 7—Continued  
AGE AT ADMISSION AND PRINCIPAL PSYCHOSES

Psychoses	40 to 44		45 to 49		50 to 54		55 to 59		60 to 64		65 to 69		70 and over		Unascertained		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1. Traumatic																	
2. Senile			1	1	1	2	3	3	5	5	13	3	8	2	10	1	1
3. Cerebral Arteriosclerosis					1	1	2	2	2	2	4	4	8	1	9		
4. General Paralysis	9	9	6	6				3	3	1							
5. With Cerebral Syphillis								1	1								
6. With Huntington's Chorea			1	1													
7. With Brain Tumour			1	1	3	3											1
8. With Other Brain Diseases	2	2															
9. Alcoholic																	
10. Due to Drugs																	
11. With Pellagra																	
12. With Other Somatic Diseases			1	1	1	1	1	1	1	1							
13. Manic Depressive	5	2	8	2	9	9	9	9	9	9	3	3	1	1	1		
14. Involuntional Melancholia	40	4	31	4	21	1	22	9	1	1							
15. Schizophrenia	15	1	16	7	18	1	18	4	6	1	2	2				5	5
16. Paranoia and Paranoid Conditions	2	1						1	1	1							
17. Epileptic Psychoses																	
18. Psychoneuroses and Neuroses																	
19. Psychopathic Personality																	
20. With Mental Deficiency	6	1	1	1	2	1	3	2	2	2							
21. Undiagnosed					1	1	1										
22. Without Psychoses:																	
A																	
B																	
D																	
E	6	6	4	4	6	6	6										
F																	
Total	85	11	96	60	63	5	68	35	26	2	28	23	17	3	26	7	7



TABLE No. 8  
DEGREE OF EDUCATION OF FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES

Psychoses	Total		Illiterate		Reads and Writes		Common School		High School		University		Unascertained	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Traumatic	32	6	4	1	15	1	9	3	1	1	.....	.....	.....	.....
2. Senile	24	2	4	4	8	1	10	1	.....	.....	.....	.....	.....	.....
3. Cerebral Arteriosclerosis	34	2	2	2	11	1	19	1	2	.....	.....	.....	.....	.....
4. General Paralysis	3	3	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....
5. With Cerebral Syphilis	1	1	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....
6. With Huntington's Chorea	6	1	1	.....	.....	.....	3	3	2	2	.....	.....	.....	.....
7. With Brain Tumour	3	.....	1	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....
8. With Other Brain Diseases	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9. Alcoholic	4	1	.....	.....	.....	.....	4	1	.....	.....	.....	.....	.....	.....
10. Due to Drugs	47	13	3	6	9	5	29	2	4	4	1	.....	.....	.....
11. With Pellagra	2	2	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....
12. With Other Somatic Diseases	477	39	23	2	176	22	212	11	35	4	1	.....	.....	.....
13. Manic Depressive	66	3	3	.....	2	.....	29	1	6	.....	.....	.....	.....	.....
14. Involuntional Melancholia	29	7	2	.....	14	4	10	2	3	.....	.....	.....	.....	.....
15. Schizophrenia	1	1	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....
16. Paranoia and Paranoid Conditions	51	11	10	2	17	8	20	1	2	2	.....	.....	.....	.....
17. Epileptic Psychosis	1	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
18. Psychoneuroses and Neuroses	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
19. Psychopathic Personality	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20. With Mental Deficiency	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
21. Undiagnosed Psychoses	7	.....	3	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....
22. Without Psychoses:	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
A	1	2	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....
B	30	23	41	19	35	4	12	12	1	1	.....	.....	.....	.....
D	3	.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....
E	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
F	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	882	115	97	30	315	50	367	27	57	7	10	10	36	1
	997	37	127	17	365	37	394	64	64	10	10	10	37	37



TABLE No. 9  
ENVIRONMENT OF FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES

Psychoses	Total			Urban 2,500 and over			Rural			Unascertained		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic	32	6	38	14	3	17	17	3	20	1		1
2. Senile	24	2	26	8	1	9	15	1	16	1		1
3. Cerebral Arteriosclerosis	34	2	36	18	1	19	16	1	17			
4. General Paralysis	3		3	1		1	2		2			
5. With Cerebral Syphilis	1	1	2	1	1	2						
6. With Huntington's Chorea												
7. With Brain Tumour	6	1	7	2		2	3	1	4	1		1
8. With other Brain Diseases	3		3				3		3			
9. Alcoholic												
10. Due to Drugs												
11. With Pellagra	4	1	5	1	1	2	3		3			
12. With other Somatic Diseases	47	13	60	17	1	18	30	12	42			
13. Manic Depressive		2	2									
14. Involutional Melancholia	477	39	516	148	13	161	311	26	337	18		18
15. Schizophrenia	66	3	69	17	2	19	48	1	49	1		1
16. Paranoia and Paranoid Conditions	29	7	36	6	2	8	22	5	27	1		1
17. Epileptic Psychoses	1	1	2	1	1	2						
18. Psychoneuroses and Neuroses	2		2	1		1	1		1			
19. Psychopathic Personality	51	11	62	12	3	15	38	8	46	1		1
20. With Mental Deficiency	1	1	2				1	1	2			
21. Undiagnosed												
22. Without Psychoses:												
A	7		7	1		1	6		6			
B												
D	1	2	3		2	2	1		1			
E	90	23	113	36	7	43	53	16	69	1		1
F	3		3				3		3			
<b>Total</b>	<b>882</b>	<b>115</b>	<b>997</b>	<b>284</b>	<b>38</b>	<b>322</b>	<b>573</b>	<b>77</b>	<b>650</b>	<b>25</b>		<b>25</b>



TABLE No. 10  
ECONOMIC CONDITION OF FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES

Psychoses	Total			Dependent			Living on Daily Earnings			Comfortable (ample for 4 months)			Unascertained		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic	32	6	38	22	5	27	8	1	9	6	2	2	2	2	2
2. Senile	24	2	26	7	2	9	11	11	11	6	6	6	1	1	1
3. Cerebral Arteriosclerosis	34	2	36	11	2	13	14	14	14	8	8	8	1	1	1
4. General Paralysis	3	3	6	2	3	5	1	2	3	1	1	1	1	1	1
5. With Cerebral Syphilis	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1
6. With Huntington's Chorea	6	1	7	4	1	5	2	2	4	2	2	2	2	2	2
7. With Brain Tumour	3	3	6	2	2	4	1	1	2	1	1	1	1	1	1
8. With Other Brain Diseases	4	1	5	1	1	2	2	2	4	1	1	1	1	1	1
9. Alcoholic	47	13	60	19	13	32	22	22	44	6	6	6	6	6	6
10. Due to Drugs	4	1	5	1	1	2	3	3	6	3	3	3	3	3	3
11. With Pellagra	477	39	516	167	36	203	280	3	263	32	32	32	18	18	18
12. With Other Somatic Diseases	66	3	69	21	2	23	39	1	40	6	6	6	6	6	6
13. Manic Depressive	29	7	36	20	7	27	9	9	9	9	9	9	9	9	9
14. Involutional Melancholia	1	1	2	1	1	2	2	2	2	2	2	2	2	2	2
15. Schizophrenia	51	11	62	27	11	38	20	20	40	3	3	3	3	3	3
16. Paranoia and Paranoid Conditions	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1
17. Epileptic Psychoses	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1
18. Psychoneuroses and Neuroses	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1
19. Psychopathic Personality	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1
20. With Mental Deficiency	7	7	14	5	5	10	1	1	2	1	1	1	1	1	1
21. Undiagnosed	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1
22. Without Psychoses:															
A	7	7	14	5	5	10	1	1	2	1	1	1	1	1	1
B	1	2	3	1	1	2	2	2	4	2	2	2	2	2	2
D	90	23	113	79	23	102	9	9	18	2	2	2	2	2	2
E	3	3	6	2	2	4	1	1	2	1	1	1	1	1	1
F	882	115	997	392	108	500	404	7	411	64	64	64	22	22	22
Total	882	115	997	392	108	500	404	7	411	64	64	64	22	22	22



TABLE No. 11  
USE OF ALCOHOL BY FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES

Psychoses	Total		Abstinent		Temperate		Intemperate		Unascertained		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	T.
1. Traumatic	32	6	12	3	13	3	4	4	3	3	3
2. Senile	24	2	3	2	16	16	3	3	2	2	2
3. Cerebral Arteriosclerosis	34	2	8	8	21	2	4	4	1	1	1
4. General Paralysis	3	3	1	1	2	2	2	2	1	1	1
5. Cerebral Syphilis	1	1	1	1	1	1	1	1	1	1	1
6. With Huntington's Chorea	1	2	1	1	1	1	1	1	1	1	1
7. With Brain Tumour	6	1	1	1	5	1	6	3	3	3	3
8. With Other Brain Diseases	3	3	1	1	1	1	1	1	1	1	1
9. Alcoholic	4	1	3	1	1	1	1	1	1	1	1
10. Due to Drugs	47	13	9	2	31	11	42	6	1	1	1
11. With Pellagra	4	5	3	1	1	1	1	1	1	1	1
12. With Other Somatic Diseases	477	39	76	15	321	23	344	30	50	1	51
13. Manic Depressive	66	3	7	2	40	1	41	11	8	8	8
14. Involutional Melancholia	29	7	9	3	17	3	20	1	2	2	2
15. Schizophrenia	1	1	1	1	1	1	1	1	1	1	1
16. Paranoia and Paranoid Conditions	2	2	1	2	1	1	1	1	1	1	1
17. Epileptic Psychoses	51	11	16	2	30	7	37	4	1	1	1
18. Psychoneuroses and Neuroses	1	1	1	1	1	1	1	1	1	1	1
19. Psychopathic Personality	1	1	1	1	1	1	1	1	1	1	1
20. With Mental Deficiency	7	7	4	4	2	2	2	1	1	1	1
21. Undiagnosed	1	1	1	1	1	1	1	1	1	1	1
22. Without Psychoses:											
A	7	7	4	4	2	2	2	1	1	1	1
B	1	2	1	1	1	2	3	1	1	1	1
D	90	23	58	17	27	5	32	1	5	5	5
E	3	3	1	1	1	1	1	1	1	1	1
F	3	3	1	1	1	1	1	1	1	1	1
Total	882	115	209	49	530	61	591	70	73	1	74



TABLE No. 12  
MARITAL CONDITION OF FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES

Psychoses	Total		Single		Married		Widowed		Divorced		Separated		Unascertained	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Traumatic	32	6	14	14	8	3	7	3	3	3	3	3	3	3
2. Senile	24	2	10	10	11	2	3	3	1	1	1	1	1	1
3. Cerebral Arteriosclerosis	34	2	12	12	20	1	1	1	1	1	1	1	1	1
4. General Paralysis	3	3	1	1	1	1	1	1	1	1	1	1	1	1
5. Cerebral Syphilis	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6. With Huntington's Chorea	6	1	2	1	3	3	3	3	1	1	1	1	1	1
7. With Brain Tumour	3	3	2	2	1	1	1	1	1	1	1	1	1	1
8. With Other Brain Diseases	4	1	2	2	2	1	2	2	2	2	2	2	2	2
9. Alcoholic	47	13	13	3	26	10	6	6	2	2	2	2	2	2
10. Due to Drugs	4	1	2	2	2	1	2	2	2	2	2	2	2	2
11. With Pellagra	47	13	13	3	26	10	6	6	2	2	2	2	2	2
12. With Somatic Diseases	477	39	380	8	69	28	9	2	7	7	4	1	5	8
13. Manic Depressive	66	3	33	1	27	6	1	1	2	2	3	3	3	3
14. Involutional Melancholia	29	7	22	5	6	2	1	1	2	2	1	1	1	1
15. Schizophrenia	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16. Paranoia and Paranoid Conditions	2	1	1	1	2	2	2	2	2	2	2	2	2	2
17. Epileptic Psychoses	51	11	48	7	2	4	1	1	1	1	1	1	1	1
18. Psychoneuroses and Neuroses	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19. Psychopathic Personality	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20. Mental Deficiency	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21. Undiagnosed	7	7	7	7	7	7	7	7	7	7	7	7	7	7
22. Without Psychoses:														
A	1	2	1	2	2	2	2	2	2	2	2	2	2	2
B	90	23	86	23	2	2	2	2	1	1	1	1	1	1
D	3	3	3	3	3	3	3	3	3	3	3	3	3	3
E	3	3	3	3	3	3	3	3	3	3	3	3	3	3
F	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total	882	115	638	50	181	56	28	7	12	1	15	1	8	8



TABLE No. 13  
INCREASE OF PATIENTS DURING THE YEAR, BY PRINCIPAL PSYCHOSES

Psychoses	Total			First Admission			Re-Admission			Transfer		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic .....												
2. Senile .....	17	5	22	17	5	22						
3. Cerebral Arteriosclerosis .....	6	2	8	6	1	7				2	1	3
4. General Paralysis .....	3	2	7	3	1	4				1		1
5. Cerebral Syphilis .....	1		1									
6. With Huntington's Chorea .....												
7. With Brain Tumour .....												
8. With other Brain Diseases .....		1	1		1	1						
9. Alcoholic .....		1	1		1	1						
10. Due to Drugs .....												
11. With Pellagra .....												
12. With other Somatic Diseases .....	1		1	1		1						
13. Manic Depressive .....	8	7	15	5	3	8				3	4	7
14. Involutional Melancholia .....	35	21	56	18	6	24	2		2	15	15	30
15. Schizophrenia .....	3	1	4	1		1				2	1	3
16. Paranoia and Paranoid Conditions .....	3	1	4							3	1	4
17. Epileptic Psychoses .....	3	1	4									
18. Psychoneuroses and Neuroses .....	1	1	2									
19. Psychopathic Personality .....	1		1	1		1				1		1
20. With Mental Deficiency .....	1	6	7		1	1				1	5	6
21. Undiagnosed .....												
22. Without Psychoses:												
A .....	1	1	2	1	1	2						
B .....												
D .....	2	2	4	2	2	4						
E .....	15	8	23	6	5	11	1		1	8	3	11
F .....	3		3	3		3						
Total .....	102	59	161	64	27	91	3		3	35	32	67



TABLE No. 14  
DECREASE OF PATIENTS DURING THE YEAR, BY PRINCIPAL PSYCHOSES

Psychoses	Total		Discharged						Transfer		Death	
	M. F. T.		Recovered		Improved		Unimproved		M. F. T.		M. F. T.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Traumatic	14	14			1	1					13	13
2. Senile	9	9			1	1					7	7
3. Cerebral Arteriosclerosis	3	3							2	2	1	1
4. General Paralysis	1										1	1
5. Cerebral Syphilis												
6. Huntington's Chorea											1	1
7. With Brain Tumour												
8. With other Brain Diseases	1	2										
9. Alcoholic	1	2			1	1					1	1
10. Due to Drugs												
11. With Pellagra												
12. With other Somatic Disease	5	4	1	3	2	2					2	1
13. Manic Depressive	1	1									1	1
14. Involutional Melancholia	21	2	6	1	7	1	1	1	1	1	13	13
15. Schizophrenia	4	4							1	1	3	3
16. Paranoia and Paranoid Conditions	3	1			1	1						
17. Epileptic Psychoses												
18. Psychoneuroses and Neuroses					1	1						
19. Psychopathic Personality												
20. With Mental Deficiency	1	1			1	1						
21. Undiagnosed	1	1										
22. Without Psychoses:												
A	2	1			2	1						
B												
D	2	1			1	1						
E	16	1			5	1	6	1		6	4	4
F	5	5			3	3						
<b>Total</b>	<b>89</b>	<b>14</b>	<b>7</b>	<b>6</b>	<b>15</b>	<b>6</b>	<b>21</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>49</b>	<b>1</b>







TABLE No. 16  
RELIGION OF PATIENTS IN RESIDENCE

	Males	Females	Total
Baptists .....	26	1	27
Episcopallians .....	90	16	106
Jews .....	9	1	10
Presbyterians .....	83	8	91
Roman Catholics .....	210	30	240
United Church .....	84	9	93
Other Denominations .....	319	48	367
Unascertained .....	61	2	63
<b>Total .....</b>	<b>882</b>	<b>115</b>	<b>997</b>

TABLE No. 17  
OCCUPATION OF PATIENTS IN RESIDENCE

	Males	Females	Total
Professional .....	2	....	2
Commercial .....	26	4	30
Agricultural .....	275	....	275
Mechanics, Outdoor .....	17	4	21
Mechanics .....	39	....	39
Domestic Service .....	5	74	79
Education .....	8	2	10
Miners, Engineers, Carpenters, Painters, etc. ....	58	....	58
Labourers .....	339	....	339
No Occupation .....	89	31	120
Unascertained .....	24	....	24
<b>Total .....</b>	<b>882</b>	<b>115</b>	<b>997</b>



## Provincial Training School, Red Deer, Alberta

(D. L. McCULLOUGH, B.A. (Sen. Mod.), M.B., D.P.H., D.P.M.,  
*Medical Superintendent*)

### CHANGES IN POPULATION, ETC.

*Numbers in Residence.*—The attached tables (Table I) show 277 patients (146 M., 131 F.) in residence on January 1st, and 276 (146 M., 130 F.) in residence on December 31st. The total of patient days were 96,570 as against 96,624 the previous year.

### ADDITIONS

Admissions for the year totalled 20 (11 M., 9 F.). All were voluntary.

Of the twenty, 16 were first admissions; 1 was a re-admission (a patient taken home seven years ago against advice), and 3 were transfers (being too young to be kept at Ponoka or Oliver).

Table III shows that of the 16 first admissions—3 were idiots, 6 imbeciles and 7 morons. Five or about 30 per cent. were of the infirmary (bed-ridden) type, two were epileptic, one pre-psychotic, two showed post-encephalitic conduct disorders, and one was sexually delinquent. Only 3 were of the low grade permanently custodial type who form a majority of those awaiting admission, and are such a problem in their own homes or even in their communities.

### SEPARATIONS

There were 21 outgoing patients; 4 paroles (3 M., 1 F.); 9 transfers (3 M., 6 F.) to Ponoka or Oliver, and 8 deaths (5 M., 3 F.). Of the four cases paroled three went out to work on farms (one at home) and one as a carpenter's helper. At the year's end all were adjusting well despite a severe visual handicap on the part of one boy, who had been 15 years in the Training School (Table XA). The 9 transfers to Ponoka and Oliver were made for various reasons, some to make room for younger patients, some psychotic, and one because of dangerous tendencies. Only 2 of this group had been less than ten years in the Training School—the other 7 having been from ten to twenty-one years in residence (Table IXB). Chronic hydrocephalus, status epilepticus, acute bronchopneumonia, acute paralytic ileus and haemorrhagic chickenpox in a very debilitated patient were the causes of death. Four of these cases had been a year or less in residence, the other four had been from six to sixteen years in residence.

### TYPES IN RESIDENCE

A glance at Table X shows the Infirmary Type still forming 44 per cent. of all cases. The epileptics now number 55 or 19.9 per cent. as against 46 and 37 (16.5 per cent. and 14.7 per cent.) the previous two years. Mongols are 26 or 9.4 per cent. as



against 24 and 20 (8.6 per cent. and 7.9 per cent.) the previous two years. This is an overall increase of these three prognostically poor groups in three successive years from 62.6 per cent. to 70 per cent. and now 75.5 per cent. of our total population. A decidedly disquieting trend.

#### WAITING LIST

Table XI shows 273 names on the active waiting list (144 M., 129 F.), an increase of 21 for the year despite the usual deletions.

#### NUMBERS OF DEFECTIVES INSTITUTIONALIZED

At the end of the year the "mental defectives without psychosis" in institutions were:

	Male	Female	Total
P.T.S., Red Deer .....	146	130	276
P.M.H., Ponoka .....	16	33	49
P.M.I., Oliver .....	50	6	56
P.A.H., Raymond .....	.....	28	28
P.A.H., Claresholm .....	.....	17	17
	<u>212</u>	<u>214</u>	<u>426</u>

If to these we add the 273 names on the waiting list and the 414 names on the suspect list, we have a total of 1,113 mental defectives in residence. It would seem logical to have these all in one central institution.

#### EUGENICS ACTIVITIES

As shown in Table XIII, seven males were eugenically sterilized. One male and two females previously sterilized were admitted, and one female discharged. This brings the total sterilized patients in residence at the end of the year to 60 (19 M., 41 F.), or 21.7 per cent. of the total population of the Training School, as against 19.8 per cent. the previous year.

#### STAFF CHANGES AND ACTIVITIES

With a total Public Health staff of 73, there were 74 resignations and three dismissals. In addition six members joined His Majesty's Forces. It is with great regret that the death is also recorded of Mrs. M. G. Hannen, after sixteen years of faithful, loyal and capable service as head laundress. Her place is being taken, temporarily, by Mrs. Markwick, who as Miss Henderson, was one time Charge Nurse of the Third Floor boys. Amongst those resigning to join the Services was Dr. Akhurst, whose assistance at a time when the Medical Superintendent was indisposed and the new Infirmary unit was being opened, was a very welcome relief. She left at the end of March.

Throughout the year it has been very difficult to secure staff, and upper age limits have had to be ignored and educational and other standards lowered. Although salary increases were made for the nursing branch in the hope of attracting and holding staff, it is regretted that the sum saved through staff shortages was not distributed on a pro rata basis to all members of all branches as was at one time suggested. This would probably have been more effectual in retaining staff, would automatically have compensated for extra work done, and as staff numbers built up to normal would have involved no permanent increase in expenditure for the Government or the taxpayer.



Despite difficulties in staffing the wards and the fact that none of the Red Deer doctors were able to help as in previous years, full lecture courses were continued for all classes. Only one nurse graduated in the Spring. During the Fall there were 8 seniors, 7 intermediates and 20 juniors taking lectures.

The health of the staff was, on the whole, very satisfactory—accidents and illnesses not being of a serious nature.

The C.S.A. of A. was again very active and held many enjoyable social functions.

The Fourth and Fifth Victory Loans were, on the whole, quite well responded to—95 per cent. of the allocated quota being attained in the one case and 105 per cent. in the other.

#### HEALTH OF PATIENTS

In March and April there were many cases of influenza of quite a severe type. In one or two cases practically whole wards were affected and many cases were ten to fourteen days in bed. A smaller outbreak in November and December caused two deaths from pneumonia.

In April there were four or five cases of whooping cough. Vaccine given as they were beginning to whoop or earlier, cut the disease short at once. All patients, except the boys at the farm dormitory, were inoculated and no further cases occurred, though the last outbreak was thirteen years ago.

Six cases of chickenpox occurred in June—one of haemorrhagic type in a very debilitated, infirm patient who had been regurgitating his food for a long time, which proved fatal.

Twelve cases of mumps occurred in August. One case suppurated on one side, but cleared up in three weeks after being incised.

There were many other minor illnesses and accidents, many of them interesting but too numerous to enumerate—except that several severe burns occurred in epileptics owing to insufficiently guarded radiators; and repeated, severe, arterial haemorrhages from a capillary naevus, involving a whole ear and part of the temporal region, called for operations in the University Hospital.

Tonsillectomies were performed on eleven patients.

Twenty of those whose eyes were tested were provided with glasses and forty-nine others had glasses repaired or were fitted with new lenses.

Lack of a visiting dentist and difficulty in securing any dental services, locally or elsewhere, was a very serious handicap throughout the year. Many teeth had to be pulled which could certainly have been saved had they been attended to in time.

All patients and staff were routinely protected against typhoid and diphtheria.

#### PATIENTS' ACTIVITIES

Despite staff shortages and the fact that we have to take practically such staff as we can get, patient activities were well maintained as the following attendance figures show. The figures for the preceding year are given in brackets. New Year's after-



noon party, 75 (65), and evening dance, 110 (65); Camp 135 (146), full time and 10 part time; Picnic for the girls of the Occupational Therapy Groups, 50 (48); School children's picnic, 30 (30); Red Deer Fair, 42 (98). This number was greatly reduced owing to the very wet weather; the Hallowe'en afternoon party, 75, and evening masquerade, 120, a total of 195 (185); the Christmas concert, 227, in two groups (214). This figure includes the performers; the main Christmas Tree in the Gym, 159 (167)—but separate trees were held in Old and New Infirmaries and at the Farm Dormitory. This latter was a new feature and relieved the congestion in the Gym considerably. The party held in the Gym Christmas day was attended as usual, by about 80 of the high grade girls and boys. Owing to the difficulty in ordering things by mail, groups of more capable patients were sent into Red Deer in charge of staff to spend their Christmas pocket money. This involved much extra work, but is so worthwhile that, if possible, it will be made a permanent feature. Mail orders were sent for the lower grade patients, as usual. The Sunday School enrolment totalled 95 (75), and church service attendances averaged about 125.

Attendance at the weekly picture shows in the Gym during the Fall, Winter and Spring months averaged 125.

The three girls' Occupational Therapy Classes—run simultaneously—averaged 50 to 55 girls daily. Three groups of six girls took the dressmaking course, each girl completely making and finishing a dress for herself. Excellent work was done by the fourteen school boys in the Carpentry Class. The occupational display at the Red Deer Fair excited much interest, drew many favourable comments and was a success financially.

On the other hand, there was no Physical Training Classes and no Scouts, Guides, Brownies or Cubs. One of the charge nurses, however, had an active C.G.I.T. Group in the Spring and Fall, and two of her girls attended the Camp at Kasota Beach, for ten days.

Throughout the year various members of the staff took patients—male or female—into Red Deer to picture shows, or to their own homes, etc., in their own time and at their own expense—a very valuable contribution to the welfare and happiness of the patients.

As a treat for the girls in the Occupational Classes, and the state of her funds justifying it, Mrs. Vernon, in charge of this work, bought the girls a second-hand radio with three link speakers and had these installed. The girls enjoy the programmes as they work, interest has been stimulated and a quieter and more restful atmosphere pervades all groups.

#### INSTITUTIONAL PROGRESS

##### *New Construction.*

During the Fall, work was commenced on a new hog barn at the Gaetz' Place—76 ft. x 26 ft., capable of housing about 60 hogs for fattening.

Work is also under way in connection with a pasteurizing unit (20 ft. x 20 ft.) adjoining the carpenter's shop.



### *Maintenance and Improvements.*

The old hog-pen, in use for many years, has been altered and renovated to accommodate 400 hens.

The adjoining log barn, old when the institution was first established, and long only a junk heap and eyesore, was pulled down, as well as some old outhouses. This, with the general tidying up of the site of the former pig runs, has greatly improved the yard in appearance and sanitation.

Changes were made at the cow barns—horse stalls being converted to cow stalls, the stairs to the loft re-located, and the saddle-room fitted as a milk room. This now gives us accommodation for thirty cows.

The Connell house was moved over to the farm, by contract, in anticipation of providing it with a basement, fitting it up and generally modernizing it for use by the farmer, who really should live beside or with his work.

The roof of the laundry and of the new sewing room unit was insulated, and piping which ran through the roof was brought below the level of the ceiling.

A new Cyclone drier and an additional centrifugal extractor were installed in the laundry.

The old outside, wooden stairs running from the second floor of the main building to the low grade playground, were taken down and replaced.

The roof of the Boys' Cottage kept leaking and called for considerable attention.

Everywhere repairs are increasing as our buildings and equipment get older, and with the addition of new units, painting also increases.

### *Garden and Grounds.*

The very dry season materially reduced garden crops as a whole. This is well shown in Table XVIIIA, where yields for the past three years are given. A few items showed moderate increases, but the majority showed decreases, some of them quite serious—e.g., beets were down more than  $1\frac{1}{2}$  tons; carrots almost 8 tons; turnips,  $5\frac{1}{2}$  tons; and potatoes down from 63 to 42 tons, a reduction of 21 tons. Insect pests were troublesome, particularly the potato bug, but were kept reasonably well controlled by spraying and hand-picking. This latter kept large groups of boys, especially small boys, very busily employed.

The flower beds and the grounds generally, however, were very colourful; as usual, attracted a constant stream of visitors and evoked many favourable comments.

### *Farm.*

The prolonged dry weather in the early part of the year affected crop yields on the farm also. Oats ran only 41 bushels to the acre as against 67 the previous year; barley 23 bushels as against 33; but wheat was up at 46 bushels as against  $22\frac{1}{2}$ . It is interesting to note that one ten-acre patch of newly broken land, seeded to Garnet wheat, yielded 595 bushels, weighing 64 lbs. to the bushel. Green feed ran about 202 bundles to the



acre, as against 336 the previous year, and hay was down about 25 per cent. These are over-all figures for our own and rented land. Table XVIIC does not show the rented acreage. Table XVIIB includes our share of the crop from the rented land. Milk production, with about the same number of milking cows, showed a very satisfactory increase of over 65 per cent.—from 97,800 lbs. to 163,043 lbs. This was due partly to the elimination of six poor milkers and the acquisition of better stock, and partly to better feeding, more especially the substituting of alfalfa hay for oat bundles. Even with the improved production we are still far from producing as much milk as we are consuming, still further from getting all we would like, and in fairness to the growing children, should have; and we are still losing money by having to sell our milk to the condensary at producers' rates and buy pasteurized milk at ordinary retail prices. We need more cows, better cows and more land. At the end of the year we had 23 cows milking, one dry, 6 heifers, one bull and 2 bull calves.

As shown in Table XVIIB, we produced 9,142 lbs. of dressed pork for our own institutional use as against 5,235 lbs. the previous year—almost a 75 per cent. increase. In addition (not shown in the Tables) we sold 24 finished hogs (11-A's, 12-B's, and one feeder) for \$559.48, and in December another 51 unfinished hogs, as we had no place to put them (the old hog barn having been converted to a chicken house and the new hog barn not being completed), and we were short of grain to finish them, owing to the poor crop yields. These netted \$510.00, or a total of \$1,169.48. At the end of the year we had on hand 8 sows, 1 boar and 45 pigs fattening.

Production of eggs was up by almost 800 dozen, thus fully justifying the newer policies adopted the previous year on the advice of the Department of Agriculture experts. We need still more eggs, however, and this can only be attained by increasing accommodation for birds. At the end of the year we had 507 hens on hand—up from a low of 107 in September, through purchase of 400 young birds just beginning to lay. Dressed poultry, at 360 lbs., was about the same as the previous year.

We were unable to purchase turkeys in the Spring through events over which we had no control.

Operations on the farm were greatly helped by the use of the tractor, a Massey-Harris Junior, purchased the previous Fall but not used until this Spring. With this we got our crops in more quickly, under better moisture conditions and on better worked land. With better weather, the full benefits would have been more obvious.

#### *Laundry, Sewing, Kitchen, Dining Rooms.*

Reference to Table XV shows a continuance of the trend to patch, mend and "make do," due to the difficulties in obtaining certain materials for the sewing room. All these departments have been working at full capacity, reflecting the increase in the number of both patients and staff of the past few years.

#### OTHER INSTITUTIONAL ACTIVITIES AND EVENTS

Guidance Clinics were held quarterly at Red Deer and Stettler. A large proportion of the cases seen are mental defectives.



These can be investigated more thoroughly and details of home training gone into more fully with the parents than during a hurried visit (often not arranged for), as out-patients at the Training School. It is felt, too, that definite progress has been made in reconciling some parents to their children, and in having the children better understood in their own homes. This in its turn has definitely kept names off the waiting list and, to that extent, lessened the pressure on the Training School. It is along some such lines that the problem of mental deficiency in the Province will have to be solved, rather than by bigger institutions with costly and sometimes unhappy segregation.

An address on "The Difficulties of the Intellectually Superior Child" was given in April at the Annual Conference of the Child and Family Welfare Association of the Province, held in Calgary.

As Acting M.O.H. for the Red Deer Full Time Health Unit, the Medical Superintendent has had many interesting and stimulating contacts through the routine work of the Unit, the meetings of the local Board of Health, and through attendance at the Annual Convention and Banquet in Edmonton.

In the Spring, an ice jam occurring in the Canyon south of the town, caused the Red Deer River to rise 18 feet, flood its banks, do extensive damage to fixed property and herds, and put the town pumping station and water filtration plant completely out of action for a day, and left it at reduced capacity for several more days. Water had to be used very carefully for that length of time, but our water tank which supplies the houses on Michener Hill, as well as the Training School, was full when the flood occurred, and, by careful management, we just came through.

In October the Mobile X-ray Unit visited Red Deer. Practically all the staff were X-rayed—duty schedules being arranged to give them the necessary time off. Amongst them there were 3 inactives; 1 recording definite evidence of healed tbc; 4 showed evidence of non-tbc disease; and 2 recorded thickened pleura.

In October the Visiting Board made their annual inspection and investigated most phases of the work being done and the premises.

### THANKS

Once again the warmest thanks are due to the older, more senior and permanent members of the staff for the splendid will to work which they have shown despite shortages of help and materials in so many fields. Many foodstuffs were hard to get and substitutions were the order of the day, calling for both patience and imagination. Crockery of all kinds was almost impossible to get—involving much washing of dishes during the course of meals. Many long hours and much money were spent trying to secure staff. Duty lists for such staff as we could muster were very difficult to arrange. The large turnover in staff meant increased work on payrolls and ration books. Victory Loans also meant more work. There never were so many visitors to see patients, and I doubt if there ever was so much correspondence.

In these, and a hundred and one other ways, the warmest thanks are due to the senior heads, the heads of all departments



and ward charges, as well as the rank and file, for another year of very loyal and devoted service, given on the whole, ungrudgingly, to the patients and their welfare.

Thanks are also due to the Red Deer Fair Board for their generous treatment of the patients, admitting them to the grounds and grand-stands free, to the Red Deer Rotary Club for gifts of toys at Christmas, and a number of individuals for gifts of cards, scrap-books, etc.

And, as always, the warm interest and helpful advice of Dr. Bow, Deputy Minister of Public Health, ever available and many times used, is gratefully acknowledged.

TABLE 1  
MOVEMENT OF FEEBLE-MINDED POPULATION

	Male	Female	Total
Defectives on books of institution at January 1st, 1943:			
In the Provincial Training School, Red Deer, Alberta .....	146	131	277
ADMISSIONS:	Male	Female	Total
1. First admissions, voluntary .....	8	8	16
2. Re-admissions .....	1	1	2
3. (a) Transfers (re-admissions) .....	1	1	2
(b) Transfers .....	1	1	2
Total number of admissions .....	11	9	20
Total number of defectives on the books during 1943 .....	157	140	297
OUTGOING:	Male	Female	Total
1. Paroles .....	3	1	4
2. Transfers .....	3	6	9
3. Deaths .....	5	3	8
Total number of outgoing .....	11	10	21
Defectives on books of the institution at Dec. 31, 1943	146	130	276

RESPONSIBILITY FOR MAINTENANCE OF PATIENTS IN RESIDENCE.  
AT DECEMBER 31, 1943

	In Residence	Percentage
Wards of the Province of Alberta .....	26	9.4
Wards of the Municipal Districts of Alberta .....	204	73.9
Wards of the Department of Municipal Affairs of Alberta .....	34	12.3
Private cases in Residence .....	1	.4
Wards of Department of Pensions and Health, Ottawa .....	5	1.8
Wards of the Dominion Government .....	4	1.5
Unascertained .....	2	.7
Total .....	276	

TABLE 3  
MENTAL STATUS OF FIRST ADMISSIONS, RE-ADMISSIONS AND TRANSFERS

Mental Status	First Admissions			Re-admissions			Transfers			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Idiot .....	2	1	3	.....	.....	.....	.....	.....	.....	2	1	3
Imbecile .....	2	4	6	1	.....	1	.....	.....	.....	3	4	7
Moron .....	4	3	7	1	.....	1	1	1	2	6	4	10
	(Trans.)											
Totals .....	8	8	16	2	.....	2	1	1	2	11	9	20

TABLE 4  
NATIVITY OF ADMISSIONS, RE-ADMISSIONS AND OF PARENTS OF ADMISSIONS

Nativity	Patients			Parents Male Patients			Parents Female Patients		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Alberta .....	9	7	16	1	2	3	3	2	5
British Columbia .....	.....	.....	.....	1	1	1	1	1	2
Saskatchewan .....	1	1	2	1	.....	1	.....	.....	.....
Ontario .....	1	.....	1	2	2	4	.....	.....	.....
Quebec .....	.....	.....	.....	1	.....	1	.....	.....	.....
Newfoundland .....	.....	.....	.....	1	.....	1	.....	.....	.....
England .....	.....	.....	.....	.....	.....	.....	1	1	2
Scotland .....	.....	.....	.....	1	1	2	.....	.....	.....
United States .....	.....	.....	.....	.....	1	1	2	2	4
Poland .....	1	.....	1	.....	.....	.....	1	.....	1
Hungary .....	.....	.....	.....	1	1	2	.....	.....	.....
Russia .....	.....	.....	.....	1	1	2	.....	.....	.....
France .....	.....	.....	.....	.....	.....	.....	.....	1	1
Switzerland .....	.....	.....	.....	1	1	2	.....	.....	.....
Unascertained .....	.....	.....	.....	1	1	2	1	2	3
Totals .....	11	9	20	11	11	22	9	9	18







OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS  
AND CHRONOLOGICAL AGE

## B—TRANSFERS

Age Group	Idiot			Imbecile			Moron			Borderline			Dull			Years in Residence
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
15-19							1		1							2/3
20-24								1	1							13/8
																7/11
	1	1														14/5
25-29							1		1							17/9
30-34							1		1							18/2
							1	1								21/3
	1	1														11/7
45-49										1	1					18/1
Totals	2	2		2	2		3	1	4		1	1				125/1

OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS  
AND CHRONOLOGICAL AGE

## C—DEATHS

Cause	Age	Idiot			Imbecile			Moron			Years in Residence
		M.	F.	T.	M.	F.	T.	M.	F.	T.	
Status Epilepticus	32/2	1		1							16/10
	12/5				1		1				6/11
Chronic external hydrocephaly, Pneumococcal Meningitis	5		1	1							/7
Acute Bronchopneumonia, Frolich's Syndrome	24/1		1	1							14/6
Chickenpox, Epileptic idiot, chronic Malnutrition	29/3	1		1							/8
Congenital Hydrocephalus with Spina Bifida	/9				1		1				/1
Acute Paralytic Ileus Enterospasm	30/2					1	1				12/9
Pneumonia-Lobar (grossly deformed quadriplegic)	17/3							1		1	1/1
Totals		2	2	4	2	1	3	1		1	53/5

TABLE 10

## SOME OF THE TYPES IN RESIDENCE

Classification	Idiot			Imbecile			Moron			Total			Percentage
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
Infirmary Type:													
(a) Physically helpless	17	15	32	8	6	14	1		1	26	21	47	17.0
(b) Mentally helpless	29	23	52	15	6	21	3		3	47	29	76	27.5
M.D. and Epileptic	14	13	27	7	4	11	8	9	17	29	26	55	19.9
M.D. and Psychopathic				2	1	3							1.0
M.D. and Psychotic		1	1					1	1				0.7
Mongols and Mongoloid	4	2	6	9	6	15	3	2	5	16	10	26	9.4
Totals	64	54	118	41	23	64	15	12	27	118	86	204	75.5

TABLE 11

## APPLICATIONS AWAITING ADMISSION

Applications dated:	Male Female Total			Applications dated:	Male Female Total		
	M.	F.	T.		M.	F.	T.
1926 to 1934	10	18	28	1940	20	10	30
1935	14	9	23	1941	16	14	30
1936	7	11	18	1942	18	16	34
1937	14	5	19	1943	21	20	41
1938	11	10	21				
1939	13	16	29				
					144	129	273

TABLE 12

## KNOWN DEFECTIVES

Reported 1926 to 1934	Male Female Total			Reported during:	Male Female Total		
	M.	F.	T.		M.	F.	T.
Reported during:	72	63	135	1940	16	13	29
1935	10	7	17	1941	14	12	26
1936	18	5	23	1942	26	16	42
1937	19	14	33	1943	16	9	25
1938	16	16	32				
1939	18	17	35				
					225	172	397



TABLE 13  
EUGENICS SUMMARY

	Male	Female	Total
<b>A.—TRAINING SCHOOL CASES:</b>			
Presented and approved—P.T.S.	58	63	121
Presented and approved—Out-Patients	1	1	2
<b>Totals</b>	<b>59</b>	<b>64</b>	<b>123</b>
Operations	52	61	113
Paroled, Transferred, etc.	39	44	83
In Residence	13	17	30
<b>B.—STERILIZED BEFORE ADMISSION</b>			
Paroled, Transferred, etc.	7	45	52
	1	21	22
In Residence	6	24	30
<b>C.—TOTAL OF STERILIZED CASES</b>			
Total of Paroled, Transferred, etc.	59	106	165
	40	65	105
In Residence	19	41	60
<b>D.—PERCENTAGE OF POPULATION—21.7%.</b>			

TABLE 14  
STAFF—DECEMBER, 1943

	Male	Female	Total
Medical Superintendents	1	1	2
Medical Assistant	1	1	2
Social Worker, Voluntary	1	1	2
Dentists	1	1	2
Teachers, Grade	1	1	2
Teachers, Sense Training	1	1	2
Occupational Therapist	1	1	2
Bursars	1	1	2
Stenographers	3	3	6
Clerks	1	1	2
Kitchen Staff	4	4	8
Dining Room Staff	2	2	4
Laundry Staff	4	4	8
Sewing Room Staff	2	2	4
Gardeners	1	1	2
Farmers	1	1	2
Matrons	1	1	2
Asst. Matron and Surgery Nurse	1	1	2
Night Supervisors	1	1	2
P.T.S.—Graduate Nurses	1	4	5
P.T.S.—Student Nurses	5	28	33
Farm Dormitory	1	1	2
Ward Maids	3	3	6
Boiler Room Staff—D.P.W.	6	6	12
Maintenance Staff—D.P.W.	3	3	6
Night Watchman—D.P.W.	1	1	2
	22	58	80

TABLE 15  
SEWING ROOM—SUMMARY OF ARTICLES MADE AND REPAIRED IN 1943

Articles	Quantity	Articles	Quantity
Aprons, white, gingham and burlap	131	Handkerchiefs	72
Blouses	18	Kneelers	28
Bibs	98	Night Gowns	196
Bath Mats	10	Napkins	61
Bloomers	203	Pillow Cases	94
Bedpan Covers	15	Rompers	51
Bedjackets	166	Sleeves, canvas	48
Brassieres	43	Slips	81
Bags, Laundry	43	Shorts	55
Coats—Attendants 3, barber 1, house 1	5	Serviettes	42
Coveralls	78	Sheets—Ward 229, ironing 6	235
Chemise	139	Suits, canvas	8
Curtains	34	Table Cloths	26
Covers—Cushions 9, mattress 2, pillow 4, press 52	67	Table Centres	25
Covers—Table 6, hot water 3, door 2, dressing 30	41	Table End	3
Covers—Ice cap 2, engine 2	4	Towels—Huck 78, tea 185	263
Caps—Isolation 6, nurses 58	64	Uniform—Dining room 6, nurses 191, bibs 14	211
Dish Cloths	20	Uniform, Aprons	14
Dresses	364	Miscellaneous	43
Dresser scarves	82	Total number of articles manufactured	3,334
Face Cloths	141	Total number of articles repaired	69,151
Garter Waists	12		
		1938	1939
Manufactured		4,006	3,764
Repaired		57,569	53,399
		1940	1941
		4,794	5,705
		57,531	58,255
		1942	1943
		3,623	466,174
		69,151	

TABLE 16  
LAUNDRY

	1938	1939	1940	1941	1943
Articles Laundered	362,222	351,923	335,244	398,846	466,174



TABLE 17a

## GARDEN PRODUCE FOR HOME CONSUMPTION

Product		1941	1942	1943
Beans	lbs.	1,369	2,007	2,040
Beets	lbs.	4,500	9,000	5,600
Cabbage	lbs.	6,150	7,500	7,200
Carrots	lbs.	11,000	36,000	10,500
Cauliflower	lbs.	1,287	1,370	1,360
Celery	lbs.	885	900	695
Corn	lbs.	1,017	1,455	850
Cucumbers	lbs.	212	200	150
Lettuce	lbs.	925	1,655	1,790
Onions	lbs.	545	1,000	600
Parsnips	lbs.	6,200	8,000	8,500
Peas, green	lbs.	1,753	2,475	2,780
Potatoes	lbs.	125,000	126,350	84,000
Radish	lbs.	365	425	425
Rhubarb	lbs.	2,730	1,540	1,745
Spinach	lbs.	1,050	2,225	1,655
Swiss Chard	lbs.	1,455	1,655	2,810
Tomatoes	lbs.	235	300	365
Turnips	lbs.	22,500	33,000	24,500
Vegetable Marrow	lbs.	550	.....	1,425

TABLE 17b

## FARM PRODUCE FOR HOME CONSUMPTION

Product		1941	1942	1943
Barley	bus.	350	330	1,150
Beef	lbs.	.....	2,480	.....
Eggs	doz.	1,825	3,084	3,813
Greenfeed	bundles	17,283	18,500	2,694
Hay	tons	7	10	70
Milk	lbs.	108,715.8	97,800.6	163,043.9
Oats	bus.	3,211	3,675	2,252
Pork, dressed	lbs.	5,671	5,235	9,142
Poultry (turkey)	lbs.	634.5	275	.....
Poultry (chicken)	lbs.	194	345	360
Wheat	bus.	.....	900	595

TABLE 17c

## ACREAGES

Barley	50	Summer fallow	35
Greenfeed	35	Potatoes	9
Hay	75	Vegetables	4
Oats	45	Wheat	26
Wild Land	265	Camp and Barns	14
Pasture, wild	10	Gardens and Lawn	10
Pasture, tame	70		



## Division of Tuberculosis Control

(A. H. BAKER, B.A., M.D., *Medical Superintendent and Director of Division of Tuberculosis Control*)

We hoped last year that the new Sanatorium in Edmonton would be under construction in 1943. Unfortunately war time restrictions have prevented this. The same urgent needs exists for additional accommodation. It is hoped that before long this work can be undertaken.

### DEATHS FROM TUBERCULOSIS

	White Deaths	Indian and Metis Deaths	Total
1934 .....	179	139	318
1935 .....	177	152	329
1936 .....	193	189	382
1937 .....	170	170	340
1938 .....	141	139	280
1939 .....	121	162	283
1940 .....	140	181	321
1941 .....	170	159	329
1942 .....	142	129	271
1943 .....	142	152	294

While the total deaths were slightly higher than last year, it is apparent that the general trend is downward. This is particularly the case among those of other than Indian origin.

It is of interest to note the steady decrease in the number of those who react to the tuberculin test, as seen in the Normal student group. Out of 592 tested, 65 reacted, or 10.8 percent. This suggests that fewer young adults are infected now, as compared with a few years ago, and it is evident that preventive measures are decreasing the number of those yearly exposed to tuberculosis.

The work carried out during 1943 exceeded that of previous years. Those given institutional treatment numbered about the same, the beds having been used to capacity. However, more of our citizens were examined and more cases of tuberculosis found.

Because of the shortage of staff it has been impossible to send a travelling diagnostician about the Province. Instead arrangements have been made with the medical profession and various hospitals to carry out x-ray examinations on those called up for review and all others whom the practicing physicians desired to refer for such examinations. To avoid confusion in this report, such x-ray examinations which have been carried on throughout the Province have been classed under Travelling Clinic. There were 527 such examinations made and 27 new cases of tuberculosis reported. This plan is working well, and as a means of finding new cases is quite successful.

#### *Agencies Other Than Governmental.*

The Alberta Tuberculosis Association, at a meeting in Edmonton on August 22, 1943, presented to the Minister, the Hon. Dr. W. W. Cross, a Mobile Photofluorographic X-ray Unit, mounted on a trailer. Under agreement this unit, which is owned by the Tuberculosis Association, has been turned over to the Health Department for operation. The purchase of this equipment was made possible by the funds derived from the sale of Christmas Seals. Great credit



is due to the Tuberculosis Association for this splendid contribution to the anti-tuberculosis work.

A beginning has been made in the mass x-raying of the citizens of this Province, as a speedy means of detecting tuberculosis of the lungs, and it is expected to make use of the unit throughout the ensuing year. It is by the routine x-ray examinations of apparently healthy people that new cases of early tuberculosis can be discovered and given proper treatment. This new effort is creating interest, and the numerous requests for x-ray clinics are clear evidence that many more communities are desirous of getting rid of tuberculosis. As rapidly as possible this diagnostic service will be given in various parts of the Province. It is hoped that an additional mobile unit will be made available in 1944, so that the benefits of this service can be more widely distributed.

The Alberta Tuberculosis Association on October 1st, appointed Mr. C. R. Dickey as a full-time secretary. This forward step in appointing an executive secretary will undoubtedly increase the scope of the work undertaken by the Association, and it is expected that its influence will be felt more widely throughout the Province. This Division extends to Mr. Dickey and the Association its best wishes, and welcomes the very valuable work it is undertaking in the promotion of knowledge regarding tuberculosis, providing diagnostic facilities, and seeking to rehabilitate discharged patients.

Mention should be made of school tuberculin surveys which were conducted in some cases by Medical Officers of Health, in others by Public Health nurses, and in some cases by teachers. Onion Lake, Lamont, Drumheller, Medicine Hat, Stettler, Crossfield, Didsbury, Carstairs, Olds, Franchere, and Moose Creek all had tuberculin testing of larger or smaller groups of school children. In most instances the reactors were x-rayed and films sent to this Division for interpretation. Seven new cases of tuberculosis were found.

#### *X-Ray Mobile Unit.*

A staff of three operates the unit. The first work was done in Edmonton on September 9th. Up to December 31st, a number of groups had been x-rayed in Edmonton, Red Deer, Calgary, High River, Lethbridge, Medicine Hat, Cardston and Claresholm. All told, 9,926 people were x-rayed during this time.

It should be noted that the classification which follows is based only on the reading of the x-ray films, which was carried out by the physicians of the Division of Tuberculosis.



## CLINIC REPORT

Place	No. X-rayed	Probable Active	Tuberculosis Inactive	Further Examination Requested
Cardston	744	2	2	25
Central High School:				
Staff	145	...	2	4
Students	459	...	...	13
Claresolm Mental Hospital	108	1	3	6
Claresholm	328	2	2	12
Crescent Heights High School:				
Staff	103	1	2	2
Students	579	...	...	14
Great West Garment Co. (Edmonton)	338	2	6	3
Hudson's Bay Co. (Edmonton)	365	1	4	...
T. Eaton Co. (Edmonton)	474	2	8	...
Woodward's (Edmonton)	352	...	2	2
University of Alberta	976	...	1	3
Kinsmen Club (Edmonton)	14	...	1	...
High River	1,091	8	8	32
Lethbridge	1,911	7	32	47
Medicine Hat	1,121	5	7	24
Red Deer	818	9	8	27
	9,926	40	88	214

SURVEYS:	No. Tested with Tuberculin		No. X-rayed	No. New Cases
	Positive	...		
Edmonton Normal School	332	32	32	1
Calgary Normal School	260	32	31	...
Onion Lake (Tulliby Lake District)	47	11	...	...
Lamont	1199	156	133	1
Drumheller (Kinsmen Club Survey)	...	...	15	...
Medicine Hat (Kinsmen Club Survey)	...	...	95	5
Stettler	...	...	22	...
Crossfield	31	4	1	...
Didsbury	76	3	1	...
Carstairs	40	12	2	...
Olds	89	8	3	...
Franchere	31	...	...	...
Sundre	9	...	...	...
Moose Creek	20	1	...	...
United Grain Growers (Calgary)	89	34	30	...
	2223	293	368	7

INDIAN SCHOOL SURVEYS:	No. X-rayed		New Cases				Total No. X-rayed
	School	Non-School	Pulmonary		Non-Pulmonary		
			Active	Inactive	Active	Inactive	
Blackfoot Indians (2 Schools)	191	39	1	...	...	...	230
Blood Indians (2 Schools)	280	29	7	1	...	...	309
Blue Quill School, St. Paul	129	...	2	...	...	...	129
Ermieskin School, Hobbema	161	7	17	...	...	1	168
Edmonton Residential School	93	...	1	...	...	...	93
Indian Residential School, Morley	224	...	2	...	...	...	224
Peigan Indians (2 Schools)	90	...	...	...	...	...	90
Youville Indian School, St. Albert	118	...	4	...	...	...	118
	1286	75	34	1	...	1	1361

PONOKA MENTAL HOSPITAL:	No. X-rayed	New Cases		
		Pul. Active	Pul. Inactive	Non-Pulmonary
Patients	303	5	1	...
Staff	383	1	...	...
	686	6	1	...



## CLINIC REPORT—Continued

Place	No. of Clinics	New Cases of T.B.				New Exams.	Review Exams.	Total
		Pulmonary		Non-Pulmonary				
		Active	Inactive	Active	Inactive			
<b>STATIONARY CLINICS:</b>								
Calgary .....	45	14	13	1	2	237	144	381
Camrose .....	4	1	4	.....	.....	64	40	104
Central Alberta Sanatorium .....	52	30	42	1	2	410	562	972
Drumheller .....	11	3	3	1	.....	76	132	208
Edmonton .....	236	99	106	17	1	1190	891	2081
Hanna .....	2	.....	.....	.....	.....	15	20	35
Lamont .....	2	.....	.....	.....	.....	18	27	45
Lethbridge .....	6	8	15	.....	.....	95	119	214
Medicine Hat .....	5	1	2	.....	.....	29	76	105
Red Deer .....	5	2	5	.....	.....	36	83	119
Stettler .....	4	1	3	.....	.....	30	22	52
Vegreville .....	2	.....	.....	.....	.....	30	20	50
Willingdon .....	2	.....	1	.....	.....	30	23	53
	<u>376</u>	<u>159</u>	<u>194</u>	<u>20</u>	<u>5</u>	<u>2260</u>	<u>2159</u>	<u>4419</u>
<b>TRAVELLING CLINICS:</b>								
Athabasca .....	1	.....	.....	.....	.....	10	1	11
Berwyn .....	1	1	.....	.....	.....	7	3	10
Bonnyville .....	1	.....	.....	.....	.....	11	11	22
Edson .....	1	.....	.....	.....	.....	7	3	10
Elk Point .....	1	1	2	.....	.....	20	8	28
Fairview .....	1	.....	.....	.....	.....	5	9	14
Grande Prairie .....	1	2	2	.....	.....	36	20	56
Hardisty .....	1	.....	.....	.....	.....	.....	1	1
High Prairie .....	1	5	1	.....	.....	54	18	72
High River .....	1	.....	.....	.....	.....	5	21	26
Islay .....	1	.....	.....	.....	.....	4	9	13
Jasper .....	1	.....	1	.....	.....	5	1	6
Killam .....	1	.....	.....	.....	.....	8	1	9
Lac La Biche .....	1	1	.....	.....	.....	12	16	28
Lloydminster .....	1	.....	.....	.....	.....	6	1	7
Mannville .....	1	.....	2	.....	.....	4	6	10
Mundare .....	1	1	.....	.....	.....	21	13	34
McLennan .....	1	.....	.....	.....	.....	6	5	11
Notikewin .....	1	.....	.....	.....	.....	9	6	15
Peace River .....	1	2	1	.....	.....	41	8	49
Pincher Creek .....	1	.....	1	.....	.....	7	5	12
Provost .....	1	2	.....	.....	.....	23	6	29
Spirit River .....	1	.....	.....	.....	.....	12	8	20
St. Paul .....	1	.....	.....	.....	.....	3	6	9
Viking .....	1	.....	1	.....	.....	7	6	13
Vulcan .....	1	.....	.....	.....	.....	2	2	4
Wainwright .....	1	1	.....	.....	.....	7	1	8
	<u>27</u>	<u>16</u>	<u>11</u>	.....	.....	<u>332</u>	<u>195</u>	<u>527</u>

## SUMMARY—CLINICS AND SURVEYS

	New Cases T.B. Found				Total Exam. & Surveyed
	Pulmonary		Non-Pulmonary		
	Active	Inactive	Active	Inactive	
Stationary .....	159	194	20	5	4419
Travelling Clinics .....	16	11	.....	.....	527
Surveys .....	2	3	.....	.....	2223
Indian Surveys .....	34	1	.....	1	1361
Staff C.A.S. ....	.....	.....	.....	.....	323
Mobile X-ray Unit .....	40	88	.....	.....	9926
Films submitted for reading .....	6	1	.....	.....	1937
	<u>257</u>	<u>298</u>	<u>20</u>	<u>6</u>	<u>20716</u>

During the year this Division gave diagnostic service to 20,716 people, as compared with 9,277 in 1942. After excluding those examined by the mobile unit, the clinic cases still exceeded those of 1942.

New cases of tuberculosis found by this service numbered 581, as compared with 390 in 1942. This was an increase of over 48 percent. Approximately half of these new cases were considered active and in need of treatment, while some of the others will be examined from time to time.



New cases of tuberculosis discovered from all sources during 1943 were 655, as compared with 608 in 1942. These cases were classified as follows:

Active Pulmonary Tuberculosis .....	386	58.9%
Inactive Pulmonary Tuberculosis .....	232	35.4%
Non-Pulmonary .....	37	5.6%

#### *Earlier Diagnosis are being made*

Examination of the 618 new cases of active and inactive pulmonary tuberculosis shows that the majority were discovered in a minimal, or earlier stage. A relatively small number were in a far advanced stage.

Minimal Tuberculosis including childhood tuberculosis and tuberculous pleurisy, with or without effusion .....	354	57.3%
Moderately advanced .....	185	30.0%
Far advanced .....	79	12.7%

Non-residents diagnosed as having tuberculosis were 23, or 3.5% of the total.

Number of cases advised to have sanatorium treatment, not including Indians, 307; number admitted, 267, or 87%.

Of 1,040 known contacts of pulmonary tuberculosis cases found, there were examined 640, or 62.3%.

Of the whites and half-breeds who died of tuberculosis, 80% died in hospitals or sanatoria.

The average period of sanatorium treatment for those discharged during 1943 was 357.1 days.

#### *Services Rendered to Hospitals and Physicians*

The Sanatorium Laboratory has carried out the following work without charge to either hospital or physician:

Sputum Examinations:	
Positive .....	104
Negative .....	627
Urinalysis .....	47
Pleural Fluids .....	26
Guinea Pig Inoculations .....	77
Other Tests .....	89
	<hr/>
	970

This is an increase of 70% over last year.

The mailing list for the supplying of tuberculin numbers over 40. There are 10 clinics and health units, twelve hospitals, and 17 physicians.

#### *Interpretation of X-ray Films*

Radiographic interpretations were made and sent out on 1,937 films, about a 30% increase over last year.

#### *Work Among the Indians*

X-ray surveys were made of 1,286 school children in 11 schools, as well as a number of adults. Thirty-four cases of active tuberculosis were found. Some were admitted to sanatorium, others are carrying on in the schools under special precautions. Subsequent x-ray examinations have shown improvement in most instances.

There is a great need for a Sanatorium or special provision for the Indian population. The present sanatorium beds are insufficient to accommodate these Federal charges, and there should be proper treatment facilities provided before any satisfactory progress can be expected in reducing the incidence of tuberculosis among the Indians. Those who have had treatment have responded satisfactorily, and undoubtedly proper treatment will produce results.



*Tuberculosis and the Armed Forces*

The policy of x-raying all recruits has been of inestimable value in reducing the incidence of disease among those enlisted for active service. Those found to have tuberculosis have been referred to the Department of Health for necessary treatment and supervision. The tuberculosis campaign of the Province has been greatly accentuated by this wise policy of the Federal authorities. Every effort has been put forth to co-operate with the armed forces in providing efficient sanatorium care to those who have been sick on service as well as to those rejected on enlistment.

## FEDERAL PATIENTS UNDER TREATMENT, FISCAL YEAR 1943

	No. of Patients Apr. 1, 1943	No. Admitted to Mar. 31/44	Total Treated	Patient Days
Dept. of Pensions and National Health .....	34	77	111	16,106
Dept. of Indian Affairs .....	12	8	20	2,370
Dept. of Mines and Resources ..	2	.....	2	732
	<u>48</u>	<u>85</u>	<u>133</u>	<u>19,208</u>

## NEW CONSTRUCTION

*Nurses' Home*

The new Nurses' Home at the Central Alberta Sanatorium was occupied March 29th. The building presents an attractive appearance both outside and inside, and it is a pleasure to know that the nurses are comfortably housed.

*Surgical Unit*

The new Surgical Unit was completed in July, except for certain minor details and equipment. It is expected to open this as soon as equipment can be procured. It will provide 21 beds for surgical treatment.

*New Infirmary*

Construction was started on October 1st on a new infirmary building with 50 beds at the Central Alberta Sanatorium. This is placed between two other buildings, thus forming one block 345 feet long. All told, this Sanatorium will then provide 288 beds.

## PLANS FOR THE FUTURE

The new Sanatorium at Edmonton, when completed, will provide modern accommodation and enable a much more efficient type of service to be given. It is earnestly hoped that construction on this building will be undertaken before a great time.

As soon as beds are available, cases of non-pulmonary tuberculosis should be admitted for treatment under the Tuberculosis Act. These bone and joint cases are of long duration, and cost so much that many people deprive themselves of satisfactory treatment until cure is impossible. It is essential in ridding the Province of tuberculosis that the disease be properly treated in all its manifestations as soon as possible. Any less comprehensive plan will minimize the results obtained through widespread diagnostic facilities and free treatment for pulmonary tuberculosis.

With the acquisition of another mobile unit, which is being purchased by the Alberta Tuberculosis Association, it is planned to extend the diagnostic x-ray service until the entire Province has been served.



## ADMINISTRATION

During the fiscal year ending March 31, 1944, Alberta spent \$424,839.34 for the treatment and prevention of tuberculosis, approximately 53c per capita.

The gross patient per diem cost at the Central Alberta Sanatorium was \$2.73, which is 3c less than in the preceding year.

Pneumothorax Out-Patient clinics cost \$2,750.00. Diagnostic clinics and surveys cost \$13,511.77. Of this, the mobile unit accounted for \$5,074.82.

The total number of meals served at the Sanatorium were 329,970 at a food cost of 15.816 cents per meal.

## ACKNOWLEDGMENTS

Because of the difficulty in getting and keeping a working staff, and because of other war time restrictions, a greater strain has been placed on all concerned, both patients and employees. Splendid consideration has been given and it has been possible to undertake and to accomplish more work than in any previous year.

I wish to thank the Hon. Minister, Dr. W. W. Cross, and Dr. M. R. Bow, Deputy Minister of Health, for the helpful consideration given throughout the year.

Grateful acknowledgment is made of the fine co-operation of the Superintendents and staffs of the three Edmonton hospitals which care for our patients. Much credit is due to the staff members in Calgary and Edmonton, who have worked hard and long in an effort to successfully meet the problem of tuberculosis in Alberta in war time. The Division of Tuberculosis welcomes the assistance of the Alberta Tuberculosis Association, and pays tribute to the splendid work which it originated and is carrying on.

## DONATIONS AND ENTERTAINMENTS

## CENTRAL ALBERTA SANATORIUM

DONATIONS—Canadian Red Cross Society, gifts to patients; Catholic Women's League, gifts to patients; Sisters of Ste. Famille, gifts to patients; Women's Liberal Club, gifts to patients; Children's Hospital Aid, gifts to patients; H.M.C.S. Tecumseh, gifts to patients; No. 31 E.F.T.S., De Winton, gifts to patients; No. 37 S.F.T.S., Calgary, gifts to patients; No. 34 S.F.T.S., Medicine Hat, cheque; Mr. L. Fraser, cheque; Mr. W. A. McGilvray, cheque; Canadian Legion, Camrose, cheque; Canadian Legion, Calgary, gifts to patients; Masonic Lodge, gifts to patients; Ontario Laundry, cigarettes and candy; Mr. Wemp, McGavin's Bakery, shortbread; Lakeside Social Workers, scrap-books; Miss Crealock's Class, washcloths; Mrs. William Gage, Canadian Nature magazines; F/L McMillan, books for library; Rotary Club, magazines.

CONCERTS—Red Cross Society, Christmas Concert; Elks Concert Party; Salvation Army Band; Band No. 16, I.T.S.; St. Stephen's Choir.

TOURNAMENTS—Cribbage Tournament, Billiard Tournament, Croquet Tournament.

PICTURE SHOWS—Moving picture shows given twice a month.

PARTIES—Hallowe'en, Whist Drives, Weiner Roasts, Picnic Suppers.

## EDMONTON GENERAL HOSPITAL

DONATION—Mr. William Kensit.

PARTIES—Hallowe'en Party, Mr. Wright's Entertainers, U.S. Army Entertainers, Students Nurses' Concert, Mr. Thompson's Group.



## EDMONTON SANATORIA

(G. R. DAVISON, M.D., C.M., F.R.C.P. (Can.))

The operation of the Tuberculosis Section in three of the General Hospitals in Edmonton has been carried on as in previous years. The total number of beds (212) designated as Sanatorium beds remains the same. The hospital authorities are to be commended for the calibre of the services in the face of adverse conditions such as help and supply shortages.

The Chest Clinic at the Edmonton General Hospital continues to operate at capacity. Clinics were also operated at outside points, but not to the extent of previous years.

The Mobile Miniature X-ray Unit purchased by the Alberta Tuberculosis Association from the sale of Christmas Seals was delivered to the T.B. Division in September. By the use of this equipment a new policy of x-raying the chests of all residents over a certain age was instituted. It is expected that great strides will be made in prevention of tuberculosis disease in the population as a whole if this service can be adequately supplied.

We wish to extend our thanks to the many public spirited citizens who so freely gave of their time to provide entertainment for our patients throughout the year. Contributions, listed elsewhere, were received from various sources for which the recipients are very appreciative.

The services of the visiting nurse is still being supplied by the Edmonton Kinsmen Club. This contribution is invaluable and rounds out the clinic organization.

The part-time occupational therapy teacher supplied by the Alberta Tuberculosis Association has given many of our patients an insight into the intricacies of handicrafts, particularly the different types of needlework.

We are very fortunate in having a school teacher, and much is being accomplished in all school grades. Some of the pupils have received enough business training so that after discharge from hospital, only a short course in business college is required for their rehabilitation. We are again obliged to the Alberta Tuberculosis Association for the business college courses required.

I would like to take this opportunity to thank the authorities and staffs of the Edmonton General, Royal Alexandra and University of Alberta Hospitals for the co-operation and assistance in the services accorded the patients.

## STATISTICAL SECTION

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
Patients under treatment Jan. 1, 1943.....	203	141	35	23	402
Patients admitted, 1943 .....	182	191	21	4	398
Patients transferred in .....	(3)	(8)	(2)	(20)	(33)
Patients treated, 1943 .....	385	332	56	27	800
Patients discharged and died, 1943.....	174	181	22	25	402
Patients transferred out .....	(7)	(23)	(3)	....	(33)
Remaining in Hospital .....	207	136	33	22	398
Patient days .....	75,712	50,033	13,009	7,584	146,338



## DIAGNOSIS ON ADMISSION OF 398 PATIENTS ADMITTED DURING 1943

	Central Alberta Sanatorium	Edmonton Hospitals
No disease .....	3	3
For Diagnosis .....		4
Non-Tuberculous .....	16	7
Tuberculosis, Inactive .....	1	3
Childhood Tuberculosis .....		4
Tuberculous Pleurisy .....	13	4
Non-Pulmonary Tuberculosis .....	2	2
Pulmonary Tuberculosis:		
Minimal .....	34	53
Moderately advanced .....	45	86
Far advanced .....	68	50
	<u>182</u>	<u>216</u>
		398
No. with sputum positive on admission .....	97	99
No. with sputum positive later .....	7	3
No. with sputum persistently negative .....	78	114
	<u>182</u>	<u>216</u>
		398
Of the above, re-admissions were .....	40	36

## OPERATING ROOM REPORTS

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
<b>PNEUMOTHORAX:</b>					
Under treatment, Jan. 1, 1943 .....	114	80	19	1	214
New cases during year .....	45	41	5	1	92
Cases under treatment admitted and carried on .....	8	11	....	....	19
Total number treated in year .....	<u>167</u>	<u>132</u>	<u>24</u>	<u>2</u>	<u>325</u>
Cases discontinued .....	33	29	11	2	75
Cases under treatment Dec. 31, 1943 .....	134	103	13	....	250
Cases unsuccessfully attempted .....	13	19	....	2	34
Pneumothorax refills given:					
In-patients .....	4,129	2,482	266	8	6,885
Out-patients .....	1,290	980	123	....	2,393
	<u>5,419</u>	<u>3,462</u>	<u>389</u>	<u>8</u>	<u>9,278</u>
Intravenous Injections .....	179	137	5	....	317
Intramuscular Injections .....	55	....	....	....	55
<b>SURGICAL CASES:</b>					
Appendectomy .....	1	1	....	....	2
Phrenicopraxis (6 repeats) .....	12	3	....	....	15
Pneumolysis .....	22	8	....	....	30
Excision of Abscess .....	1	....	....	....	1
Incision of Abscess .....	2	....	....	....	2
Removal of Wen .....	1	....	....	....	1
Excision of Cervical Gland .....	1	....	....	....	1
<b>THORACOPLASTY:</b>					
1st Stage .....	13	....	....	....	....
2nd Stage .....	15	....	....	....	....
3rd Stage .....	14	....	....	....	....
4th Stage .....	5	....	....	....	....
5th Stage .....	2	....	....	....	....
6th Stage .....	2	....	....	....	51



	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
<b>OTHER TREATMENTS:</b>					
Aspiration of pleural space .....	525	113	.....	.....	638
Other aspirations .....	3	5	.....	.....	8
Blood Transfusions .....	4	.....	.....	.....	4
Human Serum .....	5	.....	.....	.....	5
Acacia .....	2	.....	.....	.....	2
Spinal Puncture .....	5	4	.....	.....	9
Monaldi Drainage .....	6	.....	.....	.....	6
Intracavitary Pressure Reading .....	3	.....	.....	.....	3
Intrapleural Pressure Reading .....	4	.....	.....	.....	4
Introduction of Intrapleural Trocar and Canuli .....	2	.....	.....	.....	2
Probing of Pleural Sinus .....	1	.....	.....	.....	1
Paracentesis Abdomalis .....	50	.....	.....	.....	50
Basal Metabolism .....	8	5	.....	.....	13
Bronchoscopic Examinations .....	1	.....	.....	.....	1
Cystoscopic Examinations .....	1	.....	.....	.....	1
Lipiodol Injections .....	6	5	.....	.....	11
Plaster Casts .....	2	.....	.....	.....	2
Plaster Shells .....	2	3	.....	.....	5
Deep Therapy .....	.....	.....	2	.....	2
Methiolate Instillation .....	.....	.....	1	.....	1

## X-RAY REPORT

<b>RADIOGRAPHS MADE:</b>					
Thorax .....	2510	652	186	71	3,419
Spine .....	60	18	.....	1	79
Hip .....	3	.....	.....	.....	3
Pelvis .....	18	2	.....	.....	20
Knee .....	4	3	.....	.....	7
Ankle .....	5	1	.....	.....	6
Feet .....	2	.....	.....	.....	2
Skull .....	4	.....	.....	.....	4
Sinuses .....	9	1	.....	.....	10
Teeth .....	11	16	1	.....	28
Shoulder .....	2	2	1	1	6
Wrist .....	3	.....	.....	.....	3
Hand .....	4	1	.....	.....	5
Rib .....	1	.....	1	.....	2
Jaw .....	3	1	.....	.....	4
Kidney .....	6	.....	.....	.....	6
Pyelogram .....	3	3	.....	.....	6
Abdomen .....	3	.....	.....	.....	3
G. I. Tract .....	11	1	1	.....	13
Colon .....	1	.....	.....	.....	1
Bronchiograph .....	2	.....	.....	.....	2
Elbow .....	.....	2	.....	.....	2
Finger .....	.....	.....	1	.....	1
Leg .....	.....	.....	.....	1	1
Femur .....	.....	.....	.....	1	1
Axilla .....	.....	.....	.....	1	1
Gall Bladder .....	.....	.....	1	.....	1
					<u>3,636</u>

<b>FLUOROSCOPIC:</b>					
Gas Cases .....	5,142	3,487	416	12	9,057
G. I. Tract .....	11	20	3	1	35
Chest (Lipiodol) .....	2	.....	.....	.....	2
					<u>9,094</u>

## LABORATORY REPORTS

<b>Sputum Examinations:</b>					
Positive .....	1,115	830	177	111	2,233
Negative .....	2,347	638	379	126	3,490
Urinalysis .....	1,529	487	2,986	236	5,238
Blood Counts .....	443	246	39	24	752
Blood Sedimentation .....	729	607	133	66	1,535
Pleural and Spinal Fluids .....	90	23	.....	.....	113
Guinea Pig Inoculation .....	184	.....	.....	.....	184
Other Examinations .....	126	147	3	5	281
<b>Serological Examinations:</b>					
Negative .....	173	160	21	3	357
Positive .....	4	3	3	4	14

## HELIO THERAPY REPORT

Number treated .....	30	54	1	.....	85
Number treatments .....	1,916	458	13	.....	2,387



## DENTAL REPORT

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
Patient examinations .....	231	113	62	.....	406
Patient treatments .....	216	254	141	.....	611
Prophylactic treatments .....	20	11	3	.....	34
Fillings .....	212	181	110	.....	503
Extractions .....	68	60	28	.....	156
New dentures .....	7	2	.....	.....	9
Dentures repaired .....	1	.....	.....	.....	1
Dentures adjusted .....	8	.....	.....	.....	8

## I.—CLASSIFICATION OF DISCHARGED PATIENTS:

	On Admission. No.	Residence		On Discharge					
		31 days or less	Over 31 days	A.	AA.	Q.	I.	U.	D.
I. No Disease .....	6	6	.....	.....	.....	.....	.....	.....	.....
II. Observation .....	8	3	5	.....	.....	.....	5	.....	.....
III. Non-Tuberculous .....	13	9	4	.....	.....	.....	1	2	1
IV. Tuberculosis, Inactive .....	6	4	2	1	.....	.....	.....	1	.....
	33	22	11	1	.....	.....	6	3	1
V. Childhood Tuberculosis .....	2	2	.....	.....	.....	.....	.....	.....	.....
VI. Adult Type Tuberculosis:									
Pulmonary Clinical:									
Minimal .....	74	17	57	1	6	9	39	2	.....
Mod. Advanced .....	60	11	49	.....	.....	13	31	1	4
Far Advanced .....	8	1	7	.....	.....	.....	5	.....	2
Pulmonary Positive:									
Minimal .....	8	1	7	.....	.....	6	1	.....	.....
Mod. Advanced .....	78	5	73	.....	.....	16	45	7	5
Far Advanced .....	113	7	106	.....	.....	16	40	14	36
VII. Tuberculous Pleurisy .....	14	2	12	.....	.....	3	9	.....	.....
VIII. Non-Pulmonary T.B. ....	12	4	8	.....	.....	.....	2	2	4
Total Tuberculosis .....	369	50	319	1	6	63	172	26	51
Total Treated .....	330	.....	.....	2	6	63	178	29	52
Total "Untreated" .....	72	.....	.....	8	5	.....	16	33	10
Grand Total .....	402	.....	.....	10	11	63	194	62	62

\* NOTE: Only those in residence over 31 days are classed as "Treated."

Explanation of Abbreviations and Terms used: The standard of classification is that of the National Tuberculosis Association. "Minimal", "Moderately Advanced" and "Far Advanced" refer to anatomical extent of disease. "A" Arrested, "AA" Apparently Arrested, "Q" Quiescent, "I" Improved, "U" Unimproved, and "D" Died.

## II.—CLASSIFICATION ON ADMISSION OF 402 DISCHARGED PATIENTS:

	Central Alberta Sanatorium	Edmonton Sanatoria
No Disease .....	3	3
Observation .....	.....	8
Non-Tuberculous .....	13	.....
Tuberculosis, Inactive .....	5	1
Childhood Tuberculosis .....	.....	2
Pulmonary Tuberculosis, Active .....	140	201
Tuberculous Pleurisy .....	11	3
Non-Pulmonary Tuberculosis .....	2	10
	174	228

## III.—CLASSIFICATION ON DISCHARGE OF 311 "TREATED" CASES OF PULMONARY TUBERCULOSIS AND TUBERCULOUS PLEURISY:

On Admission:	Number	On Discharge		
		Improved	Not Improved	Died
Minimal .....	64	63	1	.....
Moderately Advanced .....	122	105	9	8
Far Advanced .....	113	62	12	39
Tuberculous Pleurisy .....	12	12	.....	.....
	311	242	22	47



## IV.—DIAGNOSIS OF NON-TUBERCULOUS AND OBSERVATION CASES:

	Central Alberta Sanatorium	Edmonton Sanatoria
Abscess (Pulmonary) .....	1	.....
Bronchitis .....	2	.....
Bronchiectasis .....	.....	1
Carcinoma .....	1	1
Empyema (Pleural) .....	1	1
Hodgkin's Disease .....	.....	1
Peritonitis .....	.....	1
Pneumonitis .....	2	.....
Post-Influenzial Debility .....	1	.....
Pulmonary Fibrosis .....	5	.....
Silicosis .....	.....	3
	<u>13</u>	<u>8</u>

## V.—SEX:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Male .....	91	125	216
Female .....	83	103	186
	<u>174</u>	<u>228</u>	<u>402</u>

## VI.—SOCIAL:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Single .....	83	105	188
Married .....	82	115	197
Widowed .....	4	6	10
Divorced or Separated .....	5	2	7
	<u>174</u>	<u>228</u>	<u>402</u>

## VII.—RELIGION:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Adventist .....	1	.....	1
Apostolic .....	.....	1	1
Baptist .....	7	6	13
Brethren .....	2	.....	2
Christian Scientist .....	1	1	2
Church of England .....	32	27	59
Church of Scotland .....	1	.....	1
Greek Catholic .....	3	29	32
Greek Orthodox .....	3	14	17
Jewish .....	.....	1	1
Latter Day Saints .....	7	1	8
Lutheran .....	15	17	32
Mennonite .....	3	1	4
Nazarene .....	1	.....	1
Pentecostal .....	1	.....	1
Presbyterian .....	19	5	24
Roman Catholic .....	35	86	121
Reformed Church .....	.....	1	1
United Church .....	36	36	72
Undenominational .....	7	2	9
	<u>174</u>	<u>228</u>	<u>402</u>

## VIII.—OCCUPATIONS—MEN:

	Active T.B.	Non-T.B., Inactive	Total
Accountant .....	2	.....	2
Advertising Manager .....	.....	1	1
Agent .....	2	.....	2
Banker .....	1	.....	1
Blacksmith .....	2	.....	2
Bookkeeper .....	2	.....	2
Boxer .....	1	.....	1
Carpenter .....	3	.....	3
Clerical .....	5	.....	5
Civil Servant .....	3	.....	3
Electrician .....	3	.....	3
Engineer .....	1	.....	1
Farmer .....	73	7	80
Garage Man .....	1	.....	1
Glass Blower .....	1	.....	1
Inspector .....	1	.....	1
Labourer .....	22	5	27
Lumberman .....	1	1	2
Mail Carrier .....	1	.....	1
Mason .....	1	.....	1
Machinist .....	4	.....	4
Mechanic .....	1	.....	1
Miner .....	9	4	13
Printer .....	2	.....	2
Painter .....	2	.....	2
Railroad Worker .....	3	.....	3



	Active T.B.	Non-T.B., Inactive	Total
Radio Technician .....	2	.....	2
Radio Announcer .....	1	.....	1
Salesman in Store .....	2	.....	2
Salesman (Outside) .....	1	.....	1
Seaman .....	1	.....	1
Student .....	19	2	21
Sheet Metal Worker .....	1	.....	1
Teacher .....	1	.....	1
Timekeeper .....	1	.....	1
Tinsmith .....	1	.....	1
Telegrapher .....	1	.....	1
Truck Driver .....	3	.....	3
Trapper .....	5	.....	5
Waiter .....	3	.....	3
Retired .....	1	.....	1
No Occupation .....	5	.....	5
Unemployed .....	1	.....	1
	<u>196</u>	<u>20</u>	<u>216</u>

## IX.—OCCUPATIONS—WOMEN:

Clerical Worker .....	3	.....	3
Farm Worker .....	1	.....	1
Hairdresser .....	1	.....	1
Housewife .....	93	6	99
Housework .....	11	.....	11
Hospital Aide .....	1	.....	1
Nurse .....	10	1	11
Nurse-in-Training .....	2	.....	2
Saleslady .....	3	2	5
Stenographer .....	2	.....	2
Seamstress .....	2	1	3
Storekeeper .....	1	.....	1
Student .....	19	1	20
Teacher .....	3	.....	3
Waitress .....	5	.....	5
No Occupation (at home) .....	17	.....	17
X-ray Technician .....	1	.....	1
	<u>175</u>	<u>11</u>	<u>186</u>

## X.—AGE ON ADMISSION:

From 1 to 9 years .....	6	.....	6
From 10 to 14 years .....	19	2	21
From 15 to 19 years .....	39	3	42
From 20 to 29 years .....	141	4	145
From 30 to 39 years .....	75	5	80
From 40 to 49 years .....	49	10	59
From 50 to 59 years .....	25	2	27
From 60 to 69 years .....	11	4	15
From 70 to 79 years .....	6	1	7
	<u>371</u>	<u>31</u>	<u>402</u>

## XI.—NATIVITY:

Born in Alberta .....	185	10	195
Canada (other Provinces) .....	62	8	70
Austria .....	6	1	7
Australia .....	1	.....	1
Czecho-Slovakia .....	2	.....	2
China .....	1	.....	1
Denmark .....	1	1	2
England .....	26	1	27
France .....	.....	1	1
Germany .....	1	1	2
Hungary .....	4	1	5
Ireland .....	4	.....	4
Italy .....	1	1	2
Norway .....	6	2	8
Poland .....	24	1	25
Roumania .....	2	.....	2
Russia .....	7	.....	7
Scotland .....	8	1	9
Sweden .....	1	1	2
United States .....	25	1	26
Wales .....	2	.....	2
Ukrainia .....	2	.....	2
	<u>371</u>	<u>31</u>	<u>402</u>



## XII.—LENGTH OF RESIDENCE IN ALBERTA:

	Active T.B.	Non-T.B., Inactive	Total
Life in Alberta .....	184	11	195
Alberta less than one year.....	14	3	17
“ one to five years .....	17	2	19
“ six to nine years .....	10	1	11
“ ten to fourteen years.....	29	.....	29
“ fifteen to nineteen years.....	35	5	40
“ twenty to thirty years .....	54	4	58
“ over thirty years .....	28	5	33
	<u>371</u>	<u>31</u>	<u>402</u>

## XIII.—RACIAL ORIGIN:

	Active T.B.	Non-T.B., Inactive	Total
Austrian .....	6	.....	6
Danish .....	3	1	4
Dutch .....	4	1	5
Chinese .....	2	.....	2
English .....	63	4	67
Finnish .....	3	.....	3
French .....	22	3	25
German .....	15	2	17
Hungarian .....	4	1	5
Icelandic .....	1	.....	1
Indian .....	16	.....	16
Irish .....	39	4	43
Italian .....	2	1	3
Jewish .....	1	.....	1
Metis .....	34	2	36
Norwegian .....	17	2	19
Polish .....	20	.....	20
Roumanian .....	2	1	3
Russian .....	10	.....	10
Scottish .....	42	6	48
Slavic .....	4	.....	4
Swedish .....	8	1	9
Ukrainian .....	45	2	47
Welsh .....	4	.....	4
Not known .....	4	.....	4
	<u>371</u>	<u>31</u>	<u>402</u>

## XIV.—RESIDENCE OF DISCHARGED PATIENTS:

## CITIES:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Calgary .....	43	.....	43
Drumheller .....	3	2	5
Edmonton .....	11	64	75
Lethbridge .....	4	.....	4
Medicine Hat .....	5	.....	5
Red Deer .....	1	.....	1
	<u>67</u>	<u>66</u>	<u>133</u>

## TOWNS:

Blairmore .....	2	.....	2
Camrose .....	1	1	2
Cardston .....	3	.....	3
Claresholm .....	1	.....	1
Coleman .....	2	.....	2
Coronation .....	.....	1	1
Daysland .....	.....	2	2
Didsbury .....	1	.....	1
Edson .....	.....	1	1
Fort Saskatchewan .....	.....	3	3
Grande Prairie .....	.....	1	1
Lacombe .....	1	.....	1
Lloydminster .....	.....	2	2
Macleod .....	2	.....	2
Okotoks .....	1	.....	1
Olds .....	1	.....	1
Peace River .....	.....	2	2
St. Albert .....	.....	1	1
St. Paul .....	1	.....	1
Three Hills .....	1	.....	1
Tofield .....	.....	1	1
Vegreville .....	.....	1	1
Vermillion .....	.....	1	1
Wainwright .....	.....	1	1
	<u>17</u>	<u>18</u>	<u>35</u>



VILLAGES:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Andrew	.....	2	2
Bashaw	.....	1	1
Bellis	.....	4	4
Berwyn	.....	1	1
Black Diamond	1	.....	1
Blackie	1	.....	1
Chauvin	.....	1	1
Consort	.....	2	2
Eckville	.....	3	3
Edberg	.....	1	1
Falher	.....	1	1
Fairview	.....	1	1
Grimshaw	.....	1	1
Holden	.....	4	4
Hythe	.....	1	1
Lac La Biche	.....	3	3
Lamont	1	2	3
Legal	.....	3	3
Mannville	.....	2	2
Millet	.....	1	1
Mirror	.....	1	1
Mundare	.....	3	3
Myrnam	.....	2	2
New Norway	.....	1	1
Onoway	.....	1	1
Provost	.....	1	1
Ryley	.....	1	1
Sexsmith	.....	2	2
Smoky Lake	.....	3	3
Turner Valley	1	.....	1
Vilna	.....	2	2
Wabamun	.....	1	1
Waskateneau	.....	2	2
Westlock	.....	2	2
Youngstown	1	.....	1
	<u>5</u>	<u>56</u>	<u>61</u>

MUNICIPAL AND LOCAL IMPROVEMENT DISTRICTS:

No.			
8	1	.....	1
66	2	.....	2
67	2	.....	2
69	2	.....	2
71	2	.....	2
98	1	.....	1
123	1	.....	1
125	1	.....	1
137	3	.....	3
157	1	.....	1
189	5	.....	5
190	1	.....	1
214	1	.....	1
217	3	.....	3
221	2	.....	2
223	1	.....	1
250	2	.....	2
276	2	.....	2
280	1	.....	1
307	1	.....	1
308	1	.....	1
309	1	.....	1
331	1	.....	1
337	1	.....	1
338	1	.....	1
339	1	.....	1
342	1	.....	1
362	1	.....	1
364	.....	1	1
371	1	.....	1
393	1	1	2
395	1	.....	1
399	1	.....	1
400	3	.....	3
403	1	.....	1
426	1	.....	1
456	.....	2	2
457	1	2	3
458	1	.....	1
466	.....	2	2
486	.....	1	1
488	.....	2	2
489	.....	1	1
491	1	.....	1
511	1	.....	1
512	.....	2	2



## DEPARTMENT OF PUBLIC HEALTH

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
514	1	.....	1
515	1	.....	1
516	1	2	3
520	1	1	2
522	.....	1	1
543	.....	1	1
544	.....	2	2
545	.....	1	1
547	.....	2	2
548	.....	1	1
549	.....	3	3
551	.....	1	1
552	.....	4	4
558	.....	2	2
558	.....	2	2
573	1	2	3
576	.....	2	2
578	.....	1	1
579	1	.....	1
580	.....	1	1
603	.....	1	1
605	.....	1	1
609	1	.....	1
610	.....	1	1
638	1	2	3
665	.....	2	2
668	1	.....	1
669	.....	1	1
707	.....	1	1
731	.....	1	1
733	.....	7	7
739	.....	2	2
742	.....	1	1
765	1	.....	1
795	.....	1	1
797	.....	1	1
800	.....	1	1
827	.....	2	2
843	1	.....	1
859	.....	1	1
873	.....	2	2
946	.....	1	1
1038	.....	2	2
1094	.....	2	2
	<u>67</u>	<u>74</u>	<u>141</u>
<b>INDIAN RESERVES:</b>			
Blackfoot, Gleichen	2	.....	2
Youville School, St. Albert	.....	1	1
Residential School, Edmonton	.....	3	3
Ermineskin, Hobbema	.....	9	9
	<u>2</u>	<u>13</u>	<u>15</u>
<b>NON-RESIDENTS:</b>			
Civilians	1	1	2
Military	14	.....	14
Transient	1	.....	1
	<u>16</u>	<u>1</u>	<u>17</u>
<b>SUMMARY:</b>			
Cities	67	66	133
Towns	17	18	35
Villages	5	56	61
M.D. and L.I.D.	67	74	141
Indian Reserves	2	13	15
Non-Residents	15	1	16
Transient	1	.....	1
	<u>174</u>	<u>228</u>	<u>402</u>



# The Child Welfare Branch

(C. B. HILL, Deputy Superintendent)

Working within the provisions of The Child Welfare Act of Alberta, The Juvenile Courts Act of Alberta, The Dominion Delinquents Act, The Children of Unmarried Parents Act, Part VII of The Domestic Relations Act.

## THE CHILD WELFARE ACT

### EXPENDITURES FOR THE YEAR ENDING MARCH 31, 1944

Salaries .....	\$ 16,412.68
Expenses:	
Printing, Stationery, etc. ....	936.49
Travelling expenses .....	5,127.72
Freight, express, cartage .....	12.40
Medical services .....	3,319.15
Hospital and medical supplies .....	5,616.51
Postage .....	734.41
Telegrams and telephones .....	705.51
Advertisement .....	1.80
Legal fees and expenses .....	5.00
Fees other than legal .....	49.00
Boarding house supplies .....	39,784.80
Books and binding .....	197.62
Burial expenses .....	161.50
Clothing .....	9,145.56
Gas and oil .....	429.51
Rentals .....	42.28
Repairs and replacements .....	3.69
	<hr/>
	\$ 83,389.78

### NEGLECTED CHILDREN—CHILDREN MADE WARDS OF THE GOVERNMENT

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
1 year and under .....	167	148	194	229	206	255	269	304	330	399
2 years .....	8	8	9	7	11	12	9	13	8	8
3 years .....	8	5	7	12	4	6	7	9	7	9
4 years .....	4	5	10	5	8	12	14	10	9	4
5 years .....	7	10	5	5	5	9	15	8	...	7
6 years .....	5	7	9	12	5	16	14	6	12	9
7 years .....	4	7	5	7	6	13	15	7	8	9
8 years .....	5	10	6	10	6	16	9	9	12	9
9 years .....	8	6	7	10	4	15	24	8	7	6
10 years .....	8	15	5	7	5	16	11	11	14	16
11 years .....	8	9	6	8	8	9	11	8	12	9
12 years .....	3	10	7	5	6	11	11	6	15	9
13 years .....	6	9	8	4	10	9	13	8	19	10
14 years .....	4	5	9	7	7	12	9	9	24	13
15 years .....	4	7	4	4	5	10	19	11	21	14
16 years .....	8	12	8	3	9	8	9	7	21	12
17 years .....	1	5	...	2	1	3	5	3	16	10
Total .....	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	258	278	298	337	306	432	464	437	543	553

### NEGLECTED CHILDREN—CAUSE

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Neglected .....	49	85	52	53	71	50	23	17	54	139
Mother Unable to Support .....	168	176	213	247	204	237	271	297	320	427
Abandoned .....	...	...	...	...	10	8	11	3	...	1
Immoral Conduct .....	...	...	...	...	3	1	6	1	13	...
Morals of Parent or Parents .....	30	7	9	10	5	35	40	38	12	...
Orphans .....	5	4	...	7	4	39	6	16	11	...
Cruelty of Parents .....	...	...	8	3	2	...	...	1	...	...
Inadequate Parental Control .....	1	...	4	1	1	6	23	7	17	...
Father Dead, Mother Insane .....	...	...	4	...	...	...	12	8	...	...
Mother in Gaol .....	...	...	1	...	...	4	...	3	...	...
Incorrigible .....	1	...	...	...	...	4	9	6	51	18
Mother in Mental Hospital .....	...	...	1	3	...	10	...	...	...	...
Mother Dead .....	...	...	...	1	...	19	...	...	...	...
Mother Deserted .....	...	...	...	1	...	...	...	...	...	...
Mother Drinking .....	...	...	...	2	...	...	47	11	...	...
Home Conditions .....	...	...	...	...	5	19	16	21	49	...
Parent or Parents in Institution .....	...	...	...	...	...	...	...	...	5	...
No Proper Guardianship .....	...	...	...	...	1	...	...	...	8	...



## DEPARTMENT OF PUBLIC HEALTH

## NEGLECTED CHILDREN—RELIGION

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Anglican	34	38	33	42	51	52	52	42	37	56
Presbyterian	13	15	21	13	21	20	43	20	8	27
Roman Catholic	74	68	66	82	48	106	142	116	157	150
United	38	32	20	49	61	97	81	90	64	105
Baptist	9	3	18	10	7	10	17	10	13	8
Protestant	41	46	78	70	56	59	75	79	223	105
Salvation Army	1	5	8	7	2	8	4	2	.....	.....
Lutheran	18	12	18	31	27	23	24	31	17	30
Greek Orthodox	5	23	20	15	13	24	12	28	9	31
Greek Catholic	9	30	16	3	9	12	4	10	10	22
Mohammedan	.....	5	.....	.....	.....	.....	.....	.....	1	1
Nazarene	1	1	.....	2	.....	2	.....	3	.....	2
Pentecostal	3	.....	.....	.....	.....	4	.....	.....	.....	3
Christian	.....	.....	.....	.....	1	1	.....	.....	.....	.....
Christian Science	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Evangelical	1	.....	.....	.....	2	.....	.....	1	.....	1
Gospel Hall	1	.....	.....	1	.....	.....	.....	1	.....	.....
Four Square Gospel	2	.....	.....	.....	1	.....	.....	.....	.....	1
Mennonite	.....	.....	.....	1	.....	8	2	1	.....	1
Seventh Day Adventist	.....	.....	.....	.....	3	3	1	1	.....	3
Church of Christ	.....	.....	.....	.....	.....	1	2	.....	.....	.....
Free Baptist	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
Doukhorbor	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Brethren	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Church of God	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Methodist	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
Mormon	.....	.....	.....	.....	.....	.....	.....	.....	3	3
Missionary Alliance	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Bible Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	1

## NEGLECTED CHILDREN—NATIONALITY

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Canadian	236	248	268	369	303	426	455	430	471	545
American	1	2	2	8	1	1	2	1	2	.....
Polish	5	.....	1	8	2	3	2	1	5	.....
Scotch	1	.....	.....	5	2	.....	1	.....	1	2
French	2	2	2	.....	.....	.....	.....	.....	6	2
Russian	1	10	19	.....	.....	.....	1	.....	.....	.....
English	3	1	1	.....	.....	.....	.....	1	.....	.....
German	.....	5	4	.....	.....	.....	.....	.....	.....	3
Irish	1	4	.....	.....	.....	.....	.....	.....	2	.....
Halfbreed	.....	.....	.....	.....	.....	.....	.....	4	36	1
Ukrainian	2	.....	.....	.....	.....	.....	.....	.....	16	.....
Welsh	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
Syrian	.....	5	.....	.....	.....	.....	.....	.....	.....	.....
Italian	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Chinese	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Icelandic	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Austrian	6	.....	.....	.....	.....	.....	.....	.....	2	.....
Arabian	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Jewish	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Czechoslovakian	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Negro	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

## RETURN OF CHILDREN PLACED UNDER CHILD WELFARE ACT AND LEGAL ADOPTIONS UNDER DOMESTIC RELATIONS ACT

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
No. of children placed in foster homes	366	372	391	490	593	690	615	651	560	438
No. legally adopted Wards of Government	197	160	183	220	198	238	228	312	377	325
No. Private Adoptions (not Wards of Superintendent)	52	40	48	48	51	65	81	116	189	128

## AGES OF CHILDREN PLACED IN FOSTER HOMES IN 1943—YEAR BORN

1943	269	1932	10
1942	52	1931	5
1941	6	1930	12
1940	7	1929	15
1939	3	1928	16
1938	3	1927	8
1937	4	1926	8
1936	3	1925	4
1935	3	.....	.....
1934	2	.....	.....
1933	8	Total	438











## DELINQUENTS—SENTENCES

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Suspended Sentence .....	79	105	164	94	108	139	123	114	111	167
Probation .....	161	207	227	149	207	213	191	249	139	109
Made Wards .....	42	32	35	49	55	78	48	49	31	54
To be Strapped .....	1	3	4	11	35	13	20	14	15	2
Adjourned Sine Die .....	19	8	22	34	56	32	50	97	53	65
Fined .....	27	59	32	151	15	23	39	32	...	25
Costs .....	69	116	128	...	202	247	334	356	281	46
Restitution .....	38	19	4	62	129	86	102	155	7	40
Reprimanded .....	30	25	48	49	29	39	47	112	7	...
Warned .....	54	73	52	39	93	117	93	208	191	214
Industrial School including Suspended Sentence .....	10	1	14	13	12	2	...	1	1	...
Remanded to Police Court .....	...	...	2	12	38	37	19	10	13	50
Cautioned .....	...	...	...	9	13	...	...	3	...	...
School for Mental Defectives .....	...	1	...	...	...	...	...	...	...	...
Returned to Parents .....	...	...	6	6	4	...	...	...	...	1
Dismissed .....	...	51	10	...	...	...	...	...	3	10
Remanded .....	61	15	21	...	...	...	...	...	...	...
Driver's License Suspended .....	...	...	...	...	1	5	...	3	1	2
Bicycle Surrendered for period .....	...	...	...	...	48	30	25	15	...	3
Rifle Confiscated .....	...	...	...	...	2	4	...	...	6	...
Write Charge Number of Times .....	...	...	...	...	32	64	67	...	...	...
Write Summons Number of Times .....	...	...	...	...	...	17	...	...	...	...
Write Lines .....	...	...	...	...	...	...	...	45	17	...
Bicycle Impounded .....	...	...	...	...	...	...	...	...	6	3
Re-register .....	...	...	...	...	...	...	...	1	...	...
Gaol .....	...	...	...	...	...	...	...	2	9	11
Charge Withdrawn .....	...	...	...	...	...	...	...	...	15	...
Returned to Superintendent's Care .....	...	...	...	...	...	...	...	...	2	...
Not Guilty .....	...	...	...	...	...	...	...	...	4	...
Sent from Town .....	...	...	...	...	...	...	...	...	...	13
Report .....	...	...	...	...	...	...	...	...	...	13
Expelled from School .....	...	...	...	...	...	...	...	...	...	1

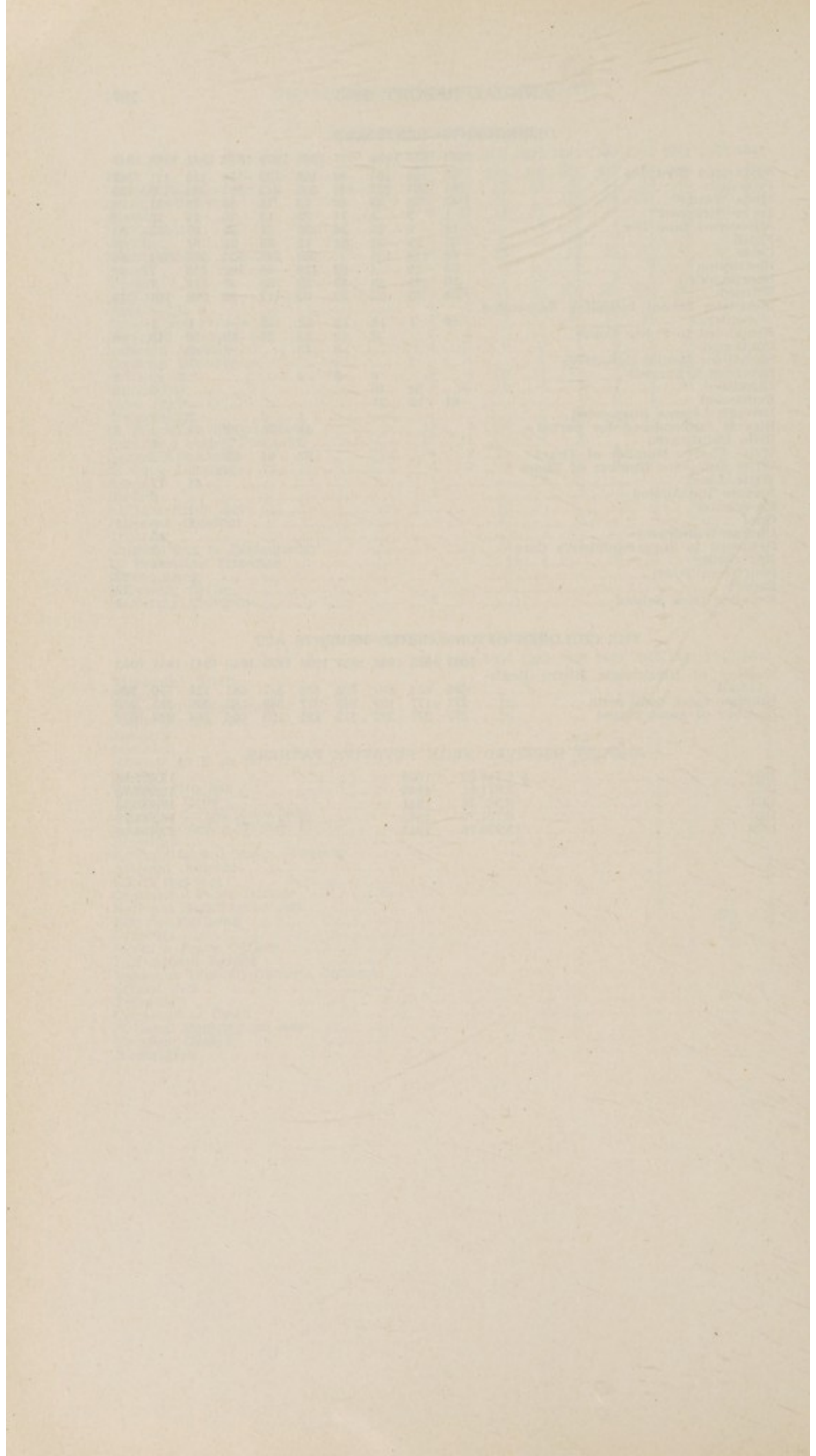
## THE CHILDREN OF UNMARRIED PARENTS ACT

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Number of Illegitimate Births Registered .....	496	614	607	626	683	617	681	720	770	866
Number cases dealt with .....	221	177	159	248	377	388	162	396	385	259
Number of cases closed .....	275	371	322	313	291	195	466	264	230	439

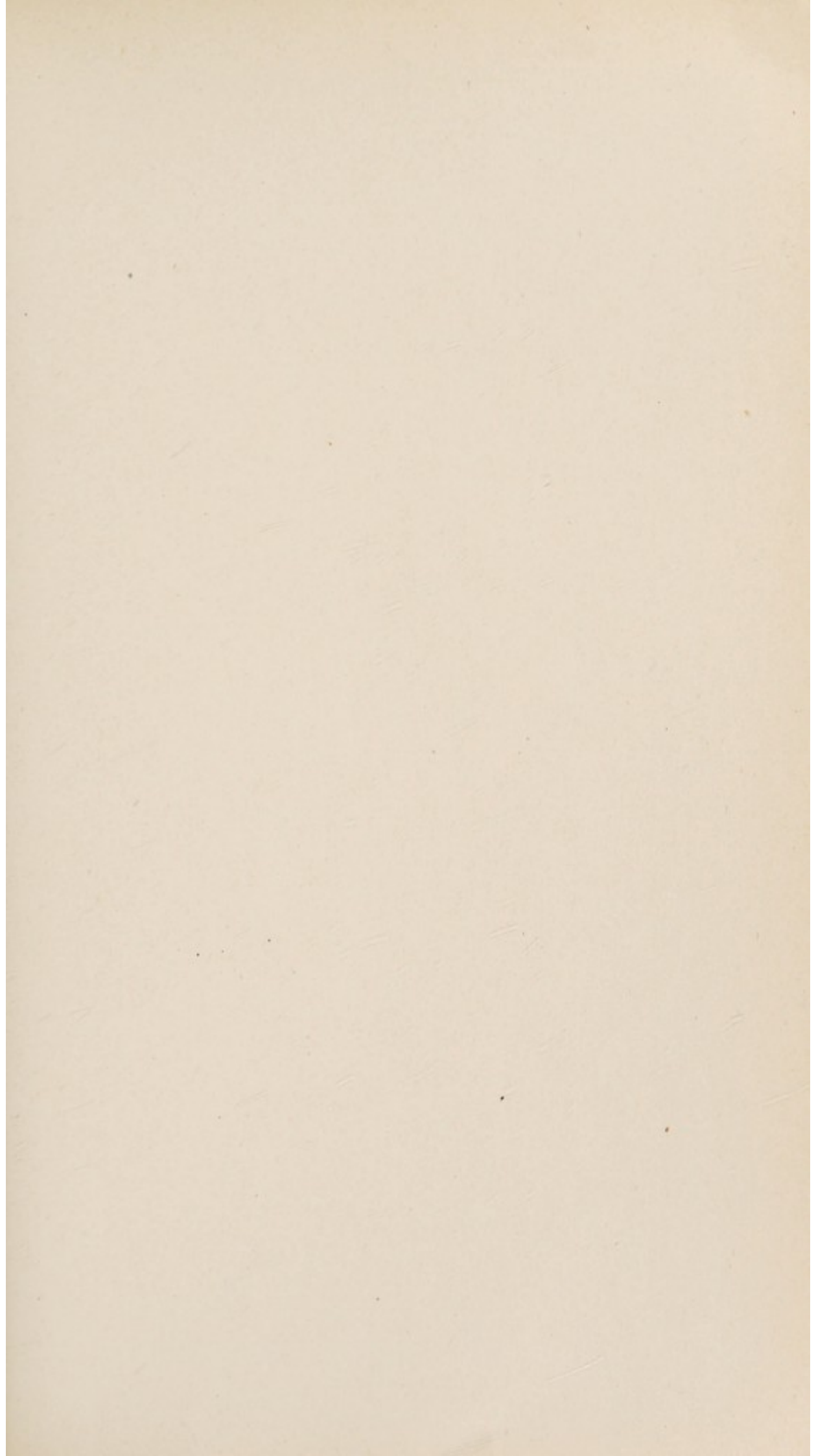
## AMOUNT RECEIVED FROM PUTATIVE FATHERS

1934 .....	\$ 6,746.00	1939 .....	12,627.16
1935 .....	5,811.61	1940 .....	12,903.70
1936 .....	6,362.74	1941 .....	17,810.16
1937 .....	8,701.70	1942 .....	18,843.79
1938 .....	12,970.78	1943 .....	23,636.08

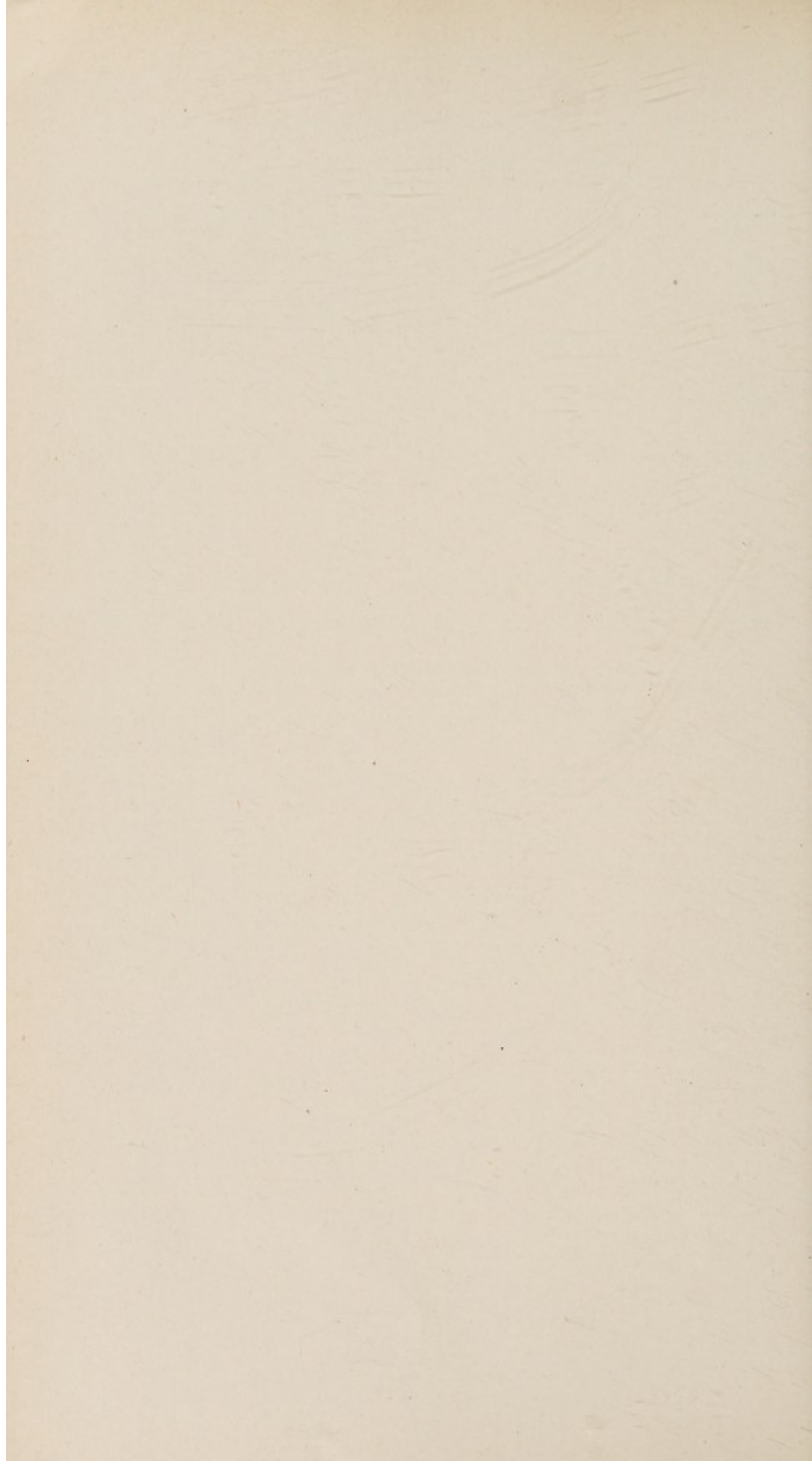








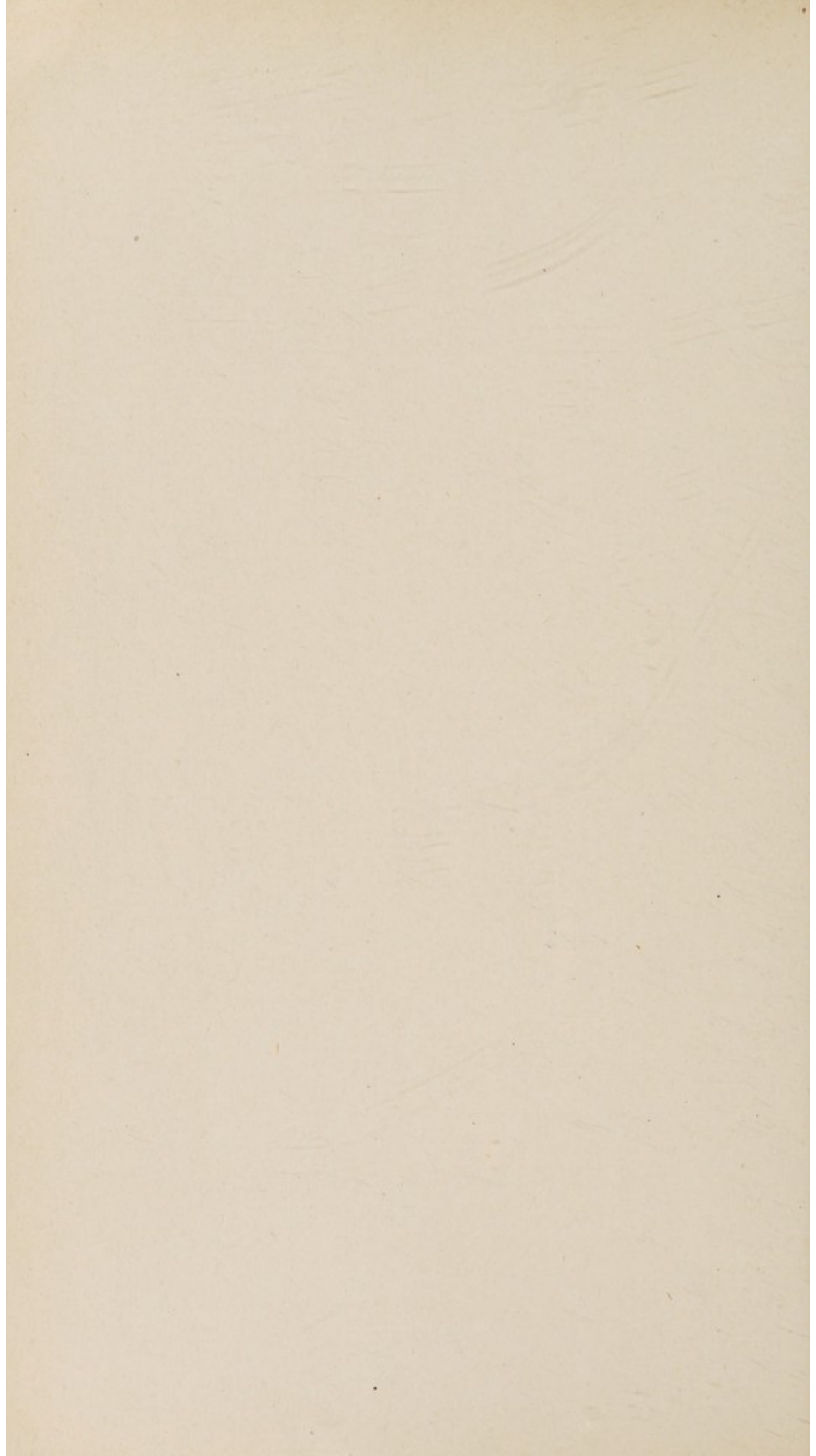




Vital Statistics Branch

DEPARTMENT OF PUBLIC HEALTH  
STATE OF MICHIGAN





ANNUAL REPORT  
OF THE  
**Vital Statistics Branch**  
OF THE  
DEPARTMENT OF PUBLIC HEALTH  
PROVINCE OF ALBERTA  
1943



ANNUAL REPORT  
1902  
Vital Statistics Branch  
of the  
Department of Health  
of the  
State of Virginia

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# VITAL STATISTICS BRANCH

(DONALD MACKIE, *Deputy Registrar General*)

This is the 39th Annual Report of the Vital Statistics of the Province of Alberta and is for the year 1943. This report shows a considerable increase in the birth rate, a decrease in the marriage rate, and an increase in the death rate. There were also increases in the infant mortality and maternal mortality rates.

The 1943 birth rate exceeds that of every year since 1930, and is the highest in Canada west of the Province of Quebec. This increase can probably be attributed to the high marriage rate of the three preceding years, and is probably merely a wartime boom with no implication of permanence.

The marriage rate is considerably down from the average of the three preceding years and is now about the normal rate for the pre-war years.

Deaths from epidemic and contagious diseases show a slight increase over the previous year, with the exception of Influenza, which shows a considerable increase. The death rate from Cancer is slightly decreased, whilst heart diseases again show an increase. Deaths by violence have risen considerably, mainly due to automobile and aeroplane accidents. Aeroplane accidents are explainable during wartime, but it is hard to understand why there should be a considerable increase in automobile accidents in view of a reduced speed limit and gasoline supply.

## POPULATION

The population of the Province of Alberta for the year 1943 has been estimated by the Dominion Bureau of Statistics at 792,000. All rates in this report have, therefore, been based on that figure.

## BIRTHS

The number of live births registered during the year is 19,290, being a birth rate of 24.3 per 1,000 population. This is 973 more than in the previous year, and is an increase of 1.6 in the rate. Of the total births, 9,840 were males and 9,450 were females, being a ratio of 1,041 males to each 1,000 females, which is about the average. There were 452 twins (226 sets) and 2 sets of triplets born during the year. Illegitimate births numbered 866, being 89 more than in the previous year, and constituting a rate of 4.4 per 100 births. Of the total births registered, 11,924 occurred in the cities and towns of over 1,000 population, 6,459 in the rural districts and 907 were Indians. In the four large cities the births were as follows: Edmonton 4,068, Calgary 2,731, Lethbridge 967, and Medicine Hat 609.

The foregoing figures indicate a considerable migration of the population to the cities and larger towns. In the year previous to the war, 1938, only 51 per cent of the births occurred in these larger centres as compared with 62 per cent during the year 1943.

For purposes of comparison, the following are the birth rates per 1,000 population for Canada, the Provinces, Great Britain and cer-



tain other countries. The rates for Canada and the Provinces are for 1943, whilst the rates for the other countries are for 1940.

## BIRTH RATES

Canada .....	24.0	British Columbia .....	20.9
Prince Edward Island .....	23.8	England and Wales .....	14.6
Nova Scotia .....	25.3	Scotland .....	17.1
New Brunswick .....	28.3	Northern Ireland .....	19.6
Quebec .....	28.6	Irish Free State .....	19.1
Ontario .....	20.6	Union of South Africa .....	25.4
Manitoba .....	22.6	New Zealand .....	21.2
Saskatchewan .....	22.0	U.S.A. ....	17.9
ALBERTA .....	24.3	Switzerland .....	15.2

## MARRIAGES

There were 7,771 marriages registered during the year. This number is 1,263 less than that of the previous year, and is 448 less than the average for the five preceding years. The marriage rate for the present year is 9.8 per 1,000 population.

Of the 7,771 marriages, 132 are brides of 16 years of age and under, 1,622 are between the ages of 17 and 19, and 3,925 between the ages of 20 and 24. There were 119 grooms and 60 brides over 60 years of age, 36 of these were grooms and 17 of these brides being over 70 years of age, whilst 13 grooms and 3 brides were over 75.

The number of marriages in the four largest cities are as follows: Edmonton 1,943, Calgary 1,764, Lethbridge 333, and Medicine Hat 354.

For purposes of comparison, the following are the marriage rates per 1,000 population for Canada, the Provinces, Great Britain and certain other countries. The rates for Canada and the Provinces are for 1943, whilst the rates for other countries are for 1940:

## MARRIAGE RATES

Canada .....	9.4	ALBERTA .....	9.8
Prince Edward Island .....	7.2	British Columbia .....	10.4
Nova Scotia .....	10.1	England and Wales .....	11.3
New Brunswick .....	8.6	Scotland .....	10.6
Quebec .....	9.8	Northern Ireland .....	7.6
Ontario .....	9.2	Irish Free State .....	5.1
Manitoba .....	9.5	New Zealand .....	11.3
Saskatchewan .....	7.3	Switzerland .....	7.7

## DIVORCES

Divorces granted by decree absolute during the year numbered 413, which is 33 more than in the previous year and is 114 more than the average for the preceding five years. 190 were granted to husbands and 223 to wives. In addition to the divorces, 10 decrees of nullity were issued.

## DEATHS

Deaths (including Indians) numbered 6,524, of which number 3,999 were males and 2,525 were females. This number is 433 more than in the previous year, and constitutes a death rate of 8.2 and is .7 more than in the previous year. There were 426 males and 375 females 80 years of age and over at the time of death, whilst 4 females were centenarians.

For purposes of comparison, the following are the death rates per 1,000 population for Canada, the Provinces, Great Britain and certain other countries. The rates for Canada and the Provinces are for 1943, whilst the rates for the other countries are for 1940:



## DEATH RATES

Canada .....	10.0	British Columbia .....	11.1
Prince Edward Island .....	10.0	England and Wales .....	14.3
Nova Scotia .....	10.6	Scotland .....	14.9
New Brunswick .....	10.6	Northern Ireland .....	14.6
Quebec .....	10.1	Irish Free State .....	14.2
Ontario .....	10.5	Union of South Africa .....	9.4
Manitoba .....	9.7	New Zealand .....	9.2
Saskatchewan .....	7.9	U.S.A. ....	10.8
ALBERTA .....	8.2	Switzerland .....	12.1

The chief cause of death is again Heart Disease, the rate being 194 per 100,000 population, as compared with 184 for the previous year. Most of these deaths occur in the older age groups. There is a small decrease in the deaths from Cancer, the rate being 94 as compared with 97 for the year 1942. There was an increase in the deaths from Pneumonia, the number being 407 as against 335 for the previous year, the respective rates being 51 and 41. Diseases of the Arteries caused 116 deaths as compared with 97 the previous year. The number of deaths from Influenza showed a considerable increase, the number being 153 as against 75 for the previous year, the respective rates being 19 and 9. Deaths from Pulmonary Tuberculosis showed an increase, the number being 224 as compared with 214 for the previous year, the rate being 28 and 26 respectively. During the last decennial period this disease has shown a decline, the rate ten years ago being 34. Puerperal causes accounted for 52 deaths, being 9 more than in the preceding year and constituting a rate of 6.6 per 100,000 population, or 2.7 per 1,000 live births as against 2.3 for the year 1942. Deaths by violence (excluding suicides) number 588 as against 483 for 1942, the respective rates being 73 and 59. Automobile accidents accounted for 84 deaths, being 22 more than in the previous year, whilst aeroplane accidents numbered 103, being 17 more. Deaths by drowning were 43, being 9 less than in 1942. Deaths in mines and quarries numbered 27 compared with 19 for the preceding year. Forestry and agriculture accounted for the same number of deaths as last year, namely, 52.

Table 25 shows certain principal causes of death during the year. Both the actual number and the rate per 100,000 population is given, together with the figures for the last ten-year period.

## INFANT DEATHS

There were 810 children died under one year of age compared with 696 for the preceding year, the respective rates per 1,000 births, being 42 and 38, Broncho-pneumonia and Influenza accounting for the large increase. Notwithstanding the increased number, the rate is the second lowest for the Canadian Provinces. There were no deaths from Poliomyelitis.

For purposes of comparison, the following are the infantile mortality rate for 1,000 births for Canada and the Provinces for the year 1943:

## INFANT MORTALITY RATES PER 1,000 BIRTHS

Canada .....	54	Ontario .....	42
Prince Edward Island .....	45	Manitoba .....	55
Nova Scotia .....	58	Saskatchewan .....	47
New Brunswick .....	68	ALBERTA .....	42
Quebec .....	67	British Columbia .....	38

## MATERNAL MORTALITY RATES PER 1,000 BIRTHS

Canada .....	2.8	Ontario .....	2.2
Prince Edward Island .....	4.6	Manitoba .....	2.4
Nova Scotia .....	3.7	Saskatchewan .....	2.5
New Brunswick .....	3.1	ALBERTA .....	2.7
Quebec .....	3.2	British Columbia .....	2.5



Deaths by suicide numbered 79, a decrease of 7 from the previous year, and deaths by murder and manslaughter numbered 6, being a decrease of 4.

Stillbirths numbered 328, being 9 less than the number for the previous year.

#### OVERSEAS DEATHS

Deaths of Alberta residents which occurred on active service overseas are now recorded with the Bureau of Vital Statistics in Edmonton. Registrations received for the years 1940 to 1943 are as follows:

1940 .....	27	1942 .....	295
1941 .....	91	1943 .....	562

## DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTICS PURPOSES

As the Province of Alberta is not divided into Counties, and the political divisions are not permanently fixed, it has been found advisable to use as smaller areas, the Dominion Census Divisions.

These Divisions are fixed, and as the population increases, may be subdivided without destroying their value for purposes of Vital Statistic comparison with preceding years.

The following table shows Census areas divided into Municipalities, Local Improvement Districts, Cities, Towns and Villages with the 1941 and 1936 official Division population figures.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-  
CIPALITIES FOR CENSUS YEARS, 1941 AND 1936

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1941	1936		1941	1936
<b>Province</b> .....	<b>796,169</b>	<b>772,782</b>	<b>Division No. 2—Continued:</b>		
<b>Division No. 1</b> .....	<b>29,595</b>	<b>29,699</b>	Towns—Continued :		
1 I.D. ....	57	93	Diamond City .....	(1)	143
2 I.D. ....	148	162	Granum .....	238	255
3 I.D. ....	169	172	Macleod .....	1,912	1,365
4 I.D. ....	521	555	Magrath .....	1,207	1,217
5 I.D. ....	1,067	1,251	Pincher Creek .....	994	999
6 I.D. ....	541	643	Raymond .....	2,089	2,094
31 I.D. ....	62	64	Villages:		
32 I.D. ....	511	592	Coaldale .....	290	255
33 Flowery Plains .....	487	533	Coalhurst .....	(1)	774
34 Burlington .....	953	958	Cowley .....	125	141
35 I.D. ....	376	430	Frank .....	204	258
36 Warner .....	1,871	1,305	Pincher City .....	(1)	38
61 I.D. ....	740	821	Stirling .....	437	392
62 I.D. ....	615	716	<b>Division No. 3</b> .....	<b>15,518</b>	<b>14,710</b>
63 I.D. ....	609	625	96 I.D. (Pt.) .....	536	1,234
64 Forty Mile .....	959	1,148	121 Many Islands .....	2,416	2,785
65 Eureka .....	1,098	1,190	122 Jubilee I.D. ....	1,690	2,020
66 I.D. ....	2,297	2,549	123 Bow Slope, I.D. (Pt.) .....	5,475	4,416
91 I.D. ....	1,164	1,170	125 I.D. ....	1,184	435
92 I.D. ....	890	974	127 I.D. (Pt.) .....	841	914
93 I.D. ....	738	890	241 Acadia (Pt.) .....	9	.....
94 Bow Island .....	535	614	Towns:		
Cities:			Bassano .....	582	574
Medicine Hat .....	10,571	9,592	Brooks .....	888	697
Towns:			Redcliff .....	1,111	990
Bow Island .....	291	308	Villages:		
Irvine .....	240	278	Duchess .....	149	150
Taber .....	1,331	1,341	Empress .....	341	303
Villages:			Enchant .....	76	83
Burdett .....	123	90	Jenner .....	27	49
Milk River .....	335	326	Retlaw .....	(1)	60
Warner .....	296	309	Tilley .....	193	.....
<b>Division No. 2</b> .....	<b>58,563</b>	<b>57,499</b>	<b>Division No. 4</b> .....	<b>29,383</b>	<b>28,285</b>
7 I.D. ....	432	330	96 I.D. (Pt.) .....	245	.....
8 I.D. ....	1,308	1,394	97 I.D. ....	2,939	2,933
9 I.D. ....	1,538	1,547	98 Little Bow .....	1,363	1,526
10 Cochrane .....	1,589	1,613	127 I.D. (Pt.) .....	738	867
37 Sugar City .....	2,391	2,192	128 Harmony .....	845	1,052
38 I.D. ....	1,282	1,176	129 Clear Lake .....	1,728	2,021
39 Kerr .....	1,602	1,830	130 I.D. ....	305	348
40 Castle River .....	614	606	131 I.D. ....	68	38
67 I.D. ....	4,709	4,635	157 Marquis .....	1,386	1,773
68 I.D. ....	2,849	2,467	158 Royal .....	1,367	1,580
69 Bright .....	1,153	1,198	159 Riley .....	1,721	1,834
70 Livingstone .....	1,217	1,466	160 I.D. ....	2,422	676
71 I.D. ....	4,149	4,369	161 I.D. ....	67	43
99 Argyle .....	1,714	1,811	189 Dinton .....	1,576	1,887
100 I.D. ....	585	571	190 Sheep Creek .....	1,831	1,978
101 I.D. ....	162	173	191 Stockland .....	3,706	2,957
Waterton National Park .....	269	.....	192 I.D. ....	6	9
Indian Reserves .....	2,162	1,991	193 I.D. ....	2	.....
Cities:			Towns:		
Lethbridge .....	14,612	13,523	High River .....	1,430	1,359
Towns:			Nanton .....	718	709
Blairmore .....	1,731	1,682	Okotoks .....	591	571
Cardston .....	1,864	1,711	Stavely .....	273	301
Claresholm .....	1,265	1,051	Vulcan .....	732	869
Coleman .....	1,870	2,129			



POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1941 AND 1936—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1941	1936		1941	1936
<b>Division No. 4—Continued:</b>			<b>Division No. 6—Continued:</b>		
Villages:			Villages:		
Arrowwood .....	251	252	Albert Park .....	(1)	332
Barons .....	233	264	Beiseker .....	240	230
Black Diamond .....	890	657	Carbon .....	409	374
Blackie .....	223	225	Carstairs .....	371	356
Carmangay .....	229	234	Cluny .....	138	142
Cayley .....	133	135	Cochrane .....	298	336
Champion .....	320	328	Crossfield .....	409	333
Lomond .....	129	127	Forest Lawn .....	899	471
Milo .....	129	136	Hussar .....	116	104
Nobleford .....	111	117	Irricana .....	172	160
Turner Valley .....	676	475	Langdon .....	95	101
<b>Division No. 5</b>			<b>Division No. 7</b>		
214 I.D. ....	1,436	1,793	305 I.D. (Pt.) .....	147	168
241 Acadia (Pt.) .....	739	826	331 I.D. (Pt.) .....	3,012	3,005
242 I.D. ....	2,506	1,176	334 Coronation .....	1,840	1,941
273 I.D. ....	553	345	362 Hillcrest .....	986	1,176
276 I.D. (Pt.) .....	2,428	2,436	363 Stocks .....	935	1,173
277 Michichi .....	1,118	1,290	364 Flagstaff .....	1,530	1,796
305 I.D. (Pt.) .....	2,986	1,285	365 Progress .....	2,002	2,262
306 Lambton .....	1,269	1,390	391 Sifton .....	1,688	1,477
307 Starland .....	1,248	1,297	392 Vale .....	835	1,044
331 I.D. (Pt.) .....	1,277	.....	393 Huamha .....	1,041	1,275
Towns:			394 Asquith .....	1,043	1,235
Hanna .....	1,622	1,405	395 Wheatland .....	1,692	1,809
Villages:			421 Ribstone .....	1,416	1,644
Cereal .....	142	131	422 Gilt Edge .....	1,489	1,767
Chinook .....	142	134	423 Battle River .....	1,399	1,530
Craigmyle .....	186	214	424 Kinsella .....	1,105	1,240
Delia .....	315	279	425 Sterling .....	1,873	2,049
Morrin .....	216	146	455 Iron Creek .....	2,079	2,270
Munson .....	139	146	Buffalo National Park .....	4	.....
Oyen .....	326	298	Towns:		
Richdale .....	(1)	38	Castor .....	625	592
Rumsey .....	90	81	Coronation .....	581	605
Youngstown .....	188	187	Hardisty .....	457	524
<b>Division No. 6</b>			<b>Wainwright .....</b>		
123 Bow Slope I.D. (Pt.) .....	668	547		980	1,048
217 I.D. ....	555	704	Villages:		
218 Blackfoot .....	1,451	1,528	Alliance .....	233	263
219 Bow Valley .....	1,456	1,738	Cadogan .....	99	84
220 Shepard .....	2,134	2,057	Chauvin .....	343	321
221 Springbank .....	3,241	2,539	Compeer .....	(1)	88
222 I.D. ....	489	471	Consort .....	265	252
223 I.D. ....	1,546	.....	Czar .....	139	138
247 I.D. ....	893	958	Edgerton .....	258	222
248 Grasswold .....	1,400	1,421	Forestburg .....	231	226
249 Keoma .....	1,613	1,518	Galahad .....	145	152
250 Beddington .....	2,139	2,259	Hughenden .....	164	203
251 I.D. ....	1,314	1,472	Irma .....	273	240
252 I.D. ....	333	350	Killam .....	347	329
253 283 I.D. ....	.....	.....	Lougheed .....	195	217
276 I.D. (Pt.) .....	4,061	2,850	Monitor .....	82	99
278 Carbon .....	1,580	1,896	Provost .....	518	490
279 Norquay .....	2,184	2,342	Sedgewick .....	320	353
280 Rosebud .....	2,233	2,366	Strome .....	233	210
281 Beaver Dam .....	2,327	2,282	Veteran .....	190	180
282 I.D. ....	1,085	953	Viking .....	491	480
308 Ghost Pine .....	2,023	2,340	<b>Division No. 8</b>		
309 Stauffer .....	2,310	2,327	336 Success .....	67,630	65,439
310 Mountain View .....	2,580	2,748	337 Vimy .....	1,389	1,427
311 Westerdale .....	2,660	2,631	338 Hays .....	947	1,015
Banff National Park .....	358	.....	339 Pine Lake .....	2,702	2,736
Banff .....	2,187	2,037	340 Arthur .....	2,726	2,442
Indian Reserves .....	1,859	1,882	366 Dublin .....	2,364	2,487
Cities:			367 Waverly .....	1,257	1,322
Calgary .....	88,904	83,407	396 Haig .....	1,893	2,061
Drumheller .....	2,748	2,912	397 Lakeside .....	1,554	1,572
Towns:			398 Lamerton .....	1,673	1,615
Didsbury .....	892	846	399 Crown .....	2,479	2,600
Gleichen .....	435	458	426 Melrose .....	4,104	4,105
Olds .....	1,337	1,197		2,955	2,874
Strathmore .....	560	531			
Three Hills .....	706	659			
Villages:					
Acme .....	285	291			
Airdrie .....	191	214			



## POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1941 AND 1936—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1941	1936		1941	1936
<b>Division No. 8—Continued:</b>			<b>Division No. 10</b>	58,807	61,358
427 Evergreen	2,730	2,788	451 Merton	1,682	1,948
428 Water Glen	1,486	1,510	452 Grizzly Bear	1,368	1,553
429 Fertile Valley	4,749	4,512	453 Buffalo Coulee	1,370	1,554
456 Parkland	2,879	2,858	454 Lakeview	1,358	1,548
457 Lloyd George	2,901	2,973	481 Wellington	1,794	2,124
458 Montgomery	3,486	3,553	482 Vermilion Valley	1,872	2,052
459 Bigstone (Pt.)	3,777	3,452	483 Melberta	1,894	2,019
Indian Reserves	1,242	1,199	484 Birch Lake	2,430	2,478
Cities:			485 Patricia	2,109	2,284
Red Deer	2,924	2,384	486 Beaver Lake	3,094	3,168
Wetaskiwin	2,318	2,058	511 Streamstown	2,420	2,641
Towns:			512 Ethelwyn	3,158	3,302
Big Valley	291	359	513 Ukraine	3,179	3,365
Camrose	2,598	2,263	514 Sobor	3,279	3,460
Daysland	438	366	515 Norma	3,027	3,301
Innisfail	1,223	1,124	516 The Pines	3,547	3,702
Lacombe	1,603	1,414	545 Eagle	4,150	4,255
Ponoka	1,306	1,045	546 Wostok	4,653	4,733
Stettler	1,295	1,202	547 Leslie	3,598	3,666
Villages:			Towns:		
Alix	360	335	Lloydminster (Pt.)	572	498
Bashaw	494	423	Vegreville	1,696	1,672
Bawlf	227	236	Vermilion	1,408	1,291
Bittern Lake	50	32	Villages:		
Blackfalds	113	105	Andrew	326	137
Botha	111	98	Bruderheim	237	253
Clive	224	242	Chipman	240	249
Delburne	308	236	Derwent	171	144
Donalda	206	182	Holden	361	273
Edberg	132	110	Innisfree	253	245
Elnora	195	149	Islay	132	155
Erskine	172	164	Kitscoty	234	254
Ferintosh	169	120	Lamont	438	470
Gadsby	141	139	Lavoy	178	151
Gull Lake	21	.....	Mannville	396	370
Halkirk	118	139	Minburn	129	132
Millet	325	357	Mundare	756	777
Mirror	570	585	Myrnam	216	159
New Norway	169	177	Ranfurlly	129	112
Ohaton	53	46	Ryley	323	268
Penhold	183	94	Two Hills	210	200
			Willingdon	420	395
<b>Division No. 9</b>	32,232	29,859	<b>Division No. 11</b>	149,193	139,017
312 Waterloo	1,402	1,343	459 Bigstone (Pt.)	39	.....
313, 314 I.D.	12	.....	487 Cornhill	2,997	2,936
341 Poplar Grove	3,113	3,003	488 Black Mud	4,239	4,005
342 Raven	2,254	2,242	489 Liberty	4,883	4,993
343 I.D.	833	846	490 Pioneer	3,619	3,223
344 I.D.	72	74	491 I.D.	1,479	1,226
371 Golden West	2,622	2,526	517 Clover Bar	2,740	2,997
374, 375 I.D.	6	.....	518 Strathcona	3,985	3,871
376 I.D.	768	.....	519 Spruce Grove	4,824	4,251
400 Lorne	2,670	2,584	520 Inga	3,013	3,096
401 Lochearn	3,037	2,913	521 Tomahawk	2,198	1,705
403 I.D.	437	363	548 Sturgeon	5,115	4,911
430 Blindman	1,800	1,599	549 Ray	3,542	3,523
431 Last West	1,898	1,736	550 Woodford	3,045	2,960
432 I.D.	135	53	551 Morthen	2,635	2,763
433 I.D.	114	164	Elk Island National Park	50	.....
434 I.D.	240	287	Indian Reserves	997	954
435 I.D.	8	.....	Cities:		
436 I.D.	3	.....	Edmonton	93,817	85,774
460 Columbia	1,951	1,646	Towns:		
461 I.D.	1,486	1,127	Beverly	981	998
462 I.D.	440	307	Fort Saskatchewan	903	899
463 I.D.	102	90	Leduc	871	926
446, 465, 468 I.D.	2	.....	Morinville	580	554
466 I.D. (Pt.)	2,014	1,790	St. Albert	697	811
Jasper National Park	287	.....	Stony Plain	566	499
Jasper	1,335	1,322	Tofield	551	544
Unorganized	4	1,094	Villages:		
Towns:			Alberta Beach	59	57
Rocky Mountain House	800	652	Hay Lakes	154	156
Villages:			Kapasiwin	.....	.....
Bentley	279	250	Onoway	156	128
Bowden	234	270	Sangudo	173	.....
Eckville	135	159	Seba Beach	84	59
North Red Deer	524	359	Wabamun	201	198
Rimbey	410	313			
Sylvan Lake	805	652			



POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1941 AND 1936—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1941	1936		1941	1936
<b>Division No. 12</b> .....	<b>17,431</b>	<b>16,024</b>	<b>Division No. 14—Continued :</b>		
466 I.D. (Pt.) .....	1,803	1,704	638 Nelson .....	1,808	1,701
493 I.D. ....	34	26	639 I.D. ....	903	848
495, 498, 524 I.D. ....	94	.....	640 I.D. ....	1,029	953
522 I.D. ....	2,004	1,728	665 I.D. ....	1,412	1,151
523 I.D. ....	99	87	667 I.D. ....	1,941	1,622
525 I.D. ....	43	24	668 Grosmont .....	863	805
526 I.D. ....	225	136	669 I.D. ....	281	212
527 I.D. ....	344	490	696 I.D. ....	695	506
528 I.D. ....	30	.....	697 I.D. ....	588	572
552 Pembina .....	2,667	2,431	698 I.D. ....	63	34
553 I.D. ....	1,318	1,037	699 I.D. ....	476	459
554 I.D. ....	1,001	870	726 I.D. ....	489	396
555 I.D. ....	930	733	727 I.D. ....	57	86
556 I.D. ....	291	240	728 I.D. ....	79	26
558 I.D. ....	44	59	729 I.D. ....	167	218
559, 560 I.D. ....	4	.....	<b>Towns:</b>		
582 Kitchener .....	2,458	2,478	Athabasca .....	578	608
583 I.D. ....	889	759	<b>Villages:</b>		
584 I.D. ....	690	574	Barrhead .....	399	307
585 I.D. ....	37	.....	Clyde .....	160	153
588 I.D. ....	7	.....	Lac la Biche .....	517	410
590 I.D. (Pt.) .....	33	.....	Legal .....	462	394
612 I.D. ....	409	472	Smoky Lake .....	430	428
615 I.D. ....	43	18	Waskatenau .....	237	241
<b>Towns:</b>			Westlock .....	590	507
Edson .....	1,499	1,600	<b>Division No. 15</b> .....	<b>17,484</b>	<b>15,739</b>
<b>Villages:</b>			590 I.D. (Pt.) .....	64	.....
Entwistle .....	218	150	613 I.D. ....	149	182
Mayerthorpe .....	217	209	614, 618, 619, 646 I.D. ....	6	.....
<b>Division No. 13</b> .....	<b>33,172</b>	<b>30,602</b>	622, 623, 650, 651 I.D. ....	54	.....
541 I.D. ....	740	910	641 I.D. ....	875	804
542 Lincoln .....	1,221	1,249	642 I.D. ....	8	22
543 Laurier .....	3,066	3,141	670 I.D. ....	42	.....
544 Champlain .....	2,213	2,399	675, 676, 677, 678, 679 I.D. ....	1	.....
571 I.D. ....	359	267	700, 702, 704 I.D. ....	15	.....
572 Bonnyville .....	1,867	1,859	705 I.D. ....	28	24
573 St. Vincent .....	3,316	2,951	706 I.D. ....	416	292
574 St. Lina .....	1,347	1,146	707 I.D. ....	203	209
575 Vilna .....	3,590	3,903	708 I.D. ....	93	84
601 I.D. ....	1,466	1,195	709 I.D. ....	93	31
602 I.D. ....	1,949	1,567	710 I.D. ....	83	82
603 I.D. ....	1,311	1,016	730 I.D. ....	158	156
604 I.D. ....	721	640	731 I.D. ....	698	431
605 Ashmont .....	1,993	1,814	732 I.D. ....	758	670
631 I.D. ....	1,007	951	733 I.D. ....	931	678
632 I.D. ....	18	5	734 I.D. ....	93	112
633 I.D. ....	131	44	735 I.D. ....	248	164
634 I.D. ....	280	255	736 I.D. ....	135	56
635 I.D. ....	1,191	915	737 I.D. ....	92	61
663 I.D. ....	11	17	738 I.D. ....	730	621
664 I.D. ....	39	22	764 I.D. ....	1,087	1,420
666 I.D. ....	751	545	765 I.D. ....	1,384	1,176
695 I.D. ....	353	308	766 I.D. ....	601	534
<b>Other Parts</b> .....	<b>6</b>	<b>.....</b>	767 I.D. ....	114	84
<b>Indian Reserves</b> .....	<b>1,859</b>	<b>1,720</b>	794 I.D. ....	204	180
<b>Towns:</b>			795 I.D. ....	873	802
St. Paul .....	1,018	950	796 I.D. ....	2,757	2,791
<b>Villages:</b>			825 I.D. ....	275	251
Bellis .....	128	127	826 I.D. ....	974	764
Bonnyville .....	603	433	855 I.D. ....	580	577
Elk Point .....	307	.....	<b>Unorganized</b> .....	<b>44</b>	<b>148</b>
Vilna .....	311	253	<b>Indian Reserves</b> .....	<b>1,154</b>	<b>963</b>
<b>Division No. 14</b> .....	<b>47,899</b>	<b>45,790</b>	<b>Towns:</b>		
576 Smoky Lake .....	3,974	4,319	Peace River .....	873	883
577 Unity .....	4,798	4,871	<b>Villages:</b>		
578 Opal .....	3,166	3,318	Falher .....	244	284
579 Hazelwood .....	3,491	3,627	Grouard .....	347	185
580 Lockerbie .....	3,032	2,845	<b>Division No. 16</b> .....	<b>30,349</b>	<b>29,204</b>
581 Pershing .....	2,283	2,158	739 Grande Prairie .....	2,307	2,388
606 I.D. ....	74	148	740 Bear Lake .....	2,622	2,815
607 I.D. ....	2,189	1,828	741 I.D. ....	1,644	1,599
608 Tawatinauw .....	2,256	2,223	742 I.D. ....	468	466
609 Pibroch .....	2,476	2,380	769 I.D. ....	731	661
610 Shoal Creek .....	2,775	2,553	770 I.D. ....	1,062	981
611 I.D. ....	1,088	909	771 I.D. ....	1,946	1,850
636 I.D. ....	675	540	772 I.D. ....	1,221	1,193
637 Cartier .....	1,397	1,413	797 I.D. ....	884	658

## POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1941 AND 1936—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1941	1936		1941	1936
<b>Division No. 16—Continued:</b>			<b>Division No. 16—Continued:</b>		
800 I.D. ....	393	336	919 I.D. ....	80	.....
801 I.D. ....	93	173	920 I.D. ....	131	.....
827 I.D. ....	166	126	Indian Reserves .....	161	83
828 I.D. ....	546	633	Towns:		
829 Spirit River .....	1,828	1,890	Grande Prairie .....	1,724	1,478
830 I.D. ....	1,022	878	Villages:		
831 I.D. ....	538	520	Beaverlodge .....	331	203
857 Peace .....	2,003	2,155	Berwyn .....	206	.....
858 Fairview .....	2,326	2,443	Clairmont .....	102	104
859 I.D. ....	824	705	Fairview .....	432	393
860 I.D. ....	10	.....	Grimshaw .....	169	129
861 I.D. ....	28	.....	Hythe .....	247	260
886 I.D. ....	516	497	Sexsmith .....	325	298
887 I.D. ....	666	744	Spirit River .....	276	234
888 I.D. ....	564	597	Wembley .....	188	173
889 I.D. ....	681	574	<b>Division No. 17 .....</b>	<b>9,712</b>	<b>8,713</b>
890 I.D. ....	62	58	Remainder of the Province		
891 I.D. ....	164	114	comprising Northern Parts	7,205	5,465
916 I.D. ....	268	237	Indian Reserves .....	2,507	3,248
917 I.D. ....	394	338			

NOTE: (1) Disorganized; I.D.=Improvement District; (Pt.): Part.



TABLE 1.—GENERAL SUMMARY OF BIRTHS, DEATHS AND MARRIAGES IN THE PROVINCE OF ALBERTA BY DIVISIONS, CITIES AND TOWNS OF 1,000 POPULATION AND OVER, 1943

Divisions, Cities and Towns	Births (Exclusive of Still-births)		DEATHS						Stillbirths	Marriages				
	Total	M.	All Ages		Under 1 year		1-4 years				5 years and over			
			Total	M.	F.	M.	F.	M.			F.	M.	F.	
														Total
<b>TOTAL FOR THE PROVINCE</b>	19290	9840	9450	6524	3999	2525	468	342	121	102	3410	2081	328	7771
Division No. 1	759	386	373	213	134	79	10	6	6	3	118	70	12	419
Division No. 2	1981	1029	952	559	342	217	47	36	8	11	287	170	31	688
Division No. 3	284	154	130	72	45	27	6	6	2	1	38	21	4	90
Division No. 4	506	272	234	175	117	58	8	9	2	1	107	48	7	120
Division No. 5	205	92	113	100	70	30	6	2	2	2	62	26	2	75
Division No. 6	3600	1854	1746	1498	900	598	77	53	17	13	806	532	82	2093
Division No. 7	786	402	384	207	121	86	8	8	1	1	112	77	13	206
Division No. 8	1765	894	871	663	409	254	43	35	17	8	349	211	26	597
Division No. 9	460	239	221	170	116	54	20	7	8	5	88	42	6	111
Division No. 10	1013	504	509	312	177	135	26	17	1	7	150	111	19	409
Division No. 11	4359	2204	2155	1557	966	591	84	71	24	13	858	507	64	2168
Division No. 12	243	121	122	68	41	27	8	7	.....	.....	33	20	2	50
Division No. 13	825	436	389	218	125	93	38	21	4	11	83	61	17	176
Division No. 14	1010	518	492	247	145	102	22	18	9	5	114	79	14	222
Division No. 15	484	241	243	161	97	64	25	22	11	7	61	35	15	109
Division No. 16	662	325	337	174	117	57	18	11	4	2	95	44	14	164
Division No. 17	348	169	179	130	77	53	22	13	6	13	49	27	.....	74
<b>CITIES:</b>														
Calgary	2731	1404	1327	1038	608	430	47	33	9	5	552	392	61	1764
Drumheller	213	118	95	62	32	30	5	5	.....	.....	27	24	6	60
Edmonton	4068	2065	2003	1279	775	504	66	59	20	10	689	435	57	1943
Lethbridge	967	502	465	245	158	87	25	16	5	3	128	68	10	333
Medicine Hat	609	306	303	142	87	55	5	6	4	.....	78	49	11	354
Red Deer	298	155	143	66	42	24	11	3	.....	.....	31	21	4	149
Wetaskiwin	282	139	143	66	44	22	7	2	1	1	36	19	2	65
<b>TOWNS:</b>														
Blairmore	51	28	23	10	5	5	1	.....	.....	.....	4	5	.....	32
Camrose	311	150	161	64	42	22	4	4	1	.....	37	18	3	76
Cardston	183	91	92	36	12	24	1	1	1	2	10	18	3	87
Claresholm	139	64	75	29	19	10	1	2	.....	.....	18	8	2	22
Coleman	65	32	33	19	13	6	2	3	.....	.....	11	3	1	34

Edson .....	90	45	13	9	4	3	1	2	.....	6	3	2	29
Grande Prairie .....	214	96	53	33	20	3	4	.....	28	16	6	6	74
Hanna .....	137	64	40	28	12	5	1	1	23	10	1	1	31
High River .....	207	116	91	42	13	2	2	.....	27	11	1	1	36
Innisfail .....	159	81	47	27	20	3	1	.....	24	19	2	2	25
Lacombe .....	240	131	49	33	16	2	3	.....	31	11	8	8	62
Macleod .....	98	52	36	21	15	1	2	.....	20	11	4	4	58
Magrath .....	46	27	19	9	4	3	.....	.....	2	4	.....	.....	7
Olds .....	103	52	28	20	8	4	1	.....	16	7	.....	.....	43
Ponoka .....	30	12	107	60	47	1	1	.....	59	45	2	2	34
Raymond .....	24	11	15	6	9	.....	1	.....	6	8	.....	.....	19
Redcliff .....	1	1	3	2	1	1	.....	.....	1	1	.....	.....	9
St. Paul .....	110	51	22	12	10	3	2	.....	7	6	3	3	29
Stettler .....	173	88	49	35	14	3	2	.....	32	12	3	3	41
Taber .....	60	33	19	8	11	3	.....	.....	5	9	.....	.....	30
Vegreville .....	189	98	44	22	22	2	2	.....	20	19	3	3	42
Vermillion .....	126	68	31	15	16	4	1	.....	11	15	4	4	43



TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS,  
IN ALBERTA, 1943

	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
<b>ALBERTA</b> .....	19290	1467	1492	1673	1676	7715	1670	1789	1603	1655	1604	1445	1501
Rural .....	7366	567	601	642	650	631	639	711	609	622	578	550	566
Urban .....	11924	900	891	1031	1026	1084	1031	1078	994	1033	1026	895	935
<b>DIVISION No. 1—MEDICINE HAT</b> .....	759	46	59	65	62	70	57	76	70	58	68	58	70
Rural .....	90	3	13	8	9	11	6	7	7	7	8	7	5
Urban .....	669	43	46	57	53	59	51	70	63	51	60	51	65
City of Medicine Hat .....	609	41	45	55	52	58	49	64	61	49	52	39	44
Town of Taber .....	60	2	1	2	1	2	2	6	2	2	8	12	21
<b>DIVISION No. 2—MACLEOD</b> .....	1981	139	157	167	190	186	166	183	163	171	156	148	155
Rural .....	408	30	31	45	32	34	40	32	31	36	26	35	36
Urban .....	1573	109	126	122	158	152	126	151	132	135	130	113	119
City of Lethbridge .....	967	60	76	77	94	86	81	91	91	93	79	63	76
Town of Blairmore .....	51	2	4	2	10	4	2	7	6	2	4	5	3
Cardston .....	183	9	22	10	15	24	21	15	14	17	15	7	14
Clareholm .....	139	15	9	9	16	21	6	12	8	7	11	14	11
Coleman .....	65	8	3	4	4	3	6	9	3	5	5	6	9
Macleod .....	98	7	6	14	12	7	7	11	7	8	7	9	3
Magrath .....	46	2	6	5	5	4	3	2	2	2	4	9	2
Raymond .....	24	6	.....	1	2	3	.....	4	1	1	5	.....	1
<b>DIVISION No. 3—BOW</b> .....	284	17	23	24	32	20	23	32	25	29	26	14	19
Rural .....	283	17	23	24	31	20	23	32	25	29	26	14	19
Urban .....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Town of Redcliff .....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
<b>DIVISION No. 4—NANTON</b> .....	506	50	39	30	44	39	43	55	39	47	32	36	52
Rural .....	299	27	24	20	30	18	19	39	32	25	21	24	30
Urban .....	207	23	15	10	14	21	24	16	17	22	11	12	22
Town of High River .....	207	23	15	10	14	21	24	16	17	22	11	12	22
<b>DIVISION No. 5—ACADIA</b> .....	205	13	16	18	22	21	18	18	15	20	19	15	10
Rural .....	68	5	8	7	4	7	6	7	5	2	4	6	7
Urban .....	137	8	8	11	18	14	12	11	10	18	15	9	3
Town of Hanna .....	137	8	8	11	18	14	12	11	10	18	15	9	3

<b>DIVISION No. 6—CALGARY</b>	3600	289	276	348	293	308	324	326	294	256	320	254	282
Rural	553	49	47	44	48	53	51	50	39	40	47	40	45
Urban	3047	240	229	304	245	255	273	276	255	246	273	214	237
City of Calgary	2731	214	210	279	221	228	254	240	227	219	243	190	206
Drumheller	213	19	10	17	14	20	16	29	18	18	20	15	17
Town of Olds	103	7	9	8	10	7	3	7	10	9	10	9	14
<b>DIVISION No. 7—BATTLE RIVER</b>	786	51	66	69	58	62	85	83	61	64	68	60	59
Rural	786	51	66	69	58	62	85	83	61	64	68	60	59
<b>DIVISION No. 8—RED DEER</b>	1765	135	110	173	137	162	170	167	141	163	138	135	134
Rural	272	22	21	35	20	22	22	24	22	29	14	24	17
Urban	1493	113	89	138	117	140	148	143	119	134	124	111	117
City of Red Deer	298	21	17	30	19	22	32	30	24	33	22	21	27
Wetaskiwin	282	21	17	30	27	31	23	26	22	30	18	16	21
Town of Camrose	311	24	27	33	28	33	28	33	20	25	28	24	22
Innisfail	159	10	7	16	10	14	10	10	15	13	14	17	12
Lacombe	240	23	14	20	14	21	24	23	24	20	15	22	20
Ponoka	30	1	1	3	2	3	1	5	2	4	5	1	2
Stettler	173	11	12	15	18	16	19	16	12	9	22	10	13
<b>DIVISION No. 9—ROCKY MOUNTAIN HOUSE</b>	460	29	38	36	50	36	35	44	40	33	43	37	39
Rural	460	29	38	36	50	36	35	44	40	33	43	37	39
<b>DIVISION No. 10—VICTORIA</b>	1013	83	84	82	88	85	96	103	70	106	72	53	91
Rural	698	61	58	53	64	58	69	70	46	78	52	33	56
Urban	315	22	26	29	24	27	27	33	24	28	20	20	35
Town of Vegreville	189	12	20	19	15	17	13	16	10	17	15	12	23
Vermilion	126	10	6	10	9	10	14	17	14	11	5	8	12
<b>DIVISION No. 11—EDMONTON</b>	4379	329	342	347	388	396	359	381	368	386	400	345	318
Rural	291	24	18	25	26	28	24	33	26	28	28	18	13
Urban	4058	305	324	322	362	368	335	348	342	358	372	327	305
City of Edmonton	4068	305	324	322	362	368	335	348	342	358	372	327	305
<b>DIVISION No. 12—EDSON</b>	243	15	19	27	23	29	20	16	19	28	14	18	13
Rural	153	11	15	18	12	21	11	9	15	15	10	9	7
Urban	96	4	4	9	11	8	9	7	4	13	4	9	8
Town of Edson	90	4	4	9	11	8	9	7	4	13	4	9	8
<b>DIVISION No. 13—BEAVER RIVER</b>	825	65	68	61	65	84	61	89	82	55	63	72	69
Rural	715	57	59	52	52	62	49	83	73	48	61	64	55
Urban	110	8	9	9	13	22	12	6	9	7	2	8	5
Town of St. Paul	110	8	9	9	13	22	12	6	9	7	2	8	5
<b>DIVISION No. 14—STURGEON</b>	1010	69	67	91	98	90	95	88	98	91	73	79	71
Rural	1010	69	67	91	98	90	95	88	98	91	73	79	71



TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS,  
IN ALBERTA, 1943—Continued

	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
<b>DIVISION No. 15—CLEARWATER</b>	484	35	46	37	53	46	36	47	36	41	31	35	41
Rural	484	35	46	37	53	46	36	47	36	41	31	35	41
<b>DIVISION No. 16—PEACE RIVER</b>	662	59	52	61	48	48	56	56	56	61	51	58	56
Rural	448	34	37	41	38	30	42	39	37	40	36	37	37
Urban	214	25	15	20	10	18	14	17	19	21	15	21	19
Town of Grande Prairie	214	25	15	20	10	18	14	17	19	21	15	21	19
<b>DIVISION No. 17—ATHABASCA</b>	348	43	30	37	25	33	26	25	26	16	30	28	29
Rural	348	43	30	37	25	33	26	25	26	16	30	28	29

TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE FOR THE PROVINCE AND IN CITIES OF 5,000 POPULATION AND OVER, 1943

Province and Cities	Total Births			Legitimate			Illegitimate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
<b>TOTAL FOR THE PROVINCE</b> .....	19290	9846	9450	18424	9418	9006	866	422	444
CITIES of 5,000 and over:									
Calgary .....	2731	1404	1327	2516	1292	1224	215	112	103
Edmonton .....	4068	2065	2003	3744	1919	1825	324	146	178
Lethbridge .....	967	502	465	945	488	457	22	14	8
Medicine Hat .....	609	306	303	599	300	299	10	6	4

TABLE 4.—PLURAL BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDREN BORN ALIVE AND STILLBORN BY SEX, IN ALBERTA, 1943

Classification of Births	Number
<b>CASES OF TWINS</b> .....	226
Two males (both living) .....	75
One male and one female (both living) .....	65
Two females (both living) .....	71
One male living and one male stillborn .....	4
One male stillborn and one female living .....	3
One female living and one female stillborn .....	4
Two males (both stillborn) .....	3
One male and one female (both stillborn) .....	1
<b>CASES OF TRIPLETS</b> .....	2
Three males (all living) .....	1
One male and two females (all living) .....	1
<b>Total multiple births</b> .....	Number 228
	Male 237
	Female 221
<b>Total single live births</b> .....	Number 18851
	Male 9617
	Female 9234
<b>Total single stillbirths</b> .....	Number 309
	Male 163
	Female 146
<b>Total confinements</b> .....	19388























TABLE 8.—TOTAL LIVE BIRTHS AND LIVE BIRTHS IN INSTITUTIONS, SHOWING THE NUMBER OF MOTHERS NON-RESIDENT IN ALBERTA, 1943

	All Live Births		In Institutions	
	Total	Mothers Non-resident in Province	Total	Mothers Non-resident in Province
Total for the Province .....	19,290	211	15,999	200

TABLE 9.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) TO RESIDENT AND NON-RESIDENT MOTHERS AND BIRTHS IN INSTITUTIONS, IN CITIES OF 5,000 POPULATION AND OVER, IN ALBERTA, 1943

Cities	All Births			Births in Institutions			Births elsewhere than in Institutions		
	Total	To resident mothers	To mothers non-resident in city or town where birth occurred and	Total	To resident mothers	To mothers non-resident in city or town where birth occurred and	Total	To resident mothers	To mothers non-resident in city or town where birth occurred and
			Resident in Province			Resident in Province			Resident in Province
Calgary .....	2731	2063	636	2698	2036	630	33	27	6
Edmonton .....	4068	2461	1566	4036	2439	1557	32	22	9
Lethbridge .....	967	366	593	964	364	592	8	2	1
Medicine Hat .....	609	319	257	589	315	241	33	4	16









160 Injury at birth	56	34	22	3	1	4	3	4	2	3	1	3	2	2	3	2	3	2	2	3	2	1	3	1	3	4
161 Other diseases peculiar to the first year of life	50	27	23	2	2	2	1	3	1	2	3	2	2	2	2	2	3	3	3	2	2	1	3	1	1	2
166-168 Homicides	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
169-195, 197 Other violent deaths	25	15	10	4	4	4	2	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Other specified causes	16	7	9	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2
199, 200 Ill-defined and unknown causes of death	16	12	4	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2

TABLE 12.—INFANTILE DEATH AND STILLBIRTH RATES, ALSO NUMBER OF BIRTHS WITH OR WITHOUT A PHYSICIAN, BY DIVISIONS AND CITIES, 1943

Divisions and Cities	Death rate of children under one year of age to each 1,000 births					Births with or without a physician in attendance			Rates of stillborn children to 1,000 live births		
	Rate per 1000 live births	Number of deaths	Total births	Births with or without a physician in attendance		Number of stillbirths	Rate per 1000 live births	Births with or without a physician in attendance		Number of stillbirths	Rate per 1000 live births
				With physician	Without physician			With physician	Not stated		
Division No. 1—Medicine Hat (City of Medicine Hat excepted)	33	5	150	81	59	10	1	6.7			
Division No. 2—Macleod (City of Lethbridge excepted)	41	42	1014	903	97	14	21	20.7			
Division No. 3—Bow	42	261	22	261	4	1	4	14.1			
Division No. 4—Nanton	34	17	506	483	22	1	7	13.8			
Division No. 5—Acadia	39	8	205	194	9	2	2	9.8			
Division No. 6—Calgary (Cities of Calgary and Drumheller excepted)	61	40	656	548	101	7	15	22.9			
Division No. 7—Battle River	20	16	786	774	12	11	13	16.5			
Division No. 8—Red Deer (Cities of Red Deer and Wetaskiwin excepted)	46	55	1185	1034	140	11	20	16.9			
Division No. 9—Rocky Mountain House	59	27	460	404	50	6	6	13.0			
Division No. 10—Victoria	42	43	1013	913	76	24	19	18.8			
Division No. 11—Edmonton (City of Edmonton excepted)	103	30	291	122	147	22	7	24.1			
Division No. 12—Edson	62	15	243	129	104	10	2	8.2			
Division No. 13—Beaver River	72	59	825	506	277	42	17	20.6			
Division No. 14—Sturgeon	40	40	1010	695	260	55	14	13.9			
Division No. 15—Clearwater	97	47	484	300	167	17	15	31.0			
Division No. 16—Peace River	44	29	662	533	113	16	14	21.1			
Division No. 17—Athabasca	101	35	348	152	186	10	14	21.1			
City of Edmonton	31	125	4068	4010	57	1	57	14.0			
City of Calgary	29	80	2731	2728	3	1	61	22.3			
City of Lethbridge	42	41	967	963	4	1	10	10.3			
City of Medicine Hat	18	11	609	585	19	5	11	18.1			
City of Red Deer	47	14	298	295	3	1	4	13.4			
City of Drumheller	47	10	213	213	10	1	6	28.2			
City of Wetaskiwin	32	9	282	280	2	1	2	7.1			
Divisions	51	520	10122	8032	1842	248	177	17.5			
Cities	32	290	9168	9074	88	6	151	16.5			
Whole Province	42	810	19290	17106	1930	254	328	17.0			









TABLE 14.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS OF CHILDREN UNDER ONE YEAR OF AGE, CLASSIFIED ACCORDING TO RESIDENCE OF DECEDENTS, IN CITIES OF 5,000 POPULATION AND OVER, IN ALBERTA, 1943

Cities	All Deaths under one year						Deaths in Institutions						Deaths elsewhere than in Institutions															
	Residents			Non-resident in city where death occurred and			Residents			Non-resident in city where death occurred and			Residents			Non-resident in city where death occurred and												
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female										
Calgary	80	47	33	63	38	25	16	8	8	1	1	73	42	31	56	33	23	16	8	1	1	7	5	2	7	5	2	
Edmonton	125	66	59	68	34	34	56	31	25	1	1	118	63	55	61	31	30	56	31	25	1	1	7	3	4	7	3	4
Lethbridge	41	25	16	14	9	5	26	15	11	1	1	41	25	16	14	9	5	26	15	11	1	1	1	1	1	1	1	1
Medicine Hat	11	5	6	6	2	4	5	3	2	2	2	10	5	5	5	2	3	5	3	2	2	1	1	1	1	1	1	

TABLE 15.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS OF CHILDREN UNDER ONE YEAR OF AGE, SHOWING THE NUMBER NON-RESIDENT, IN ALBERTA, 1943

Total for the Province	All Deaths under one year						In Institutions					
	Total			Non-resident in Province			Total			Non-resident in Province		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
810	468	342	342	9	7	2	543	314	299	9	7	2

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES, TRANSFERRED TO REGULAR RESIDENCE, 1943

DIVISION No. 1—MEDICINE HAT

Municipality No.	Population, 1943	Number of Births	Birth Rate per 1,000	Number of Deaths	Death Rate per 1,000	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomyelitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Anemias	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)		
1	57	2	13.4	1	1.7																												
2	149	2	11.6	4	2.7																												
3	171	3	5.7	7	4.1																												
4	527	13	11.9	7	1.3	1	16.9	1																									
5	1086	13	11.9	7	6.4	1	16.9	1																									
6	891	14	15.7	6	6.7																												
31	62																																
32	535	9	16.8	3	5.6																												
33	507	10	19.7	3	5.9	1	100.0																										
34	971	10	10.2	13	13.3			2																									
35	383	2	5.2	1	2.6																												
36	2280	60	26.3	14	6.1	2	33.3	2																									
61	751	6	7.9	4	5.3																												
62	637	16	25.1	2	3.1																												
63	615	5	8.1	2	3.2																												
64	959			1	1.0																												
65	1123	18	16.0	6	5.3																												
66	3770	89	23.6	29	7.6	8	89.8	1																									
91	1458	32	21.2	12	8.2	1	31.2																										
92	907	16	17.6	6	6.3																												
93	753	12	15.9	6	7.9			1																									
94	990	22	22.2	7	7.0																												
<b>Total</b>	<b>19,582</b>	<b>341</b>	<b>17.4</b>	<b>126</b>	<b>6.4</b>	<b>13</b>	<b>38.1</b>	<b>7</b>						<b>2</b>						<b>14</b>	<b>3</b>		<b>8</b>	<b>36</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>6</b>		<b>14</b>		
<b>Death Rate per 100,000 Population</b>														<b>10.3</b>						<b>71.4</b>	<b>15.5</b>		<b>40.8</b>	<b>183.6</b>	<b>15.5</b>	<b>15.5</b>	<b>5.1</b>	<b>15.5</b>	<b>30.6</b>		<b>71.4</b>		



VITAL STATISTICS BRANCH

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES, TRANSFERRED TO REGULAR RESIDENCE, 1943—Continued

DIVISION No. 2—MACLEOD

Municipality No.	Population, 1943	Number of Births	Birth Rate per 1,000 Population	Number of Deaths	Death Rate per 1,000 Population	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomyelitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Anaemias	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)	
7	441	7	15.8	4	9.1	2	17.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8	1346	24	17.8	5	3.7	2	17.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9	3570	115	32.2	30	8.4	1	27.7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10	1580	36	22.8	3	1.9	1	65.4	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
37	5112	107	20.9	36	7.0	7	68.5	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
38	2603	73	28.0	23	8.8	5	68.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
39	2670	64	23.9	27	10.1	4	62.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
40	622	7	11.2	4	6.4	4	83.3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
67	5118	84	12.5	36	7.0	7	14.7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
68	2899	68	23.4	11	3.8	7	46.7	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
69	3215	107	33.3	39	12.1	5	46.7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70	1863	21	15.1	8	5.8	8	41.5	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71	8187	193	23.5	70	8.5	3	25.2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
99	3960	119	35.4	35	10.4	3	25.2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100	588	1	6.1	1	6.1	1	6.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
101	163	1	6.1	1	6.1	1	6.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
W.L. Park	269	1	6.1	1	6.1	1	6.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	43106	1026	2.38	332	7.7	43	41.9	26	1	2	1	1	1	11	1	1	3	1	33	6	2	23	82	4	22	4	4	3	15	3	30	3
									2.3	4.6	2.3	2.3	2.3	23.5	6.9	2.3	76.7	13.9	4.6	53.3	190.2	9.3	51.0	9.3	6.9	34.8	6.9	69.5	6.9	69.5	6.9	69.5

Death Rate per 100,000 Population























TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES, TRANSFERRED TO REGULAR RESIDENCE, 1943—Continued

DIVISION No. 13—BEAVER RIVER

Municipality No.	Population, 1943	Number of Births	Birth Rate per 1,000	Population	Number of Deaths	Death Rate per 1,000	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomylitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Anaemias	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)		
541	752	11	14.6	2	2.6	32	42.1	20						3	2				2	3	20	2		11	37	1	11	5	3	5	3	8		
542	1276	43	33.7	9	7.0	4	31.0	2										1	1	1	3	1		1	6	1	2		1	1	1	2		
543	4609	129	27.9	28	6.0	2	47.6	3											1	1	1	1		2	2	1	2							
544	2297	42	18.2	9	3.9	2	500.0	5													3			2	1	1	1							
571	361	2	5.5	2	5.9	1	31.9	3													2			1	5	1	1							
572	2630	94	35.7	21	7.9	3	58.7	3													2			1	6	1	1							
573	3442	85	24.6	16	4.6	5	75.0	3													2			1	3	1	1							
574	1401	40	28.5	9	6.4	3	64.6	2													2			1	3	1	1							
575	4162	93	22.3	24	5.7	6	78.9	1						3	2						2			1	1	1	1							
601	1525	38	24.9	9	5.9	3	45.4	1													1			1	1	1	1							
602	2006	44	21.9	6	2.9	2	55.5	1													1			1	1	1	1							
603	1350	18	13.3	7	5.1	1	23.2	1													1			1	1	1	1							
604	758	21	27.7	4	5.8	1	43.5	1													1			1	1	1	1							
605	2047	43	21.0	12	5.8	1		1													1			1	1	1	1							
631	1047	23	21.9	8	7.6	1		1													1			1	1	1	1							
632	18																																	
633	131																																	
634	278				7.2																													
635	1218	16	12.2	3	2.4			1																										
663	11																																	
664	40	1	25.0																															
666	777	15	19.3	1	1.2																													
695	356	2	5.6	2	5.6																1													
	32492	760	23.3	174	5.3	32	42.1	20						9.8	6.1			6.1	9.8	61.5	6.1			33.8	113.8	3.0	33.8	15.3	9.8	15.3	9.8	24.6		

Death Rate per 100,000 Population















TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY CITIES, 1943—TRANSFERRED TO REGULAR RESIDENCE

Cities	CITIES																	Violent Deaths (suicides and homicides excepted)													
	Population, 1943	Number of Births	Birth Rate per 1,000	Number of Deaths	Death Rate per 1,000	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomyelitis	Meningococcc Meningitis	Pulmonary Tuberculosis		Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Anaemias	Apoplexy, Cerebral Hemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State
Edmonton	105336	2461	25.4	822	8.4	50	20.5	34	.....	1	2	2	1	10	.....	1	15	5	126	15	6	79	201	24	45	7	1	4	33	4	48
Death Rate per 100,000 Population	.....	.....	.....	.....	.....	1.0	.....	.....	.....	.....	.....	.....	.....	10.3	.....	1.0	15.5	5.1	130.2	15.5	6.2	81.6	207.8	24.0	46.5	7.2	1.0	4.1	34.1	4.1	49.6
Calgary	91158	2063	22.6	845	9.2	56	27.1	50	.....	.....	.....	1	1	7	.....	1	10	.....	121	17	1	78	254	21	42	2	3	9	52	5	50
Death Rate per 100,000 Population	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.6	.....	1.0	10.9	.....	132.7	18.6	1.0	85.5	278.6	23.0	46.0	2.1	3.2	9.8	57.4	5.4	54.8
Lethbridge	15055	366	24.3	133	8.8	15	40.9	4	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	16	3	1	8	42	.....	7	1	.....	2	2	.....	8
Death Rate per 100,000 Population	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26.5	.....	.....	.....	.....	106.1	19.9	6.7	53.0	278.0	.....	46.4	6.7	.....	13.3	13.3	.....	53.0
Medicine Hat	10936	319	29.1	89	8.1	7	21.9	7	.....	.....	.....	.....	.....	3	.....	.....	1	.....	14	2	1	6	23	3	4	1	.....	1	3	.....	8
Death Rate per 100,000 Population	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27.3	.....	.....	9.1	.....	127.8	18.2	9.1	54.8	210.3	27.3	36.5	9.1	.....	9.1	27.3	.....	73.1

<b>Red Deer</b>	3171	215	67.7	40	12.6	9	41.8	1	2	1	5	9	3	5	1	3
Death Rate per 100,000 Population								31.5	63.0	31.5	157.6	283.8	94.6	151.6	31.5	94.6
<b>Drumheller</b>	2855	88	30.8	44	15.4	5	56.8	3	10	4	1	2	8	1	1	1
Death Rate per 100,000 Population								105.0	350.2	140.1	35.0	70.0	280.2	35.0	35.0	35.0
<b>Wetaskiwin</b>	2438	107	43.8	30	12.3	5	66.7	5	3	2	2	5	1	1	1	1
Death Rate per 100,000 Population								205.0	123.0	82.0	82.0	205.0	41.0	41.0	41.0	41.0



















































































TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1943

CAUSES OF DEATH	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
<b>DEATHS—ALL CAUSES</b>	<b>6524</b>	<b>600</b>	<b>501</b>	<b>612</b>	<b>584</b>	<b>548</b>	<b>512</b>	<b>564</b>	<b>467</b>	<b>494</b>	<b>510</b>	<b>511</b>	<b>621</b>
Male	3999	355	315	378	348	335	328	358	292	298	310	328	354
Female	2525	245	186	234	236	213	184	206	175	196	200	183	267
<b>CLASS I.—INFECTIOUS AND PARASITIC DISEASES</b>	<b>614</b>	<b>52</b>	<b>45</b>	<b>70</b>	<b>50</b>	<b>65</b>	<b>50</b>	<b>42</b>	<b>30</b>	<b>39</b>	<b>37</b>	<b>43</b>	<b>91</b>
Male	356	26	30	44	27	34	27	24	19	23	22	36	44
Female	258	26	15	26	23	31	23	18	11	16	15	7	47
1 Typhoid fever	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
2 Paratyphoid fever	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5 Undulant fever	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
6 Cerebrospinal meningitis	3	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
8 Scarlet fever	5	1	1	1	.....	.....	.....	.....	.....	.....	1	1	1
9 Whooping-cough	2	1	.....	.....	1	.....	.....	2	1	.....	.....	.....	.....
10 Diphtheria	10	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....
11 Erysipelas	6	1	.....	1	.....	.....	.....	.....	1	1	.....	.....	.....
12 Tetanus	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	159	10	45	17	12	18	13	14	13	11	10	14	12
Sub-total	135	19	8	17	16	14	16	7	7	11	7	2	11
Male	112	5	11	13	7	12	10	11	9	7	7	9	11
Female	112	16	6	13	12	12	15	5	7	8	7	2	9
(a) With mention of occupational diseases of lungs	3	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....
(b) Without mention of occupational diseases of lungs	88	4	8	10	6	9	6	11	6	6	7	6	9
(c) Unspecified site	91	12	6	11	10	8	14	5	6	5	5	2	8
Total	17	1	3	2	1	2	1	1	3	1	2	1	1
Sub-total	21	4	.....	2	2	4	1	.....	1	3	2	1	1

























94	Diseases of the coronary arteries and angina pectoris	Sub-total	Male	339	42	26	24	37	26	24	26	23	27	29	26	29
	(a) Diseases of the coronary arteries		Female	105	7	11	3	12	10	11	8	6	3	13	15	6
			Male	324	38	23	24	37	25	22	24	22	26	29	26	28
	(b) Angina pectoris		Female	104	7	11	3	12	10	11	8	6	3	13	14	6
			Male	15	4	3			1	2	2	1	1		1	1
95	Other diseases of the heart	Sub-total	Male	79	7	7	6	9	6	2	13	6	3	7	7	6
	(a) Functional diseases of the heart (no organic lesion)		Female	42	6	1	2	1	7	2	3	3	1	5	2	9
			Male	11	2	1		1				1		1	3	1
	(b) Other diseases of the heart (rheumatic)		Female	4	1	1	1	2	1	1	1			2	3	2
			Male	15	1	1	2	2	2	1	1		1	2	3	2
	(c) Other diseases of the heart (non-rheumatic)		Female	6					2	1	1		1	4	1	3
			Male	53	5	5	4	6	4	1	12	5	3	4	1	3
			Female	32	5	1	1	1	5	1	2	3	1	5	2	7
			Male	1												
			Female	2			1								1	
96	Aneurysm (heart and aorta excepted)		Male	57	4	6	8	4	4		6	2	4	4	7	8
			Female	30	2	7	1	2	2		3	3	3	2	3	2
98	Gangrene		Male	3					1					1	1	1
			Female	13		2	1	1	1	3	1	2	1	1		1
100	Diseases of the veins		Male	5	1			1	1		1		2	1		
			Female	6	3		1						1	1		
101	Diseases of the lymphatic system		Male	2										1		1
			Female	5				1	1			1		1		1
102	High blood pressure (idiopathic)		Male	4				2								1
			Female	1											2	
103	Other diseases of the circulatory system		Male	494	51	40	53	55	41	34	35	29	34	34	39	49
			Female	295	32	26	37	27	21	26	20	16	16	16	19	27
			Male	199	19	14	16	28	20	8	15	13	18	15	12	21
104	Diseases of the nasal fossae and accessory sinuses		Male	3						2		1				
			Female	2				1					1			
105	Diseases of the larynx		Male	5		2	1					1	1			
			Female	1						1						
106	(a) Bronchitis, acute		Male	10		2	2		1	1		1			2	1
			Female	4	2			1	1							
	(b) Bronchitis, chronic		Male	5		1							1		2	
			Female	5		1		1				1			1	
	(c) Bronchitis, unspecified		Male	1			1							1	1	
			Female	1				1								
107	Broncho pneumonia		Male	130	16	12	12	13	14	12	10	5	8	7	8	13
			Female	86	7	6	7	12	10	2	4	6	6	8	6	12

## CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM









TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1943—Continued

CAUSES OF DEATH	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
132 Nephritis unspecified (over 10 years of age)	12	1	2	1	1	1	1	1	2	3	1	1	1
Female	9	1	1	1	1	2	1	1	2	2	1	1	1
133 Other diseases of the kidneys and ureters	9	1	1	1	1	2	1	1	1	1	2	1	1
Female	5	1	1	1	1	2	1	1	1	1	2	1	1
134 Calculi of the urinary passages	2	1	1	1	1	1	1	1	1	1	1	1	1
Male	2	1	1	1	1	1	1	1	1	1	1	1	1
135 Diseases of the urinary bladder	3	1	1	1	1	1	1	1	1	1	1	1	1
Female	1	1	1	1	1	1	1	1	1	1	1	1	1
136 Diseases of the urethra, urinary Abscess, etc.	1	1	1	1	1	1	1	1	1	1	1	1	1
Female	1	1	1	1	1	1	1	1	1	1	1	1	1
137 Diseases of the prostate	48	3	5	5	3	5	5	3	4	8	3	2	2
Male	48	3	5	5	3	5	5	3	4	8	3	2	2
138 Diseases of the male genital organs (non-venereal)	2	1	1	1	1	1	1	1	1	1	1	1	1
Male	2	1	1	1	1	1	1	1	1	1	1	1	1
139 (a) Diseases of the ovaries, Fallopian tubes and parametria (non-venereal)	3	1	1	1	1	1	1	1	1	1	1	1	1
Female	3	1	1	1	1	1	1	1	1	1	1	1	1
(b) Diseases of the uterus (non-venereal)	8	2	1	1	1	1	1	1	1	2	1	1	1
Female	8	2	1	1	1	1	1	1	1	2	1	1	1
<b>CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE</b>	<b>52</b>	<b>4</b>	<b>3</b>	<b>6</b>	<b>5</b>	<b>6</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>6</b>	<b>3</b>
140 (a) Spontaneous, therapeutic or unspecified abortion with mention of infection	4	1	1	1	1	1	1	2	1	1	1	1	1
Female	4	1	1	1	1	1	1	2	1	1	1	1	1
(b) Self-induced abortion with mention of infection	2	1	1	1	1	1	1	1	1	1	1	1	1
Female	2	1	1	1	1	1	1	1	1	1	1	1	1
(c) Non-therapeutic abortion with mention of infection	2	1	1	1	1	1	1	1	1	1	1	1	1
Female	2	1	1	1	1	1	1	1	1	1	1	1	1
141 (a) Spontaneous, therapeutic or unspecified abortion without mention of infection	2	1	1	1	1	1	1	1	1	1	1	1	1
Female	2	1	1	1	1	1	1	1	1	1	1	1	1
(b) Self-induced abortion without mention of infection	2	1	1	1	1	1	1	1	1	1	1	1	1
Female	2	1	1	1	1	1	1	1	1	1	1	1	1
(c) Non-therapeutic abortion without mention of infection	2	1	1	1	1	1	1	1	1	1	1	1	1
Female	2	1	1	1	1	1	1	1	1	1	1	1	1

















TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1943—Continued

CAUSES OF DEATH	Total	MONTHS															
		January	February	March	April	May	June	July	August	September	October	November	December				
192 Lightning	1							1									
Female																	
193 Accidents due to electric currents	1							1									
Male																	
Female																	
194 Attack by venomous animals (non-occupational)																	
Male																	
Female																	
195 Other accidents	15	1	2	3	1	3	2		1	1	1	1	1	1	1	1	1
Male																	
Female	5	1	1														
Sub-total																	
(a) Sequelae of preventive immunization, inoculation or vaccination																	
Male																	
Female																	
(b) Other accidents due to medical or surgical intervention																	
Male	2	1	1				1										
Female	1																
(c) Lack of care of the new-born	4	1	1	1	1												
Male																	
Female	2	1	1	1	1												
(d) Obstruction, suffocation or puncture by ingested objects	2																
Male																	
Female	2																
(e) Other and unspecified objects	9			2	1	2	1										
Male																	
Female	2																
196 Deaths of persons in military service during operations of war																	
Male																	
Female																	
197 Deaths of civilians due to operations of war																	
Male																	
Female																	
198 Legal executions																	
Male																	
Female																	
<b>CLASS XVIII.—ILL-DEFINED AND UNKNOWN CAUSES OF DEATH</b>																	
Total	47	3	6	2	5	6	4	7	2	1	1	1	1	1	1	1	5
Male	35	2	5	1	4	5	3	6	1	1	1	1	1	1	1	1	4
Female	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
199 Sudden death	6	1	1			1	1	1									
Male																	
Female	3	1															
200 (a) Ill-defined	10		2	1		1	1	2									
Male																	
Female	5		1	1		1	1	1									
(b) Found dead	3		1	1	1												
Male																	
Female	3		1	1	1												
(c) Unknown or unspecified causes	16	1	1		3	3	1	3	1	1	1	1	1	1	1	1	2
Male																	
Female	4				1	1		1	1	1	1	1	1	1	1	1	2

































CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM

90-95 Diseases of the heart	299	1	1	1	3	6	6	18	40	25	46	43	50	29	20	7	1	1
90 (a) Bacterial endocarditis (acute, subacute or unspecified)	171	1	1	1	2	3	4	14	33	19	29	27	24	17	10	5	1	1
90 (b) Pericarditis (acute rheumatic excluded)	95	1	1	1	1	3	2	4	7	6	17	16	26	12	10	2		
91 (a) Bacterial endocarditis (acute, subacute or unspecified)	1	1	1	1	2	3	4	13	31	17	29	25	21	15	6	4	1	1
91 (b) Other acute or subacute endocarditis	2				1	1	2	4	5	4	17	15	22	10	6	2		
92 Chronic affections of the valves and endocardium	13				2	2	2		4	2	2	2	1					
92 (a) Specified valvular diseases (rheumatic)	12				1	1	1	1	1	1	2	1	2		1			
92 (b) Other specified valvular diseases (non-rheumatic)	7				2	1	1		1	1			1					
92 (c) Unspecified valvular lesions and endocarditis	5																	
93 Diseases of the myocardium	6				1	1	1	1	2	1	1	2	1		1			
93 (a) Acute myocarditis	5				1	1	1	1	1	1	1	1	1		1			
93 (b) Myocarditis (not specified under 45 years)	2																	
93 (c) Chronic myocarditis and myocardial degeneration (rheumatic)	74				1	1	6	12	7	14	5	12	9	5	2	1		
94 (a) Acute myocarditis	45				1	1	1	2	1	9	6	14	8	2				
94 (b) Myocarditis (not specified under 45 years)	1																	
94 (c) Chronic myocarditis and myocardial degeneration (rheumatic)	1																	
94 (d) Chronic myocarditis (non-rheumatic)	57				1	1	5	11	4	11	2	8	8	5	1	1		
94 (e) Other myocarditis (not specified)	36								1	7	5	12	6	1				
94 (a) Diseases of the coronary arteries	7								3	3	2	4	1					
94 (b) Angina pectoris	74				1	1	7	14	8	12	15	8	6	1	2			
95 Other diseases of the heart	28				1	1	2	1	2	5	6	5	1	3	1			
95 (a) Functional diseases of the heart (no organic lesion)	8				1	1	1	1	1	2	3							
95 (b) Other diseases of the heart (rheumatic)	8				1	1	1	1	1	1	1	1	1	1				
95 (c) Other diseases of the heart (non-rheumatic)	3																	
95 (a) Functional diseases of the heart (no organic lesion)	1																	
95 (b) Other diseases of the heart (rheumatic)	5				1	1	1	1	1	2	1	1	1	1				
95 (c) Other diseases of the heart (non-rheumatic)	7				1	1	1	1	1	1	1	1	1	1				













































































TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1943—Continued

CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO THE NATURE OF INJURY. THESE ACCIDENTAL DEATHS ARE CLASSIFIED ABOVE ACCORDING TO CIRCUMSTANCES INVOLVING THE ACCIDENT UNDER RUBRICS 169 TO 176, 178, 180, 181, 182, 183, 185, 186, 187 AND 193.

CAUSES OF DEATH	AGES																	Total										
	Under 1 year	1 year	2 years	3 years	4 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years	55-59 years	60-64 years		65-69 years	70-74 years	75-79 years	80-84 years	85-89 years	90-94 years	95-99 years	100 years and over	Not stated	
Accidental absorption of poisonous gas .....																												
Accidental burns .....																												
Accidental mechanical suffocation .....																												
Accidental drowning .....																												
Accidental injury by cutting or piercing instruments .....																												
Accidental injury by fall .....																												
Accidental injury by crushing .....																												
Accidents due to electric currents .....																												
<b>Total</b>	<b>6</b>								<b>2</b>	<b>1</b>		<b>1</b>			<b>1</b>													
Male .....																												
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TABLE 21.—CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO THE NATURE OF INJURY. THESE ACCIDENTAL DEATHS ARE CLASSIFIED ACCORDING TO CIRCUMSTANCES INVOLVING THE ACCIDENT UNDER RUBRICS 169 TO 176, 178, 180, 181, 182, 183, 185, 186, 187 AND 193.

Int. list No.	CAUSES OF DEATH	Male	Female
	Accidental absorption of poisonous gas .....	15	....
174	Accidents in mines and quarries .....	2	....
175	(c) Other agricultural accidents .....	1	....
178	Accidental absorption of poisonous gas .....	11	....
180	Conflagration .....	1	....
	Accidental burns .....	27	23
173	Air transport accidents .....	10	....
180	Conflagration .....	11	13
181	Accidental burns (conflagration excepted) .....	6	10
	Accidental mechanical suffocation .....	12	5
173	Air transport accidents .....	1	....
182	Accidental mechanical suffocation .....	11	5
	Accidental drowning .....	52	11
170	(c) Automobile accidents (excluding trains or street-cars) .....	....	2
171	(b) Other road transport accidents (excluding street-cars, trains and motor vehicles) .....	6	....
172	Water transport accidents .....	9	....
173	Air transport accidents .....	2	....
175	(c) Other agricultural accidents .....	1	....
183	Accidental drowning .....	34	9
	Accidental injury by cutting or piercing instruments .....	9	....
170	(c) Automobile accidents (excluding trains or street-cars) .....	1	....
175	(a) Accidents involving agricultural machinery and vehicles .....	4	....
175	(c) Other agricultural accidents .....	1	....
175	(d) Accidents involving forestry machinery and vehicles .....	1	....
176	Other accidents involving machinery .....	1	....
185	Accidental injury by cutting or piercing instruments .....	1	....
	Accidental injury by fall .....	65	41
169	Railway accidents (excluding motor vehicles accidents) .....	3	....
170	(c) Automobile accidents (excluding trains or street-cars) .....	1	1
170	(d) Motorcycle accidents (excluding automobiles) .....	1	....
171	(b) Other road transport accidents (excluding street-cars, trains and motor vehicles) .....	5	1
173	Air transport accidents .....	2	....
174	Accidents in mines and quarries .....	3	....
175	(a) Accidents involving agricultural machinery and vehicles .....	7	....
175	(b) Injury by animals, in agriculture .....	3	....
175	(c) Other agricultural accidents .....	4	1
176	Other accidents involving machinery .....	1	....
186	(a) Accidental injury by fall .....	35	38
	Accidental injury by crushing .....	235	20
169	Railway accidents (excluding motor vehicles accidents) .....	11	2
170	(a) Collisions with trains .....	9	3
170	(b) Collisions with street-cars .....	1	....
170	(c) Automobile accidents (excluding trains or street-cars) .....	52	10
170	(d) Motorcycle accidents (excluding automobiles) .....	1	1
171	(b) Other road transport accidents (excluding street-cars, trains and motor vehicles) .....	8	3
173	Air transport accidents .....	86	1
174	Accidents in mines and quarries .....	21	....
175	(a) Accidents involving agricultural machinery and vehicles .....	11	....
175	(b) Injury by animals, in agriculture .....	11	....
175	(c) Other agricultural accidents .....	3	....
175	(e) Other forestry accidents .....	4	....
176	Other accidents involving machinery .....	6	....
186	(b) Accidental injury by crushing .....	11	....
193	Accidents due to electric currents .....	1	....



TABLE 22.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, CLASSIFIED ACCORDING TO RESIDENCE OF DECEDENTS CITIES OF 5,000 POPULATION AND OVER, IN ALBERTA, 1943

Cities	All Deaths						Deaths in Institutions						Deaths elsewhere than in Institutions																							
	Total			Residents			Non-resident in city or town where death occurred and			Total			Residents			Non-resident in city or town where death occurred and																				
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total																		
Calgary .....	1038	608	430	783	445	338	224	141	83	31	22	9	694	423	271	470	278	192	203	131	72	21	14	7	344	185	159	313	167	146	21	10	11	10	8	2
Edmonton .....	1279	775	504	771	450	321	471	295	176	37	30	7	966	597	369	492	292	200	442	280	162	32	25	7	313	178	135	279	158	121	29	15	14	5	5	...
Lethbridge .....	245	158	87	127	76	51	109	73	36	9	9	...	200	130	70	90	56	34	105	69	36	5	5	...	45	28	17	37	20	17	4	4	4	4	4	...
Medicine Hat .....	142	87	55	83	49	34	42	26	16	17	12	5	96	57	39	49	29	20	35	21	14	12	7	5	46	30	16	34	20	14	7	5	2	5	5	...

TABLE 23.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, SHOWING THE NUMBER NON-RESIDENT IN ALBERTA, 1943

Total for the Province .....	All Deaths						In Institutions								
	Total			Non-resident in Province			Total			Non-resident in Province					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
	6524	3999	2525	241	199	42	3553	2192	1361	109	77	32			







TABLE 25.—PRINCIPAL CAUSES OF DEATH BY NUMBERS AND RATES FOR EACH YEAR OF THE LAST DECENNIAL PERIOD

CAUSE OF DEATH	1943		1942		1941		1940		1939		1938		1937		1936		1935		1934	
	Number of Deaths	Rate per 100,000 population	Number of Deaths	Rate per 100,000 population	Number of Deaths	Rate per 100,000 population	Number of Deaths	Rate per 100,000 population	Number of Deaths	Rate per 100,000 population	Number of Deaths	Rate per 100,000 population	Number of Deaths	Rate per 100,000 population	Number of Deaths	Rate per 100,000 population	Number of Deaths	Rate per 100,000 population	Number of Deaths	Rate per 100,000 population
Diseases of the Heart	1550	194	1483	184	1394	177	1086	137	937	126	895	114	849	109	801	103	826	105	835	108
Cancer	748	94	784	97	712	90	759	95	617	82	682	87	598	77	640	82	622	79	572	74
Diseases of the Arteries	116	14	97	12	86	11	517	65	550	79	455	58	342	48	427	55	404	51	305	39
Violent Deaths (Suicides excepted)	588	73	483	58	524	67	415	52	364	46	357	46	372	48	419	53	393	50	382	49
Pneumonia (all forms)	497	51	335	41	374	47	376	47	352	46	488	62	464	59	440	57	450	75	312	41
Pulmonary tuberculosis	224	28	214	26	254	32	232	29	217	27	206	26	266	34	294	38	366	34	262	34
Influenza	153	19	75	9	276	22	255	32	216	27	174	22	473	61	340	44	194	24	141	18
Nephritis	284	35	260	32	255	32	217	27	214	27	243	31	240	31	190	24	194	24	196	25
Appendicitis	77	9	69	8	91	11	96	12	109	14	146	18	108	14	155	20	150	20	131	18
Suicides	79	10	86	10	103	13	96	12	103	13	100	12	101	13	87	11	84	11	106	14
Cerebral Haemorrhage	472	59	450	56	501	64	116	15	96	12	102	13	104	13	105	13	113	14	140	18
Diabetes Mellitus	116	14	106	13	122	15	90	11	90	11	85	11	70	9	79	9	72	9	69	9
Diarrhoea and Enteritis	89	11	76	9	99	13	92	12	90	11	118	15	115	15	124	16	88	9	10	14
Puerperal Causes	52	6	43	5	54	7	69	9	59	8	68	8	77	10	91	11	69	9	81	11
Whooping Cough	12	1	12	1	23	3	56	7	33	4	30	4	49	6	73	9	43	5	52	7
Scarlet Fever	7	1	11	1	6	1	9	1	19	2	25	3	24	3	13	3	8	1	5	1
Diphtheria	11	1	11	1	6	1	12	2	7	1	18	2	10	1	9	1	8	1	8	1
Typhoid and Paratyphoid	1	1	1	1	5	1	3	1	7	1	12	2	6	1	20	2	11	1	8	1
Measles	19	2	2	2	30	4	6	1	6	1	30	4	123	16	25	3	27	3	1	1
Poliomyelitis	1	1	1	1	8	1	4	1	6	1	15	2	13	2	4	1	15	2	4	1





















TABLE 31.—DIVORCES AND NULLITIES BY JUDICIAL DISTRICTS  
FOR THE YEAR 1943

Judicial Districts	Divorces			Nullities		
	Number of Divorces	Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife
Edmonton .....	189	90	99	4	1	3
Calgary .....	171	72	99	3	2	1
Lethbridge .....	25	11	14	1	.....	1
Medicine Hat .....	11	2	9	2	.....	2
Peace River .....	1	1	.....	.....	.....	.....
Grande Prairie .....	8	8	.....	.....	.....	.....
Hanna .....	.....	.....	.....	.....	.....	.....
Red Deer .....	3	1	2	.....	.....	.....
Drumheller .....	3	3	.....	.....	.....	.....
Macleod .....	1	1	.....	.....	.....	.....
Wetaskiwin .....	.....	.....	.....	.....	.....	.....
Vegreville .....	1	1	.....	.....	.....	.....
<b>Total</b> .....	<b>413</b>	<b>190</b>	<b>223</b>	<b>10</b>	<b>3</b>	<b>7</b>

## DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Year	Granted to Husband	Granted to Wife	Total
1919 .....	3	3	6
1920 .....	74	26	100
1921 .....	53	37	90
1922 .....	80	49	129
1923 .....	57	32	89
1924 .....	66	53	119
1925 .....	59	42	101
1926 .....	79	75	154
1927 .....	83	66	149
1928 .....	91	84	175
1929 .....	77	71	148
1930 .....	64	87	151
1931 .....	69	87	156
1932 .....	68	81	149
1933 .....	56	79	135
1934 .....	62	106	168
1935 .....	74	135	209
1936 .....	74	135	209
1937 .....	102	139	241
1938 .....	105	162	267
1939 .....	104	163	267
1940 .....	119	154	273
1941 .....	135	176	311
1942 .....	179	201	380
1943 .....	190	223	413

TABLE 32.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, ALBERTA, 1943

	Total	Months											
		January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province	907	85	84	80	87	84	70	74	71	53	73	76	70

TABLE 33.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE, ALBERTA, 1943

	Total Births			Legitimate			Illegitimate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	907	458	449	759	386	373	148	72	76

TABLE 34.—DEATHS OF INDIAN CHILDREN (EXCLUSIVE OF STILLBIRTHS), FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE FOR EACH SEX, ALBERTA, 1943

Int. list No.	Causes of Death	Total	Male	Female
	<b>ALL CAUSES</b>	142	80	62
6	Cerebrospinal meningitis	.....	.....	.....
8	Scarlet fever	.....	.....	.....
9	Whooping-cough	.....	.....	.....
10	Diphtheria	.....	.....	.....
11	Erysipelas	.....	.....	.....
13	Tuberculosis of the respiratory system	6	2	4
14-22	Tuberculosis, other forms	6	5	1
24	Purulent infection and septicaemia	.....	.....	.....
27	Dysentery	7	2	5
30	Syphilis	1	1	.....
33	Influenza	12	9	3
35	Measles	3	2	1
36	Acute poliomyelitis and polioencephalitis	.....	.....	.....
64	Diseases of the thymus gland	.....	.....	.....
81	Meningitis (non-meningococcal)	2	1	1
86	Convulsions	2	1	1
89	Diseases of the ear and of the mastoid process	.....	.....	.....
105	Diseases of the larynx	.....	.....	.....
106	Bronchitis	1	1	.....
107	Bronchopneumonia	22	11	11
108, 109	Pneumonia	30	14	16
115	Diseases of the buccal cavity and annexa, and of the pharynx and tonsils	.....	.....	.....
116-118	Diseases of the stomach	.....	.....	.....
119	Diarrhoea and enteritis	8	5	3
130	Acute nephritis	.....	.....	.....
157	Congenital malformations	1	.....	1
	(a) Congenital hydrocephalus	.....	.....	.....
	(d) Congenital malformations of the heart	1	.....	1
	(b, c, e) Others under this title	.....	.....	.....
158	Congenital debility	9	4	5
159	Premature birth	8	8	.....
160	Injury at birth	5	3	2
161	Other diseases peculiar to the first year of life	4	1	3
166-168	Homicides	.....	.....	.....
169-195,				
197	Other violent deaths	4	3	1
	Other specified causes	5	3	2
199, 200	Ill-defined and unknown causes of death	6	4	2































TABLE 36.—POPULATION, BIRTHS, MARRIAGES, DEATHS, AND RATES FOR THE YEARS 1905-1943

Year	Population	Number of Births	Rate Birth	Number of Marriages	Marriage Rate	Number of Deaths	Death Rate	Infantile Death Rate per 1,000 Births	Puerperal Death Rate per 1,000 Births	Rate of Natural Increase
1905	185,000	421	20.41	187	6.77	114	7.36	90.00	6.33	13.04
1906	236,000	3,003	20.05	927	8.08	1,091	6.88	100.27	6.02	13.36
1907	266,000	4,732	22.45	1,907	7.63	1,578	8.22	126.57		14.22
1908	301,000	5,973	22.91	2,384	7.92	2,662	8.81			14.07
1909	336,000	6,897	24.49	3,086	9.18	3,526	10.49	129.49	8.63	14.00
1910	374,000	8,321	23.56	3,618	9.70	3,618	9.67	134.46	9.75	13.88
1911	400,000	8,813	25.71	4,429	11.07	4,232	10.58	124.75	8.26	15.13
1912	429,000	10,284	28.47	5,053	12.12	4,432	10.63	120.47	7.07	17.84
1913	459,000	11,871	30.75	4,623	10.39	4,417	9.32	100.54	6.13	21.43
1914	480,000	13,685	28.90	4,202	9.06	3,588	7.73	87.9	5.79	21.26
1915	496,000	13,331	27.87	4,230	8.53	4,058	8.18	90.5	7.20	18.69
1916	508,000	13,576	27.01	4,270	8.54	4,047	8.09	87.30	6.48	18.92
1917	522,000	14,890	28.90	4,048	7.90	7,924	13.86	107.10	5.51	11.86
1918	522,000	14,130	23.95	4,718	9.24	5,507	9.33	110.30	6.44	14.62
1919	522,000	16,565	26.72	5,110	8.24	5,675	9.15	93.70	8.38	17.57
1920	588,000	16,414	27.89	4,661	7.92	4,940	8.39	85.65	7.24	19.50
1921	592,000	16,163	26.44	4,272	6.99	5,281	8.62	91.93	6.68	17.83
1922	593,000	15,153	25.75	4,177	6.99	4,843	8.06	90.54	5.50	18.75
1923	597,000	14,598	24.74	4,160	7.50	4,907	8.30	82.40	6.18	16.42
1924	602,000	15,014	25.02	4,363	7.40	4,717	7.86	72.90	5.76	16.16
1925	608,000	14,455	23.79	4,498	7.27	5,156	8.49	81.63	5.82	15.31
1926	633,000	14,897	24.03	4,707	7.58	5,059	8.16	74.51	6.38	15.87
1927	658,000	15,692	24.79	5,776	9.12	5,639	9.00	76.50	6.75	15.79
1928	684,000	16,924	26.19	6,004	9.29	6,239	9.65	77.40	7.26	16.54
1929	708,000	17,649	26.74	5,334	8.08	5,396	8.33	63.57	6.46	18.41
1930	732,000	17,252	23.57	5,142	7.02	5,302	7.24	69.38	5.04	16.32
1931	740,000	16,990	22.96	5,054	6.83	5,521	7.46	58.68	3.76	15.50
1932	748,000	16,123	21.33	5,389	7.10	5,346	7.07	59.90	4.43	14.24
1933	756,000	16,236	21.10	6,053	7.87	5,337	6.93	54.89	4.99	14.01
1934	770,000	16,183	21.0	6,010	7.7	5,729	7.3	57.8	4.2	14.0
1935	772,782	15,786	20.4	6,020	7.8	6,147	8.0	60.0	5.8	12.5
1936	778,000	15,903	20.4	6,345	8.2	6,261	8.0	63.0	4.9	12.4
1937	783,000	15,891	20.3	6,973	8.9	5,871	7.5	51.0	4.3	12.8
1938	789,000	16,470	20.9	7,838	9.9	6,203	7.8	46.0	3.5	13.6
1939	790,000	17,359	21.8	8,782	11.8	6,385	8.0	48.0	3.9	14.1
1940	796,169	17,308	21.7	8,470	10.7	6,385	8.0	51.0	3.6	13.7
1941	805,000	18,317	22.7	9,034	11.2	6,091	7.5	38.0	2.3	15.2
1942	805,000	18,317	22.7	9,034	11.2	6,091	7.5	38.0	2.3	15.2
1943	792,000	19,290	24.3	7,771	9.8	6,524	8.2	42.0	2.7	16.1

TABLE 37.—DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1943

	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province .....	19,290	52	2.7
City of Edmonton .....	4,068	11	2.7
City of Calgary .....	2,731	7	2.6
Small Cities .....	2,369	3	1.3
Rural .....	10,122	31	3.1

## RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS

Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths
1905 .....	1,059	3.11	1925 .....	1,042	3.18
1906 .....	1,094	2.07	1926 .....	1,053	2.80
1907 .....	1,075	2.96	1927 .....	1,065	2.94
1908 .....	1,077	2.73	1928 .....	1,064	2.75
1909 .....	1,086	2.59	1929 .....	1,042	2.71
1910 .....	1,065	2.69	1930 .....	1,027	3.21
1911 .....	1,103	2.43	1931 .....	1,075	3.25
1912 .....	1,084	2.43	1932 .....	1,052	3.08
1913 .....	1,053	2.67	1933 .....	1,053	3.01
1914 .....	1,081	3.30	1934 .....	1,032	3.04
1915 .....	1,000	3.47	1935 .....	1,055	2.81
1916 .....	1,063	3.29	1936 .....	1,049	2.57
1917 .....	1,061	3.25	1937 .....	1,019	2.38
1918 .....	1,069	1.88	1938 .....	1,046	2.70
1919 .....	1,074	2.56	1939 .....	1,046	2.85
1920 .....	1,055	2.92	1940 .....	1,033	2.79
1921 .....	1,055	3.32	1941 .....	1,054	2.71
1922 .....	1,034	3.06	1942 .....	1,058	3.02
1923 .....	1,072	3.13	1943 .....	1,041	2.96
1924 .....	1,036	2.97			



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