# Contributors

Alberta. Department of Public Health.

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# ANNUAL REPORT

OF THE

# Department of Public Health

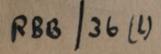
PROVINCE OF ALBERTA

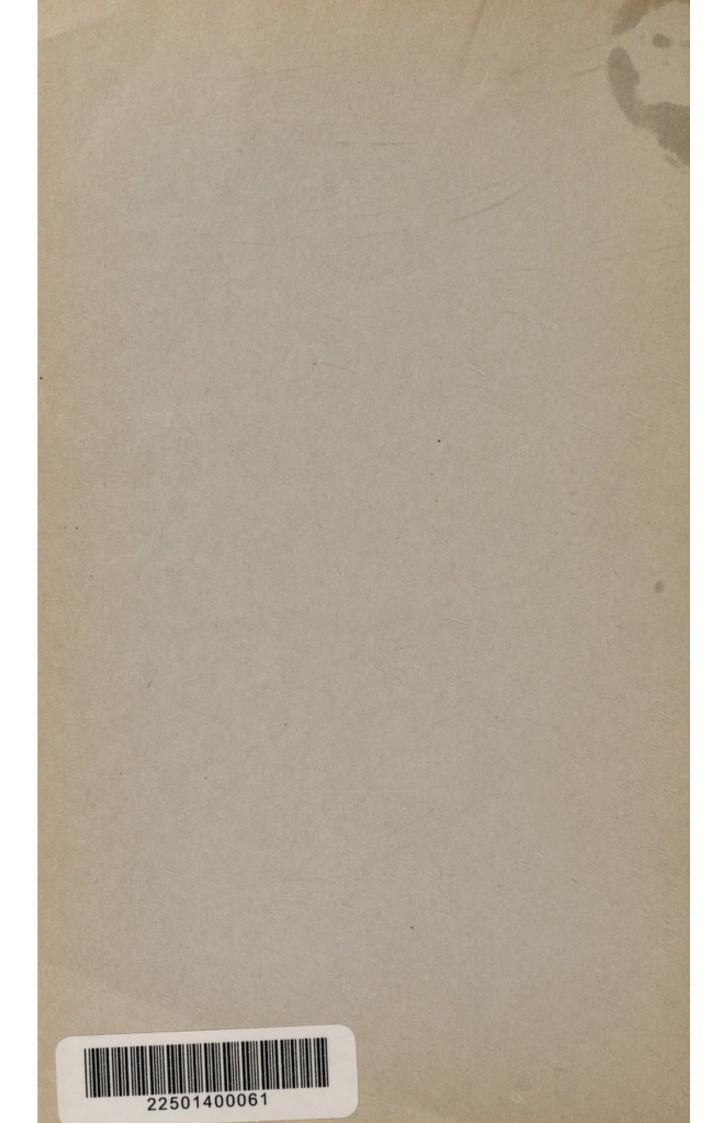
INCLUDING

# Vital Statistics Branch 1944

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON: PRINTED BY A. SHNITKA, KING'S PRINTER 1946







# ANNUAL REPORT

### OF THE

# **Department of Public Health**

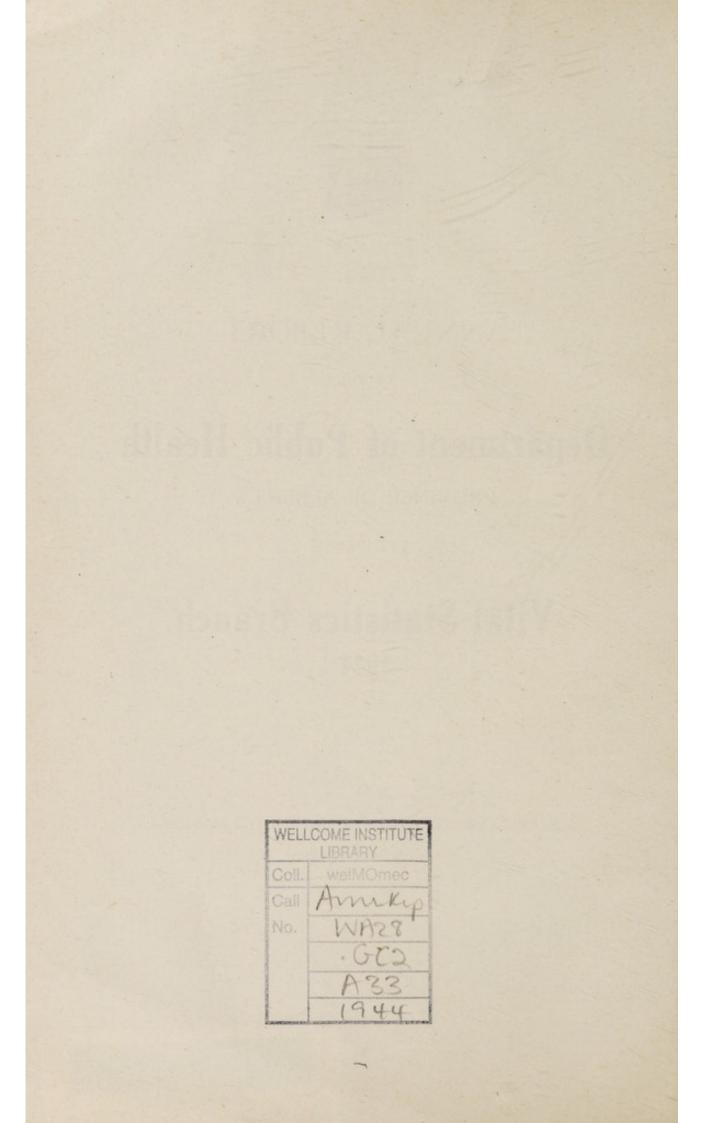
# PROVINCE OF ALBERTA

INCLUDING

# Vital Statistics Branch 1944

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON: PRINTED BY A. SHNITKA, KING'S PRINTER 1946



Edmonton, December 20, 1945.

## To HIS HONOUR,

J. C. BOWEN,

Lieutenant Governor of the Province of Alberta.

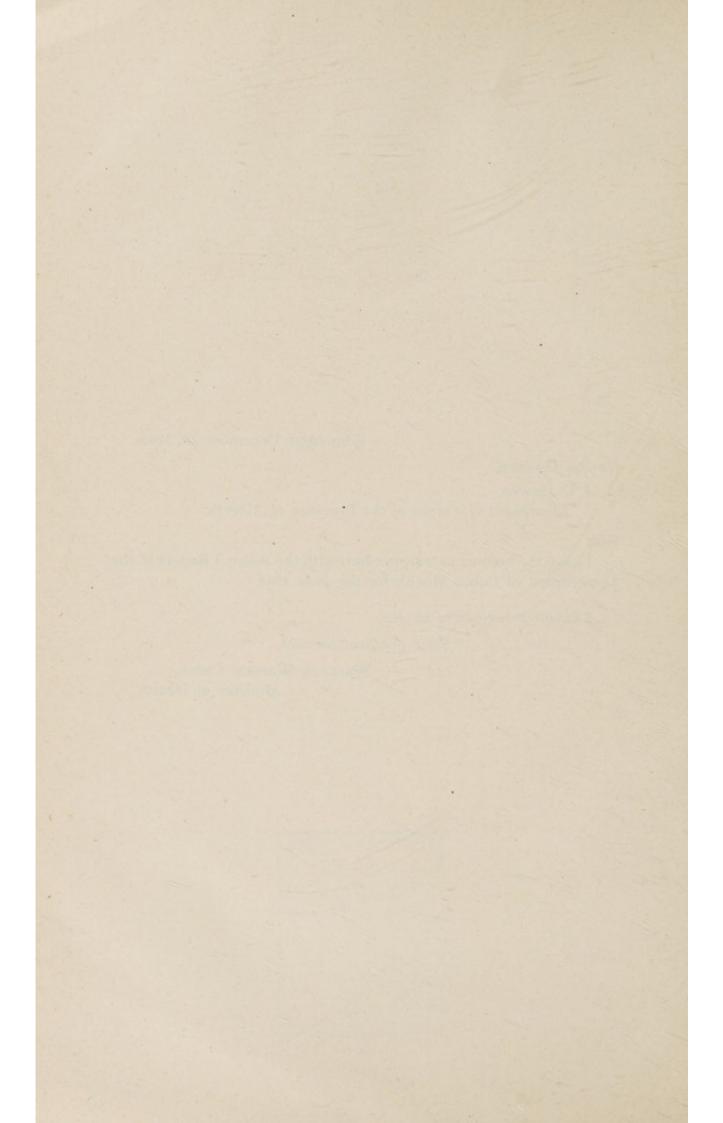
SIR:

I have the honour to transmit herewith the Annual Report of the Department of Public Health for the year 1944.

I have the honour to be, Sir,

Your obedient servant,

WALLACE WARREN CROSS, Minister of Health.



Edmonton, December 20, 1945.

To THE HONOURABLE DR. W. W. CROSS, Minister of Health,

Administration Building, Edmonton, Alberta.

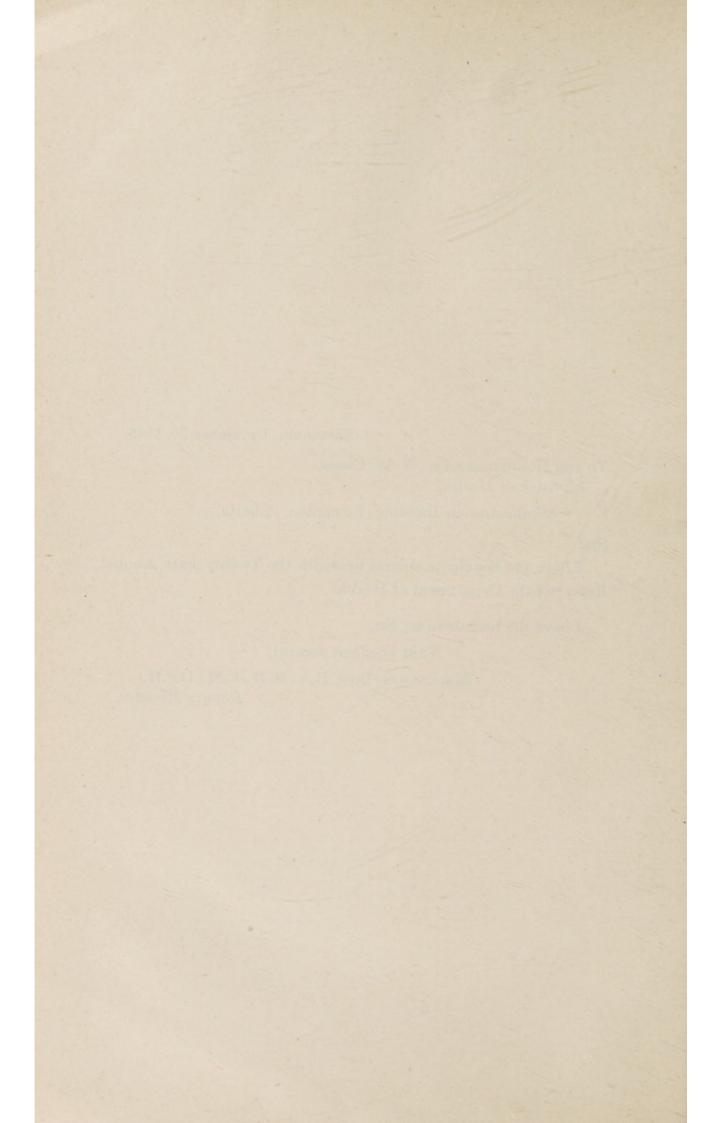
SIR:

I have the honour to submit herewith the Twenty-sixth 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-SIXTH 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. Entomology.

6. Public Health Nursing.

7. Municipal Hospitals.

8. Social Hygiene.

9. Sanitary Engineering and Sanitation.

10. Dental Services.

11. Cancer Services.

12. Mental Health.

13. Institutions: Provincial Mental Hospital, Ponoka.

Provincial Auxiliary Hospital, Claresholm.

Provincial Auxiliary Hospital, Raymond.

Provincial Mental Institute, Oliver.

Provincial Training School, Red Deer.

14. Tuberculosis Control and the Central Alberta Sanatorium, Calgary.

15. Vital Statistics.

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

#### PROVINCIAL BOARD OF HEALTH

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

#### REGULATIONS PASSED DURING THE YEAR

O.C. 1364-44: Regulations Governing the Sale of Cheese in the Province of Alberta.

#### LEGISLATION PASSED DURING THE YEAR

The Maternity Hospitalization Act, 1944 (Chap. 9).

This Act provides for the free hospitalization of maternity patients when they have resided in Alberta for the period set out in the Act, and also under special circumstances to be defined by Order in Council. Provision is made for the Minister of Health entering into agreements with the various hospitals and approved nursing homes for the hospitalization of the patients in question.

Section 4 authorizes the Minister, with the approval of the Lieutenant Governor in Council, to make regulations in connection with the details in the carrying out of the Act.

Section 5 defines the women who are entitled to the benefit of the Act and limits the period of free hospitalization to twelve days.

Section 6 provides for persons obtaining hospitalization in a semiprivate ward at their own expense in so far as the extra expense is concerned, and section 7 provides that persons may make arrangements for their own hospitalization without regard to the Act.

The Act came into force on April 1st, 1944.

Department of Public Health Act Amendment Act, 1944 (Chap. 23).

This Act amends The Department of Public Health Act, Chapter 13, R.S.A. 1942.

The object of this amendment is to provide for cases where Alberta residents are being hospitalized in another Province for tuberculosis or mental diseases, and residents of other Provinces are being similarly treated in this Province. It seems desirable that reciprocal arrangements should be entered into to avoid moving of patients from one Province to another when perhaps they are not in fit condition to be moved.

This Act came into force on March 1, 1944.

The Vital Statistics Act Amendment Act, 1944 (Chap. 25).

This Act amends The Vital Statistics Act, Chapter 30, R.S.A. 1942.

Section 1 of this Act which adds a new subsection to section 25 of the Act requires a copy of the police report of any investigation into a sudden, violent or suspicious death to be sent to the Registrar General so that it may be filed with the registration of death. This provision makes the Act conform to present practice.

The new section 31 of the Act set out in section 2 of the amending Act makes a change in the provision as to registration of stillbirths. Such births are to be in future recorded separately, and where the stillbirth occurs within a period of less than twenty-eight weeks gestation, it shall not be registered.

The amendment made by section 3 of this Act introduces a new provision as to late registration. Section 36 of the Act provides that after the expiration of one year from the date of any birth, marriage or death the particulars shall not be registered except with the written authority of the Registrar General. The new subsection (2) added to section 38 of the Act by the Amending Act provides that if such an application is made to the Registrar General after the expiration of four years from the birth, marriage or death, the application must be verified by an affidavit and must also be accompanied by some documentary or other evidence satisfactory to the Registrar General and substantiating the particulars in the registration form.

This Act came into force on March 24, 1944.

The Public Health Act Amendment Act, 1944 (Chap. 53).

This Act amends The Public Health Act, Chapter 183, R.S.A. 1942.

The amendments to sections 6 and 7 incorporate a reference to full-time health districts. The sections formerly referred only to local boards of health.

The new section 10 enacted by section 5 of the amending Act omits the former requirement of submitting an analysis of water from the proposed source of supply with the application to the Provincial Board of Health for a certificate authorizing construction of a waterworks system. Subsection (2) of the section authorizes the Board to require changes in plans and specifications before granting a certificate, and subsection (3) exempts from the requirement of a certificate certain minor alterations in a waterworks system. Subsection (4) prohibits a waterworks superintendent from extending a waterworks system without the written authority of his employers, and subsection (5) imposes penalties for breach of section 10.

Section 6 of the amending Act strikes out sections 12 and 13 and substitutes therefor nine new sections.

The new section 12 by subsection (1) gives the supervision of all springs, wells, etc., used as the source of a public water supply, etc., in so far as the purity of water is concerned to the Provincial Board. Subsection (2) authorizes the Board to inquire into and determine complaints made by riparian owners as to pollution of water. When the Board recommends the removal or treatment of the polluting material, the riparian owner or the Minister may apply to a judge for an order in accordance with the recommendation of the Board.

The new section 13 empowers the Provincial Board to prescribe an area surrounding and including a reservoir of water intended for human consumption to which no live stock shall be allowed access and within which no sewage, etc., may be deposited. Subsection (2) prescribes penalties for breaches of subsection (1). Subsection (3) prescribes a penalty for bathing or swimming in the reservoir.

The new section 13a requires a water company or municipality or any person distributing water to make returns when required by the Board, and prescribes a penalty for failing to do so.

The new section 13b prohibits the construction of a sewerage project without a certificate from the Board, and prescribes the material which must accompany the application for a certificate and defines the powers and duties of the Board as to investigation of the sanitary requirements and the imposition of conditions as to the project or the disposal of sewage.

The new section 13c empowers the Board to require alterations or additions to a waterworks or sewerage system where such are considered necessary to guard against injury or dangers to the public health.

The new section 13d authorizes the Board to require returns from any person responsible for the operation of a sewerage project.

The new section 13e prohibits a municipality passing a by-law for raising money for the purpose of constructing or altering a waterworks system or sewerage project until the by-law has been approved by the Provincial Board.

The new section 13f authorizes the Board when of opinion that any of the works mentioned in the section are necessary in the interest of the public health in a municipality (that, is, in a city, town or village), to notify the council to take the necessary steps within a prescribed time, and it is provided that where such notice is given, it is not necessary for a by-law authorizing a borrowing to be submitted to the proprietary electors or burgesses. Penalties are provided in the new section 13g for failure on the part of a municipality to comply with the notice.

Section 7 of the amending Act introduces a new section 23a, which is intended to overcome difficulties which have arisen where there has been an overlapping of full-time health districts and districts governed by local boards of health. The effect of the section is that where a municipality is included in a full-time health district it shall cease to be a health district or governed by the local board of health, and full jurisdiction under the Act is given to the full-time health district and to its medical practitioner, who will have the powers formerly exercised by the local medical officer of health.

Section 8 of the amending Act adds a new section to the Act and provides a day to day penalty for a person previously convicted with respect to a nuisance or some unsanitary condition who fails to remedy the condition after notice from the Board.

This Act came into force on March 24, 1944.

#### The Hospitals Act Amendment Act, 1944 (Chap. 54).

This Act amends The Hospitals Act, Chapter 184, R.S.A. 1942.

Section 4 of the Act gives the Lieutenant Governor in Council power to prescribe regulations respecting the management, maintenance, operation of and accommodation in hospitals, and the proposed amendment to this section is to remove any doubt as to whether the Lieutenant Governor in Council may make regulations dealing with the appointment, dismissal and suspension of the medical staff of a hospital.

Section 6 of the Act dealing with the treatment by hospitals of indigent residents of municipalities, places a limit of liability on the municipality for each patient of Two Hundred Dollars a year, the result being that in many cases hospitals are put to a great expense in treating indigents without any return beyond the two hundred dollars in the year. Some municipalities have expressed willingness to pay more than two hundred dollars in certain cases, and the object of the amendment is to allow a municipality to do this without any liability being imposed upon the councillors who are authorizing such additional payment.

This Act came into force on March 1, 1944.

#### The Municipal Hospitals Act Amendment Act, 1944 (Chap. 55).

This Act amends The Municipal Hospitals Act, Chapter 185, R.S.A. 1942.

The purpose of the amendment to section 51 is to provide that the election of the chairman and vice-chairman shall not be held until March so that members elected at municipal elections in February may be present.

This Act came into force on March 1, 1944.

## The Tuberculosis Act Amendment Act, 1944 (Chap. 56).

This Act amends The Tuberculosis Act, Chapter 195, R.S.A. 1942.

The Act as it now stands provides for free hospitalization in a sanatorium of residents of Alberta suffering from tuberculosis. There are cases of non-tuberculosis lung diseases which really are not covered by the Act. The amendment authorizes the Minister to make agreements with local authorities for the treatment of such persons, the terms of the agreements, including the cost of the treatment, being left to be determined by the Minister and the local authority.

This Act came into force on March 1, 1944.

#### The Venereal Diseases' Prevention Act Amendment Act, 1944 (Chap. 57).

This Act amends The Venereal Diseases' Prevention Act, Chapter 196, R.S.A. 1942.

The purpose of the amendment to subsection (1) of section 3 is to extend the authority of the Provincial Board of Health as to examination of prisoners in gaol in cases where they have been convicted under The Juvenile Delinquents Act, 1929, as well as under The Criminal Code.

The amendment to subsection (2) of section 3 extends the operation of that section to cases where a person is under arrest or in custody under The Juvenile Delinquents Act, 1929.

Similarly, the amendment to section 4 (1) (b) (ii) extends the authority of the magistrate to persons before him charged under The Juvenile Delinquents Act, 1929.

This Act came into force on March 24, 1944.

#### DEPARTMENT OF PUBLIC HEALTH

AND EXPENDITURE FOR THE FISCAL YEAR ENDED MARCH 31, 1945

RE	VENUE AND EXPENDITURE FOR THE	Salaries	Expenses	Revenue
601.	Administration (General)	\$ 7.692.00	S 664.11	
	Administration (General)	15.203.47	1.824.49	
602. 616.	Administration (Chiropractic Act)	Internation	160.00	896.42
618.	Administration (Postage)		1,800.00	
	Administration (Election of Rep.			
636.	Municipal Hospital Beds)		477.25	
000	Grants to Approved Hospitals		593.419.35	
603.	Expenses Hospital Inspection	3,959.48	931.57	274.00
603.	Communicable Diseases	3.096.13	36.334.81	2.041.44
605.	Sanitary Engineering	8.406.62	4.182.70	1.874.28
605.	Grants Full Time Health Districts	CITOCHOR	48.345.73	
605.	Public Health Nursing	70,006.38	18,519.76	13.959.73
606.	Vital Statistics	34,832.31	5.385.20	79,652.46
607.	Municipal Hospitals	3.442.00	1.417.88	
608.	Municipal Hospitals	0,110.00	11.947.78	
609.	Insulin Coalal Hugiana	15,590.28	15.438.98	
610.	Social Hygiene	10,000.00	2,962.50	
611.	Grants to Orphanages		20.000.00	
619.	Grants to University Hospital			26.00
621.	Travelling Clinic	5.177.28	5.915.14	
622.	Mental Hygiene Grants to University Laboratory	0,111,00	4.750.00	
626.		777.70	22,433.19	
631.	Pollomyelitis Cancer Treatment and Prevention	15,967.30	69,529.85	
633.	Maternity Hospital Service	1.090.37	510.648.39	
637.	Civil Service Nurse	1.526.85	445.23	
638.	Public Health Education	5,204.21	3.591.51	
639.		1.736.66	8.645.72	
640.	Control Insect-borne Diseases		0,010112	
612-1			98,529.69	96,353.01
613-2	Provincial Mental Institute, Onver	197,528.78		
612-2	2. Provincial Training School, Red Deer	89,556.61	40,779.11	62,052.25
612-3 613-1		332,527.37	170,496.85	195,676.21
612-4	the second secon	17.945.38	13.486.96	10,508.28
612-5	Auxiliary Hospital, Raymond	19,628.09	13,789.66	7,220.38
604. 604-0	C Alberta Sanatorium, Calgary	168,973.89	272,029.35	103,272.25
		\$1,019.868.46	\$1,998,882.76	\$ 573,806.71
Tota Less	Expenditure Public Health Department Public Health Revenue	\$3,018,751.22 573,806.71	La.2.14	
Net	Expenditure Public Health	\$2,444,944.51		

### \$2,444,944.51

#### VITAL STATISTICS

Vital statistics registered during the year were as follows: 19.372 BNI

SILTINS	7.299
Marriages	
Deaths	6.320

In all cases in which rates are shown, these are based on an estimated population of 818,000. 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 1939 to 1944:

Year	No. of	Birth	No. of	Marriages	No. of	Death
	Births	Rate	Marriages	Rate	Deaths	Rate
1939	16,470	20.90	7,838	9.90	5,789	7.30
	17,359	21.84	8,782	11.00	6,203	7.80
	17,308	21.70	8,470	10.70	6,385	8.10
	18,317	22.70	9,037	11.20	6,091	7.50
	19,290	24.30	7,771	9.80	6,524	8.20
	19,372	23.70	7,299	8.90	6,320	7.70

The birth rate for 1944 is 23.7, as compared with 24.3 for 1943. The marriage rate for 1944 is 8.9, as compared with 9.8 in 1943. The death rate for 1944 is 7.7, as compared with 8.2 for 1944.

#### General Health Conditions.

The deaths of 6,320 persons were registered in Alberta in 1944. Of this number, 3,823 were males and 2,497 were females. There were 204 fewer deaths registered than in the previous year. There were 379 deaths from Pneumonia is 1944, a decrease of 28 as compared with the previous year, and 128 deaths from Influenza, a decrease of 25 as compared with the previous year. Deaths from Pulmonary Tuberculosis numbered 229 in 1944 as compared with 224 the previous year. The chief cause of death is heart disease, 1,534 deaths having been registered as due to this cause, giving a rate of 187.5 per 100,000 population, as compared with the rate of 194 for the previous year. Deaths from Cancer registered in 1944 number 781, a rate of 95.5 per 100,000 population, as compared with 748 deaths from this cause and a rate of 94 in 1943. Deaths from violence, excluding suicide, numbered 484, as compared with 588 for 1943, the respective rates being 59 and 73.

The infantile mortality rate in 1944 is 46, as compared with 42 for 1943. Special reference to the infantile death rate will be found in another section of this report.

The maternal mortality rate in 1944 is 1.6, as compared with 2.6 for 1943. This is the lowest rate recorded in the history of the Province, and is, I believe, the lowest rate ever recorded in Canada. The deaths due to conditions associated with pregnancy numbered 31, as compared with 52 for the previous year, a decrease of 40%.

Forty-two deaths were reported as due to Whooping Cough in 1944, as compared with 12 deaths from this cause in 1943. Of these 42 deaths, 29 were infants under one year of age. These figures serve to emphasize the fact that Whooping Cough is a very serious disease. 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 4,771 cases of Measles, with 10 deaths, and 384 cases of Rubella, with no deaths reported, in 1944. 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 8.6, as compared with 6.2, the rate for 1943. The increase is largely due to the increased number of deaths from Whooping Cough.

There were 57 cases of Diphtheria, with 5 deaths, reported in 1944, as compared with 46 cases and 11 deaths in 1943. Of the 57 cases reported in 1944, 5 were reported by cities, 4 by towns and villages, and 48 by rural districts. The death rate for Diphtheria in 1944 was 0.6, as compared with 1.4 for 1943. Diphtheria is an entirely preventable disease, and there should not be a single death recorded from this cause. Diphtheria Toxoid for the immunization of children is supplied free of charge by the Department to physicians, local health authorities, and local school authorities. There are still a number of areas in the Province in which little has been done by local authorities to protect pre-school and school children from this highly dangerous disease. An ounce of prevention is worth many pounds of cure.

In 1944, 2,045 children in 63 outlying districts were immunized against Diphtheria by one of the Health Inspectors on the Departmental staff, who devotes part of his time to this work.

No cases of Smallpox were reported in 1944. Surveys which have been made by the Department in previous years indicate that there are many areas in the Province in which not more than onethird of pre-school and school children are vaccinated against Smallpox. From the public health standpoint, this constitutes a dangerous situation. Should Smallpox occurr in such communities, it would be almost certain to spread with great rapidity, and should the outbreak be of the malignant type of this disease, the results would be tragic. I would again emphasize the importance of vaccinating children against Smallpox within the first six months of life. Vaccination should be repeated when the child enters school, and need not again be done except on exposure to the disease in after years. Smallpox vaccine is provided free of charge by the Department to physicians, local boards of health, and local school authorities.

In 1944, 2,431 persons in 63 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 our well settled areas.

In 1944, 2,615 cases of Scarlet Fever, with 9 deaths, were reported, as compared with 1,676 cases and 7 deaths in 1943. Most of the cases were of the mild type, but even in the mild type complications occur. Scarlet Fever should be regarded as a serious disease. The more promptly cases are recognized and treated, the better for the patients and the communities concerned. The following is a summary of the Scarlet Fever cases reported in 1944:

Under 1 year ; 1 to 4 years 5 to 14 years	$10 \\ 410 \\ 1.296 \\ 234$
15 to 19 years 20 or over Age not stated	234 610 55
Total	2.615
Cases reported by cities Cases reported by towns and villages Cases reported by rural districts	$1,751 \\ 319 \\ 545$

There were 101 cases of Typhoid Fever and 7 cases of Paratyphoid Fever reported in 1944, as compared with 11 cases and 9 cases respectively in 1943. Eight deaths occurred from Typhoid Fever in 1944, giving a death rate of 1, compared with a death rate of 0.1 in 1943. An outbreak of Typhoid Fever due to infected cheese was responsible for 83 cases and 7 deaths. The investigation of this outbreak involved a tremendous amount of time and effort. This investigation showed that milk shipped to the cheese factory was contaminated by a typhoid carrier. Details of the investigation will be found in the report of the Communicable Diseases Division.

This outbreak serves to emphasize the important role played by typhoid carriers in the spread of infection. Careful supervision and control of such carriers is of vital importance if we are to ensure that they do not become factors in the spread of infection. The cooperation 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 an effective means of safeguarding such products. Pasteurization provides protection not only against Typhoid Fever, but other milkborne diseases as well.

#### Division of Entomology.

In May, 1944, a Division of Entomology was established with the appointment of Mr. J. H. Brown, M.Sc., as Public Health Entomologist. Mr. Brown has had charge of the Rocky Mountain Spotted Fever and Sylvatic Plague Survey since this work was first undertaken in 1937. The control of insect-borne diseases, Sylvatic Plague and Rocky Mountain Spotted Fever Surveys, and rodent control will all come under the direction of the Public Health Entomologist. Under the new set-up, the Director of this Division will devote his time to the supervision of field work and the direction of investigations relating to the various problems with which the Division is concerned.

In 1944, 1,148 drag ticks were taken in 28 collections. Rocky Mountain Spotted Fever infection was found in three collections. Two cases of Rocky Mountain Spotted Fever, one of which proved fatal, occurred at Redcliff. There were 356 persons in the Redcliff district and 451 persons in the Manyberries district vaccinated against the disease.

During the Sylvatic Plague Survey, 501 Richardson ground squirrels were collected. These animals yielded 2,010 fleas in 50 pools, and 54 tissue specimens were forwarded to the laboratory at Kamloops for examination. None of these specimens were reported positive.

During the year a study of the Tularaemia situation in Alberta from 1931 to 1944 was undertaken. The report of this study will be published shortly. In 1944, three definite and two probable cases of Tularaemia were reported.

A survey of the distribution of rats in Western Canada and the North-western United States was completed during the year. In this survey, authorities of the Canadian National Railways, Canadian Pacific Railways, Northern Alberta Railways and the Great Northern Railway gave splendid co-operation in the completion of questionnaires which were sent out to all station agents. The information obtained, which is now being compiled, indicates that rats are definitely established east, west and south of the Alberta border, and that rats are likely to present a problem requiring serious consideration in Alberta in the not far distant future.

The production of educational films, in colour, on Sylvatic Plague and Rocky Mountain Spotted Fever, which was started during the previous year, was completed in 1944. These films have been shown extensively and have been well received.

Educational work in regard to the prevention and control of insect-borne diseases was carried on along the same general lines as in previous years. A number of scientific papers were prepared and appeared in various journals during the year.

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

#### Poliomyelitis.

In 1944, 107 cases of Poliomyelitis were reported, and one death occurred from this cause. The majority of these cases occurred in the southern and south central areas of the Province.

Under the provision made for free treatment of patients suffering from paralysis due to Poliomyelitis, 53 patients were admitted to the University Hospital, Edmonton, and seven to the Junior Red Cross Hospital in Calgary.

Assistance was extended by the Department to enable 21 patients to complete academic and secretarial courses, and to take vocational training.

#### Influenza and Pneumonia.

In 1944, 128 deaths occurred from Influenza as compared with 153 deaths from this cause in 1943; 379 deaths occurred from Pneumonia in 1944 as compared with 407 in 1943. There were 53 fewer deaths from Influenza and Pneumonia registered in 1944 than in 1943.

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

#### Tuberculosis.

During 1944, 291 deaths were reported from Tuberculosis as compared with 294 deaths in 1943. The death rate for all forms of Tuberculosis, including deaths occurring among the Indian and Metis population, is 35.5 in 1944, as compared with 37.1 in 1943. The total deaths from all forms of Tuberculosis, excluding deaths which occurred in the Indian and Metis population, numbered 141 in 1944, one less than the number reported in 1943, giving a death rate of 17.2 (per 100,000 population).

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

Diseases of the heart accounted for 1,534 deaths in 1944 as compared with 1,550 in 1943. These 1,534 deaths represent 24.2% of the deaths from all causes reported for the year, and represent a death rate of 187 (per 100,000 population) as comared with 194 in 1943.

Diseases of the arteries were reported as the cause of 121 deaths in 1944, as compared with 116 in 1943.

With the aging of our population there has, in recent years, 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 could be classified as preventable. If periodic medical examinations were carried out as a routine, many heart conditions would be discovered in the early stages, and persons showing evidence of

#### DEPARTMENT OF PUBLIC HEALTH

such conditions could be assisted to make the necessary changes in their mode of living which the circumstances might indicate. Periodic medical examinations for children and adults would also reveal foci of infection which, in many cases, are factors in the development of diseases of the heart and arteries. In this, as in other fields, early recognition and the prompt attention of a skilled physician would prolong many lives.

#### Cancer.

There were 781 deaths registered as due to Cancer in 1944, an increase of 35 over the previous year. The death rate from Cancer in 1944 is 95.5 (per 100,000 population) as compared with 94 in 1943. As mentioned in previous reports, the trend in the Cancer death rate is upward. Cancer occupies second place in the list of causes of death, and in 1944 accounted for 12.3% of the total deaths registered in the Province. It is necessary to reiterate the vital importance of early recognition and prompt and effective treatment in Cancer. Cancer authorities have pointed out that the death rate from this disease could probably be reduced by 50\% if early recognition and prompt treatment were the rule rather than the exception.

Educational work, which is of vital importance in this field, has been carried on along the same general lines as in previous years. The Division of Cancer Services co-operated with the Alberta Branch of the Canadian Society for the Control of Cancer and the Alberta Division of the Canadian Medical Association in this educational work.

The two diagnostic clinics, one in Edmonton and the other in Calgary, had a busy 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. Hospital care is provided 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 by the Department 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 1944:

EDMONTON CLINIC: Examinations of new patients Re-examinations	1.099 875	1.974	
CALGARY CLINIC: Examinations of new patients Re-examinations	627 291	918	
Total, both Clinics		2,892	

Of the new patients examined at the clinics, 56% were found to be suffering from Cancer. There were 478 patients referred for diagnosis by X-ray, 666 patients were given radium or X-ray treatments, and 779 patients were referred for surgical treatment.

#### Deaths Due to Violence.

Deaths reported as due to violence (excluding suicides) numbered 484 in 1944 as compared with 587 in 1943, representing 7.6% of the total deaths registered in the Province for the year, and

giving a death rate of 59.1 (per 100,000 population) as compared with 74 in 1943.

There were 58 suicides in 1944 as compared with 79 in 1943.

Highway accidents accounted for 89 deaths, of which 7 were due to automobile accidents, a decrease of 18 in the number reported for the previous year. As will be noted from these statistics, highway accidents constitute an important cause of death and result in serious disability and great expense to a large number of our people.

There were 49 deaths reported from drowning in 1944, as compared with 43 in 1943. Practically all such deaths are preventive. There is a great need of effective educational work in this field.

It is necessary to again call attention to the number of deaths which occur each year as a result of the destruction of homes by fire, in which, in most cases, the parents are absent from the home and have left young children to their own resources. A number of cases are on record in Alberta in which several children have been burned to death under these tragic circumstances.

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

Suicides	58	Hunger or thirst
Homicides	6	Excessive cold 6
Railway accidents excluding motor vehicles	21	Excessive heat 1 Lightning 1
Motor vehicles accidents	72	Food poisoning 1
Street car and other transport acci- dents	17	Accidental absorption of poisonous gas 6
Water transport	6	Acute accidental poisoning of solids
Air transport	41	or liquids
Accidents in mines and quarries	8	Conflagration
Agriculture and forestry	46	Accidental burns (conflagration ex-
Other accidents involving machinery	10	cepted)
Accidental mechanical suffocation	12	Accidents due to electric currents 5
Accidental drowning	49	Other accidents
Accidental injury by firearms	10	Legal executions
Accidental injury by cutting or		
piercing instruments	1	542
Accidental injury by fall or crushing	86	
Injury by animals	8	

#### Infantile Mortality.

There were 889 deaths of children under one year of age registered in 1944 as compared with 810 such deaths in 1943, an increase of 79 deaths. The infantile mortality rate for 1944 is 46 as compared with 42 for 1943.

I would again call attention to the higher death rate among children who reside in the rural districts and smaller urban centres not served by health units. In 1944, the average infantile mortality rate for rural districts (including the smaller urban centres) was 49, and the rate for the cities of the Province was 39. This means that in 1944 the death rate of children under one year of age in rural districts (other than health unit areas) was 25.6% higher than the death rate for this age group in the cities.

Of the 889 deaths of children under one year of age in 1944, 518 or 58.2% occurred within the first month of life, of which number 397 occurred within the first week and 252 on the first day of life. These figures indicate that there is still urgent need for the expansion of our preventive health services through the organization of additional full-time district health units until the advantages of this service are made available throughout the Province. 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 1944 was 1.6 as compared with 2.7 in 1943. The average maternal death rate for the past five years is 2.8. The rate for 1944 is the lowest ever recorded in the Province, and is probably the lowest rate ever recorded in Canada.

The following are the chief causes of maternal deaths registered in 1944:

Abortion with mention of infection	1
Abortion without mention of infection	3
Ectopic gestation	2
Haemorrhage of pregnancy, death prior to delivery	
Toxaemia of pregnancy, death prior to delivery	33
Other diseases and accidents of pregnancy, death prior to delivery	3
Haemorrhage of childbirth and puerperium	10
Infection during childbirth and the puerperium	4
Puerperal toxaemias following delivery	
Other accidents of childbirth	23
Other and unspecified conditions of childbirth and the puerperal state	3
	-
Total	31

We are satisfied that if our present knowledge concerning maternal hygiene were fully applied, the maternal death rate could be maintained at a minimum level, and a great deal of invalidity, both preceding and following childbirth, could be prevented. This is a major public health problem.

We can look forward with every confidence to further reductions in our maternal and infant death rates as we go forward with the extension of full-time rural health services in the Province. In 1944, 91.5% 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 lines as in recent years. Owing to the enlistment of medical officers of health and the impossibility of finding replacements, it has been necessary to arrange for part-time service of local medical officers of health in five of the District Health Units. Constant changes in staff of Public Health Nurses have continued, and have greatly increased the difficulties experienced in maintaining the efficiency of the service in the various health units.

In August, seven additional health units were established, with the appointment of one Public Health Nurse in charge of the service in each of these units. The new health units established on this basis are as follows: Rocky Mountain House, Brooks, Colinton, Westlock, Strathmore, Granum and McLennan. Nurses who had completed the course in Public Health Nursing at the University of Alberta were appointed to take charge of these seven new health units, and have given excellent srvice. As soon as it is possible to obtain the medical, nursing and other technical staff required, it is the policy of the Department to bring the staff of each of our health units up to strength. It is, of course, impossible to maintain an effective preventive health programme without an adequate staff properly trained for the responsibilities they are called on to assume.

The activities of 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, Records and Statistics, General Sanitation, etc.

#### Health Education.

Our health educational work is carried on through the publication of bulletins, articles in the press and by means of lectures, radio talks, movies, health exhibits and demonstrations. About 32 Departmental bulletins and pamphlets and about 130 publications issued by various organizations are distributed by the Department. During the year, more than 90,000 bulletins and pamphlets were distributed. The lecturer in charge of health educational work gave many lectures throughout the Province.

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. The need for expansion of our health educational service is great. This is a service of fundamental importance to the health of our people.

In co-operation with the Lamont School Division, Dr. H. Siemens, Medical Officer of Health of the Lamont Health Unit, arranged for a course in Health Education for 20 teachers of the Lamont School Division. This course extended from August 1st to August 31st, with the purpose of giving the teachers a knowledge of the fundamentals of health and general information concerning the activities of full-time health units. Approximately one-half of the time available for the course was spent on nutrition. The Department of Education, the Faculty of Education of the University and this Department co-operated with the staff of the Lamont Health Unit in this undertaking. Those taking the course were required to write examinations on the completion of the same, and those whose work was satisfactory were granted University credits and some financial recognition by the Board of the Lamont School Division. It will be of interest to follow the work of this group of teachers in the school and in the communities they serve. It has long been recognized that the teacher is a key person in the community and can, if properly trained, give service of the first importance in health education, not only in the school, but also in the community. Through the co-operation of Mr. Dan Campbell of the Publicity Department a film was made showing the activities carried on in connection with this teacher training programme.

Our plans for the development of a programme on nutrition in the various health units have had to be suspended on account of the resignation of Miss Coburn. As soon as the necessary personnel and office accommodation can be found, the Department proposes to develop this as an integral part of the health education programme in our health units.

As in former years, literature on nutrition has been in demand, and the same has been distributed by the Health Education Division. Much valuable material on nutrition has been made available to the Department by Nutrition Services, Department of Pensions and National Health, and we greatly appreciate the kind co-operation extended by that Division in connection with this service.

#### Public Health Nursing.

There are 43 nurses on the staff of the Department (not including Public Health nurses on the staff of health units). 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 Redcliff 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 36 District Nurses stationed in outlying districts remote from medical and hospital services.

Reference was made in last year's report to the special course in Obstetrical Nursing for graduates in Nursing at the University of Alberta. This course is meeting a long felt need in making available nurses with special training and experience in obstetrics for service in outlying communities.

There were 695 Child Hygiene Clinics held in Edmonton, Calgary, Medicine Hat, Redcliff, Drumheller and Vegreville, with a total attendance of 22,407 infants and pre-school children.

A summary of the work of our District Nurses is shown in the following table:

No. of homes visited	6,753	No. of pre-natal consultations	465
No. of office visits	25,704	No. of child welfare visits	433
No. of dressings	494	No. of cases referred to doctors	416
No. of medical cases		No. of Smallpox vaccinations	4,184
No. of surgical cases		No. of Diphtheria, Whooping	
No. of obstetrical cases		Cough and Typhoid inoculations	
No. of abortions		No. of communicable disease cases	1.640
No. of pre-natal visits			

In addition to the 43 nurses employed on the staff of the Department, there are 25 Public Health nurses serving on the staff of our District Health Units. Since the beginning of the war, it has become an increasingly difficult problem to maintain an efficient Public Health Nursing Service, but every effort has been made to meet the situation and maintain the service in as effective a manner as possible.

#### Travelling Clinic.

Owing to the impossibility of obtaining the medical, dental and nursing staff required, the Travelling Clinic did not operate in 1944.

#### Social Hygiene.

Seven clinics were conducted by the Division of Social Hygiene, one in each of the four larger cities, and one at High Prairie, Mc-Lennan and Peace River. In addition, a clinic is held in each of the Provincial Gaols at Lethbridge and Fort Saskatchewan. Cases under treatment in all clinics during 1944 were as follows: Syphilis, 359, Gonorrhoea 904, making a total of 1,263.

Educational work in connection with venereal disease control has been conducted along the same lines as in previous years. We hope to be in a position to expand our educational programme in the near future with the employment of the additional personnel required for more intensified follow-up work.

Splendid co-operation has been given by physicians, various local Boards of Health, the Royal Canadian Mounted Police and local police authorities in the conduct of this work. We have also had splendid co-operation from the Royal Canadian Air Force, from the Military and Naval authorities, and from the American authorities in this work. Frequent staff conferences attended by representatives of various civilian, Air Force, Military and Naval authorities have been held during the year, and have proven of great value.

#### Provincial Laboratory.

The staff of the Provincial Laboratory made 121,147 examinations in 1944, the largest number in the history of the Laboratory. The staff has been severely taxed in endeavouring to cope with the ever increasing volume of work. The need of additional laboratory space is most urgent and should receive the earliest possible consideration. A very high standard of service is provided by the staff of the Provincial Laboratory, and if this standard is to be maintained much more adequate space as well as more adequate staff must be made available.

The work of the Provincial Laboratory includes examinations of water, ice, sewage, milk, various examinations in connection with communicable disease control, examination 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 1944, on the basis of minimum charges only, is \$196,195.40.

All public health laboratory service is provided free of charge, with the exception of serological tests made for the various Armed Services, the charge for which is based on the 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 were issued for the same, as required under the provisions of The Public Health Act.

During the year, 2,670 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 which required attention.

The work of the Plumbing Inspector has been carried on as in previous years. This service is meeting a great need in districts in which no adequate local supervision of plumbing installations and repairs is available. Additional staff is required in order to deal with this problem effectively.

I wish, once again, to stress the responsibility of local municipal authorities for the safety of public water supplies. Raw water drawn from streams, irrigation ditches and such other sources is unsafe for human consumption. Any municipal authority permitting 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 for the control of milk supplies. Municipalities which permit the use of contaminated water and the sale of unsafe milk are certainly inviting trouble. Eternal vigilance is the price of safety.

There were 53 complaints and requests for investigations received from various municipalities and referred to the Sanitary Inspectors for attention. Sixty inspections of lumber, tie, saw-mill and mining camps were made during the year. Excellent service has been given by our Sanitary Inspectors. When our District Health Unit Services are extended to cover the entire Province, and when a more adequate staff of Sanitary Inspectors is thus made available, we will be in a position to maintain a more satisfactory and complete sanitary inspection service.

#### Dental Hygiene.

The shortage of dentists in the Province has been such that it has not been possible to provide dental service in outlying districts in which there is such an urgent need for this service. An effort has been made to provide essential dental services in our various institutions with the limited dental staff it has been possible to secure. A report of the dental work of the various institutions will be found in the reports of these institutions.

#### Hospital Inspection.

In 1944, 95 approved hospitals received the government grant. Under the provisions of The Private Hospitals Act, 74 private hospitals (largely Nursing Homes and Baby Shelters) were licensed.

The total number of operations reported by hospitals in 1944 was 49,944.

On the basis of returns received from 93 approved hospitals, the total bed capacity, including cribs, was 5,189, the total bed complement 5,192 and, in addition, 940 bassinets.

On the basis of a population of 818,000, there is one hospital bed available, including cribs and bassinets, for every 133 of our population, or 7.5 per 1,000 population.

Construction of the following hospitals was begun in 1944: Didsbury Municipal Hospital, Eckville Municipal Hospital, Raymond Municipal Hospital. In addition, Innisfail Municipal Hospital constructed a Nurses' Home.

There were 30 Municipal Hospitals in operation in 1944, providing accommodation for 1,233 patients. During the year, 29,226 patients received treatment in these 30 Municipal Hospitals, representing 22% of all patients receiving treatment in approved hospitals.

The acute shortage of nurses created serious problems for the approved hospitals, particularly for the smaller hospitals, and there appears to be little prospect of any material improvement in this situation until after the war. The increase in costs of hospital supplies and equipment have also been problems for many hospital boards.

#### Division of Tuberculosis Control.

The number of treatment beds available for Tuberculosis has been increased from 415 in 1943 to 500 in 1944, in order to meet the growing need for accommodation. Patient days for all santoria in 1944 totalled 142,766, as compared with 146,338 in 1943.

During the year the Tuberculosis Division provided diagnostic service for 69,848 people, including those examined by the Mobile X-ray unit.

There were 844 new cases of Tuberculosis reported in 1944. Of these, 46.8% were considered active, 49.5% inactive, and 3.7% non-pulmonary.

The 813 new cases of active and inactive Pulmonary Tuberculosis were classified as follows:

Minimal	502	61.7%
Moderately advanced	207	25.5%
Far advanced	104	12.8%

There were 369 new patients admitted to sanatoria in 1944 for treatment.

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, these non-infectious cases of Tuberculosis should be admitted and cared for in as much as many of these patients require highly specialized treatment which is only available in well equipped sanatoria.

During 1944, 7,848 medical examinations were made by the medical staff of the Tuberculosis Division. Nine Tuberculosis Clinic centres were in operation in the Province, and our travelling diagnosticians visited 17 additional centres during the year.

I wish to again direct attention to the urgent need for the erection of a new Tuberculosis Sanatorium in Edmonton. It is our earnest hope that the priorities necessary for this construction may be made available in the near future. The need of more sanatorium beds for Tuberculosis in the northern part of the Province is evident from a study of new cases reported, whose place of residence is north of Red Deer.

At the request of the Indian Affairs Branch of the Federal Government, 1,026 children in 10 Indian Residential Schools were X-rayed, and all who showed abnormal X-ray films were examined. By this means, 41 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 urgently required, in view of the high death rate from this disease in the Indian population.

The Mobile X-ray Unit presented to the Department by the Alberta Tuberculosis Association in 1943 was used to good advantage throughout the year. Mass X-ray surveys were made in a number of districts. During these surveys, 60,186 X-ray examinations were made. This Mobile X-ray unit has been a most valuable aid in the campaign against Tuberculosis.

The Alberta Tuberculosis Association has carried on its programme of rehabilitation of Tuberculosis patients, extending assistance to a number of persons to secure training and subsequently obtain remunerative employment. The need for such a programme is apparent, and the Association has plans for the expansion of the same to meet this need.

#### Mental Health Division.

On January 1st, 1944, there were 3,009 patients in all mental institutions, and on December 31st, 3,059 patients, an increase of 50 patients for the year, or 1.6%. The rate of hospitalized mental patients to general population has increased from 156 per 100,000 population in 1921 to 374 in 1944.

There were 456 patients with psychoses, 120 patients without psychoses, and 11 mental defectives admitted to the Provincial Mental Hospital at Ponoka; 291 patients with psychoses, 119 patients without psychoses, and 19 mental defectives were discharged; 99 deaths occurred during the year, of which number 65 were male patients and 34 female.

There were 93 patients transferred from the Mental Hospital at Ponoka to other mental institutions, including 25 male patients transferred to the Provincial Mental Institute at Oliver, and 68 female patients transferred to the latter institution and to the Claresholm and Raymond Auxiliary Mental Hospitals.

There were 997 patients in the Provincial Mental Institute at Oliver at the beginning of 1944, and 1,071 at the end of the year. During the year, 106 patients with psychoses, 25 patients without psychoses and 8 mental defectives were admitted; 35 patients with psychoses were discharged; 25 deaths of patients with psychoses and 3 deaths of patients without psychoses occurred during the year. Of the 139 patients admitted to Oliver in 1944, 85 were patients transferred from the Provincial Mental Hospital, Ponoka, and the Provincial Training School at Red Deer.

The Auxiliary Mental Hospital at Claresholm provides accommodation for 100 women. There were 100 patients in this institution at the beginning of the year, and the same number at the end of the year. There were 11 admissions, 6 discharges, and 5 deaths during the year.

In the Auxiliary Mental Hospital at Raymond there were 115 women patients on January 1st, 1944, and 109 at the end of the year. During the year, 2 patients were admitted, 2 discharged, and 6 deaths occurred.

The construction of a Farm Dormitory at the Provincial Mental Institute, Oliver, to provide accommodation for 125 patients was begun in the spring, and it is expected that this building will be ready for occupancy early in 1945. Construction of a similar unit should be undertaken at Ponoka as early as possible.

During the year, 21 patients were admitted to the Training School for Mental Defectives at Red Deer, 14 were discharged, 7 transferred, and 3 deaths occurred. There were 276 patients in residence at the beginning of the year and 273 at the end of the year. Construction of an additional unit at Red Deer to provide accommodation for 50 patients was commenced in the spring. This additional accommodation is urgently needed, owing to the large number of patients on the waiting list at that institution.

#### Guidance Clinics.

Guidance Clinics were conducted regularly in Calgary and Edmonton and periodically at Lamont, Red Deer and Stettler. In addition, many clinic cases were seen in consultation at the Provincial Mental Hospital, Ponoka. Owing to the shortage of medical personnel available, under wartime conditions, it was found necessary to curtail this service.

Patients are referred to the Guidance Clinics by local health and school authorities, physicians, magistrates, child welfare and other social agencies. Parents frequently visit these clinics for the purpose of obtaining information and advice in regard to mental hygiene problems with which they are concerned in the home and community. There is an urgent need for the expansion of this service as soon as the funds and the trained personnel required are available. Great credit is due to the physicians and social workers engaged in this work, who have carried on under conditions which are frequently difficult and trying.

During the year, 67 Guidance Clinics were conducted, 267 new cases were presented, and 972 follow-up cases were dealt with. Since the inception of this service in 1929, 5,240 cases have been examined at these clinics.

#### 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 1944. During the year, 131 cases were presented to the Board. Since The Sexual Sterilization Act was proclaimed in 1929, 2,066 cases have been presented to the Board. During 1944, 13 male cases and 27 female cases were sterilized. The total number of cases operated on to the end of December, 1944, is 957, of which 381 were male and 576 female. All operations were performed at the Provincial Mental Hospital, Ponoka.

The Department desires to express its appreciation of the time and attention given by the members of the Eugenics Board, the honorary surgeons and the staff of the various Provincial mental institutions and guidance clinics in the discharge of their responsibilities.

Detailed information concerning the activities of the 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 Sept. 11: 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 of each of the above mentioned institutions. The Department desires to express to the members of the Board sincere appreciation of the service they have rendered.

#### General Administration.

A statement of revenue and expenditure for the year ending March 31st, 1945, will be found on page 13 of this report. An analysis of this statement shows that the total expenditure for all activities of the Department was \$3,018,751.22. The total revenue was \$573,806.71. The net expenditure of the Department was \$2,444,944.51. The sum of \$1,435,271.74 was expanded for the maintenance and operation of the various institutions coming under the administration of the Department. The sum of \$613,419.35 was expended in grants to approved hospitals, \$510,648.39 for the provision of free maternity hospitalization, \$88,526.14 in providing public health and district nursing services, \$85,497.15 in Cancer diagnostic and treatment services, \$48,345.73 in grants to Full-Time District Health Units, \$31,029.26 in venereal disease prevention and control, and \$23,210.19 in connection with Poliomyelitis treatment and rehabilitation.

There is a great need for the further expansion of preventive health services, particularly in our rural districts and smaller urban centres. Funds wisely expended for preventive health services return dividends out of all proportion to the money invested.

In concluding this summary of the activities of the Department for the year 1944, I wish 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, including the Superintendents of our Provincial Institutions and the members of institutional staffs. Under wartime conditions, frequent changes in staff have occurred in our institutions, and great difficulty has been experienced in finding replacements, particularly personnel with anything like adequate training and experience. This has imposed a heavy load both on the staff and administrative officers of our institutions. No praise can be too great for the manner in which they have discharged their responsibilities under most trying conditions.

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)

This Division is responsible for the collection of statistics and information relating to communicable diseases and for the dissemination of that information to Medical Officers of Health, to the Dominion Government, and to others to whom it may be of value. Work relating to tuberculosis and venereal diseases is carried on by other divisions. This Division is directly responsible for the control of communicable diseases in the unorganized parts of the Province and indirectly through the local boards of health for the balance of the Province. Its services are also available in an advisory capacity to local boards of health in case of epidemics.

In the outlying portions of the Province, a Provincial Health Inspector is sent out each summer, who provides an inoculating programme to those communities. Because of the scattered population, this work takes more time than the figures indicate.

#### WORK DONE BY THE PROVINCIAL HEALTH INSPECTOR

Communicable Disease Lectures	17 63
Inoculated against Diphtheria	2,045
Inoculated against Whooping Cough Vaccinated against Smallpox	$1,143 \\ 2,431$

An inoculating programme is also carried out in the southeastern corner of the Province to protect people against Rocky Mountain Spotted Fever. In 1944, 948 were thus protected. Information regarding the work of Mr. J. H. Brown, Public Health Entomologist, and his associates in survey work related to Bubonic Plague and to Rocky Mountain Spotted Fever appears elsewhere.

#### TYPHOID FEVER

#### (Cases 101, Deaths 8)

There were 18 sporadic cases of typhoid fever, scattered throughout the Province at various times. In addition, 83 cases, with seven deaths, occurred in the southern part of the Province, but mainly in Medicine Hat and vicinity, due to the eating of contaminated cheese. This is the third occasion that cheese has been recognized in Alberta as the vehicle by which the typhoid germ was transmitted from a carrier to a group of patients.

In March, 1944, a group of cases of typhoid developed in Medicine Hat and district, and on investigation it was observed that all of these people had been eating unripened (green) cheese. When this lead was followed up, it was noted that although the cheese had been purchased at a variety of stores, that all of it had been manufactured at one cheese factory within two weeks of the time of eating. Soon reports came in of cases in other parts of southern Alberta, and again all of them had eaten green cheese from this same cheese factory. The sale of cheese from this factory was cut off, and all cheese from this source still on the counters of various stores throughout the Province was picked up. A search was then started to find the carrier amongst the staff and milk producers. This was a very large job, requiring a check on 223 persons who might have contaminated the milk. Of these, 19 gave a history of having had typhoid and 51 gave a history of close contact with typhoid cases, while a further 82 gave a history of remote contact. Stool and urine samples were obtained from all of these, and three samples were obtained from each of the 19 who gave a history of having had typhoid fever. In this way a carrier was found, a woman who had had typhoid 21 years previously. Further evidence that this carrier was the cause of the epidemic was provided by the fact that the typhoid bacilli from her stools were the same type as found in cases occurring in the epidemic.

An estimate on the cost of this epidemic, including the cost to the Provincial Government, to municipalities, and to private individuals through hospital bills, doctors bills, funerals and lost time reached over \$200,000.

Six cases of paratyphoid B and one case of paratyphoid A were reported.

#### SCARLET FEVER

#### (Cases 2,615, Deaths 9)

The year 1944 was again an epidemic year, being the third year in a row in which the incidence of this disease has been well above the average. Scarlet fever thus continues to be one of our most serious communicable diseases, chiefly because of complications, such as mastoids, deafness or kidney disease, which develop in some of those who recover.

#### SMALLPOX

#### (Cases 0, Deaths 0)

There have been only three cases of smallpox reported in Alberta since 1939. This should not suggest that the disease has been beaten, for sooner or later it will be imported once more into the Province, and smallpox vaccination should be maintained at a high level.

#### DIPHTHERIA

#### (Cases 57, Deaths 5)

This is the third year in which the number of diphtheria cases has been distinctly above the average for the last ten years. There has also been a steadily rising rate of diphtheria carriers discovered. The figure reached this year is 46. This rising incidence of diphtheria and diphtheria carriers is particularly important at the present time because our troops are returning and because the part of Europe from which they are coming has had, during the past few years, a very high incidence of a very virulent form of diphtheria. It is very probable that this form of diphtheria will be carried to our Province. It is pleasing to report that persons inoculated with our ordinary diphtheria toxoid have a high degree of immunity to this more virulent form of the disease now rampant in Europe.

# PULMONARY TUBERCULOSIS

#### (Cases 853, Deaths 229)

Tuberculosis ranks high among our communicable diseases, being second only to pneumonia, and will continue to hold that position for some years to come. The work for controlling this disease is handled by the Tuberculosis Division, and further information can be found in their report.

#### WHOOPING COUGH

#### (Cases 757, Deaths 42)

The year 1944 showed a reduction in cases following the epidemic years of 1942-43. Among the ordinary communicable diseases, whooping cough continues to be the most serious problem. More infants are being immunized with the Phase 1 vaccine, which is a very effective immunizing agent. Twenty-eight of the deaths were Indians.

#### MEASLES

#### (Cases 4,771, Deaths 10)

Measles is our most infectious disease, and in epidemic years causes a very serious problem because of its complications.

#### ACUTE ANTERIOR POLIOMYELITIS

#### (Cases 107, Deaths 1)

The year 1944 was again an epidemic year for polio, with most of the cases being in the southern part of the Province and with Medicine Hat again bearing the brunt of the attack. It is interesting to note the very low death rate this year, suggesting a much better reporting of mild cases, or that the epidemic was milder. The amount of residual paralysis has continued to be low, suggesting that the disease is actually milder than it was 15 or 20 years ago.

#### TABLE No. 1

COMMUNICABLE DISEASI	E CASES	S AS REPORTED FOR 1943 AND 19	944	
19	943 1944		1943	1944
Actinomycosis	4	Rocky Mountain Spotted Fever	1	2
Anthrax	1	Rubella	551	384
Acute Anterior Poliomyelitis	24 107	Scarlet Fever	1676	2615
Acute Septic Sore Throat	8 10	Smallpox	2	
	759 3512	Tetanus	1	
Diphtheria	46 57	T. B. Meningitis	5	8
Diphtheria Carriers	17 46	Pulmonary Tuberculosis	581	813
Encephalitis	4 1	Non-Pulmonary Tuberculosis	8	32
Erysipelas	31 €	Trachoma		
	478 4771	Tularaemia	4	5
Meningococcic Meningitis	22 18		11	101
Mumps 21	928 2025		5	15
Ophthalmia Neonatorum		Whooning Cough	1520	757
Paratyphoid Fever	9 7			

#### TABLE 2

#### TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR 1943 AND 1944

	1943	1944		1943	1944
Pneumonia (all forms)	407	379	Diphtheria	11	5
Influenza (all forms)		128	Meningococci Meningitis	7	5
Pulmonary Tuberculosis	224	229	Typhoid	1	8
Tuberculosis (all other forms)		62	Acute Anterior Poliomyelitis		1
Erysipelas		2	Measles	19	.10
Scarlet Fever		9	Rubella		
Encephalitis Lethargica		5	Mumps		
Whooping Cough	12	42	Smallpox		4114

#### DEPARTMENT OF PUBLIC HEALTH

#### TABLE 3

#### DEATHS DUE TO COMMUNICABLE DISEASES IN THE CITIES OF EDMONTON AND CALGARY FOR 1943 AND 1944

	Edmonton		Calg	Calgary	
	1943	1944	1943	1944	
Pneumonia (all forms)	56	45	58	35	
Influenza( all forms)	15	7	9	7	
Pulmonary Tuberculosis	49	23	8	16	
Tuberculosis (all other forms)	24	4	1	1	
Diphtheria	1		3	****	
Whooping Cough	4	2	1		
Acute Anterior Poliomyelitis	and h				
Meningococcic Meningitis	3	2	2	2	
Typhoid Fever				****	
Erysipelas	++++		1		
Scarlet Fever	3	1	****	****	
Encephalitis	1			1	
Measles	2	1111			
Mumps				****	
Undulant Fever					
Dysentery	2	1		1	
Smallpox				****	
Chickenpox	1111	10.0	4444	1111	

#### TABLE 4

#### DEATHS DUE TO COMMUNICABLE DISEASES IN THE SMALLER CITIES, TOWNS, VILLAGES AND RURAL DISTRICTS FOR THE YEARS 1943 AND 1944

	1943	1944		1943	1944	
Pneumonia (all forms)	. 293	299	Erysipelas	3	2	
Influenza (all forms)	129	114	Scarlet Fever	4	8	
Pulmonary Tuberculosis		190	Encephalitis	4	4	
Tuberculosis (all other forms)	45	57	Measles	17	10	
Diphtheria	7	5	Mumps	3	·	
Whooping Cough	7	40	Undulant Fever	1		
Acute Anterior Poliomyelitis		1	Dysentery	16	8	
Meningococcic Meningitis	2	1	Smallpox			
Typhoid Fever	1	8	Chickenpox	2		

#### TABLE 5

#### DEATHS DUE TO COMMUNICABLE DISEASES AMONG INDIANS IN THE PROVINCE FOR 1943 AND 1944

	1943	1944		1943	1944
Pneumonia (all torms)	93	83	Meningococcic Meningitis		
Influenza (all forms)		24	Typhoid Fever		
Pulmonary Tuberculosis	117	114	Erysipelas		
Tuberculosis (all other forms)	35	36	Scarlet Fever		1
Diphtheria		3	Encephalitis		
Whooping Cough		28	Measles	6	
Acute Anterior Poliomyelitis		1119	Mumps		****

#### TABLE 6

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	Total Cases	Total Deaths	Morbidi Rate	Mortali Rate	Case Fatality Rate
Acute Anterior Poliomyelitis	107	1	13.3	0.1	0.9
Cerebro-Spinal Meningitis	18	5	2.2	0.6	28.2
Chishannak	3.512		443.0		Sector Sector
This hath and a	57	5	7.2	0.6	8.8
Diphtheria Carriers	46		5.7		
Encombalitie	40	5		0.6	
Encephanus	ė	2	0.7	0.0	****
Erysipelas	ND	128	0.1	15.6	
Mumma	N.R.	120	252.5	10.0	
Mumps	2,025	10		1.0	0.2
Measles	4,771	10	594.0	1.2	0.2
Pneumonia (all forms)	N.R.	379	100.0	40.3	
Pulmonary Tuberculosis	813	229	100.1	28.0	
Pulmonary Tuberculosis (Indians excepted).		115		14.1	
Non-Pulmonary Tuberculosis Non-Pulmonary Tuberculosis (Indians ex-	40	62	5.0	7.6	
cepted)		26		3.1	
Smallpox Scarlet Fever	2.615	9	327.0	1.1	0.3
Typhoid Fever	101	8	12.4	1.0	8.0
Paratyphoid Fever B	7		0.9		
Whooping Cough	757	42	94.5	5.7	5.6
Rubella	384		47.7		

N.R.-Not reported or incompletely reported.

#### INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES FOR THE 10-YEAR PERIOD 1935-1944

	DIPHTHE	RIA			
		Total	Total	Morbidity	Mortality
	Population	Cases	Deaths	Rate	Rate
1934	769,000	31	8	4.00	1.00
1935	770,000	28	8	4.00	1.00
1936 1937	772,782 778,000	47 30	9 10	6.00 3.86	1.00 1.28
1937 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 1944	792,000 818,000	46	11	5.8	1.4
1999	010,000	57	5	7.2	0.6
	TYPHOID I	FEVER			
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 1939	783.000 789.000	77 44	11 6	9.8 5.6	1.40
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
1944	818,000	101	8	12.4	1.0
ACU	TE ANTERIOR	POLIOMY	ELITIS		
1001				10	0.5
1934	769.000 770.000	12 162	4 15	$1.6 \\ 21.0$	0.5 2.0
1936	772.782	18	15	2.3	0.1
1937	MARKED AND A	169	13	21.72	1.67
1938	783,000	105	15	13.4	1.9
1939	and as had not as the	24	5	3.0	0.6
1940	795,000	1.07	4	00.0	
1941 1942	796,169 805,152	167	8	20.9	1.0
1942	792.000	8 24		1.0 3.0	
1944	A 4 5 5 5 5 5	107	1	13.3	0.1
	WHOOPING	COUGH			
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 1939	783.000	310	30	39.6	3.8
1939	789,000 795,000	2.080 1.158	33 55	263.6 45.7	4.2 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
1944	818.000	757	42	94.5	5.7
	CONDIDE	PUPP			
	SCARLET I			1.000	
1934	769,000	378	5	49.1	0.6
1935 1936	770,000	642	8	83.0	1.0
1000	772.782 778.000	2,729 2,123	23 24	353.0 272.9	3.08
1937	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	792,000 818.000	1.676 2.615	7 9	208.0 327.0	0.9
	010,000	2.015	9	021.0	1.1
	SMALLF	ox			
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 1940	789,000 795,000	45		5.7	
1940	796,169	1		0.1	****
1942	805.152	1	****	0.1	
1943	792,000	2			
1944	010 000				****

## DEPARTMENT OF PUBLIC HEALTH

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Totals.

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DEPARTMENT OF PUBLIC HEALTH

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# Health Education

(C. C. Evoy, B.Sc., Supervisor)

Health education is the sum of experience which favourably influences habits, attitudes and knowledge relating to individual, community and racial health. It is the pipe-line system for the distribution of information to all people.

In August of this year the Department of Public Health lost one of its oldest employees in point of service, when Mr. F. T. Cook, lecturer for the Division of Health Education, retired. This terminated a quarter of a century of faithful work in the promotion of health through education. In 1928 health education was organized as an activity of the Department with the appointment of Mr. Cook to take charge of the service. His pioneer work in this field in the twenties won for him lasting credit from the Department and citizens alike. We are sorry to lose one who has done so much for so many.

The Health Education Division during 1944 has had an opportunity to expand its services through an increase in staff. In October of this year Jean Clark, R.N., B.Sc., became half-time assistant to the supervisor. During the brief time she has been with us she has demonstrated her ability in the field as an educator.

The regular programme of lectures, film showing, preparation and distribution of literature, radio broadcasts and enquiry service has been stepped-up to the capacity of our staff.

School health teaching through lessons and films have been welcomed by teachers and pupils alike. The demand for this service is greater than time permits to fulfil.

The Alberta Teachers' Association has been contacted at convention time with respect to the teaching of sex education and venereal disease in the schools. A recommended outline of objectives were submitted to teachers as a work guide in these subjects which have caused difficulty to many. Supplementing the outline is a useful bibliography. Locals and sub-locals of the A.T.A. have made use of our service in health talks.

Our motion picture library is now a repository for films from the Division of Social Hygiene. Their additions number nine, eight sound and one silent reel. All requests for venereal disease films and talks are now referred to our Division.

Towards the latter part of the year a start was made for a complete revision of our reference files. These are gradually being brought up to date. Following this, we hope to introduce a card index system which will greatly reduce the time required to fill requests for reference material on health topics.

The Health Education programme in Alberta is expanding. Further, public need demands its continued expansion. For the whole programme of preventive medicine, the entire battle of humanity against disease, must pivot upon the comprehension and co-operation of the man on the street, the little man behind the plow, and the counter, and the pen. It is his health, his money, his future that are at stake in any public health programme. It is his right not only to understand what his Health Department is striving to do for him, but to understand what he must do for himself. Hence Health Education, and hence the existence of the Health Education Division of the Provincial Department of Public Health.

# 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 Public Health supervises the professional work in approved hospitals, private hospitals and such baby shelters as hold a license from the Department. Early in 1944 special visits were made to about 25 hospitals in an attempt to assess the returns being made on a special questionnaire covering the maternity services in relation to The Maternity Hospitalization Act. Routine inspections are made each year in about half the hospitals in the Province.

## APPROVED HOSPITALS

In Alberta, approved hospitals are those which comply with the provisions of The Hospitals Act and thus are entitled to the Provincial Hospitals Grant. At the end of 1944 there were 95 such hospitals divided as follows:

This is two less than last year because of the closing of the hospital at Daysland, and St. Joseph's Hospital, Edmonton, has been removed from our list of general hospitals.

The trend toward municipalization of hospitals has continued, 31 hospitals being under The Municipal Hospitals Act, compared with 29 last year. Three hospitals have changed to the municipal hospital system—Olds, Didsbury, and Eckville—in each case with a new modern hospital replacing a former hospital that was operating in an old remodelled private residence. Numerous new municipal hospital districts are in various stages of development. The tendency to place too many hospitals has continued. With road conditions improving we should be thinking of larger hospitals and the better service that will materialize in better hospitals with group medical practice.

Staff has continued to be a very serious problem in practically all hospitals in relation to all types of service. Medical staff has been short in some hospitals, and domestic and nursing staffs have been short in practically all. I regret to report that the evidence available at present would indicate that the nursing situation is going to continue to be a problem for several years after the war.

The staff shortage has continued to be most evident at country points, and at many of these points ward aides with very inadequate training are actually handling nursing procedures. During the year, four small hospitals continued to operate in spite of the fact that there was no doctor at that particular point, and two hospitals were closed because of lack of medical service.

The problem of household supplies seems to have eased very materially, and there is very little complaint regarding shortages. Certain types of hospital equipment are still difficult to obtain.

On April 1, 1944, The Maternity Hospitalization Act went into effect. Under this Act the Minister of Health is authorized to enter into an agreement with hospitals to provide a free public ward maternity service for women who had resided in Alberta for 12 consecutive months out of the previous 24 months. Special arrangements were provided to give service to Alberta women who were in the Armed Services and for the wives of Alberta men who are in the Armed Services or doing essential war work.

## PRIVATE HOSPITALS

During 1944 there were 37 private hospitals licensed in Alberta with a total bed capacity of 198. These hospitals are certified for the following services:

Chronic and Convalescent	8 16
Medical and Obstetrical Medical and Surgical	2 7
Medical, Obstetrical, Minor Surgery	4
	37

The larger hospitals in this group are licensed for chronic cases, while the ones licensed for surgery are nearly all operated by doctors as part of their contract with a mine or miners' union.

#### BABY SHELTERS

During 1944 there were 37 baby shelters operating under license from the Provincial Department of Health, and these are routinely inspected by Provincial Public Health Nurses. Occasionally, because of unusual circumstances, the Medical Inspector of Hospitals is called upon to inspect these institutions. There are also a number of baby shelters used by the Child Welfare Branch of the Department of Welfare which are not inspected by this Department.

#### SURGICAL WORK PERFORMED IN HOSPITALS IN ALBERTA, 1943

	Approved Hospitals Exclusive of	Municipal Hospitals	<b>Private</b> Hospitals		Approved Hospitals Exclusive of	Municipal	Hospitals
ENERAL:				Desetsisatoma			
Abscess		217 2	3	Prostatectomy Sequestrectomy	475	8	****
Adenectomy Adhesions		16		Skin Graft		6	
Amputation		77	5	Splenectomy		1	
Appendectomy		1361	65	Suturing		293	12
Arthroplasty		34	1	Tenoplasty		2	1
Aspiration	166	46	1	Thoracotomy		3	
Bronchoscopy		5		Thyroidectomy	. 548	22	
Bunionectomy		1		Transfusion		44	3
Cancer		26	1	Tumor		80 5	37
Carbuncle Cauterization		13 7	1	Varicose Veins		103	
Cholecystectomy	646	61	7	Vasectomy		1	****
Circumcision		236	2				
Colostomy		5		OBSTETRICS AND GYNA	ECOL	OGY:	
Curetting	43	7		Adhesions		3	
Cyst		119	7	Cervix		38	
Cystectomy		1		Caesarean Section		15	
Cystoscopy		23	****	Cauterization		5	
Cystotomy Decompresia		4	****	Craniotomy Curretage		183	11
Dilatation		8	****	Dilatation		78	8
Dislocation		29		Examination		21	
Enterectomy		4		Fibroid		7	
Epididymotomy	14	1		Hysterectomy	. 634	52	1
Evulsion Nail	90	25	2	Induction Labour		27	
Examination		37	1	Insertion Radium			
Excision		14	10	Oophorectomy Blastia Comital		47	43
Extraction Teeth		207 14	12	Plastic Genital Salpingectomy		64 32	0
Fistula Foreign Body		23		Suspension of Uterus		45	6
Fracture	1839	352		babpeneter or everals in			
Jastrectomy		6		EYE, EAR, NOSE, THROA'	Г:		
Gastroenterostomy		5		Abscess			
Gastrostomy	25	2		Antrum			
Hammer Toe	11	2		Cataract		****	
Hare Lip		3	6	Cautery			
Hemorrhoidectomy Herniotomy		89 235	22	Dacryocystectomy Enucleation Eye		1	
Hydrocele		14	3	Esophagoscopy			
lleocolostomy		7		Ethmoidectomy			
Incision		192	1	Examination			
Jejunostomy	25	7		Excision	. 18	1	
Laminectomy		1		Foreign Body		3	
Laparotomy		49	5	Iridectomy			
Ligation		2	2	Laryngoscopy		5	
Lithotomy		18	****	Mastoidectomy Myringotomy	55	3	
Lobectomy Manipulation		44	2	Plastic Eye	67		2
Mastectomy		5		Polypi	120	68	4
Nephrectomy		2		Pterygium	. 55	4	
Nephrotomy	13	1		Sinus	. 26	1	
veurectomy				Submucous Resection			2
Orchidectomy		8	2	Suturing	. 4	1	1
Osteoplasty		8		Tracheotomy	. 14	1	
Phlebectomy Plaster Cast		2 227	5	Turbinectomy Tonsillectomy and	. 23	1	****
Plastic		221		Adenoidectomy	8608	2160	105
Proctoscopy		8	****	The former of the second secon		2100	100
Total number of ope	erations i	in hos	pitals	:			
Approved, exclus	ive of M	Iunici	pal			42,24	
Municipal						7.35	1

Total

49,944

# Report of the Provincial Laboratory

(ALLAN C. RANKIN, Director)

By reducing the minimum charge with respect to urinalysis, Wassermann tests, Kahn tests, abortus examinations, tularensis tests and stock vaccines, the commercial value of the work carried out during the year is \$196,195, as compared with \$375,522 in 1943. The number of examinations made were, however, 121,147 as compared to 115,013 in 1943, an increase of 6,306. Details of this work are given in the tables which follow.

During the year, Dr. J. A. Romeyn, Assistant Bacteriologist, joined the Royal Canadian Army Medical Corps. Since his departure in June there has been no replacement, a situation which may call for temporary adjustment later on, as Dr. Romeyn has volunteered for the Pacific war, and his absence is likely to be extended considerably if he should be sent there.

There has been an increase in certain examinations with regard to venereal disease control (6,770) which has necessitated the employment of additional technical assistance and the opening of a small subsidiary laboratory in the Provincial Clinic, where culture work is being carried out. This will be, it is anticipated, of considerable importance in the determination of carriers of infection and in the control of the incidence of disease in the Province.

The equipping of additional space for the purpose of carrying out serological diagnostic examinations, in all 71,371, has been a convenience, and has contributed to some reduction in the congestion in the Bacteriological Department. The Department of Pathology, unfortunately, is still considerably hampered by the urgent need for suitable physical accommodation.

The usual difficulties regarding technical staff as a result of war conditions has again been encountered and overcome. Some increase in the scale of pay was found to be necessary and will no doubt be permanent.

In conclusion, it is a pleasure to record the very satisfactory and cheerful support which has been at all times given by the staff.

	Total, 1943	Total, 1944	Increase	Decrease
Sputum	568	649	81	
Diphtheria and Haemolytic Streptococci	3.322	4.410	1.088	
Typhoid Fever	and the second se	669	127	
Milks		1.013	11	
TTT-dawn	0.019	2,983	171	
Miscellaneous Examinations		7.617	2.804	
and the second sec				1
	440	56		62
Urinalysis Medice Level Examinations (Blood Seminal		50		0
Medico-Legal Examinations (Blood Seminal		9		2
etc.)		9	***LABAR	-
Cerebro Spinal Fluids for the Wassermann		2.620	175	
Test		7.981	110	363
Bloods for the Wassermann Test				988
Bloods for the Standard Kahn Test		7.897	arangana .	0.00
Bloods for the Presumptive Kahn Test		52,873	0 770	4,732
Smears for the Gonococcus		17,386	6,770	*******
Van Den Bergh Determination		1,705	238	
Pathological Histological Material		6,853	595	*******
Blood Smear Examinations		154	45	
Post-mortem Examinations		235	45	*******
Ascheim Zondek Examinations	. 259	368	109	
Comparative Series	. 17	5		12
Cerebro Spinal Fluid Examinations (Colloida	1			
gold, Pandy)	. 2,551	2,691	140	*******
Bacteriological Examinations (P.M.)	. 48	52	4	
B. Abortus Examinations		639	64	
B. Tularensis Examinations		638	97	
Cattle Blood Examinations		1.644		238
Total	. 115,013	121.147	12,704	6,398

WORK PERFORMED IN THE PROVINCIAL LABORATORY DURING THE YEAR 1944

Table No. 1 shows the amount of autogenous and other vaccines prepared and distributed during the year 1944.

Typhoid Vaccine (10 c.c. quantity) Autogenous Vaccine (25 c.c. quantity) Stock Vaccine (25 c.c. quantity) Poliomvelitis Convalescent Serum	Total, 1943 470 14 14 6	Connaug 21 9	Increase De the Product us 7 being made	
Total	504	30	7	5

Table No. 2 gives the detail of examinations of milk performed throughout the year 1944.

Number of milks examined bacteriologically Number of milks examined for butterfat Number of milks examined for B. coli Number of ice creams examined	$1.013 \\ 110 \\ 137 \\ 38$
	1,298

Table No. 3 gives the details of the bacteriological and chemical examinations of water performed throughout the year 1944.

Waters	1943	1944
Number of samples of water examined bacteriologically and found fit for human consumption	1,724	1.850
Number of samples of water examined bacteriologically and found unfit for human consumption	580	387
Number of samples of water examined bacteriologically and chemi- cally and found fit for human consumption	163	182
Number of samples of water examined bacteriologically and chemi-	-	
cally and found unfit for human consumption Number of samples of water examined chemically and found fit	107	160
for human consumption Number of samples of water examined chemically and found unfit	204	354
for human consumption	126	87
Number of samples of ice examined bacteriologically and found fit for human consumption	8	15
Number of samples of ice examined bacteriologically and found unfit for human consumption		
unity for numan consumption		
Total	2,812	3.035

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 1944.

Diseases	Spec	o. of imens Nega- tives	No. of Post Offices	Physi-	Month.	Sputum.	Diph.	Typhoid Fever.	Total.
					Jan	62	420	28	510
					Feb.	41	493	40	574
Pulmonary					Mar.	65	674	77	816
Tuberculosis		594			April	66	509	86	661
					May	67	395	69	531
Diphtheria and					June	54	318	46	418
Haemolytic					July	58	285	45	388
Channel and and	469	3.705			Aug.	46	287	60	393
					Sept.	39	170	40	249
					Oct	61	307	57	425
					Nov.	66	181	68	315
Typhoid Fever	151	488	211	436	Dec	41	135	23	199
	Total					666	1,174	639	5,479

Table No. 5 shows the number of blood and cerebro-spinal fluid examinations by serological tests for the diagnosis of syphilis during the year 1944.

Bloods Examined—Presumptiv Kahn Standard Kahn Wassermann Cerebro-spinal fluids examined by Wassermann test	52,873 7,897 7,981 2,620
Bloods and cerebro-spinal fluids unsuitable for examination (N.S.Q., A.C., Haem., Accidentally broken) Bloods broken in transit	$\substack{1.350\\181}$
Bloods and cerebro-spinal fluids "Positive" to reaction Bloods and cerebro-spinal fluids "Negative" to reaction Bloods giving "Doubtful Please Repeat" reaction Bloods giving "Please Repeat" reaction	$3.009 \\ 50.481 \\ 429 \\ 1.263$
Number of bloods and cerebro-spinal fluids examined in 1943 Number of bloods and cerebro-spinal fluids examined in 1944	$\begin{array}{c} 62,175\\ 55,493 \end{array}$
Decrease in number of specimens examined Decrease in per cent	6.682 10.8%

Table No. 6 gives the report of work done for the Military authorities during the year 1944.

and a data general second	Airforce	Army	Navy	U.S.	Total
Milks	67	31			98
Waters-Bact.	274	75	8		357
Smears-G.C.	224	61			285
T.B. Exams.	61	17			78
Widals	32	26			58
Vieles e.e.		2	1		3
Misc. Bact.	315	160	1	2	475
Throat Swabs	113	317	5	16	451
Wassermanns:					
Bloods	535	716	8	29	1,288
C.S.F.	128	200		9	337
Kahns:					
Presumptive	9.226	9.444	154	228	19,052
Standard	605	885	5	27	1,522
Path. Specimens	241	181	1	4	427
Ascheim Zondek Tests	57	8			65
Blood Smears	14	1			15
Total					24.511

# SERA AND VACCINES DISTRIBUTED-JANUARY, 1944-DECEMBER, 1944

	Pkgs.
Smallpox Vaccine:	
1 point	472
10 points	4.031
Diphtheria Autitoxin:	
1.000 units	402
5,000 units	35
20.000 units	226
Diphtheria Toxoid:	deda V
1 person	4,637
3 c.c.	714
6 c.c.	1.176
Diphtheria Toxoid and Pertussis	1,110
Vaccine (Combined):	
	4.193
1 person	835
6 persons	345
Schick Test: 25 persons	949
Scarlet Fever Antitoxin:	cer
3,000 units, syringe	665
9,000 units, vial	175
9,000 units, syringe	375
Scarlet Fever Toxin:	
1 person	3,972
6 persons	3,412
Dick Test: 10 persons	947
Tetanus Antitoxin:	
1.500 units	230
5.000 units	2

	Pkgs.
10.000 units	13
Anti-Meningococcus Serum	
(discontinued):	
20 c.c. vial	19
Pertussis:	0.010
1 persons	2,812
6 persons	3,859
Staphylococcus Toxoid: 2 c.c. vial	360
Staphylococcus Antitoxin:	
20.000 units	2
10.000 units	
Gas Gangrene:	22
4.000 units	124
10,000 units	124
Typhoid Vaccine:	286
1 persons	2.160
10 c.c. N.B.—Sent direct from supply:	2,100
20 c.c.	26
5 c.c.	24
Other Vaccines:	~
Autogenous, 25 c.c. bottle	21
Stock Vaccine, 25 c.c. bottle	9
Rocky Mountain Spotted Fever:	
25 c.c.	31
3 c.c.	35

## COMMERCIAL VALUE OF WORK IF MINIMUM CHARGE WERE MADE, 1944

Sputum	649	\$ 1.00	\$ 649.00
Diphtheria and Haemolytic Streptococci	4.410	1.00	4,410.00
Typhoid Fever	669	1.00	669.00
Milks	1.013	3.00	3.039.00
Waters	2.983	10.00	29.830.00
Miscellaneous Examinations	7.617	3.00	22,851.00
Mother's Milk		2.00	
Urinalysis	56	1.00	56.00
Medico-Legal Examinations	9	5.00	45.00
Cerebro-Spinal Fluids for Wasserman Test	2.620	1.00	2.620.00
Bloods for Wassermann Test	7.981	1.00	7,981.00
Bloods for Standard Kahn Test	7.897	1.00	7.897.00
Bloods for Presumptive Kahn Test	52.873	1.00	52.873.00
Smoone for the Concession	17.386	1.00	17.386.00
Smears for the Gonococcus	1,705	1.00	1.705.00
Van Der Bergh Determination		5.00	34.265.00
Pathological Histological Material	6.853	2.00	308.00
Blood Smear Examinations	154		1.840.00
Ascheim Zondek Test	368	5.00	
Comparative Series	5	3.00	15.00
Cerebro-Spinal Fluid Examinations (Colloidal			- 000 00
Gold, Pandy)	2,691	2.00	5,382.00
Bacteriological Examinations (P.M.)	52	5.00	260.00
Post-mortem Examinations (Bact.)	235	5.00	1,175.00
B. Abortus Examinations	639	.50	319.50
B. Tularensis Examinations	638	.50	319.00
Typhoid Vaccine (100c.c. quantity)	Annun	.25	
Autogenous Vaccine (25 c.c. quantity)	21	5.00	105.00
Poliomyelitis Serum (20 c.c. quantity)		2.50	
Stock Vaccine (25 c.c. quantity)	9	3.50	31.50
Cattle Blood Examinations	1,644	.10	164.40
Total			\$196,195.40

# Division of Entomology

# J. H. BROWN, C.S.I. (C), B.Sc. (Agric.), M.Sc.

This division was established in May, 1944, and made responsible for the control of insect-borne diseases of man and animals. Its functions include the carrying on of plague, spotted fever, and tularaemia surveys, and investigating methods for rodents control.

The establishing of this division is a long step forward in developing full-time health services; it also gives continuity to the work that had been done formerly as a part-time endeavour.

#### ROCKY MOUNTAIN SPOTTED FEVER SURVEY

During the survey season a total of 1,148 spotted fever ticks, *Dermacentor andersoni*, were collected by dragging operations. They were taken in 28 separate collections. One collection of ticks taken at Manyberries and two collections taken at Redcliff were positive for spotted fever infection. The Redcliff collections were taken in the immediate locality where two cases of spotted fever occurred.

### (1) Tick Collections.

Of the total of 1,148 drag ticks, three collections totalling 73 were positive for the spotted fever infection.

#### TICK COLLECTIONS BY DISTRICTS

District No.	Location	No. of Collections	No. of Ticks	Positives
11	Manyberries	1	9	IP
14	Cardston	1	102	
21	Medicine Hat	18	652	2P
22	Bow Island	2	16	
23	Lethbridge	2	91	
24	Macleod	3	270	
41	Empress	1	8	
	Total	28	1.148	3P

#### (2) Tick-borne Diseases.

Although spotted fever, tularaemia and tick paralysis are all tick-borne diseases, only two cases of spotted fever were reported as occurring in 1944.

#### Rocky Mountain Spotted Fever.

Two cases of spotted fever involving a husband and wife occurred at Redcliff during May. The husband succumbed to the disease. Both of these cases came under the observation of Dr. J. R. Patterson of Medicine Hat, and they were diagnosed on clinical and laboratory findings.

The husband's illness developed very rapidly, and he died on the 13th day of the disease. The wife was brought into hospital and treated with 60 c.c. of Rocky Mountain Spotted Fever serum and also with 400,000 units of penicillin. She recovered.

This is the first record of penicillin being used as treatment for spotted fever, but as it was administered along with spotted fever serum, it is difficult to say if it was the cause of her recovery. The occurrence of these two cases of spotted fever at Redcliff is the first record of this disease appearing north of the South Saskatchewan River.

Two collections of drag ticks taken in the immediate locality where the cases occurred were positive for *Dermacentroxenus rickettsi*, the organism causing spotted fever.

### (3) Vaccinations.

The fifth annual Rocky Mountain Spotted Fever Clinic was held at Manyberries during April, with a total of 451 persons receiving protection. This clinic was under the auspices of the Manyberries Women's Institute with Dr. Howard Dixon in charge, assisted by Miss M. E. Hagerman, P.H.N. Of the 451 persons vaccinated, 150 received their first vaccination in 1944. Of these, 95 were male and 55 female. Of the total of 451 persons receiving protection, 256 were male and 195 were female.

As soon as the spotted fever cases at Redcliff were reported, a clinic was organized at that point. Drs. J. W. Macleod and J. R. Patterson of Medicine Hat were in charge, and they were assisted by Miss M. E. Hagerman, P.H.N., and three student nurses from the Medicine Hat General Hospital. A total of 456 persons were vaccinated, and these consisted of 245 males and 211 females.

MAN	VRE	RRI	ES .	CLI	NIC
STURY 14	TTTE	ALLES .	CED .	CTU	1410

Age Group	Male	Female	Tota
0-10		14	38
1-20		10	25
21-30		8	25 24 33
31-40	19	14	33
11-50		4	9
51-	10	5	21
	_	_	
Total		55	150
	95 — OF PERSONS VACCINA	-	150
	-	-	150
TOTAL NUMBER	OF PERSONS VACCINA	-	149
TOTAL NUMBER 0-10 1-20	OF PERSONS VACCINA 81 41	-	149 81
TOTAL NUMBER 0-10 1-20 21-30	OF PERSONS VACCINA 81 41 38		149 81 67
TOTAL NUMBER 0-10 1-20 21-30 31-40	OF PERSONS VACCINA 81 41 38 34		149 81 67
TOTAL NUMBER	OF PERSONS VACCINA 81 41 38 34		149 81 67 59 37
TOTAL NUMBER 0-10 1-20 21-30 11-40	OF PERSONS VACCINA 81 41 38 34 18		149 81 67
TOTAL NUMBER 0-10 1-20 21-30 11-40 10-	OF PERSONS VACCINA 81 41 38 34 18		149 81 67 59 37
TOTAL NUMBER 0-10 1-20 21-30 11-40 10 0	OF PERSONS VACCINA 81 41 38 34 18 44 		149 81 67 59 37

Age and Sex Groups of Persons Vaccinated, 1944

0-10 11-20 21-30 31-40	82 63 44 31	73 69 22 25 10	155 132 66 56
50-	14	10	23
Total	245	211	456

# SYLVATIC PLAGUE SURVEY

### Plague Survey Collections.

During the 1944 survey season a total of 50 collections were made. These comprised 501 Richardson Ground Squirrels (the common prairie gopher), and one Burrowing Owl. The 501 Richardson Ground Squirrels yielded 2,010 fleas and 54 tissue specimens. No plague positives were found.

District No.		No. of Coll.	Shot	Animals	Fleas	Tissue Sample	Index Flea
		con.			r reas	Gampre	I ICa
21	Medicine Hat	7	59	R.G.S.	271	. 6	4.6
23	Lethbridge	4	15	R.G.S.	88	1	5.9
32	Brooks	1	11	R.G.S.	70	2	6.3
33	Bassano	5	77	R.G.S.	468	10	6
41	Empress	2	33	R.G.S.	116	4	3.5
43	Hussar	1	9	R.G.S.	41		4.6
4.4	Strathmore	1	21	R.G.S.	54		2.5
45	Colgona	î	3	R.G.S.	6		2
46	Double	1	19	R.G.S.	65		34
	Concert	Ê	36	R.G.S.	88	5	2.5
51	Consort	e e		R.G.S.		11	2.0
52	Hanna-Youngstown	0	105		269	11	2.0
53	Drumheller	5	51	R.G.S.	235	6	4.0
54	Three Hills	2	7	R.G.S.	20	1111	2.9
61	Provost	4	24	R.G.S.	60	5	2.5
71	Wainwright	2	9	R.G.S.	28	****	3.1
73	Camrose	3	20	R.G.S.	126	4	6.3
	Tofield	1	3	R.G.S.	5		1.7
_							
17		51	502*		2.010	54	4.0
		-					
83	Tofield	1 51		R.G.S.	2,010	54	1.7

#### COLLECTIONS BY DISTRICTS

\*Including one Burrowing Owl.

Collections were made in 17 districts. These totalled 501 R.G.S. and one Burrowing Owl. A total of 2,010 fleas and 54 samples of tissue were collected and sent to the laboratory. The flea index for the total collections was 4.0.

#### TULARAEMIA SURVEY

An intensive study of tularaemia in Alberta was undertaken and from preliminary reports it is apparent that this disease is wellestablished here. During 1944, 3 definite and one suspected cases were reported. One of the cases was fatal. The sources of infection for the known cases were skunks and rabbits. The suspected case was traced to contact with muskrats. The following is a summary of the information for each case:

#### DEFINITE CASES

1. G H., Male, age 51; Barrhead. Not hospitalized. Agglutination titre—1-200, Mar. 22nd. 1-100, Oct. 26th. Contact—Cut finger while skinning a skunk. Result—Recovered. Remarks—Clinical diagnosis "glandular type of turaraemia". Lost 40 lbs. in 5 weeks in hospital. Treatment—Drainage of lymph and by Sulfathiozole. F. S., male, age 14; Lake Isle. Hospitalized—June 10th to August 23rd, 1944. Agglutination titre—1-100, June 17th. 1-1600, June 22nd 1-3200, July 12th. Contact-Rabbits. Result-Died, August 23rd, 1944. Result—Died, August 23rd, 1944. Remarks—Primary lesion in conjunctival sac of right eye. On June 15th, 1944, guinea pig M3701/44 inoculated with material from right eye. The pig died in six days and showed typical lesions of Pasteurella tularensis in liver, spleen and lymph nodes. M3810/44—June 19th, 1944. Cerebral spinal fluid yielded pure culture of Pasteurella tularensis. The two guinea pigs inoculated on June 19th were killed on June 23rd when very ill; both showed typical lesions of Past. tularensis in spleen. liver, and lymph podes. June 23rd when very in; both showed typical festors of Past, that ensus in specific liver and lymph nodes. M4370/44—August 23rd, 1944. Guinea pigs inoculated from autopsy material collected from pleura, heart blood and brain were all healthy at the end of ten days and were negative for Past, tularensis infection. The pig inoculated with material from the spleen died in five days with typical lesions of Past, tularensis. Cultures from lung tissue and pleura yielded haemolytic streptococci. Mrs. A. D., female, age unknown; Nakamun. Hospitalized—June 22nd to July 21st. Agglutination titre—1,400, June 23rd, 1944. Contact—Rabbit through cut on finger. Result—Recovered. Remarks—Guinea pig inoculated June 24th with pus from axilla and thumb, killed when moribund June 28th and showed typical lesions of Past. tularensis. 3. Mrs. A.

Suspected Case: 1.

G. L.,	male,	age	22;	Mu	lht	urst.	
Hospit	alized		ay 1	7th	to	May	29th.

Agglutination titre—1-200, May 25th. 1-400, May 28th. 1-400, May 29th. 1-400, June 7th.

Contact-Works with muskrats, but no history of bites.

Result—Recovered. Remarks—No evidence of ulcer. Possible glandular type of tularaemia with entrance through the skin and not associated with ulcer.

### RAT SURVEY

An intensive study of rat distribution in western Canada and north-western United States was begun. The procedure adopted was to enlist the aid of the Canadian National, Canadian Pacific, Northern Alberta and the Great Northern Railways, and to have the station agents report on the situation in their localities. Good cooperation was received, with practically all of the agents returning the questionnaire. The coverage obtained in Canada extends from Winnipeg to Vancouver, and from the United States border to Peace River in Alberta and the Hudson's Bay in Manitoba. In the United States it extends from North Dakota to Washington.

The results of the survey have not yet been compiled, but preliminary results indicate that Alberta is as yet free from rats. However, it is doubtful if this condition will continue, for it was revealed that rats are now well established in western Saskatchewan and eastern British Columbia, as well as in all of the states immediately south of the border.

#### EXTENSION AND PUBLICATIONS

#### Extension.

During 1944, a great number of requests were received for showings of our films on spotted fever and plague. Beside these, a large number of meeting were addressed on plague, spotted fever and tularaemia infections.

At the request of the Federal Department of Agriculture, nine field days were attended for the purpose of disseminating information in regard to these diseases. A total of 3,500 people were reached through these meetings.

#### Publications.

Since 1941, a total of 13 papers on spotted fever, plague and tularaemia were published. They are as follows:

1941 -

1. Tick Borne Diseases of Man and Methods of Prevention. Department of Public Health of the Province of Alberta.

1943 -

- 1. Tularaemia in the "Seven Persons Coulee", Alberta. Malcolm R. Bow, B.A., M.D., C.M., D.P.H., and John H. Brown, B.Sc. (Agric.), M.Sc. Can. Jour of Public Health. September, 1943.
- 2. The Richardson Ground Squirrel Citellus Richardsonii Sabine, in Southern Alberta: Its Importance and Control. J. H. Brown and G. Douglas Roy. Scientific Agric. 24: (4), December, 1943.
- 3. Tularaemia in Southern Alberta. J. H. Brown, M.Sc. Can Jour. Med. Tech. 5:(2), June, 1943.

1944 -

1 1 1 7 1

1. Water-Borne Tularaemia in Western Canada, M. R. Bow, B.A., M.D., C.M., D.P.H., and J. H. Brown, B.Sc. (Agric.), M.Sc. Can. Med. Assoc. Jour. 50:14-16. 1944.

- The Susceptibility of Fur-Bearing Animals and Game Birds to Tularaemia. J. H. Brown, B.Sc. (Agric.), M.Sc. Can. Field-Naturalist. 58:(2), March-April, 1944.
- Mallophaga of Alberta: A list of Species with Hosts. J. H. Brown and A. L. Wilk. Canadian Entomologist. June, 1944.
- 4. Sylvatic Plague. J. H. Brown, M.Sc. Provincial Department of Health.
- The Spotted Fever and Other Albertan Ticks. J. H. Brown. Canadian Journal of Research. D, 22:36-51. 1944.
- Sylvatic Plague: The Recovery of Fleas from the Burrowing Owl and Its Burrow in a Plague Area in Alberta. J. H. Brown. Entomological News. LV:(1). January, 1944.
- Sylvatic Plague: A Note on the Finding of Large Numbers of Fleas on Ground Squirrels (Gophers) in Alberta. J. H. Brown. Bulletin of the Brooklyn Entomological Society. XXXIX:(3). pp. 80-82. June, 1944.
  - 8. The Fleas (Siphonaptera) of Alberta, with a List of the Known Vectors of Sylvatic Plague, J. H. Brown. Annals of the Entomological Society of America. XXXVII:(2). June, 1944.
  - Sylvatic Plague: A Note on the Probable Relationship of Flea Index to Epizootic Plague in Ground Squirrels in Alberta, J. H. Brown, B.Sc. (Agric.), M.Sc. Journal of Entomology and Zoology. 36:(3), 1944.

# Public Health Nursing Branch

(HELEN G. MCARTHUR, M.Sc., Superintendent)

Two new Provincial district nursing areas were opened during the year with Craigmyle and Foremost as the centres. In addition, supervision has been provided for the seven new health districts established in September. These districts are staffed by one nurse to do the organizational work until full staffs are available. These units are as follows:

McLennan—Spirit River Health District at McLennan; Athabasca Health District at Colinton; Pembina Health District at Westlock; Wheatland Health District at Strathmore; Brooks Health District at Brooks.

Macleod-Pincher Creek Health District at Granum.

Rocky Mountain House Health District at Rocky Mountain House.

In addition to these health districts, the centres now operated by the Public Health Nursing Branch are:

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

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

The staff of the Public Health Nursing Branch consists of fifty nurses working in 48 centres and head office. Miss Blanche Emerson returned to the Edmonton Child Welfare Clinic when a permanent appointment was made to the position of Superintendent of Public Health Nurses. Miss Helen McArthur, who had been in charge of the Public Health Nursing Course at the University of Alberta, accepted the position in July. In October, Miss Jean Clark was appointed Assistant Superintendent of Nurses as well as Assistant Supervisor in the Health Education Division. With this added assistance in the office, it was possible to start the revision of the record system in the field, also the preparation of manuals and field aids.

There were many staff changes during 1944, reflecting the general nursing situation in Canada. Five Public Health nurses resigned to be married, while one was granted leave of absence for the same purpose; one resigned to join the R.C.A.F.; four resigned to take other types of work, and one returned to her duties as housewife. Leave of absence was granted to six nurses—two to complete University courses, one to take the Advanced Course in Practical Obstetrics at the University of Alberta, one to take a special assignment, and two for personal reasons.

Two staff members returned from extended leave and 10 new appointments were made during the year to the Provincial district nursing service, and seven to the one-nurse health districts. Although there has been a shortage of Public Health nurses, it has been possible to maintain essential services.

With the numerous problems facing the nurses because of transportation difficulties, scarcity of doctors in adjacent areas, shifting populations and many changes in staff, it was impossible for the office staff to visit all districts as would be desirable. During the year, 37 areas were visited. Contact was kept in the other areas by twice monthly letters, and at least a quarterly news letter for spreading information on changes in the programme and new scientific developments.

All the staff met together for the Annual Spring Refresher Course, at which discussions led by medical men were held on such topics as Immunization, Eye Care, Applied Nutrition and New Drugs. As many as possible attended the meeting and conference of the Alberta Public Health Association in October. Where feasible, nurses in adjacent areas were encouraged to visit each other and discuss their problems and possible solutions. In these various ways it was hoped that the nurses might feel a part of the staff as a whole rather than isolated workers.

Co-operation has been offered to the University of Alberta in the arranging of field work for Public Health Nursing and Home Economics students in rural and urban centres. Additional time was required to serve the summer school students this year as well as the regular winter term group. Students of various training schools have attended well baby clinics for observation in Edmonton, Calgary and Medicine Hat, and in Medicine Hat lectures were given at the training school.

#### CHILD AND MATERNAL WELFARE

During the year the Provincial district nurses cared for 224 obstetrical cases and 56 abortions. It was expected with the advent of free maternity hospitalization there would be a big drop in this figure, but it is only down about 50 from the previous year, and would indicate that it is transportation difficulties and isolation that requires cases to stay at home rather than hospital bills. The ante-partum consultations totalled 465, and 33 ante-partum home visits were made. With this work, the nurse serves not only her own obstetric cases, but the cases in her district who plan to go to hospital as well. District nurses made 433 home visits to infants.

Child and maternal welfare literature was sent out by the Nursing Branch during the year as follows:

847	Pre-natal letters.
1.749	Post-natal letters.
1.749	Supplements.
978	Pre-school letters.
330	School Age Letters.
270	In between years.
244	To Years of Discretion.
1.203	Canadian Mothers' Books.
2,000	Alberta Mother's Books.
9,365	Total.

In the urban centres, child welfare was promoted to a large extent through some 695 clinics, held in Edmonton, Calgary, Bowness, Medicine Hat, Redcliff, Vegreville, Drumheller and surrounding settlements. These clinics were attended by a total of 18,110 babies and 4, 297 pre-school children. The individual reports of the nurses serving these areas are as follows:

#### Edmonton.

Miss Blanche Emerson, Supervisor of the Edmonton Clinic, reports that owing to an increased attendance it was found necessary to hold clinics four afternoons instead of three. All clinics have been well attended. There were 1,736 new cases added to the rolls, and while more cases were discharged, the enrollment is higher by 232 than in any year in the past. Out of town children in attendance numbered 190, with 31 letters regarding feeding received and answered; besides, an increasing number of long distance calls regarding infant feedings came into the clinic.

Temporary service was given by the Victorian Order of Nurses, and by Miss De Rossier from the relief office for several months, and which was much appreciated. Mrs. W. Cooper, V,A.D., was in attendance twice a week when the doctors were present.

Thanks are due Dr. Folinsbee, Dr. Newell and Dr. Collins for their untiring service throughout the year.

A large number of British war brides and American soldiers' wives have taken advantage of the services offered. It was gratifying to note the excellent physical condition of the British babies in spite of adverse circumstances at birth.

STA	TISTICA	L REPORT	
EDMONTON	CHILD	WELFARE	CLINIC

		WELFARE CLINIC	
Total number in attendance			7,356
Number of Clinics held			200
Average attendance			37
Babies:		Influenza-meningitis	1
Number in attendance	6,198	Whooping cough and convulsions	1
New cases admitted		Microcephalis cerebro-spinal	2
Out of town cases		fever	1
Referred to family doctor	25	Mental defectives	î
Discharged	962		_
Deaths	11		11
Transferred to Pre-school Clinic	216		
Defects:	210	Deaths in 2nd year: Celiac disease	1
Nutrition	28	Pre-school Age:	
Rickets	2	Number in attendance	1.158
Skin	161	Number new cases admitted	262
Eyes	16	Old cases re-admitted	81
Ears	16	Out of town cases	150
Nose and throat	19	Referred to family doctor	20
Phimosis	22	Discharged	985
Hernia	29	Deaths	1
Congenital conditions	5	Number cases on roll	985
Intestinal disturbance	32	Defects:	909
Orthopaedic	9		41
Chest	15	Distant	2
Mental defects	4	01.1	52
Other conditions	43		
Number seen by doctor (babies	40	Press	4 27
and pre-school)	2.143		35
Home Visits:	2,143	Nose and throat	
Total number home visits	2.396	Tonsils and adenoids	49
	2,330	Phimosis	6
Babies 1,883		Hernia	-
Pre-school		Congenital conditions	1
Pre-natal 15		Orthopaedic	$\frac{1}{2}$
Infants Deaths (under 1 year):	0	Chest	2
Intestinal conditions	2	Teeth	29
Bronchial pneumonia	4	Mental defects	3

#### Calgary.

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

While the attendance at the clinics show only slight increases over last year, it should be noted that Bowness is now given a separate report.

Infants	7.547	
Pre-school	2,126	
		9,623

Pre-school Present enrolled: Infants Present enrolled: Infants		1,205 482 2,761 2,586	1,687
Visits: No. seen by doctor No. of visits to homes by nurses No. day nursery inspections by nurses No. of visits to baby shelters Feedings: Breast Bottle Mixed Other Defects: Nose and throat Teeth Skin Phimosis	4.967 2.774 18 165 784 1.799 2.398 1.516 416 563 124 79	Intestinal Orthopaedic Chest Congenital malformation Mentally deficient Deaths: Infants Pre-school Referred to family doctor Infants 10 Pre-school 263 Out of town cases Infants 50 Pre-school 14 Letters re feeding 12 Pre-natal letters mailed 6	7.347 25 23 6 4 3 2 273 273 64
Eyes Ears Nutrition Hernia	70 25 59 46	Insulin: No. of investigations Private Hospitals: No. of inspections	5 32

*Pupil Nurses.*—Four nurses from the General Hospital and two from the Holy Cross Hospital, each completed one month instruction and observation. Eleven nurses from the University Hospital each completed one week's instruction and observation.

We are indebted to several organizations for donations, cod liver oil, clothes, bedding, glasses, Christmas toys, etc.

## Bowness.

This district was chosen to give the "nurses in training" an idea on how to operate a country clinic.

It is a district that has grown considerably in the last few years, where most people have built their own homes, and where there is no running water or sewage. Last year a sanitary inspector was appointed for the district, otherwise there are no health services.

The hall has been donated for the baby clinic, and is heated by the owners. Ten clinics were held.

Present roll: Infants Pre-school	$\frac{42}{43}$	
Attendance for 1944: Infants Pre-school	132 103	235
Average Home visits	$23.5 \\ 122$	200
Immunization: Diphtheria Toxoid	30 9	

No other examinations have been attempted because of scarcity of time.

Occasionally we have had a volunteer worker which gives more time for teaching students. Public health and nutrition literature has been distributed, and advice given regarding the examination of drinking water and disposal of sewage.

Although this work was started in April, 1941, this is the first year the report has not been included in that of Calgary.

#### Medicine Hat and Redcliff.

Miss M. E. Hagerman, Supervisor of the Child Welfare Clinics at Medicine Hat and Redcliff, reports that during 1944 clinics were held every Tuesday and Friday at Medicine Hat and every second Wednesday at Redcliff. A V.D. Clinic is held every Thursday afternoon with Dr. Dixon in charge.

Well Baby Clinics were held at the following centres: Tilley, Walsh, Irvine, Manyberries, Little Plume and Rainier, with a total attendance of 44 infants and 77 pre-school children. Four pre-natal clinics were held with an attendance of 19 mothers.

Dr. Dixon was given assistance with vaccinations against Rocky Mountain Spotted Fever at Manyberries, and Dr. Patterson and Dr. Macleod at Redcliff.

Home visits have been made to investigate conditions of families who were reported to require assistance, to investigate reports of communicable disease, to examine school children reported by the teacher who suspected they required medical attention, and to follow up tuberculosis work and the pre-natal clinics.

STATISTICAL REPORT-MEDICINE HAT AND REDCLIFF

Total No. of Clinics held			133
Total No. in attendance: Babies 3,1	11, Pre-	school 622	3.733
Automotio attendance			28.1
Babies:		Intestinal disturbance	62
New cases admitted	384	Orthopaedic	3
Out of town cases	126	Pre-school Age:	
Referred to family doctor	41	No. new cases admitted	51
Discharged	49	No. old cases re-admitted	6
No. cases on roll	957	No. out of town cases	50
Transferred to pre-school clinic	271	Referred to family doctor	24
Breast fed	835	No. discharged	285
Bottle fed	1.417	No. cases on roll	720
Other feeding	859	Nutrition	4
Defects:		Eyes	7
Nutrition	9	Nose and throat	5
Skin	52	Tonsils and adenoids	57
Eyes	22	Phimosis	1
Ears	6	Hernia	1
Nose and throat	2	Teeth	136
Phimosis	25	Mental defects	3
Hernia	41	Total No. home visits	881
Congenital conditions	1		1

#### Drumheller.

Miss Margaret Burton, Supervisor of the Drumheller Centre, submits the following report:

Anti-tuberculosis clinics were held every month on the first Thursday. A doctor has been unable to attend these clinics, but patients are given requisitions to be X-rayed at the Drumheller Hospital. Films are sent to the Central Alberta Sanatorium to be read, and the reports are sent to the patients' own doctor. With the assistance of the Kinsmen Club, the mobile clinic visited the entire valley in the spring. Transportation has been provided for patients to the Sanatorium and to Ponoka, when patients were unable to supply their own.

Soldiers' families have been visited and financial assistance obtained for them whenever needed. Assistance has been also given to the child welfare inspector if needed, and if possible. Visits have been made to the blind in the district, and assistance obtained for them through the Canadian National Institute for the Blind.

There were 45 baby clinics held every Friday in Drumheller, with an attendance of 816. A baby clinic was held in East Coulee during the summer with an attendance of 16. Fifty immunization clinics were held every Monday in Drumheller with an attendance of 117. A total of 285 home visits were made in connection with school inspections and baby clinics, and four schools were visited to inspect 1,159 children.

#### Vegreville.

Miss M. Black, Supervisor of the Vegreville Centre, is also engaged in a generalized programme of public health nursing. Child welfare clinics were held each Friday, and Miss Black reports as follows:

Total No. of Clinics held       363         No. pre-schools in attendance       363         No. pre-schools in attendance       168         No. breast fed	47 531 36 275 10	No. of cases on roll Defects: Anaemia Phimosis Thrush Eczema Other conditions	76 2 1 2 4
No other feedings	42	Pre-school:	
New cases admitted	46	New cases admitted	2
Transferred to Pre-school Clinic	19	Discharged	8
Referred to family doctor	6	No. of cases on roll	23
Discharged	38	No. of home visits	38

## TREATMENT SERVICE

During 1944, Provincial district nurses in 36 centres made 6,753 home visits and gave 25,704 office consultations. A large percentage of the home visits and office consultations were of a treatment nature. There were 15,343 medical cases and 2,438 surgical cases cared for, with 416 cases referred or taken to their doctor in the nearest town or city. The number of dressings done were 494.

The lack of dental care is demonstrated by the fact that the nurses did 163 dental extractions, although the nurses are loathe to give this service.

During the year, 1,640 cases of communicable diseases were cared for.

Although Indian Reserves are the responsibility of the Federal Government, the nurses answered 43 calls to the reserves.

Of the number of deaths occurring during the year in the 36 districts, there were 16 under one year of age and 39 over one year of age.

Fees were collected for this treatment service to the sum of \$8,604.32, which practically covered the cost of the dispensaries for the year. Fees for the care of maternity cases were no. longer charged after April 1st.

### IMMUNIZATION

During the year the public health nurses in the urban centres of Medicine Hat, Vegreville and Drumheller, as well as in the 36 rural centres, continued their efforts to immunize the members of their communities, and gave 23,107 inoculations against diphtheria, whooping cough and typhoid, and vaccinated 4,184 individuals against smallpox. Where possible, the nurses served adjacent areas if no other service was available to them.

#### SCHOOL INSPECTION WORK

Twenty-six districts, including the urban areas of Medicine Hat, Drumheller and Vegreville, reported the following school work:

Statistical Report:		Suspect Defective Conditions:	
First inspection	3,529	Vision	260
Second inspection	823	Glasses	82
Classroom inspections		Hearing	61
Treatments	20	Throat	1,088
No. not vaccinated	1,032	Nasal	182
No, with defects	2,182	Glands	238
No. without defects	1,516	Teeth	1,662

symptoms of:			
Eye Diseases	16	Results Obtained:	
Ear Diseases	10	Glasses fitted	57
Orthopaedic defects	21	Glasses refitted	29
Faulty posture		Tonsils removed	76
Malnutrition	410	Adenoids removed	53
Cardiac	1	Dental treatments	247
Nervousness	62	Surgical treatment	11
Pediculosis	13	Schoolroom talks	70
Skin diseases	57	Home visits	42
Impetigo	57	Demonstrations	18
Defective mentality	7	Interviews	110
Other skin conditions	17	T.B. Clinics	2
Communicable diseases	100	Public Lectures	6

### HEALTH EDUCATION

Although Provincial district nurses have no means of transportation at their disposal, and so it is not as easy for them to organize a formal teaching programme as it is in a health district, the nurses are placing more and more emphasis on health teaching. They point out that their best opportunities for teaching are informal personal ones which arise in their home visits, office consultations, child welfare clinics and school examinations. In addition, they distribute literature, give lectures and conduct study groups with various school groups, women's clubs and teachers organizations.

Nutrition received special attention during 1944, with teaching augmented by organization of a school lunch programme in many areas. Cod liver oil capsules were purchased by some school boards and distributed under the nurses' direction. Communities were interested in iodized salt and rose hips. In areas where there is a maternity programme this presents the nurse with many opportunities for instructing expectant mothers regarding adequate diets for themselves and other members of the family. Several districts reported an increased use of Canada approved flour and brown bread where nurses were carrying on an active teaching programme along this line.

Similarly, other types of teaching were receiving attention, such as Communicable Disease Control, Family Relations and Juvenile Delinquency, Cancer, Tuberculosis, Home Nursing and First Aid, and others.

Members of the Provincial office staff have attended Provincial and local groups as guest speakers, as well as several teachers' conventions, to explain the work of the Branch and teach health when the opportunity presented itself. The medium of the radio was also used to spread health information. It is the desire of this Branch to co-operate with the Health Education Division in the development of their programme.

The project of teaching Home Nursing and First Aid throughout the Province was completed in 1944 with classes held at Ardrossan, Edmonton, Holden and Olds. Six graduate nurses acted as instructors, giving 38 lectures; 97 students attended the course, and 82 certificates were issued.

The programme of the Public Health Nursing Branch would not have functioned as it has without the assistance of many of the other divisions of the Department of Health and Departments of the Government, as well as allied social welfare groups in the Province. Particular mention should be made of the Canadian National Institute of the Blind and to Kinsmen's Clubs. The valuable advice and assistance of the members of the medical profession, sisters and nurses at the hospitals, and the teachers of the schools in the districts served by the nurses, have been greatly appreciated.

It should be a source of gratification to each and every member of the staff to know that many expressions of appreciation for their services from school divisions, lay groups, the local committees, and from individuals have been received. This office wishes to pay tribute to the nurses of the staff for their enthusiasm and unfailing attention to duty. They have given more than could be asked of them, by not only maintaining their programmes, but often broadening their services during a most difficult time.

# Hospitals Division

# L. A. PATTERSON, C.A., Secretary of the Department of Public Health)

The total number of hospitals approved under the provisions of The Hospitals Act of the Province of Alberta as at the 31st of December, 1944, was 95.

The total grant paid to hospitals and homes for the year 1944 amounted to \$593,419.35.

On the basis of returns received from 93 approved hospitals, the total bed capacity, including cribs, was 5,189 and 945 bassinets, and a total bed complement of 5,192 and 940 bassinets. The bed complement (including cribs) is classified as follows: Medicine and Surgery, 3,415; Obstetrics, 811; Tuberculosis (including T.B. Divisions), 222; Contagious Diseases, 124; Incurables (Macleod and Westlock), 34; Isolation, 124; others, 462. These figures do not include the Central Alberta Sanatorium, which has accommodation for 231 patients.

On the basis of a population in the Province of 818,000, we had one hospital bed (including cribs and bassinets) for every 133 of the population, or 7.5 for every 1,000 population; 134,262 patients were treated during the year, 116,673 adults and children, 17,589 newborn. The total patient days of all patients admitted was 1,465,643, being 1, 286,049 for adults and children, 179,594 newborn. This means that in 1944, hospital treatment was provided for 16.4 per centum of the population, or one in every six persons.

There was an average daily admission of patients to hospital of 367.8. The average number of days spent in hospital by each patient was 10.9, or 10.1 for adults and children, 10.8 for newborn, excluding Incurables, Orthopaedic, S.C.R., Poliomyelitis, and Tuber-culosis Division cases.

The average number of patients in hospital daily was 3,061.08, or one in every 267.2 of our population. Each bed provided accommodation for 21.9 patients during the year.

The staff summary is as follows: Executive 84, Clerical 190, Salaried Doctors 28, Technicians 95, Internes 30; Nurses, Graduate 760, Student 802, Probationers 94, Affiliates 23; Dietitians, Graduates 21, Student 6; Orderlies and Ward Helpers 383, all other employees 1,226.

There were 11 nurses, training schools in the Province. The number of nurses graduating during the year was 260.

During the year, 17,984 maternity cases were cared for. These cases comprised 13.4 per cent of the total cases admitted.

Living births were: Male 8,622, female 8,278, making a total of 16,900. There were 307 stillborn.

The maternal deaths reported were 20, these giving a death rate of .111 per centum of total maternity cases admitted and 1.183 per 1,000 living births. The living births in Alberta for 1944, excluding Indians, were 18,452. Of this number, 91.5 per centum took place in Government approved hospitals.

The approved hospitals reported that 32,761 general and 7,370 spinal anaesthetics were administered, and nine deaths resulted from these.

There were 767 autopsies performed. Infections developed in hospital totalled 278, divided into: Medical 43, Surgical 133; Obstetrical, mothers 43, infants 59.

The number of communicable diseases cases treated, excluding typhoid fever and tuberculosis, totalled 2,159; typhoid fever numbered 98, and tuberculosis, reported by general hospitals, 283.

Among other cases treated in hospital, there were 2,928 cardiac, 1,731 rheumatic, 690 goitre, 304 venereal, 138 alcoholic, and 1,387 malignant diseases cases.

There were 254 deaths within 10 days of surgical operations, and 908 within 48 hours after admission. Communicable diseases accounted for 67 deaths.

The approved hospitals reported 380,363 laboratory examinations and 73,007 X-rays.

The total operating expenditure of approved hospitals for the year 1944 was \$5,540,143.68, divided as follows: Administration, \$564,783.81; Professional Care, \$2,142,602.61; Kitchen and Dining Room, \$1,312,628.84; General House and Property, \$1,002,727.78; and Maintenance, \$517,400.64.

Revenue of these hospitals amounted to \$5,892,693.00.

The average cost per patient day was \$3.78.

The average revenue per patient day was \$4.02.

The average cost was divided as follows: Administration, 10.19%; Professional Care, 38.67%; Kitchen and Dining Room, 23.69%; General House and Property, 18.09%; and Maintenance, 9.34%.

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 1944.

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. 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.

# DEPARTMENT OF PUBLIC HEALTH

		Total	$\begin{array}{c} 952\\ 617\\ 617\\ 827\\ 617\\ 826\\ 501\\ 505\\ 501\\ 876\\ 617\\ 105\\ 505\\ 502\\ 277\\ 1,255\\ 277\\ 1,255\\ 277\\ 1,255\\ 277\\ 1,255\\ 277\\ 1,255\\ 5326\\ 5542\\ 558\\ 5,425\\ 5425\\ 5,4$
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TABLE No. 1

ANN	UAL	REPORT.	1944

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Edmonton, General Polio Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, Isolation Edmonton, St. Joseph's Edmonton, University of Alberta:	<ul> <li>(b) S.C.R.</li> <li>(c) Orthopaedic</li> <li>(d) Polio</li> <li>(e) T.B. Division</li> <li>(e) T.B. Division</li> <li>Edson, St. Johns</li> <li>Ekk Point, Municipal</li> <li>Ekneral</li> <li>Farview, Community</li> <li>Ft. McMurray, St. Gabriel's</li> <li>Ft. Smith, General</li> <li>Ft. Smith, General</li> <li>Hardisty, St. Anne's</li> <li>Hardisty, St. Anne's</li> <li>High Prairie, Municipal</li> <li>Grande Prairie, Municipal</li> <li>Grande Prairie, Municipal</li> <li>Hardisty, St. Anne's</li> <li>High Prairie, Providence</li> <li>High Prairie, Providence</li> <li>Innistall, Municipal</li> <li>Jasper, Seton</li> <li>Jasper, Seton</li> <li>Jasper, Seton</li> <li>Jasper, Seton</li> <li>Lethbridge, Isolation</li> <li>Lethbridge, Isolation</li> <li>Mannville, Municipal</li> <li>Magrath, Municipal</li> <li>Municipal</li> <li>Municipal</li> <li>Magrath, Municipal</li> <li>Municipal</li> <li>Municipal</li></ul>

## DEPARTMENT OF PUBLIC HEALTH

			IstoT	$\begin{array}{c} 642\\ 1,220\\ 2,084\\ 667\\ 667\\ 383\\ 1,453\\ 1,445\\ 383\\ 1,449\\ 984\\ 1,212\\ 589\\ 509\\ 509\\ 509\\ 1,453\\ 1,925\\ 1$	134,262	3.473	130,789	2,505	128,284
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TABLE	Complement	Number	Bassinets		5 940	Patients in hospital at end	(1)	Division cases	
L	Bed Co	NU	Cribs		7 525	ess Pa		Divib	
	ñ		tiubA	23222222222222222222222222222222222222	945 6,134 4,667	Le	•	F	
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	Bed Capacity	ber	Bassinets						
	d Ca	Number	Cribs		5 524				
	Be		tlubA	25222222222222222222222222222222222222	4.665				
			Hospitals	Provost, Municipal Radway, St. Joseph's Raymond, Municipal Red Deer, Municipal Red Deer, Municipal Rocky Mountain House Sprit River, Holy Cross Sprit River, Holy Cross Sprit River, Holy Cross St. Paul, St. Theresa Stertler, Municipal Trochu, St. Mary's Turner Valley, Olifields General Vegreville, General Vermilion, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Wiking, Municipal Wainwright, Municipal Wainwright, Municipal Wainwright, Municipal Westlock, Immaculata Westlock, Immaculata Westlock, Immaculata					

			Ē	TOTAL OF	ALL PATIENT	ENT DAYS				
Hamiltela	Total e	of all Patien	Patients, 1944	I		harged	Averag	e Stay of Patients charged or Died	ients Dis-	Aver. No. Patients in Hosnital
emandeora	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total	Daily
					- 404	- 000	- 40		- 000 M	
Athabasca, Municipal	5,823			5,881	1,481	7.362	97.1		06.75	
Banff, Mineral Springs	CC0.12			127.73	016 1	661.62	8.26		8 57	
Barrnead, Municipal	5.636		6.626	5.019	982	6,001	9.95		9.96	
Beaverlodge, Municipal	2.024			2,002	911	2,913	6.6		7.3	
Bentley, Community	393			393	76	469	4.05		4.46	
Berwyn, R. A. P.	2,919	576	3,495	2,810	553	3,363	6.36	9.06	6.82	9.57
Bonnyville, K. H. P.	2,800			2,133	1 015	0649.0	0.00		0.200	
· Bonnyville, St. Louis	6,343			0,321 E 407	LG CTN'T	25011	0101		122.0	
	100 886		-	94.085	13.719	107.804	11.393		11.425	
Calgary, UCHERAL	11.810		•	11.526		11.526	25.9		25.9	
Calgary, Isolation Calgary, Holy Cross	87.349	12,646	99,995	88,972	12,689	101,661	11.14	10.2	11.02	
Calgary, Junior Red Cross	19,495			17,186		17,186	291.28		291.28	
Calgary, Salvation Army Grace	5.610			0.003	0,004	11,363	11.23		11.0	
Camrose, St. Mary's	13,213	026		9 244	279	10,000	7.41	69.6	7.66	
Canmore, Canmore	C 10 0			6.193	1.880	8.073	6.79		7.17	
Carmanday Littla Row Minicinal	1.929			1.831	156	1.987	9.38		9.28	
Castor. Our Lady of the Rosary	3.224			3,149	718	3,867	6.13		6.59	
Cereal, Esler	1,958			1,934	477	2,411	8.68		8.86	
Claresholm, Municipal	9,822			9,600	1.574	11,174	10.84		10.91	
Cold Lake, John Neil	CTR'T			1 080	IL	1001	1 82		7.86	
Coleman, Miners Union	LTD.h			4.102	618	4.720	10.88		10.82	
Consolt, Autility at Consel	2.922			2.922	510	3,432	7.41	9.27	7.66	
Daveland Providence					Victoria and a second					
Desmarais. St. Martin's	2.599		2,662	2,202	63	2,265	12.7	10.5	13.0	7.29
Didshurv. General	2,383		3,107	2,372	722	3,094	5.36	8.69	5.88	62.1
Drumheller, Municipal	18,427	-	20,892	18,565	2.455	21,020	6.4	8.6	6.6	21.6
· Eckville, Municipal	2.662	_	3,133	010 0	100.1	5,010	0.01	10.0	10.01	10.07
Edmonton, Beulah, Rescue Home	2,010	1,995	4,000	50.431	6 302	4,003	10.78	10.99	10.45	157.56
General	10 10 020		48,950	47 504		47.504	296.9		296.9	135.10
Edmonton, General, T.B. Division			DADIOL	a constant					and a second second	11-11-11-11-11-11-11-11-11-11-11-11-11-
Misericor	62.097	12,860	74,957	48,723	10,399	59,122	9.606	8.04	71.29	205.36

TABLE No. 2

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	ents Dis- led Patients in Hospital	Total	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	ge Stay of Patients charged and Died	Newborn	10.27 12.07 12.07 12.07 10.23 10.23 10.23 10.23 10.23 10.23 10.23 10.23 10.23 10.25 10.25 10.25 10.25 10.25 10.25 10.25 10.25 10.25 10.25 8.772 8.772 10.55 10.55 8.773 10.55 10.55 8.773 10.55 10.55 8.773 10.55 10.55 8.773 10.55 10.55 8.773 10.55 10.55 8.773 10.55 8.74 8.74 8.74 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.55 8.743 10.75 8.743 10.55 10.55 10.
	Average Stay charged	Adults and Children	$\begin{array}{c} 10.22\\ 10.22\\ 191.59\\ 16.13\\ 24.5\\ 171.5\\ 171.5\\ 171.5\\ 17.53\\ 17.53\\ 17.53\\ 17.53\\ 17.53\\ 17.53\\ 17.53\\ 17.53\\ 17.53\\ 17.53\\ 17.53\\ 10.9\\ 10.9\\ 10.9\\ 10.9\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ 10.246\\ 10.23\\ 10.246\\ 10.23\\ 10.246\\ 10.23\\ 10.246\\ 10$
XS	charged	Total	$\begin{array}{c} 129,649\\ 17,728\\ 26,631\\ 94,088\\ 40,501\\ 1,359\\ 5,318\\ 6,710\\ 5,718\\ 5,328\\ 5,739\\ 5,739\\ 5,739\\ 5,739\\ 5,739\\ 3,025\\ 11,385\\ 3,077\\ 2,795\\ 3,026\\ 13,0$
PATIENT DAYS	Total Patients Discharged and Died	Newborn	17,263 7,030 7,030 7,030 1,222 2,522 1,222 2,522 1,227 1,227 2,512 1,227 1,227 2,512 1,227 1,227 2,512 1,227
PA	Total Pa	Adults and Children	$\begin{array}{c} 112,386\\ 117,728\\ 17,728\\ 17,728\\ 26,631\\ 87,058\\ 40,501\\ 1,359\\ 5,515\\ 5,515\\ 5,515\\ 10,663\\ 3,229\\ 5,515\\ 10,782\\ 2,512\\ 10,782\\ 2,512\\ 11,742\\ 2,523\\ 7,782\\ 10,782\\ 2,512\\ 3,453\\ 6,054\\ 10,7782\\ 2,523\\ 7,782\\ 2,512\\ 3,453\\ 6,55\\ 11,742\\ 2,523\\ 3,471\\ 11,745\\ 2,539\\ 10,756\\ 3,471\\ 3,471\\ 15,176\end{array}$
	Patients	Total	$\begin{array}{c} 139.051\\ 139.051\\ 12.129\\ 31.582\\ 31.582\\ 31.582\\ 31.582\\ 31.562\\ 3673\\ 5.562\\ 3.337\\ 5.562\\ 3.337\\ 5.562\\ 3.337\\ 5.562\\ 3.337\\ 110.266\\ 1.075\\ 5.562\\ 3.337\\ 110.266\\ 1.075\\ 5.562\\ 3.337\\ 3.337\\ 110.266\\ 1.075\\ 5.562\\ 3.337\\ 3.337\\ 110.990\\ 11.9990\\ 11.9990\\ 37.870\\ 11.9990\\ 37.870\\ 18.616\\ 1.506\\ 38.870\\ 37.870\\ 18.510\\ 18.5$
	of All Pa	Newborn	18,393 6,890 6,890 1,149 1,230 1,230 1,230 1,230 1,230 1,230 1,230 261 271 271 271 271 271 255 1,342 1,558 255 1,342 255 1,342 255 1,558 255 1,558 255 1,558 255 1,568 255 255 1,568 255 255 255 255 255 255 255 255 255 25
	Total	Adults and Children	120,658 19,0081 19,0081 120,658 31,582 31,582 3,682 3,682 4,814 5,571 5,571 5,575 10,857 4,814 5,875 10,857 4,814 8,046 8,046
		Hospitais	Edmonton, Royal Alexandra Edmonton, Isolation Edmonton, Isolation (T.B. Division) Edmonton, St. Joseph's Edmonton, University of Alberta: (a) Civilian (b) S.C.R. (c) Orthopaedic (c) Orthopae

# DEPARTMENT OF PUBLIC HEALTH

Magrath, Municipal 2.012 296 Mannville, Municipal 3.096 5.958 3.096 5.958	1 4.035	Heart	1.955	4,842	L 650.7 L 8104		1's 6.173 1		al	4,826	117%	Dougall		9156		3.727	fields General 3,980	13.770	al 7,490	4.746	1,418	4,502	micipal 5,361	0.196 0.196	12 505	Wetaskuwin, Community Willingdon, General 7,251 1,091	Total 1,286,049 179,594	Less Incurables, Orthopaedic, S.C.R., Polio, and	Tuberculosis Division Cases
6 2.308 0 5.783 8 39,054		14 9,104 14 3,953						_	_	2								_								91 8.342	 1,465,643	164.852	-
1,993 296 4,817 293 32,313 5,893	•	3.120 1.436 3.120 768			-		1		14,589 3,489							3,620 898											1.247.174 174.154		
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8.13 6.94 10.03	6.40	5.03	7.818	00001	10.00	8.65	5.753	0 10	10.22	1.89	6.62	1.09	8.16	11.09	7.33	8.87	1.9	10.1	21.5	2.03	22.2	8.36	6.7	6.66	8.38	8.23	10.97		
8.00 10.37 9.8	8.61	9.73	9.78	10 40	10.04	9.33	8.186		16 01	8.64	9.31	9.54	10.64	10.84	6.68	9.65	10.20	00'0T	10.01	8.70	9.46	10.29	00.6	9.60	8.80	10.04	10.17		
8.4 7.33 10.01	6.60	5.56	8.187	10.656	9.78	8.759	6.054	0 00	10.31	8.0	7.104	7.32	8.56	11.05	7.2	9.017	4.0 ×	1.04	0.70	7.41	8.05	8.61	8.04	7.15	8.46	8.43	10.87		
6.32 15.84 10.69	12.94	10.83	16.28	23.73	19.38	15.46	20.35	50.79	15.76	13.66	7.27	8.93	34.11	29.73	24.36	12.68	14.03	10.0F	15 89	5.35	14.96	17.30	13.47	28.59	44.33	22.85	3,061.08		

# DEPARTMENT OF PUBLIC HEALTH

			year during the Graduated	
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	Training School			NNO NNO NNO NNO NNO NNO NNO NNO NNO NNO
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			Medical Metes	Yes No No No No Yes Yes No No No No No No No No No No No No No
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		ers	Employees All other	80000004004446014F00009404 HD 002000
		Others	Orderlies and Ward Helpers	0.00 0 1 1440 00 10 1 4 1400 0 14004
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		ses	Probationers	11 11 11
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			Graduate	00400000008400000000000000000000000000
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		Administr'n	Clerical	<sup>20</sup>
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			Hospital	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Barrhead, St. Joseph's Barrhead, St. Joseph's Barrhead, St. Joseph's Berwyn, R.A.P. Bomyville, K.H.P. Bomyville, St. Louis Brooks, Municipal Calgary, Isolation Calgary, Isolation Calgary, Junior Red Cross Calgary, Junior Red Cross Carnose, St. Mary's Carnore, Cammore Carnore, St. Mary's Carnore, Our Lady of the Rosary Carnore, Our Lady of the Rosary Carnory, Municipal Coronation, General Coronation, General Daysland, Providence Desmarals, St. Martin's Didsbury, Municipal Coronation, General Bedmonton, General Edmonton, General, T.B. Division

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Edmonton, General, Polio Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, Isolation Edmonton, Isolation	Civil S.C.I Polic	(e) T.B. Division Edson, St. John's Elk Point, Municipal Empress, Cottage Fairview, Community Ft. McMurray, St. Gabriel's Ft. Smith, General Ft. Vermition, St. Theresa	Galahad, St. Joseph's Grande Prairie, Municipal Grinshay, Battle River Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfall, Municipal	Jasper, Seton Killam, General Lacombe and District Community Laco La Biche, St. Catharine's Lanont, Public Lethbridge, Isolation Lethbridge, St. Michael's Lethbridge, Galt Lioydminster, Municipal Merleod, General Magrath, Municipal	Medicine Hat, General Medicine Hat, Isolation Mundare, General McLennan, Sacred Heart Myrymam, Municipal Nordegg, General Olds, Municipal Peace River, Municipal

# DEPARTMENT OF PUBLIC HEALTH

STAFF	Administr'n Professional Nurses Dietitians Others	year Graduated during the Sectool Medical Medical Studente Medical Medical Craduated Medical Student Merel Helpers Medical Student Merel Helpers Medical Student Craduate Craduate Craduate Craduate Craduate Student	1       1	
	Adr	Hospital	Provost, Municipal Radway, St. Joseph's Red Deer, Municipal Rimbey, St. Paul's Rocky Mountain House Smoky Lake, Geo, McDougall Sprit Briver, Holy Cross St. Paul, St. Theresa Stettler, Municipal Trochu, St. Mary's Turner Valley, Oilfields General Vegreville, General Vegreville, General Viking, Municipal Vilcan, Municipal Vilcan, Municipal Vilcan, Municipal Wayne, General Wayne, General Westlock, Immaculata Westlock, Immaculata Westlock, Immaculata Westlock, Immaculata	Total

TABLE No. 3-Continued

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S		Venereal Disease d		-	1	1	-	- P		21	14	-	•			•		Ĩ			and a	C-3	1	1	4	-	46	-	11
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Si		Mallgnau Diseased	10	.00	1	-	4	010	11-	134	951	5	1	99	10	0		101	.4	4	9		1 110	I	13			1	64
	oli	cases Rheumat	12	10	4		-	16	0.03	18	36	8		001	- 0	00		TE	44		10	6 6	ic notavi	101	9	-	99	2 1	56
əse	əsiQ	Cardiac l	12	20	18	I	00	916	18	147	910	6	1	33	4.00	01-	II	20V	00	4	9	10	ONT	19	54	11	170	-	44
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1q9	exc	Diseases Diseases Diseases		64	-	11	- mark	64	1	13	467	100		4		: 1		19	23	and a			P 11		-	1	30	20	119
Tuber- culosis		Forms Other	1	11		1 1		0	2	1-		19	1				1	-	4 61				10	I	-		1		15
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	I	Obstetrio	133	116	109	200	63	112	107	1307	1070	CICT	490	382	62	21	-	48			59						110		1239
	avin	Female	24	112	1	.00	-	90 T	11	347	150	201	5	10	1110		c1 (	0.0	3	1	25	00	1		1		1111		230
Non-	opera	alaM	47	52-52	10			17	-	421	910	33	3	10	-	1	6	10	101	12		17		1		4	:		256
	or	Female	09	24	84	200	15	39	64	1306	1616	bl	-	125	35	11	69	26	29	28	76	30		65	344	45	651	-	786
cal	Minor	Male	74	131	40	10	10	28	818	1042	1075	BIL	61	117	333	13	11	18	5 00	43	12	20	1	67	420	41	480		561
Surgical	-	Female	Ĩ	81 oc	24	-	9	19	20	773		38	8	177	21	16	14	05	1	17	16			44	148	30	234		744
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al		Female	238	155	117	38	123	106	120	1041	670	100	•	415	19	64	137	523	133	52	186	111	0.41	68	324	72	1992		1348
Medical		9leM	215	118	108	31	143	10.0	139	751	0.01	000		367	14	121	129	64	92	68	61	123	in the		461	74	016		1186
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	Athabasca, Municipal	Banti, Mineral Springs Barrhead, St. Joseph's	Bassano, Municipal	Beaverloage, municipal Bentley, Community	Berwyn, R. A. P.	Bonnyville, K. H. P. Ronnvvilla St Louie	Brooks, Municipal		Calgary, Isolation	Calgary, Junior Rad Cross		Camrose, St. Mary's	Canmore, Canmore	Carmangay, Little Bow Municipal	Our	Cereal, Esler Claracholm Municipal	Cold Lake. John Neil	Coleman, Miners' Union	Consort, Municipal	Coronation, General	Daysland, Providence		Drumheller, Municipal		Edmonton, Beulah Rescue Home	-	General, Misericor		

TABLE No. 4-CASES

TABLE No. 4-Continued

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sə		Disease	11 28 28 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
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\$93		Disease	2322 111 111 2882 2882 2882 2883 2883 28
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tqaa	6X0	Diseases Diseases	910 911 912 914 914 914 914 914 914 914 914
Tuber- culosis		Forms Other	H 10
Tut		ary Pulmon	89 5 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Living Births		Female	870 870 267 267 215 115 115 115 115 115 123 93 93 93 123 123 123 123 123 123 123 123 123 12
Liv	-	əlaM	876 876 289 289 588 337 288 833 337 288 65 65 65 65 65 65 103 110 112 123 85 85 85 85 85 85 85 85 85 85 85 85 85
0	1 .	Percents Materni Total Ad	13.1 10.1 10.1 10.2 11.6 11.6 11.6 11.6 11.6 11.6 11.6 11
	p	Obstetri Admitte	1710 604 604 688 688 688 688 777 775 775 775 775 734 1346 1346 1346 1346 1346 1346 1357 755 775 755 775 755 777 755 766 146 766 766 766 766 766 766 766 766 766 7
1- tive		Female	321 360 360 44 44 66 66 66 66 61 11 11 11 11 11 11 11 11
Non- Operative		Male	900 493 493 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 8 9 9 9 9
1	1	Female	2520 2520 859 852 811 811 811 812 813 813 813 813 813 813 814 815 815 815 815 815 815 815 815
al	Minor	aleM	2128 1 1 11118 11118 95 95 95 95 95 95 95 95 151 151 151 151
Surgical	1	Female	1071 1156 1156 1156 1156 1156 1132 114 1129 668 688 688 688 688 688 688 688 688 68
	Major	əlsM	766 766 750 750 750 750 750 750 750 750 750 750
Medical		Female	2205 467 467 886 836 999 949 949 949 1122 1122 1122 1128 1128 120 1368 1368 1368 1368 1368 1368 1368 1368
		Male	1451 1550 1550 1550 1559 1659 1659 1659 1572 1572 1572 1572 1572 1572 1572 1572
		Hospitals	Edmonton, Royal Alexandra Edmonton, Isolation Edmonton, St. Joseph's Edmonton, University of Alberta: (a) Civilion (b) S.C.R. (c) Orthopaedic (c) Orthopaedic (c) Orthopaedic (c) Orthopaedic (d) Polio (e) T.B. Division Edson, St. John's Edson, St. John's Edson, St. John's Edson, St. John's Edson, St. John's Edson, St. John's Fr. McMurray, St. Gabriel's Fr. McMurray, St. Gabriel's Fr. Smith, General Fr. Vermilion, St. Theresa Galabad, St. Joseph's Garade Prairie, Municipal High Prairie, Municipal High River, Municipal Innistal, Municipal Innistal, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Lethbridge, St. Gatherine's Lethbridge, St. Michael's General Lethbridge, St. Michael's General Lethbridge, St. Municipal Lethbridge, St. Municipal Lethbridge, St. Municipal Lethbridge, St. Municipal Lethbridge, St. Municipal

DEPARTMENT OF PUBLIC HEALTH

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00000000000000000000000000000000000000	1731 1387
339 339 339 339 339 339 339 339 339 339	1731
$\begin{array}{c} 126\\ 120\\ 120\\ 120\\ 212\\ 212\\ 212\\ 212\\ 221\\ 221$	2829
14	38
8 1 NH 70 1 8 1 80 1 80 1 80 1 80 1 80 1 80 1	2159
	164
4             0   0   4   0   0   1   0   0	283
2867 276 276 276 276 277 276 277 276 277 276 277 276 277 276 277 276 277 276 276	8278
42 309 309 309 309 309 417 174 473 55 60 56 60 56 60 56 60 56 60 56 60 56 60 56 60 56 60 56 60 56 60 56 60 56 60 56 60 57 57 57 57 57 57 57 57 57 57 57 57 57	8622
$\begin{array}{c} 13.8\\ 17.7\\ 15.8\\ 15.8\\ 15.4\\$	13.4
$\begin{array}{c} 110\\ 636\\ 636\\ 164\\ 164\\ 100\\ 100\\ 100\\ 100\\ 100\\ 110\\ 107\\ 1117\\$	17984
41 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 24 23 24 24 24 25 26 26 26 27 27 26 26 27 27 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	2295
104 104 104 104 104 104 104 104	3655
84 600 539 531 531 531 539 539 539 539 539 539 539 539	15282
587 587 587 587 587 586 587 585 585 585 586 586 586 586 585 585 585	13957 15282
$\begin{smallmatrix} 10\\285\\285\\31\\285\\361\\317\\171\\171\\171\\171\\171\\171\\123\\55\\55\\55\\57\\57\\77\\77\\123\\50\\100\\120\\50\\120\\120\\50\\120\\120\\120\\120\\120\\120\\120\\120\\120\\12$	8686
1909 117 117 117 117 117 117 117 117 117 11	6070
217 608 203 203 203 203 203 186 155 169 136 136 136 136 136 136 136 136 136 136	23302 25722
204 653 140 156 1179 156 1179 156 131 131 133 134 136 133 136 133 136 133 136 133 136 136	23302
Mannville, Municipal Medicine Hat, General Medicine Hat, Isolation Mundare, General Myrnam, Municipal Myrnam, Municipal Nyrnam, Municipal Nordeg, General Nyrnam, Municipal Provost, Municipal Provost, Municipal Red Deer, Municipal Radway, St. Joseph's Red Deer, Municipal Roky Lake, George McDougall Spirit River, Holy Cross Community St. Paul's Rether, Municipal Taber, Municipal Trochu, St. Mary's St. Paul's Stettler, Municipal Trochu, St. Mary's Community Viking, Municipal Vermilion, General Wayne, General Wayne, General Wayne, General Wetaskiwin, Community Willingdon, General	Total

TABLE No. 5

		84 nithiW lo stuoH noissimbA	2 103 2 14 10 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	əld	Diseases Communical Diseases	
		From From	
Deaths	3	From Cancer	No Rev 231 11 11 5
De		Premature	1 00 1 1412 0 00 1 1 4 1 1 100 4 1
	Obstetrical	Gtillborn	8 50 50 1 50 1 1 2 2 8 330 1 1 1 5
	Obste	Newborn	
		Mothers	
ped	trical	stnstal	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Develo	Obstetrical	Mothers	2 sport
Infections Developed in Hospitals	-	Surgical	No. No. No. 1111111111111111111111111111
Infec		Medical	
		Total Operations	218 600 1173 1173 1173 1173 1173 1173 1173 11
		General	165 1165 1108 899 89 899 1103 1103 1103 1103 1103 1122 1122 1122
suo	ures	Closed	25 1 1 1 1 23 23 23 23 23 23 23 23 23 23 23 23 23
Operations	Fractures	Open	21 32 32 15 28 15 28 15 33 15 15 15 15 15 15 15 15 15 15 15 15 15
1000	s	notistuqmA	4         4         2           8         4         4           8         5         5           5         5         6           5         5         6           5         5         6           5         5         6           5         5         6           5         5         6           30         3         3           4         4         4           1         1         1           1         1         1           31         1         1           31         1         1           113         11         1
Surgical		Curettages	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	g [cs]	Gynaecologi Durettages	200 33 33 3 3 3 3 3 3 3 2 2 3 3 3 2 2 3 3 3 2 3 3 3 2 3
		IsnimobdA	$\begin{array}{c} 26\\102\\11\\24\\12\\27\\12\\27\\13\\26\\12\\13\\18\\18\\18\\18\\18\\18\\18\\18\\18\\18\\18\\18\\18\\$
		Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St, Joseph's Bassano, Municipal Bentley, Community Berwyn, R. A. P. Bonnyville, K. H. P. Bonnyville, K. H. P. Bonnyville, St. Louis Brooks, Municipal Calgary, Junior Red Cross Calgary, Garetal Consort, Municipal Coronation, General Daysland, Providence Desmarals, St. Martin's Didisbury, General Didisbury, General Coronation, General Coronation, General Coronation, General Coronation, General Coronation, General

DEPARTMENT OF PUBLIC HEALTH

10.351 5.333 5.44 5.333 114 8.857 74 6.868 6.11 1.12 1.25 1.22 1.22 1.22 1.22 1.22 1
<u>888</u>
100         11         11         130
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3222 215 3 32 3 4 0 1 1 3 3 1 1 3 3 1 1 1 3 1 1 1 3 1 1 1 1 3 3 1 1 1 1 3 3 1 1 1 1 3 3 1 1 1 1 3 3 1 1 1 1 1 3 1
100
<u>     1     </u>
<u>12                                      </u>
3477 3477 4535 4535 4535 165 165 165 165 165 165 165 165 165 16
2061 4392 1392 146 15 15 1338 1346 1338 1346 1338 1338 1338 1338 1338 1338 1338 133
$\begin{array}{c} 267\\ 115\\ 115\\ 115\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12$
4         5         1         4         8
888 888 888 888 888 888 888 888 888 88
21 22 23 23 23 23 23 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25
253 465 465 465 66 66 66 66 66 66 11 12 138 138 138 138 138 138 138 138 138 138
746 600 600 600 600 600 600 600 600 835 112 112 112 115 112 113 835 113 113 113 113 113 113 113 113 113 1
Edmonton, Royal Alexandra Edmonton, Royal Alexandra Edmonton, Royal Alexandra Edmonton, Isolation, T.B. Division Edmonton, University of Alberta: (a) Civilian (b) S.C.R. (c) Orthopaedic (c) Polo (c) Orthopaedic (c) Orthopa

## DEPARTMENT OF PUBLIC HEALTH

1		84 nidiW To stuoH noissimbA	20425 2664 1 260 148814488 20425 2664 1	908
	əlo	From Communical Diseases		67
	,	From From	[ ] ] ] ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [	6
Deaths	3	From Cancer		432
Dea		Premature	1000 H 0000 H 0000 H 10000	212
	rical	Stillborn		307
	Obstetrical	Newborn	0044 01 401401 44450 1 10 H	221
		Mothers	<b>H</b>	20
oped	Obstetrical	stastal		59
Devel	Obste	Mothers		43
Infections Developed in Hospitals		IsalgruZ	· · · · · · · · · · · · · · · · · · ·	133
Infec		Medical	· · · · · · · · · · · · · · · · · · ·	43
		Total Operations	$\begin{array}{c} 135\\ 331\\ 703\\ 333\\ 333\\ 333\\ 356\\ 132\\ 333\\ 356\\ 132\\ 333\\ 356\\ 147\\ 147\\ 147\\ 147\\ 147\\ 123\\ 356\\ 147\\ 193\\ 356\\ 147\\ 193\\ 356\\ 147\\ 193\\ 356\\ 122\\ 220\\ 193\\ 356\\ 122\\ 220\\ 122\\ 122$	50770
		General	$\begin{smallmatrix} 72\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73$	
ons	tures	Closed	66 351 351 351 351 351 351 351 351	2595 32771
Operations	Fractures	Open	4 1 1 1 2 2 2 3 1 1 1 1 1 2 2 3 3 1 1 1 1	384
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	anoitstuqmA		NUMULONOMA 40 H H 100	465
Surgical		Curettages	20 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10	1603
	g ical	Gynaecologi not includin Curettages	7386 1400 1888 1888 1888 1888 1888 1888 1888	2683
		InnimobdA	$\begin{smallmatrix} 42\\ 187\\ 187\\ 322\\ 688\\ 933\\ 933\\ 931\\ 932\\ 933\\ 932\\ 933\\ 100\\ 120\\ 120\\ 120\\ 120\\ 120\\ 120\\ 120$	10269
		Hospitals	Provost, Municipal Radway, St. Joseph's Red Deer, Municipal Rimbey, St. Paul's Rimbey, St. Paul's Rocky Mountain House Smoky Lake, George McDougail Spirit River, Holy Cross Community St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Trochu, St. Mary's Turner Valley, Olifields General Vermilion, Municipal Viking, Municipal Viking, Municipal Wahwright, Municipal Wahwright, Municipal Wayne, General Wayne, General Wetzskiwin, Community Willingdon, General	Total

TABLE No. 5-Continued

• 79

		DE	DEATHS	-									
	Withi from	Within 10 days from Surgical Operation	al es	ccluding			pla	su	su				
Hospitals	Number	Percentage to Total Secontage	Male	Female	General Ar thetics Give	senA leniq2 sviD solisdt	H səizqotuA	Laboratory Examinatio	X-Ray Examinatio	Blood taken	Bacteriolog Examinatio Sterilized Dressings	Pasteurized IqquZ MilM	Water Supp Bested Boloirsiang
Athabasca, Municipal Banff, Mineral Springs Barrhed, St. Joseph's	1	.46	515 9	34	320	10	111	3374	118 901 229	12	Yes 1	No Yes Yes	Yes Yes
	ea :	.12	13	ອາທ	1815	11	1 1	1 1	1 13	1 1	- 1	o o o	×~;
Bentley, Community Berwyn, R.A.P.	F	1.1		100	24	19	11	243	166	- 4	- 9 -	NON	
Bonnyville, K.H.P. Bonnyville, St. Louis	11		n ið	-17-17-1	224	ea ]	11	316 1307 .	112	22	- 01	NON	H > F
Brooks, Municipal Calgary, General	217	.49	209	147	3222	792	139	33550	4087	29	143	Yes	X
Calgary, Isolation Calgary, Holy Cross	29	1 13	162	105	3540	1109	249	38501	5805	1561	1 14	Yes	22
Calgary, Junor Arny Grace	1 1-	Ę I.	00 5	61 0	388	175		2091	869	152	1 00	Yes	Yes
		12	100	2 eo g	42	102	11	978	426	119	12	Yes	X
Carmangay, Little Bow Municipal		23	0 0	2010	26	112		546	125	161	Yes 4	No	Yes
Cereal, Ester		.59	000	99	45	01	1	200	223	30	4.6	No	~×
Cold Lake, John Neil	• 1	36	10		17	10		105	18	100	C1 C1	No	XX
Coleman, Miners Union Consort, Municipal	1.1		01-1	# 00 1	196		• ;		100			No	
Coronation, General Davsland, Providence	-		NO B	eport 7	41	14	No Re	eport 10	10	-	No B	eport	-
Desmarais, St. Martin's		1.00	40	011	100			1				No	~
Drumheller, Municipal	- 4	40	35. 0	25	364	270		277	652	53	Yes	Yes	Yes
Eckville, Municipal			4	7	106	13	-			011	61	Yes	20
Edmonton, Beulah Rescue Home	14	69	68	09	1164	453	99	24089	6963	815	12	Yes	->-
			15	13		100 mm				++++	-		_

TABLE No. 5a

TABLE No. 5a-Continued

		Water Supply Tested Bacteriologic	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
		Pasteurized	Yes Yes Yes Yes Yes No No No No No No No No No No Yes No No No No No No No No No No No No No
		Bacteriologic Examination Sterilized Dressings	1 188 1 1 1 18 1 1 19 19 19 19 19 19 19 19 19 19 19 19
		Blood taken Wasserman	6838 15 15 10 10 15 10 15 10 11 11 11 11 11 11 11 11 11 11 11 11
	S	X-Ray Examination	11932 11932 11932 122 1335 1355 1355 1100 155 1110 555 555 555 555 555 555
	S	Laboratory Examination	53199 82351 60 60 47833 820 820 820 820 820 174 174 174 174 174 174 174 174 174 174
	pla	əH səisqotuA	198 198 198 198 198 198 198 198 198 198
		Spinal Anaea Spinal Anaea	432 631 631 631 631 1004 73 1004 73 114 73 115 9 9 111 115
		nA lerend thetics Given	1122 1122 1122 1122 1122 1132 1132 114 114 114 114 114 114 114 114 114 11
	xcluding	Female	1585 6 6 6 6 1 1 1 1 1 1 1 1 2 2 8 6 6 1 1 1 2 2 8 6 6 1 1 1 2 2 8 6 6 1 1 1 2 2 8 6 6 6 7 3 2 2 8 6 6 6 7 3 7 3 7 3 7 3 7 4 6 6 6 6 6 6 7 1 7 3 7 3 7 4 6 6 6 6 7 1 7 3 7 4 6 6 6 6 7 1 7 3 7 4 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1
DEATHS	Total exc Stillbir	Male	110 125 125 125 125 125 125 125 125 125 125
DE	Within 10 days from Surgical Operation	Percentage to Total Serions	
	Within from Ope	Number	116       88             10       -   - 10 0 0     10 0 - 0
		Hospitals	Edmonton, General, Polio Edmonton, Misericordia Edmonton, Isolation, T.B. Division Edmonton, Isolation, T.B. Division Edmonton, St. Joseph's Alberta: (a) Civilian (b) S.C.R. (c) Orthopaedic (d) Polio (d) Polio (e) T.B. Division Edson, St. John's Edson, St. Joseph's Community Fr. Smith, General Fr. Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Fr. Smith, General Fr. Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Providence High River, Municipal Indigh River, Municipal Indigh River, Municipal Indigh River, Municipal Indigh River, Municipal Jasper, Seton Killam, General Jasper, Seton Killam, General Jasper, Seton Killam, General Jasper, Seton Killam, General Jasper, Seton

80 \*

Yes Yes No No No No No No No No No No No No No	
Yes Yes Yes No Yes No Yes No No Yes No Yes No Yes No Yes No Yes No Yes No No Yes No No No No No No No No No No No No No	
4 8 8 9 1 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2	695
1901 1280 22 236 236 236 40 105 155 164 164 164 164 164 164 164 164 164 164	19556
1341 2029 2029 2029 2029 46 119 211 211 211 211 211 211 211 211 211	73007
25110 14839 16839 16839 380 5510 1146 5510 1146 2860 2450 160 2450 160 157 157 157 157 157 157 157 157 157 157	380363
· · · · · · · · · · · · · · · · · · ·	767
288 288 288 288 284 104 284 128 284 128 284 128 284 128 284 128 288 288 288 288 288 288 288 288 288	7370
1084 8199 847 847 847 847 847 847 846 1115 1115 1116 1116 1122 1122 1122 112	32761
848.00008 1040 1000048404031044000000034	1378
42220108 9094961012222200588888828282899999999999999999999	2009
48 90 37 28 88 88 83 26 73 26 13 28 28 28 28 28 24 24 24 24 24 24 24 24 24 24 24 24 24	.50
	254
Lethbridge, St. Michael's Lethbridge, Gait Lloydminster, Municipal McLeod, General Magrath, Municipal Mannville, Municipal Medicine Hat, General Medicine Hat, Isolation Mundare, General Myrnam, Municipal Myrnam, Municipal Nordegg, General Olds, General Olds, General Peace River, Municipal Provost, Municipal Provost, Municipal Radway, St. Joseph's Provost, Municipal Radway, St. Joseph's Rocky Mountain House Smoky Lake, George McDougall Spirit River, Holy Cross Stertler, Municipal Taber, Municipal Techu, St. Municipal Techu, St. Municipal Terreri, St. Theresa Stettler, Municipal Vilna, Our Lady's Vilna, Our Lady's Vilna, Municipal Vermillon, Municipal Verterick, Immaculata Wainwright, Municipal Wainwright, Municipal	

Total Adminis- tration	<ul> <li>\$ 3.891.76</li> <li>\$ 7.52.61</li> <li>\$ 577.51</li> <li>\$ 577.51</li> <li>\$ 577.51</li> <li>\$ 571.30</li> <li>\$ 571.30</li> <li>\$ 1.349.59</li> <li>\$ 551.30</li> <li>\$ 923.93</li> <li>\$ 1.338.46</li> <li>\$ 511.065.40</li> <li>\$ 923.95</li> <li>\$ 1.338.96</li> <li>\$ 511.33</li> <li>\$ 1.338.96</li> <li>\$ 2.144.53</li> <li>\$ 2.155.54</li> <li>\$ 2.144.50</li> <li>\$ 2.144.50</li> <li>\$ 2.144.50</li> <li>\$ 2.155.54</li> <li>\$ 2.144.50</li> <li></li></ul>
Sundry	\$ 574.30 130.485 130.485 130.485 130.485 130.485 331.33 237.50 56.24 56.24 56.24 56.172 56.172 56.172 336.99 13.61781 42.82 56.67 56.172 56.172 56.172 56.172 56.172 15.211 41.51 15.211 41.51 12.339.92 15.246.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 25.46.08 27.47.35 15.2015
Insurance	\$ 555.02 655.98 655.98 655.98 655.98 655.00 163.00 163.00 163.00 163.00 163.00 177.05 57.00 197.45 301.45 301.45 57.00 197.45 301.45 301.45 57.00 197.45 31.50 115.27 315.67 3
Telegraph and Telephones	<ul> <li>\$ 190.11 116.74 715.25 155.06 32.84 116.75 56.65 56.65 56.65 56.64 168.43 68.43 68.43 68.43 68.43 68.43 109.15 508.35 134.24 2238.71 982.05 982.05 982.05 982.05 982.05 982.05 982.05 982.05 982.05 103.98 107.54 103.62 103.98 107.54 103.55 1180.51 118</li></ul>
Stationery, Printing, Postage	\$ 234.38 120.771 120.771 120.771 120.581 605.81 605.81 290.52 291.329 811.10 811.10 811.10 811.10 815.430 1775.42 1775.83 1777.83 1777.93 1777.93 1777.93 1777.93 1777.93 1777.93 1777.93 1777.93 1777.93 1777.93 1777.93 1777.93 1777.93 1
Office Expenses	\$         173.25           308.86         112.65           112.65         112.65           112.65         70.65           70.65         70.50           109.37         109.37           4,080.92         77.65           170.50         437.65           170.50         437.65           171.61         90.85           68.06         68.06           1143.80         143.80           1143.80         143.80           1143.80         143.80           98.52         1143.80           1143.80         1143.80           1143.80         1143.80           1145.20         989.52           11.165.20         989.52           11.165.20         90.62           90.62         90.62           82.19         82.19
Board Meetings	\$ 437.20 186.75 33.60 33.60 238.70 238.70 291.00 164.80 91.00 268.20 367.60 No Report No Report 664.80 664.80 531.72 357.40 No Report No Report 822.40 531.72 357.40
Salaries and Audit	\$         1,727.50           5.5393.72         3300.00           1.330.00         605.00           1220.00         1220.00           23.644.77         23.644.77           23.644.77         23.644.77           23.644.77         23.644.77           23.644.77         23.644.77           23.644.77         23.644.77           23.644.77         23.644.77           720.00         1.375.00           1.345.00         1.375.00           1.345.00         1.345.00           1.345.00         1.345.00           1.345.00         1.345.00           1.345.00         1.345.00           1.345.00         1.345.00           3.350.00         3.350.00           3.350.00         3.350.00           9470.00         975.00           9460.00         975.00           975.00         975.00           1.255.00         975.00           2.962.65         2.962.65
Hospitals	Athabasca, Municipal Barrft, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Berwyn, R. A. P. Benwyn, R. A. P. Benwyn, R. A. P. Bennyville, K. H. P. Bonnyville, K. H. P. Bonnyville, K. J. Duis Berooks, Municipal Calgary, Holy Cross Calgary, Junlor Red Cross Calgary, Salvation Army Grace Carnore, St. Mary's Calgary, Junlor Red Cross Calgary, Salvation Army Grace Carnores, St. Mary's Calgary, Junlor Red Cross Calgary, Junlor Red Cross Cannore, Cannore Hospital Carnangay, Little Bow Municipal Carnangay, Little Bow Municipal Carnangay, Little Bow Municipal Carnangay, Little Bow Municipal Carnangay, Little Bow Municipal Cornation, Municipal Cornation, Municipal Cornation, General Dyshand, Providence Didbury, General Dyshand, Providence Didbury, General Drumheller, Municipal Edmonton, Royal Alexandra Edmonton, Royal Alexandra Edmonton, Royal Alexandra Edmonton, Boural Municipal Edmonton, Boula Alexandra Edmonton, Boural Alexandra Edmonton, St. Joseph's Edmonton, St. Joseph's Edmonton, St. Joseph's Edmonton St. Joseph's Edmonton St. Joseph's Edmonton St. Joseph's Edmonton St. Joseph's Edmonton St. Joseph's

TABLE No. 6

82

50         503.52         503.52           55         4.264.92         610.22           338         2.708.75         3.141.73           69         3.462.33         1.658.25           61         3.462.33         1.658.25           61         3.462.33         1.916.66           61         3.462.33         1.916.66           61         3.462.33         1.916.66           3.462.33         1.916.66         3.462.33           61         3.462.33         1.93.88           61         1.93.893.97         1.93.883           61         1.93.66         1.401.75           33         1.916.66         3.141.73           60         1.5.747.42         1.544.65           315.17         1.518.81         1.0144.55           00         Report         1.5747.42           10         1.5747.42         3.15.17           315.17         3.074.09         3.15.17           32         1.044.55         3.074.09           315.17         3.074.09         3.15.17           32         1.044.52         1.044.52           10         1.0744.53         3.074.09           315.17	01 \$ 564.783.81
68.50 466.55 1.479.38 1.479.38 466.55 1.479.38 690.39 690.39 372.64 533.50 533.50 233.30 233.30 233.30 247.58 372.64 533.51 543.55 55 543.55 55 55 55 55 55 55 55 55 55 55 55 55	\$ 108,438.91
294.50 146.00 133.33 3416.00 266.35 134.60 266.40 266.40 266.40 266.40 266.40 266.40 275.85 266.40 243.29 233.37 24.88 26.60 234.88 26.60 24.90 27.25 27.26 27.26 27.26 27.26 223.63 24.87 26.00 51.24 26.00 51.24 26.00 51.24 26.00 51.24 27.56	\$ 41,337.57
17.51 277.65 127.86 127.86 127.86 127.86 127.86 127.86 127.86 127.88 1295.12 1295.12 144.25 128.89 104.14 128.89 104.14 104.14 128.85 112.32 128.89 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 104.14 105.77 105.737 105.77 105.	\$ 27,645.72
123.01 124.17 565.25 565.25 565.25 565.13 381.91 128.10 355.19 355.19 355.19 128.65 1.076.44 724.68 132.38 55.25 1.076.44 724.68 132.38 55.25 157.65 157.75	\$ 52,461.38
$\begin{array}{c} 133.30\\ 127.56\\ 127.56\\ 127.56\\ 122.31\\ 286.00\\ 868.12\\ 246.01\\ 172.25\\ 242.25\\ 141.00\\ 173.01\\ 141.00\\ 173.01\\ 1141.00\\ 178.85\\ 233.42$	\$ 22,874.23
722.40 364.40 340.70 335.70 374.00 374.00 335.20 239.31 No Report 186.24 186.24 186.24 186.24 186.24 186.24 186.24 186.24 186.24 186.23 186.25	\$ 15,032.52
$\begin{array}{c} 1.940.00\\ 1.506.10\\ 1.200.00\\ 513.84\\ 1.000.00\\ 1.875.00\\ 513.84\\ 1.000.00\\ 1.875.00\\ 513.84\\ 1.000.00\\ 1.875.00\\ 211.10\\ 211.100.00\\ 400.00\\ 1.000.00\\ 1.100.00\\ 1.250.00\\ 1.250.00\\ 1.250.00\\ 1.210.00\\ 1.200.0$	\$ 296,993.48
Grimshaw, Battle River Hardisty, St. Anne's Hardisty, St. Municipal Islay, Municipal Islay, Municipal Lacombe and District, Community Lacombe and District, Community Laconot, Public Laconot, Public Lethbridge, St. Michael's Lloydminster, United Municipal Marrwyne, Nursing Home Marrwyne, St. Joseph's Raymond, Municipal Proter, Municipal Proten, St. Joseph's Raymond Municipal Raymond Municipal Raymond Municipal Raymond's Municipal Raymond's Municipal Proten, St. Theresa St. Paul's Raymond's Municipal Proten, St. Theresa St. Paul's Proten, St. Mary's Trochu, St. Municipal Vilna, Our Lado's Vilna, Municipal Vilna, Municipal Vilna, Municipal Vermilion, Municipal Vermilion, Municipal Vermilion, Municipal Vermilion, Municipal Vilna, Our Lado's Vilna, General Vermilion, Municipal Vilna, Our Lado's Vilna, Community Wullingdon, General	Total

	Profess	Professional Care of Patients	atients	Kitch	Kitchen and Dining Room	Room	
Hospitals	Salaries	Supplies	Total	Wages	Food Supply		Total
Athabasca, Municipal Barthead, St. Joseph's Barthead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal Berwyn, R. A. P. Bennyville, K. H. P. Bennyville, St. Louis Berwyn, R. A. P. Bonnyville, St. Louis Berwyn, R. A. P. Bonnyville, St. Louis Berooks, Municipal Calgary, Isolation Calgary, Isolation Calgary, Isolation Calgary, Salvation Army Grace Calgary, Salvation Army Grace Calgary, Salvation Army Grace Calgary, St. Mary's Cannose, St. Mary's Cannose, St. Mary's Cannose, St. Municipal Cannose, St. Municipal Cartesholm, Municipal Cartesholm, Municipal Cartor, Our Lady of the Rosary Cereal, Esler Consort, Municipal Consort, Municipal Conton, Reyal Alexandra Edmonton, Reyal Alexandra Edmonton, University of Alberta Edmonton, St. John's	<ul> <li>\$ 8,266.82</li> <li>47,100.96</li> <li>10,488.00</li> <li>7,012.22</li> <li>3,258.89</li> <li>1,828.81</li> <li>1,828.81</li> <li>1,4405.00</li> <li>10,4353.05</li> <li>89,120.23</li> <li>10,4353.05</li> <li>89,120.23</li> <li>112,549.45</li> <li>4,957.47</li> <li>112,649.41</li> <li>2,557.47</li> <li>112,649.45</li> <li>4,957.47</li> <li>2,457.47</li> <li>2,457.47</li> <li>112,649.47</li> <li>2,650.95</li> <li>4,957.77</li> <li>2,4405.35</li> <li>4,957.77</li> <li>2,4405.35</li> <li>4,957.77</li> <li>2,4405.35</li> <li>4,957.77</li> <li>2,4405.35</li> <li>4,957.77</li> <li>2,4455.25</li> <li>3,055.25</li> <li>4,957.77</li> <li>3,056.35</li> <li>4,957.77</li> </ul>	<ul> <li>\$ 2.337.04 1.822.58 1.822.56 1.822.56 2.214.87 3.7119.77 3.7119.77 3.7119.77 3.7119.77 4.546.95 5.72.40</li> <li>5.72.40</li> <li>5.72.40</li> <li>5.72.40</li> <li>5.72.40</li> <li>5.72.40</li> <li>5.72.40</li> <li>5.72.40</li> <li>5.72.40</li> <li>5.73.95</li> <li>5.73.95</li> <li>5.73.95</li> <li>5.73.95</li> <li>5.74.96.32</li> <li>5.74.46.32</li> <li>5.74.46.32</li> <li>5.74.46.32</li> <li>5.74.46.32</li> <li>5.74.46.32</li> <li>5.74.96.32</li> <li>6.966.06</li> <li>1.560.74</li> <li>1.039.50</li> <li>3.7155.91</li> <li>1.006.97</li> <li>3.823.59</li> <li>1.006.97</li> <li>3.823.59</li> <li>1.006.97</li> <li>3.823.59</li> <li>1.006.97</li> <li>3.823.59</li> <li>1.006.97</li> <li>3.823.59</li> <li>1.006.97</li> <li>3.823.59</li> </ul>	\$ 10,603.86 6,978.66 5,2283.06 6,978.66 6,978.95 5,190.07 5,190.07 5,190.07 1,383.50 1,5000.00 9,079.67 1,45.37 1,45.37 1,45.37 1,45.37 28,481.30 7,586.87 7,673.37 1,45.39 28,481.30 7,586.87 1,45.39 28,487.36 6,654.47 1,880.00 1,980.00 3,3475.31 6,485.87 8,745.77 14,599.25 5,294.37 33,475.31 6,485.87 14,980.65 5,204.37 33,475.31 6,485.87 14,980.65 5,204.37 33,475.31 6,485.87 14,980.65 5,204.37 33,475.31 6,485.87 11,023.15 8,745.77 11,023.15 8,745.77 11,023.15 8,745.77 11,023.35 11,023.35 11	<ul> <li>\$ 1.059.06</li> <li>5.29.50</li> <li>5.29.50</li> <li>5.29.50</li> <li>5.29.50</li> <li>5.29.50</li> <li>5.241.72</li> <li>5.22.90</li> <li>5.22.90</li> <li>5.23.54.96</li> <li>1.207.35.00</li> <li>5.20.35</li> <li>5.21.344.96</li> <li>1.207.35</li> <li>5.21.344.96</li> <li>1.207.890</li> <li>1.207.890</li> <li>1.207.890</li> <li>1.207.890</li> <li>1.207.890</li> </ul>	<ul> <li>\$ 3.911.81</li> <li>\$ 3.911.81</li> <li>\$ 2.4.915.06</li> <li>\$ 2.51.62</li> <li>\$ 2.51.62</li> <li>\$ 3.911.01</li> <li>\$ 3.911.10</li> &lt;</ul>	м м	$\begin{array}{c} 4,970.87\\ 3,1661.90\\ 7,131.62\\ 5,103.56\\ 5,103.56\\ 5,103.56\\ 5,103.56\\ 5,103.56\\ 5,103.56\\ 3,989.36\\ 3,989.36\\ 5,5992.64\\ 1,105.162.45\\ 1,4,105.162.45\\ 1,4,105.162.45\\ 1,4,105.162.45\\ 1,4,105.162\\ 3,986.92\\ 1,4,105.17\\ 3,987.00\\ 1,0,227.52\\ 2,986.92\\ 1,10,0227.52\\ 3,981.13\\ 1,42.66\\ 1,17,356.66\\ 1,47,0356.60\\ 1,47,0356.60\\ 1,47,0356.60\\ 1,47,0356.60\\ 1,47,0356.60\\ 1,47,0356.60\\ 1,47,0356.60\\ 1,47,0356.60\\ 1,47,0356.60\\ 1,42.69\\ 3,332.90\\ 1,42.69\\ 3,332.90\\ 1,42.69\\ 1,4$
Ft. McMurray, St. Gabriel's Ft. Smith, General Fort Vermilion, St. Theresa Galahad, St. Joseph's	4,301.70	No Report 316.26 1,892.47	5,187.00 1,776.26 6,152.47	1,099.73	4,076.38 No Report 808.40 2.766.66		5,176.11 808.40 3,347.16
Grande Prairie, Municipal	17,067.82	5,478.58	22,546.40	2,479.18	7,424.48	-	9,903.66

TABLE No. 6a

3,197.35	3,888.77	9,458.19	FA 000 2	9 801 19	4 248.15	010 20	6 386 93	3.528.39	00 050 01	42 000 65	20 00Y 1	01-001/T	17:655'15	10:01111	01.010.0	LD 305 6	10:00019	26 AA1 94	LOUVELLION	3 831 93	0 500 01	0,006.01	0,120.05	20.100'e	12 007 0	10.009.0	7,600.00	0,304.23	00.051,0	0.000 41	11.000,5	7 0.01 40	31 137 C	2,909.42	9.626.37	7.005.62	7.870.76	2.872.01	6.199.45	10.931.39	6.082.30	8.542.89	2.352.60	5.527.96	5,857.49	4,289.63	7.256.37	7.954.00	eT-000%	\$1,312,628.84
1,797.45	2,604.97	8,176.62	00.000.01	0107 50	2 606 15	06 VLD 1	1 250 48	02.868.30	16 010 01	TO:012010	02 600 L	00.200'T	00.001,25	0.790.70	0,100-10	10210017	No Dancet	T 900 62	No Report		10.101.0	16.361.1	0,124.35	00.586.6	00.010.6	06.165,0	0.135.00	3,515.23	12'0TA'0	0 100 10	05.955.0	01-000-7	1 506 96	9.309.42	6.326.37	5.717.64	5.806.61	2.032.01	4.777.56	9.075.83	4.417.30	6.276.99	1.539.18	4,444.26	3,585.19	3,257.40	5,811.31	6,067.25	01:000'0	\$ 964.190.62
1.399.90	1.283.80	1.281.57	1,320-30	603 60	1 552 00	1 976.00	1 025 75	00.000	10 070 0	11126.00	DC.DCT.TT	07.116	00 7 200'S	36 102 0	00'TAC'7	01.166	no Ton'T	1 16 LY1 56	TOTTLOTOT	1 63 W	20,111	00.004,2	05.014	1,404.U3	2,650.78	00.010.1	2,500.00	1.486.00	1,2/8.00		00.160.2	00-860'T	0,000,00	00000	3.300.00	1.287.98	2.064.15	840.00	1.421.89	1.855.56	1.665.00	2.265.90	813.42	1.083.70	2.272.30	1,032.23	1.445.06	1.886.75	- 00'000'T	\$ 348,438.22
3,507.40	6,470.86	13,630.76	10.022,02	00 006 0	5 305 94	6 753 41	19 915 61	6 794 45	01 102 01	01-170'LI	00001111	1.935.10	11.110.10	20.007 E0	00.100.01	C. C20 CC	200	EA 774 01	TATE I TOO	3 824 33	00120010	20.102.6	00.000.11	0,020,00	20'177'S	10.205.11	11,130.25	0,383.00	26.106.11	191.00 191.00	00,100,12	05-066-6	10.027.75	7 076 20	13.937.28	13.580.61	14.691.82	5.674.50	6.624.81	19.574.47	8.908.15	7.922.75	3.959.52	10.377.22	8,153.11	8.267.56	14.316.52	17.078.56	1000001	\$2,142,602.61
3,602.79	1,446.36	3,462.26	10.469.9	00 263 1	010 50	1 26.4.41	106 0V2 6	1 0.04 45	C STREET	00.010.01F	OT'CIO'IT	13.30	76.003.32	01.0231.10	01.641.2	102.001.1	- 6	INO REPORT	No Benowt		000000	20.002.2	1.00.120.1	16.000.1	3,338.11	06.622.5	2.230.25	2,253.00	3,800.42	00.27	0.000.23	10.020.2	70'00'T	000 20	3 775.30	2.446.56	3.950.22	709.50	1.984.27	8.836.97	751.23	2.149.35	693.59	1.964.30	1,441.90	1,805.75	4.352.32	5,426.06	AT:00017	\$ 645.503.59
2,229.77	5.024.50	10.168.50	NO.411.61	10.542.01	1 67 926 V	A 220 000	0.100.00	201000	00.000.00	10.010.60	00.100,00	27.506.1	40.333.23	CJ-516'11	CE-000.1	26 226 V	17:007'5	97 000 05		9 591 90 1	00 220 0	1 10 01 20	07.241'R	4.339.81	10.808.01	8,683.21	8,900.00	6.729.95	8,167.50	120.00	CI.162.01	10.120.0	1,011.10U	10.1711.0	10 161 98	11.131.05	10.741.60	4.965.00	4.640.54	10.737.50	8.156.92	5.773.40	3.265.93	8.412.92	6,711.21	6,461.81	9.964.20	11.652.50	1 co.one.4	\$1.497.099.02
Grimshaw, Battle River Hanna, Municipal	Hardisty, St. Anne's	High Prairie, Providence	High Kiver, Municipal	Teler Musicinal	Tarnar Caton	Villam Canaval	Teambe and District Community.	Tacla Disha Ct Catharlan's	V AND A DICIP, ON CAMPLINE & CONTRACTION	Lamont, Public	Leinbridge, Vall	Lethbridge, Isolation	Lethbridge, St. Michael's	Lloydminster, United Municipal	Macleod, General	Mannville, Municipal	Magraun, Municipal	Marwayne, Nursing Home	Medicine fiat, General	Dan,	Mundare, General	McLennan, Sacred Heart		Nordegg, General	Olds, General	Peace River, Municipal	Pincher Creek, St. Vincent's	Provost, Municipal	Radway, St. Joseph's	Raymond, Municipal	Red Deer, Municipal	Rimbey, St. Paul's	Rocky Mountain House	Smoky Lake, George McDougall	C4 David C4 Thamasa	Ot. Fault, Ot. Lifercod	Tabar Municipal	Trachin Ct Marv's	Thurson Vallay, Olffalde Canaval	Uniter Valley, Utilicius General	Vegrevition Municipal	Wiking Municipal		Vulcan Municipal	Wainwright, Municipal	Wavne. General	Weetlock Immanilata	Wetaskiwin, Community	Willingdon, General	Total

	Housekeet	Housekeeping	Laundry	drv En	Engineer	& Janitor		T.Joht			
Hospitals	Wages	Supplies	Wages	Supplies	Wages		Fuel	Power	Ice and Water	Sundry	Total
Athabasca, Municipal	\$ 357.42 \$	132.80	\$ 1,062.34		\$ 1.198.53	\$ 25.90	\$ 1.780.76	\$ 805.92	266.28		5,796.57
Barrhead, St. Joseph's	948.00	498.75	16.022,2	200.96	1.100.00	172.07	1,052.61	464.15	70.00		4,506.54
Beaverlodge, Municipal	JO-ETC	106.93	372.83	48.10	651.24	126.80	1238	476.89		\$ 17.40	2,038.69
Bentley, Community Berwyn, R. A. P.	285.00	202.63	256.20	145.85	580.00	6.85	634.82	934.16			3,045.51
Bonnyville, K. H. P. Bonnyville, St. Louis	541.00 400.00	536.05	375.00	204.92	995.00	128.44	973.65	515.00			3,432.38
Brooks, Municipal Calgary, General	287.50	36.55	15.920.43	1.343.13	722.28	15.20	684.62 9.988.38	5,159.14	2.578.00		3.795.36 73,221.13
	11 400 05	458.38	617.28	24.00	01 600 70	1 993 60	812.30	363.11	~		2,512.24
	CO-065.11	1,374.12	2,546.40	263.65	4.390.80	00:000'T	812.30	808.08	5		10,195.35
Calgary, Salvation Army Grace Camrose, St. Marv's	3.440.01	398.96	630.50	130.81	900.00		1.586.98	792.50	1,133.05		9.745.79
Canmore, Canmore	00 00	61 10	031 20	122.45	1 150.00	75.00	309.57	302.15			839.17 5.625.37
Carmangay, Little Bow Municipal	42.00	ATTE	20.962	43.00	420.00		415.15	380.56	160.00		2,059.76
Castor, Our Lady of the Rosary	480.00		191.40	29.1.62			286.70	382.60			1.161.65
	761.89	684.86	1.127.27	451.84		88.00	695.56	714.13	371.31		5,519.86
Cold Lake, John Neil Coleman, Miners' Union		222.59	675.00	46.14	1.140.00		241.37	309.25	00.66		2.683.21
Consort, Municipal	460.00	10 03	1,298.32	78 75		16.79	411.537	220.10	258.28		2.171.88
Daysland, Providence	00.005	No Rep	ort		DOWET	No Repo	ort			No Report	
	300.00	32.32	205.00	103.00	325.00	11.10	288.50	331.89	273.75		2.347.11
Drumheller, Municipal	2,624.68	896.98	2,324.74	804.68	5,377.47		1,416.05	3,414.89	1,092.82		18.550.79
97	00.01	308.53	10.011		310.09			327.85	58.50		1.841.89
	31,870.70	3,053.74	9.664.56	2.381.68	13,804.87	60	99	2,831.00	3,463.68		73,653.93 62,071.09
	49.023.65	5.780.74	22,852.75		43,700.70	7.275.98	11	6,959.13	5,340.17		154.711.44
	5,532.12	4,051.29	16,768.84	1,510		909.75	19	5,103.28	3,882.40		81,296.87
	960.00	657.43	421.15 644.05	243.75	48.19	1.253.00	-	1.200.00	193.20	996.69	5,422.51 7,370.02
Empress Cottage		167.15	506.60	666		E AE	453.90	671.20	965 00		2,218.85
	1,240.08	No Day	1,087.85	160.51		152.99 No Par	1 taun	86.84		No Renor	4.945.56
Fort Vermilion, St. Theresa	The second se	day out			500.00	DAT DAT		15.00	15.00		799.
Galahad. St. Joseph's Grande Prairie, Municipal	360.00	296.00	360.00	238.66	2,175.10	110.69	2,891.49	1,727.68		11.50	8,235.36

TABLE No. 6b-GENERAL HOUSE AND PROPERTY

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$\begin{array}{c} 1.342.44\\ 7.950.10\\ 9.124.01\\ 9.124.01\\ 9.124.01\\ 9.124.01\\ 9.124.01\\ 9.124.01\\ 9.124.01\\ 9.0739.78\\ 9.0739.78\\ 9.0739.78\\ 9.0739.78\\ 9.0739.78\\ 9.0739.78\\ 9.0739.78\\ 9.0739.78\\ 9.0739.78\\ 9.232.710\\ 9.232.710\\ 9.232.710\\ 9.5338.13\\ 9.640.31\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.660.56\\ 9.6$	\$1,002,727.78
7.50 7.50 No Report 24.00 24.00 126.46 130.87 1.026.82	\$ 2,348.24
245.75 173.90 251.30 251.30 251.30 251.30 251.30 174.87 158.13 174.84 158.13 174.84 158.13 174.84 158.13 174.84 158.15 113.00 134.15 367.55 367.55 367.55 367.55 367.55 367.55 266.00 119.62 119.62 119.62 20.00 256.00 256.53 266.53 276.55 266	36.434.50
457.16 1.755.415 569.98 773.99 773.99 773.99 777.39 773.99 773.99 7773.90 7773.90 7773.90 7773.99 7773.70 7773.99 7773.99 7773.70 7773.99 7773.70 7773.99 7773.70 7774.70 7774.70 7774.70 7774.70 7774.70 7774.70 7774.70	\$96.578.03
300.00 1.251.26 1.449.23 1.449.23 1.449.23 1.449.23 1.449.23 245.63 245.63 245.63 246.16 3.358.29 1.249.98 1.249.98 1.249.98 227.28 227.28 233.58.29 1.249.98 233.58.29 1.249.98 233.58.29 1.240.00 1.240.30 1.241.13 539.21 1.249.22 559.21 1.498.07 1	23.386.18 \$148,284.17 \$96.578.03
4.75 4.75 71.95 32.06 40.80 252.02 370.73 529.65 65.80 No Rep 65.80 No Rep 65.80 No Rep 84.39 84.29 84.29 84.29 84.29 84.29 84.29 84.29 84.29 84.29 84.29 84.29 84.29 202.00 202.00 38.66 112.70 202.00 38.66 122.02 234.17 252.73 257.75 277.75	
300.00 1.325.25 2.222.08 1.320.00 750.00 360.00 6.860.06 5.734.16 1.691.65 6.784.16 1.691.65 6.784.16 1.691.65 6.784.16 1.691.65 602.00 918.08 3.030.00 918.08 3.030.00 1.765.82 1.765.82 1.765.82 1.765.82 1.765.82 1.765.82 1.765.82 1.200.00 1.222.36 1.200.00 1.222.36 1.200.00 1.228.95 2.338.10 900.00 1.228.95 1.200.00 1.200.00 1.200.00 1.228.95 1.200.00 1.200.00 1.200.00 1.228.95 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.0000000000	\$203.557.14 \$
404.09 30.00 623.14 477.16 772.37 49.20 61.60 89.70 89.70 628.20 1,413.10 907.64 997.64 997.64 997.64 997.64 997.64 1,413.10 907.64 1,413.10 907.64 1,413.10 907.64 1,413.10 1,413.55 1,45.55 1,40.05 1,119.45 1,115.45 1	
826.43 212.03 212.03 212.03 212.03 2539.99 175.00 1.442.15 539.99 175.00 2.860.75 2.750.00 2.860.75 2.750.00 782.40 1.037.58 at 0.955.65 1.037.58 at 0.955.65 1.037.58 at 0.960.00 640.00 640.00 914.50 1.067.00 8818.23 6600.00 965.00 955.50 9	6.615.80 \$155,117.36 \$34,712.34
39.53 749.67 159.04 159.04 159.04 237.40 50.97 116.32 1.355.15 7394.81 394.81 2394.81 2394.81 2402.42 1.355.09 722.82 1.355.09 126.00 135.69 22.13 786.38 175.69 177.80 135.69 177.80 135.69 175.69 175.69 221.33 236.38 175.69 17	5-
1.501.84 2.593.21 2.476.40 1.60.00 1.61.95 460.00 1.61.95 480.00 2.400.38 371.20 1.61.36 1.61.36 1.61.36 1.61.36 1.61.36 1.61.36 1.61.36 1.61.36 1.61.36 1.61.36 1.41.50 1.428.00 2.556.00 2.556.00 2.556.00 1.428.00 1.428.00 1.428.00 1.428.00 1.445.55 1.356.22 1.356.	\$225,694.02 \$
Grimshaw, Battle River Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innistali, Municipal Innistali, Municipal Jasper, Seton Killam, General Lacombe and District, Community Lac la Biche, St. Catherine's Lacombe and District, Community Lac la Biche, St. Catherine's Lethbridge, Galt Lethbridge, Galt Lethbridge, Galt Lethbridge, St. Michael's General Magrath, Municipal Marwayne, Nursiepal Marwayne, Nursiepal Marwayne, Nursiepal Marwayne, Nursiepal Marwayne, Nursiepal Marwayne, Nursiepal Marwayne, Nursiepal Marwayne, St. Pater General Dids, General Myrnam, Municipal Medicine Hat, Isolation Medicine Hat, Scolation Medicine Hat, Scolation Medicine Hat, Scolation Medicine Hat, Scolation Medicine Hat, Scolation Marwayne, Nursiepal Marwayne, Nursiepal Myrnam, Municipal Provost, Municipal Provost, Municipal Procet, Mu	Total

Total Running Cost	<ul> <li>\$ 26,374.28</li> <li>\$ 26,374.28</li> <li>\$ 25,356.63</li> <li>\$ 23,556.63</li> <li>\$ 23,556.63</li> <li>\$ 3,515.048.85</li> <li>\$ 3,515.048.85</li> <li>\$ 3,552.78</li> <li>\$ 9,135.78</li> <li>\$ 9,256.70</li> <li>\$ 23,786.99</li> <li>\$ 23,786.99</li> <li>\$ 23,786.99</li> <li>\$ 23,786.99</li> <li>\$ 23,786.99</li> <li>\$ 23,786.99</li> <li>\$ 33,182.51</li> <li>\$ 19,565.02</li> <li>\$ 33,182.51</li> <li>\$ 10,665.02</li> <li>\$ 9,166.82</li> <li>\$ 11,690.86</li> <li>\$ 66,820.81</li> <li>\$ 56,820.81</li> <li>\$ 56,8</li></ul>
Total Mainten- ance	<ul> <li>\$ 1,111.22</li> <li>\$ 7,949.15</li> <li>\$ 7,949.15</li> <li>\$ 7,949.15</li> <li>\$ 7,949.15</li> <li>\$ 7,949.15</li> <li>\$ 1,111.22</li> <li>\$ 1,58.92</li> <li>\$ 1,58.92</li> <li>\$ 1,58.92</li> <li>\$ 1,58.92</li> <li>\$ 1,58.92</li> <li>\$ 2,455.16</li> <li>\$ 4,256.87</li> <li>\$ 1,736.96</li> <li>\$ 4,256.87</li> <li>\$ 1,736.96</li> <li>\$ 4,256.87</li> <li>\$ 1,736.96</li> <li>\$ 3,331.53</li> <li>\$ 9,253.15</li> <li>\$ 9,253.15</li> <li>\$ 9,253.15</li> <li>\$ 9,253.15</li> <li>\$ 9,253.15</li> <li>\$ 9,253.15</li> <li>\$ 1,040.02</li> <li>\$ 1,051.02</li> <li>\$ 1,032.54</li> <li>\$ 1,032.56</li> <li>\$ 3,035.66</li> <li>\$ 3,045.06</li> </ul>
Sundries and Rents	<ul> <li>\$ 1,080.03</li> <li>\$ 274.50</li> <li>274.50</li> <li>20.05</li> <li>20.06</li> <li>1,210.31</li> <li>1,210.31</li> <li>36.820.47</li> <li>36.66</li> <li>36.66</li> <li>36.66</li> <li>376.67</li> <li>55.25</li> <li>36.66</li> <li>313.26</li> <li>55.25</li> <li>100.46</li> <li>50.00</li> <li>100.46</li> <li>50.00</li> <li>100.46</li> <li>50.00</li> <li>150.00</li> </ul>
Dry Goods	<ul> <li>\$ 244.89</li> <li>771.97</li> <li>771.97</li> <li>771.97</li> <li>771.97</li> <li>771.97</li> <li>7972.94</li> <li>77.972.94</li> <li>77.972.94</li> <li>77.972.94</li> <li>77.972.94</li> <li>7972.94</li> <li>10.065.93</li> <li>474.36</li> <li>101.60</li> <li>119.15</li> <li>101.60</li> <li>119.15</li> <li>110.160</li> <li>110</li></ul>
Furniture and Equipment	<ul> <li>\$ 691.01</li> <li>\$ 777.03</li> <li>\$ 4.777.03</li> <li>\$ 4.777.03</li> <li>\$ 2.675.87</li> <li>\$ 2.675.87</li> <li>\$ 2.98.17</li> <li>\$ 298.17</li> <li>\$ 298.17</li> <li>\$ 298.23</li> <li>\$ 1406.22</li> <li>\$ 120.03</li> <li>\$ 1406.22</li> <li>\$ 120.03</li> <li>\$ 120.03</li> <li>\$ 120.03</li> <li>\$ 120.03</li> <li>\$ 100.04</li> <li>\$ 100.04</li> <li>\$ 111.144</li> <li>\$ 11</li></ul>
Buildings and Grounds	<ul> <li>\$ 175.32</li> <li>\$ 2092.09</li> <li>1,378.30</li> <li>601.05</li> <li>282.71</li> <li>601.05</li> <li>288.25</li> <li>3,208.85</li> <li>3,208.85</li> <li>3,208.85</li> <li>3,208.85</li> <li>3,208.85</li> <li>3,209.00</li> <li>33,891.12</li> <li>1,736.96</li> <li>33,891.12</li> <li>1,736.96</li> <li>33,891.12</li> <li>1,738.09</li> <li>33,403</li> <li>340.80</li> <li>104.69</li> <li>199.00</li> <li>104.69</li> <li>141.5</li> <li>2,7185.42</li> <li>144.15</li> <li>15,74.91</li> <li>15,74.91</li> <li>15,34.54</li> <li>1,394.54</li> <li>1,394.54</li> </ul>
Hospitals	Afhabasca, Municipal Bartf, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Bervyn, R. A. P. Bervyn, R. A. P. Bernyvylle, K. H. P. Bernyville, K. H. P. Bonnyville, K. Luuis Bervyn, R. A. P. Bonnyville, K. Luuis Brooks, Municipal Calgary, Holy Cross Calgary, Holy Cross Calgary, Holy Cross Calgary, Salvation Army Grace Calgary, Salvation Army Grace Calgary, Salvation Army Grace Calgary, Salvation Army Grace Calgary, Municipal Calgary, Junior Red Cross Calgary, Mary's Cardston, Municipal Caresholm, Municipal Carnose, St. Mary's Cardston, Municipal Carnose, St. Mary's Cardston, Municipal Carnose, Municipal Carter, Our Lady of the Rosary Cereal, Ester Claresholm, Municipal Coronation, General Daysland, Providence Desarrais, St. Municipal Coronation, General Daysland, Providence Desarrais, St. Municipal Edmonton, Runicipal Edmonton, Rusericordia Edmonton, St. Joseph's Edmonton, St. Joseph's Edmonton, St. Joseph's Fr. McMurray, St. Municipal Edmonton, St. Joseph's Fr. McMurray, St. Gabriel's Fr. McMurray, St. Theresa

TABLE No. 6c-MAINTENANCE

88

9.407.24 14.104.07 14.104.07 14.104.07 14.104.07 14.945.39 14.945.39 14.945.39 14.945.39 14.945.39 14.945.39 14.945.39 14.945.39 14.945.39 13.012.35 15.659.93 15.659.93 15.659.93 15.659.36 20.994.70 13.713.89 15.656.46 20.994.70 15.656.46 22.745.01 15.656.46 22.745.01 15.656.46 22.745.01 15.656.46 22.745.65 22.745.	\$5,540,143.68
10 No.	\$ 517,400.64
240.73 1,206.68 212.72 212.72 189.70 340.58 340.58 20.30 2.059.63 365.87 365.87 365.87 365.87 365.87 365.39 838.87 65.39 838.87 65.39 838.87 65.39 8300 81000 81000 811.67 501.67 501.67 51.45 51.55 51.45 51.55 5	\$ 91.084.04
1,171,39 92,37 2,097,66 898,72 267,55 156,35 156,35 156,35 156,35 156,35 156,35 156,35 156,35 156,35 156,35 167,45 167,45 197,58 197	\$ 79,765.96
20	\$ 162,200.26
1,776.81 377.85 634.48 634.48 634.48 634.48 634.48 634.48 653.65 378.57 144.00 1163.97 566.65 276.66 716.66 501.82 501.82 501.82 501.82 501.82 501.82 501.82 501.82 501.82 501.82 501.82 501.82 501.99 989.61 302.12 1,021.60 666.51 137.40 560.59 560.59 560.59 560.59 560.59 560.59 560.59 560.59 560.59 560.59 560.59 560.59 560.59 560.50 560.59 560.50 570.50 560.	\$ 184.350.38
Grimshaw, Battle River Hardisty, St. Anne's Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal Jasper, Seton Sillam, General Leombe and District, Community Lee District, Community Lee District, Community Lee District, Community Lee District, Community Lee District, Community Lettibridge, Galt Lettibridge, St. Michael's General Mannville, Municipal Marwayne, Nurrsing Home Marwayne, Nurrsing Home Marwayne, Nurrsing Home Marwayne, Nurrsing Home Marwayne, Nurrsing Home Marwayne, Nursing Home Marwayne, Nursing Home Medicine Hat, Isolation Medicine Hat, Isolation Municipal Medicine Hat, Isolation Municipal Municipa	Total

	Gra	Grants		Donations.	Tax		
Hospitals	Alberta	Others	Patients' Fees	Cash and Service	Requisi- tions	Sundry Earnings	Total
Athabasca, Municipal Banff, Mineral Springs	\$ 3.244.50 8.611.20		\$ 10.229.87 80.517.07	\$ 24.25	\$ 12,905.72 65,053.07	\$ 313.73 7,794.95	\$ 26,693.8
Barrhead, St. Joseph's Bassano, Municipal	3,052.70 2,806.20		17.519.99 9.044.23	5,448.00	6,692.00	2.574.00 3.200.70	28,594.69 21,743.13
Beaverlodge, Municipal Bantlay Community	1,462.95		5,843.05	879.77	5,111.42	378.94	13,676.1
Berwyn, R.A.P.	1.618.65		9.229.77	906.34	4,425.00	189.75	16.369.5
	3.312.00	\$ 1,335.00	25,967.85	2,480.00		294.00	32,053.8
Brooks, Municipal	2,575.80		11,331.00		15,857.14	1,232.81	30,996.7
	5.022.00		1.778.00			00100110	6.800.0
Calgary, Holy Cross	44,927.55	3.200.00	391,861.25	5,373.40		7,298.81	452,661.0
Calgary, Salvation Army Grace	5,000.40	1.699.92	17.174.95	1.678.12		535.91	26.089.3
Camrose, St. Mary's	7,493.95		52,853.21	10.200.00			70,547.1
Cardston, Municipal	3.694.05	312.35	10.281.08		16 608 49	0 494 57	33 008 1
Carmangay, Little Bow Municipal	661.05		3,018.33		4.211.27	1,970.91	9.861.5
Castor, Our Lady of the Rosary	1.767.60	1.339.40	12,118.99	5,000.00		10 01 0	20.225.9
treat, Ester aresholm, Municipal	5.044.95		0.030.40	67-64	13.940.67	2.436.00	39.099.8
Cold Lake, John Neil	1.630.50	1,283.50	4,517.25	5.00		57.25	7.493.5
Coleman, Miners Union Consort, Municipal	2.015.10		6.207.80		5.744.85	10.265.20	12.996.30
Coronation. General	2,440.80		10.199.21	121.60		187.29	12,948.9
Daysland Providence Desmarais St Martin's	9 337 10		No Report			No Report	9 337 1
Didsbury, General	1,398.15		7.737.75		***********	327.85	9,463.7
Drumheller, Municipal	8,256.60		38.827.43	10 120 0	35,950.05	5.740.08	88.774.1
Eckville, Municipal Edmonton Reulah Rescue Home	3,692.85	9 465 00	5.003.11	10.100.2	10.365.00	1.144.38	16.382.5
	187,413.95		193,741.64	21,092.89	and a second sec	33,868.65	436,117.1
	8,020.35		244,877.58	25,000.00			277,897.9
Edmonton, Koyal Alexandra Edmonton, St. Josenh's	125.00		C6-565,050	10.045.00	91.206.6		10.282,610
	72,771.95	63,936.21	617,943.39			310.61	754,962.16
Edson, St. John's Filt Doint Municipal	3.042.45		20,450.50		10 01 75	0.00	23,492.5
	2.614.90		17.930.12	405.90	CI-112:21	07.000	20.950.92
	1.920.40		8.436.17	ACCOUNTS OF	6,000.00	1,095.00	17,451.57
Ft. McMurray, St. Gabriel's	1,162.80		No Report	5.631.87		No Benort	16,747.2
Vermilion, St. Theresa	848.70		2,859.55	1.300.00			5.008.2
Galahad, St. Joseph's Grande Prairie Municinal	2.227.05	9,118.83	27.363.29	4,980.00	05 769 50	3 644 79	17,811.09
Ceimehow Dattle Diver			AMINON'IN	and		WHILE AND	-K-ININA

TABLE No. 7-EARNINGS OR REVENUE

90

46.167.66 18.665.17 59.766.28 55.749.30 35.749.30 20.933.72 15.319.90 20.933.72 15.319.90 20.933.72 15.319.90 20.330.34 26.147.75 26.147.75 27.320.34 26.147.75 27.320.34 26.147.75 27.320.09 18.655.33 27.392.09 28.655.33 27.392.09 22.229.65 31.917.35 1.291.20 31.655.41 22.229.65 31.917.35 1.291.36 22.229.65 31.917.35 1.291.36 22.229.65 31.917.35 1.291.36 22.229.65 31.917.35 1.291.36 22.229.65 31.917.35 1.291.36 22.229.65 31.917.35 1.291.36 22.229.65 31.917.35 1.291.36 22.273.89 23.527.96 24.527.96 25.577.96 25.577.96 25.577.96 25.577.96 25.577.96 25.577.96 25.577.96 25.577.96 25.577.96 25.577.96 27.577.96 27.577.96 27.577.96 27.577.96 27.577.96 27.577.96 27.577.96 27.577.96 27.577.96 27.577.96 27.577.97 27.577.96 27.577.977.977.977.977.977.977.977.977.97	\$5,892,693.00
2.643.57 356.26 1.304.69 5.869.55 2.085.02 2.13.40 7.593.05 1.731.07 7.593.05 1.731.07 616.21 883.63 4948.29 4948.29 4948.29 4948.29 4948.29 4948.29 4948.29 4948.29 582.50 582.50 10.852.56 10.852.68 290.00 10.852.68 290.00 10.852.68 290.00 10.852.68 290.00 11.619.28 60.00 1.619.28 60.00 1.619.28 60.00 1.619.28 60.00 1.619.28 60.00 1.619.28 60.00 1.619.28 60.00 1.619.28 200.00 1.619.28 200.000 200.000 200.00000000	\$ 165,310.03
19.391.49 21.670.00 15.658.00 9.655.35 1.149.62 1.149.62 7.882.40 10.700.00 10.700.00 11.127.70 11.127.70 11.262.65 11.262.65 11.262.65 11.262.65 11.262.65 11.262.65 11.262.65 11.770.45 11.770.45 11.262.65 10.356.00 8.634.89 1.770.45 12.969.50 15.969.50 15.969.50 15.969.50 15.969.50 15.968.50 15.968.50 15.968.50 15.968.50 15.968.50 15.968.50 15.068 11.175.000 11.175.000 11.175.000 11.175.000 11.175.0000	\$ 482,968.83
3.752.29 10.696.35 5.588.17 5.588.17 5.913.96 10.740.00 604.35 25.00 11.940.00 11.940.00 11.940.00 11.88.17 5.151.59 11.88.17 5.151.59 11.88.17 5.151.59 10.00 9.000.00 6.950.00 2.890.27 5.891.47 4.387.00 1.815.00 1.835.00 1.815.00 1.835.00 1.815.00 1.815.00 1.835.00 1.815.00 1.835.00 1.835.00 1.835.00 1.835.00 1.835.00 1.835.00 1.00 1.835.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$ 271,915.90
16,934.85 12,743.12 238,031.66 238,031.65 238,031.65 238,031.65 3,4418.10 3,4418.10 3,4418.10 9,776.50 9,776.50 9,776.50 112,347.35 12,471.10 112,347.35 12,471.10 112,347.35 12,471.10 112,347.35 12,471.10 112,347.85 20,771.20 7,610.17 7,610.17 7,610.17 7,610.17 10,732.15 11,424.72 11,424.72 11,424.72 11,424.75 15,1424.65 11,424.72 11,424.75 11,	\$4,041.214.39
4,174.75 4,174.75 2,500.00 3,156.25 9,000.00 978.06 978.06 154.75 1,145.88 14,517.15 14,517.15	\$ 136,317.45
$\begin{array}{c} 7.197.75\\ 5.558.83\\ 5.558.83\\ 5.558.83\\ 5.558.83\\ 5.558.83\\ 5.558.83\\ 5.558.83\\ 5.558.83\\ 5.558.85\\ 1.219.05\\ 7.829.55\\ 1.219.05\\ 1.772.60\\ 2.438.75\\ 1.772.60\\ 2.576.70\\ 2.576.70\\ 2.576.70\\ 2.576.70\\ 2.389.05\\ 3.348.55\\ 3.348.55\\ 3.3477.05\\ 5.019.56\\ 1.0287.30\\ 2.389.05\\ 2.389.05\\ 2.389.05\\ 2.389.05\\ 2.389.05\\ 2.389.05\\ 2.389.05\\ 2.389.05\\ 10.399.55\\ 10.$	\$ 794,966.40
Hanna, Municipal Hardisty, St. Anne's High River, Municipal Innistali, Municipal Isay, Municipal Jasper, Seton Killam, General Laccombe and District Community Lactombe and District Community Lactubridge, Saton Lanont, Public Lethbridge, Isolation Lethbridge, Isolation Lethbridge, Isolation Marwayne, Nursing Home Marwayne, Nursing Home Marwayne, Nursing Home Marwayne, Nursing Home Marwayne, Nursing Home Marwayne, St. Michael's Lloydminster, United Municipal Marwayne, St. Paul's St. Michael's Lloydminster, St. Vincent's Medicine Hat, Isolation Marwayne, Nursing Home Medicine Hat, Isolation Medicine Hat, Isolation Marwayne, St. Paul's St. Paul's Raywond, Municipal Radway, St. Paul's Raywond, Municipal Radway, St. Paul's Raywond, Municipal Recky Mountan House St. Paul's Recky Mountan House Stettler, Municipal Recky Mounicipal Recky Mounicipal Recky Mounicipal Prochu, St. Municipal Vina, Municipal Vermilion, Municipal Vermilion, Municipal Vina, Municipal Vermilion, Municipal Vina, Municipal Vainwright, Municipal Wetaskiwin, Community	

	Mainten- Revenue per Patient	4.2     \$ 3.67       17.1     5.8       16.2     5.87       16.2     5.87       16.2     5.87       16.2     5.87       16.2     5.87       16.2     5.87       16.2     5.87       16.2     5.87       16.2     5.87       16.2     5.87       17.1     2.22       22.2     5.11       12.0     5.13       12.0     5.13       12.0     5.13       12.0     5.13       12.0     5.13       12.0     5.13       12.0     5.13       12.0     5.14       22.8     5.13       11.9     5.11       22.8     5.11       11.9     5.11       22.8     3.25       11.9     5.11       22.8     5.99       8.7     5.14       11.9     5.14       3.04     5.11       11.7     5.22       11.1     5.23       11.1     5.23       11.1     5.24       11.1     5.24       11.1     5.24       11.1     5.24       5.50     5.34 <tr< th=""></tr<>
ŧ	House and Property	22.0 23.2
Percentage of Cost	Kitchen and Dining Room	284 284 284 284 284 284 284 284 284 284
Per	Professional Care	40.2 41.4 41.4 41.4 41.4 41.4 41.4 41.4 33.2 33.2 34.4 33.2 34.4 33.2 34.4 34.6 34.6 34.6 34.6 34.6 36.5 36.6 36.6 36.6 36.6 36.6 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 36.6 37.9 37.9 37.9 37.9 37.9 37.9 37.9 37.9
	Adminis- tration	14.8 14.8
Operating Cost	Per Patient Per Day Exclusive of Capital and Reserve	<pre>\$ 3.81 4.65 5.45 5.60 5.60 5.60 5.60 5.60 5.60 5.60 5.6</pre>
	Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Barsano, Municipal Berverlodge, Municipal Benuey, Community Berwyn, R.A.P. Bonnyville, K.H.P. Bonnyville, K.H.P. Bonnyville, St. Louis Brooks, Municipal Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Municipal Carnonge, Little Bow Municipal Carnoton, Municipal Corronation, Municipal Corronation, Municipal Corronation, General Daysland, Incurables Daysland, Incurables Daysland, Providence Daysland, Incurables Daysland, Providence Daysland, Incurables Daysland, Providence Daysland, Providence Daysland, Providence Daysland, Reval Alexandra Edmonton, St. Jonesh's Edmonton, St. Theresa

TABLE No. 8

92

4.44 2.67																		7.97		3.22				4.14					4.12																						3.51	4.02
1.6																		7.7			3.6																														8.6	9.34
16.8																		20.3			17.6								18.5				20.5	22.9	18.4	20.5	19.1	19.3	16.3	18.2	22.6	1.8	20.02	12.0	0.11	18.0	1.01	13.1	20.02	10.0	18.6	18.09
20.2	22.2	27.6	22.6	25.5	22.5	19.4	28.4	21.4	20.4	21.9	25.2	31.4	25.5	26.1	31.4	35.6		21.7			27.8								26.2			and a second	18.9	21.8	44.8	13.1	8.11	26.4	21.4	25.6	20.02	01.0	1.22	1.07	000	10.0	23.0	0.02	0.00	0.02	26.3	23.69
46.0	35.6	45.8	32.6	41.4	44.1	43.6	35.5	45.1	39.0	41.8	24.9	34.9	25.4	38.5	. 39.8	41.2		42.3			38.8		28.3	17.4	61.4	42.5	35.8	38.3	38.1	36.9	37.6	12.3	45.0	30.3	20.5	47.8	43.3	38.1	41.5	47.7	2.16	6.04	40.0	01.6	0.4.0	21.0	44.1	0.00	0.46	02.0	40.1	38.67
9.8 9.9																		7.8			12.0		9.3	11.5	1910	2.5	17.3	9.1	2.6	10.6	6.9	75.2	9.3	15.6	5.8	13.6	9.5	8.4	15.7	4.5	2.5	3.1	0.0	777	10.0	24.0	0.0	0.11	1.1	2.0	629	10.19
3.56	3.95	3.49	3.48	3.19	3.22	3.96	5.69	3.52	3.43	2.86	4.23	3.50	3.75	4.18	2.95	6.14	1000	5.76		2.85	2.34		2.86	3.30	4.76		4.33	3.58	3.27	4.31	4.27	10000	2.58	3.36	3.13	7.90	2.00	2.93	10.	3.45	2.97	3.19	00.0	00.9	0000	0.31	07.6	0.00	0.00	01.6	2.20	\$ 3.78
Grande Prairie, Municipal Grimshaw, Battle River	Hanna. Municipal	Hardisty, St. Anne's	High Prairie, Providence	High River, Municipal	Innisfail, Municipal	Islay, Municipal	Jasper, Seton	Killam, General	Lacombe and District Community	Lac La Biche, St. Catharine's	Lamont, Public	Lethbridge, Galt	Lethbridge. Isolation	Lethbridge. St. Michael's General	Lloydminster, United Municipal	McLeod, General	McLeod, Incurables	Magrath, Municipal	Marwayne, Nursing Home	Mannville, Municipal	Medicine Hat, General	Medicine Hat, Isolation	Mundare, General	McLennan, Sacred Heart	Myrnam, Municipal	Nordegg, General	Olds, Municipal	Peace River, Municipal	Pincher Creek, St. Vincent's	Provost, Municipal		Raymond, Municipal	Red Deer, Municipal	Rimbey, St. Paul's	Rocky Mountain House	Smoky Lake, George McDougall	Spirit River, Holy Cross	St. Paul, St. Theresa	Stettler, Municipal	Taber, Municipal	Trochu, St. Mary's	Turner Valley, Ollfields General	Vegrevine, General	<b>.</b>	VIKING, MUNICIPAL	VIIIna, Our Lady S	Vulcan, Municipal	WallWright, Mulleipat	Wayne, Ueneral Washade Termanilata	Westlock, Aminaculata	Willingdon, General	Total

# DEPARTMENT OF PUBLIC HEALTH

	Total Deaths for Year excluding 5 Dirths	222 233 242 253 253 253 253 253 253 253 253 253 25	169
es	No. Living Births	128 989 989 989 985 985 955 137 131 132 139 97 139 97 139 97 139 97 139 97 139 97 139 97 139 97 139 97 139 97 137 137 137 137 137 137 137 137 137 13	3.822
Obstetrical Cases	bettimbA	133 107 107 107 1107 1107 1108 1108 1146 1146 1140 1140 1140 1140 1140 1140	4.077
	Non-Operative	71 6 71 18 18 73 255 255 27 27 27 27 9 9 9 67 67 67 23 30 0 53 9 17 66 7 17 66 7 7 17 8 8 8 8 8 8 8 8 8 8 8 7 7 7 7 7	834
	Medical Cases	453 2259 2259 2465 2465 247 7704 7704 7704 7704 7704 7704 7704	12,322
-	Total Surgical Operations	162 173 162 173 193 173 193 193 193 137 193 137 137 137 137 137 137 137 137 137 13	8.366
	W bras said Other 2 Aides and Other 2	048869986444916488486118894686666	296
	No. of Graduate including Superi dent	4001-00014000000044000004001000	202
	Bassinets	- 0000000-5400000004442000000004	240
vijoedi	Bed and Crib Ca	22224643352222228481535544628863322232	994
	Total Patient Da During the Year	$\begin{array}{c} 7.275\\ 6.626\\ 5.983\\ 5.983\\ 8.3920\\ 11.2397\\ 11.2397\\ 11.2397\\ 11.2397\\ 12.0837\\ 3.733\\ 12.0837\\ 3.733\\ 12.0837\\ 3.733\\ 5.9368\\ 15.325\\ 18.510\\ 10.266\\ 15.325\\ 3.9730\\ 5.944\\ 8.894\\ 8.$	254,317
bəttim	Total Patients Ad During the Year	9522 648 11,125 1,125 1,045 1,045 1,045 1,045 1,045 1,045 1,050 1,070 1,651 1,651 1,634 1,671 1,634 1,070 1,634 1,634 1,634 1,634 1,650 1,642 2,084 2,26847 2,26844 2,268444 2,268444 2,268444 2,268444444 2,26844444444444444444444444444444444444	29,226 254,317
	Revenue per Pati per Day Ex. of Capital &	\$ 3367 558 5599 5599 5599 5599 5599 5599 5599	\$ 4.13
	sonenstnisM	\$ 25152555555555555555555555555555555555	\$ .27
L.L.Y.	House and Prope	\$ 888888888888888888888888888888888888	\$ .67
Şui	Kitchen and Din Room	\$ 68 173 171 191 193 88 88 88 88 88 88 88 88 86 99 99 99 99 99 99 99 99 99 99 99 99 99	\$ .85
	Professional care	\$ 1.47 1.73 1.77 1.77 1.77 1.77 1.77 1.77 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65	\$ 1.55
	noitartainimbA	\$ 552 552 553 553 554 555 555 555 555 555 555 555	\$ 38
<b>Ə</b> AISNI	Operating Cost p Patient Day Exc of Capital and Rd	\$ 3.60 5.160	\$ 3.72
	Hospital	Athabasca Bassano Bassano Bassano Beaverlodge Brooks Cardston Cardston Consort Claresholm Consort Drumheller Eckville Eckville Ber Bronde Prairie Hanna High River Hanna High River Lioydminster Magrath Magrath Magrath Myrnam Olds Peace River Peace River Peace River Peace River Stettler Taber Vermilion Viking Vulcan	Totals and Averages

# MUNICIPAL HOSPITALS, 1944

# Division of Social Hygiene

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

Twenty-five years have elapsed since I wrote the first report of this Division, and perhaps this is the time to review very briefly the progress of venereal disease control in Alberta.

Prior to 1920 nothing whatever had been done in the way of controlling the venereal diseases. The Alberta Venereal Diseases' Prevention Act, which was passed by the Legislature in 1918, was brought into force in February, 1920.

It was decided at the outset not to take over complete control of venereal diseases on a provincial basis, but to work in co-operation with local authorities, and this has proved to have been a sound procedure. The general principle that each municipality is responsible for the control of its own infectious diseases has been maintained in spite of the fact that we have taken over more and more of the work from year to year, until now we are doing most of it.

We have developed our preventive branch on the basic truism that every venereally infected patient possesses information of incalculable value to the community. Every such patient acquired the infection from some other infected person, and our methods for finding and bringing under treatment and control that other person have become highly developed. So much so, that at the present time for every 100 infected persons reporting to clinics or physicians with venereal infections, 81 others are sought out and brought under treatment and control. These for the most part are unaware of their infection, and were it not for this activity of our staff would continue to be sources of infection. The disease would continue to ravage their bodies, bringing in the end, for many of them, physical disaster. A future untrammelled by an incapacitating venereal disease is now made possible for hundreds of persons in Alberta every year, many of whom otherwise would eventually become public charges.

The past quarter century has seen the elimination of the "red light" district, formerly a part of every large community, and the house of prostitution has gone, although it occasionally rears its head temporarily here and there. The co-operation of the Royal Canadian Mounted Police, its predecessor the Alberta Provincial Police, and local police have brought about this reform in the social life of our Province.

The treatment of venereal disease has undergone great advancement. During a study visit to Europe in 1922-24, your Director observed the introduction of malaria pyrexia therapy in the treatment of syphilis of the nervous system, and on his return introduced the method to Canada. It was, however, used routinely in Alberta for more than a year before its value was recognized elsewhere in Canada. For more than twenty years we have used this method for the treatment of asymptomatic as well as symptomatic neurosyphilis, and have thus restored to normal activity hundreds of persons who otherwise would have ended their days in a mental hospital.

The Provincial Clinics in Alberta were the first public clinics in the world to use the sulfonamides in the treatment of gonorrohoea. This was instituted on May 15th, 1937, the same date on which the discovery of its value was announced from Baltimore. A further advance in the treatment of gonorrhoea has resulted from the introduction of penicillin. It is interesting to note that although gonorrhoea is one of the oldest diseases known to man, all of the real advances in its treatment have been made during the past eight years.

We have, however, resisted using penicillin to the exclusion of the older remedies such as arsphenamine and bismuth in the treatment of syphilis on the ground that no method of treating this disease can be fully evaluated under a minimum period of five years. It is now apparent that penicillin alone is not proving as efficacious as was first thought. Many of the patients so treated and thought to have been cured are now relapsing.

During the year the work has continued on a somewhat increased tempo. Several conferences of those concerned with venereal disease control in the armed forces and the civilian population have been held—mostly of regional character. A Province wide conference was held in Calgary on July 5th, high-lighted by the presence of Mr. Eliot Ness, Director of the Social Protection Division of the Federal Social Security Agency of Washington, and Mr. Michael Morrissey, President of the International Association of Chiefs of Police.

The third Western Canada Conference on Venereal Disease Control was held at Regina in November, and was attended by representative members of the staff.

In conclusion, I wish to express my appreciation to the staff of the Division for their loyalty and for the zealousness of their work during the year. Again most of them have worked overtime almost every week throughout the year without any remuneration other than the feeling that they were doing their extra bit towards the work of the Division.

The following statistical report indicates briefly the work of the Division during the year:

ALLEGED CONTACTS AND SOURCES OF VENEREAL INFECTIONS For the period January 1st, 1944-December 31st, 1944

Location of Sources or Contacts	Number of Sources of Infection Reported	Number of Sources of Infection Located	Percentage of Sources of Infection Located
Edmonton Calgary Lethbridge Medicine Hat Rest of Province	388 290 41 16 267	319 230 23 11 230	82% 79% 56% 69% 86%
Alberta Totals	1.002	813	81%
Sources found to have moved to areas outside of Alberta	84	37	78%
Totals	1.086	850	78%

Unit Forwarding Information	Number of Sources of Infection Reported	Number of Sources of Infection Located	Sources of Infection Located Percentage
Army and R.C.N.V.R.	259	196	76%
R.C.A.F.	228	173	76%
U.S. Forces	118	98	83%
Private Doctors and Provincial Clinics	439	354	81%
Other Provinces (undesignated)	42	29	69%
Totals	1.086	850	78%
Inadequatee information on cases in Alberta		195	18%
Sources known to have moved to places			
outside of Alberta on whom no reports were received	++++		4%
	1,086	1,086	100%
		and the second se	the second se

#### DETAILS OF INFORMATION OBTAINED ON THE FACILITATION PROCESS

How informant met Contact or Source	Approx.	Where informant met Contact or Source	Approx.
Pick-ups Introduction Friend Marital Partner House of Prostitution Pimp No data available	12% 9% 4% 1%	Restaurant and Beer Parlor Dance Hall Street Friend Hotel Marital Partner Recreation, Private Party Train and Railway Station House of Prostitution No data available	$\begin{array}{c} 15\% \\ 17\% \\ 9\% \\ 4\% \\ 4\% \\ 2\% \\ 1\% \end{array}$

#### DETAILS OF INFORMATION OBTAINED ON THE CONTACT INVESTIGATION

Place of Exposure	Approx.
Rooming House	
Private House	22%
Hotel	1000
Outdoors	100 ALM
Train and Boat	1%
House of Prostitution	
Auto Camp	1%
No data available	19%

Contact	Approx.
Waitress	22%
Housewife	9%
Prostitute or Street-walker	9%
Domestic, Hotel and Hospital Maid	9%
Factory and Plant Worker	9%
Clerk, Salesman, Steno. and	
Teachers	9%
Dressmaker and Hairdresser	3%
Service Personnel	
Farmers and Trappers, Truck and	
Taxi Drivers	4%
Student	1%
Discharged C.W.A.C.	.2%
Messenger	.09%
Show Business	
House of Prostitution	1%
No data available	17%

Occupation of Source or

#### REPORT OF SOCIAL INVESTIGATORS, EDMONTON

A Number of sources and contacts investigated and located	319
	69
B.—Number of sources and contacts investigated but not located	03
	242
CNumber of delinquent patients contacted and returned to the clinic	69.6
	970
D.—Number of house calls, telephone calls and office interviews	210
	352
E.—Number of letters to delinquent patients	006

## REPORT OF SOCIAL INVESTIGATORS, CALGARY

A.—Number of sources and contacts investigated and located	230
BNumber of sources and contacts investigated but not located	60
C Number of delinquent patients contacted and returned to the clinic	111
DNumber of house calls, telephone calls and office interviews	964
E.—Number of letters to delinquent patients	188

#### PROVINCIAL CLINIC, EDMONTON-Provincial Building, 10048 101A Avenue Total number of new cases of venereal disease classified as to sex and age of patient.

	Under		1-4 yrs.		5-14 yrs.		15-19 yrs.		20 y & o					
	M.	yr. F.	M.		M.		M.	F.	M.		M.	and the second s	Totals	
Gonorrhoea (all forms)						2	17	74	148	144	1		386	
Syphilis (Congenital)		1				2	inthe .	1	1				5	
Acquited-Primary							1	2	6	7	1		17	
Acquired-Secondary							1	2		6			9	
Acquired-Latent		****	44.1.8	41034		1	2	4	51	28	2		88	
Acquired—Tertiary											1110	1	1	
(Cardiovascular)													2	
Acquired—Tertiary									3			1111	3	
(Neurosyphilis)				****					-					
Acquired—Tertiary(Other)									2		6114	****	2	
Type Undetermined								+++*	****				******	
						-						-		
Totals		1				5	21	83	211	185	4	1	511	
							-	-	-		and statements	And in case of the local division of the loc		

Number of cases of syphilis: Male 70, Female 55 Number of cases of gonorrhoea: Male 166, Female 220	125 386
Transet of choice of Branchistory	
	511

Number and results of Kahn and Wassermann tests: 1.819, of which 423 were positive. Number and results of Cerebrospinal Fluid tests: 71. of which 17 were positive. Number of results of Bacteriological tests for gonococci: 6.189, of which 708 were positive. Number of patient visits to clinic for gonorrhoea: Male 1.217, Female 3.551. 4.768 Number of patient visits to clinic for syphilis: Male 2.255, Female 2.082. 4.337

9,105

#### PROVINCIAL CLINIC, CALGARY-713 3rd Street East, Calgary

Total number of new cases of venereal disease classified as to sex and age of patient.

	Under 1 yr.		1-4 yrs.		5-14 yrs.		15-19 yrs.		20 yrs. & over		Age not stated			
	M.		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total	
onorrhoea (all forms)				1		2	3	44	130	136		****	316	
philis (Congenital)	-	1			and			in	1010	110			1	
cquired—Primary	****						1	1	11	5	****		18	
couired-Secondary			****					5	4	5			14	
cquired-Latent									8	9			17	
cquired—Tertiary														
(Cardiovascular)	an			****					1	1			2	
cquired-Tertiary														
(Neurosyphilis)					in a				10	1			11	
cquired—Tertiary(Other)		1-11			****		****		4				4	
vpe Undetermined								2	6	5			13	
	-			-			-							
Total		1		1		2	4	52	174	162			396	
	-				-		-							
Number of cases of syphi	lie .	Male	. 44	Fen	ale	36							80	
Number of cases of gonor	rhoe	a: M	lale	133.	Fem	ale 1	183						216	
framer of cases of genera														
													396	

Number and results of Kahn and Wassermann tests: 2.262, of which 775 were positive.
 Number and results of Cerebrospinal Fluid tests: 52, of which 17 were positive.
 Number of results of Bacteriological tests for gonococci: 4.080, of which 474 were positive.
 Number of patient visits to clinic for gonorrhoea: Male 865, Female 3.930 ... 4.795
 Number of patient visits to clinic for syphilis: Male 1.787, Female 1.853 ...... 3.640

# 8.435

#### PROVINCIAL CLINIC, MEDICINE HAT-Medicine Hat General Hospital, Medicine Hat

Total number of new cases of venereal disease classified as to sex and age of patient-

		Under 1 yr.		1-4 yrs.		5-14 yrs.		15-19 yrs.		rs. ver	Age not stated			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals	
Gonorrhoea (all forms) Syphilis (Congenital)	2			1	4		1	5	1	9			15 13	
Acquired—Primary Acquired—Secondary	****			****							****			
Acquired—Latent Acquired—Tertiary														
(Neurosyphilis) Acquired—Tertiary				****							****			
(Cardiovascular) Acquired—Tertiary(Other)		****				****	****		2	8	2	****	12	
Type Undetermined						_								
Totals	2				4	4		5	3	17	2		40	
Number of cases of syph Number of cases of gond	ilis: rrho	Male ea: 1	e 12, Male	Fen 1, F	nale 'emal	13 le 14	 F					·····t	25 15	
													40	

Number and results of Kahn and Wassermann tests: 200, of which 73 were positive. Number and results of Cerebrospinal Fluid tests: 4. of which none were positive. Number of results of Bacteriological tests forgonococci: 55, of which 9 were positive. Number of patient visits to clinic for gonorrhoea: Male 40, Female 98 138 Number of patient visits to clinic for syphilis: Male 171, Female 310 481

#### PROVINCIAL CLINIC, LETHBRIDGE-Galt Hospital, Lethbridge

Total number of new cases of venereal disease classified as to sex and age of patient.

	Under 1 yr.		1-4 yrs.		5-14 yrs.		15-19 yrs.		20 yrs. & over		Age not stated		
	M.		M.	F.	M.	F.	Μ.	F.	M.	F.	M.	F.	Total
Gonorrhoea (all forms)				1				1	5	2			9
yphilis (Congenital)													****
cquired—Primary													
cquired—Secondary									1	1			2
cquired—Latent	-					++++				2			2
Acquired—Tertiary													
(Cardiovascular)				-									
cquired—Tertiary													
(Neurosyphilis)									1	1			
cquired—Tertiary(Other)						1111			2	1			
Type Undetermined				****						1111	1		
	-	-		-	-		-						
Totals	****			1				1	9		1		1
	-	-	-	-	-	-	_	-				-	-
Number of cases of syphi	lis:	Male	5. F	ema	le 5								10
Number of cases of gonor	rrho	ea: 1	Male	5. F	'emal	e 4							9
													-
													19
													-
Number and results of Kahn													tive.
Number and results of Cere	bros	pinal	l Flu	id t	ests:	1, 0	f wh	ich 1	l was	pos	itive.		
Number and results of Bacte	riolo	gical	l test	s for	gon	ococ	ci: 8.	, of	which	h no	ne w	ere	positi
Number of patient visits	to cl	linic	for ;	gono	rrho	ea: I	Male	22.	Fema	ile 1	7		39
Number and results of Bacte Number of patient visits Number of patient visits	to cl	linic	for ;	gono	rrho	ea: I	Male	22,	Fema	le 1	7		

426

# COMBINED REPORTS OF CLINICS ON THE LESSER SLAVE LAKE—SMITH. CANYON CREEK AND KINUSO

Total number of new cases of venereal disease classified as to sex and age of patient.

	Under 1 yr.		1-4 yrs.		5-14 yrs.		15-19 yrs.		20 yrs. & over		Age not stated		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total
ionorrhoea (all forms)					1				6	6	1	1	15
yphilis (Congenital)													
cquired-Primary	·						1		1	2			4
cquired—Secondary								A.res	1	1	1000		2
cquired—Latent Acquired—Tertiary									1				1
(Cardiovascular)		****		****	101		****	••••	****				
(Neurosyphilis)						****							
cquired—Tertiary(Other)													
ype Undetermined			****						13	5			13
Totals					1		1		22	14	1	1	4
				-		-				_			-
Number of cases of syph	ilis:	Male	e 17.	Fen	nale	8							25
Number of cases of gond	orrho	ea:	Male	8,	Fem	ale 7							15
													40

Number and results of Kahn and Wassermann tests: 423, of which 56 were positive. Number and results of Cerebrospinal Fluid tests: None. Number and results of Bacteriological tests for gonococci: 54, of which 8 were positive. Number of patient visits to clinic for gonorrhoea: Male 93, Female 22 115 Number of patient visits to clinic for syphilis: Male 391, Female 578 969

1.084

#### HIGH PRAIRIE CLINIC-High Prairie, Alberta

	1000	Under 1 yr.		1-4 yrs.		14 s.	15-19 yrs.		20 yrs. & over		Age not stated		
	M.	F.	M.	F.	M.	F.	M.	F.	Μ.	F.	M.	F.	Totals
Gonorrhoea (all forms)						in	7	3	15	3			28
Syphilis (Congenital)									****				
Acquired-Primary											in .		
Acquired-Secondary					****		3	5				-	8
Acquired—Latent									1	1			2
Acquired—Tertiary							++++		****				
(Cardiovascular)		in a											
Acquired—Tertiary													
(Neurosyphilis)													
Acquired—Tertiary(Other)													
Type Undetermined													
and the second se	-		-					-					-
Totals							10	8	16	4			38
	-	-	-	-			-	-	-	-	and the second second	-	-

Number of cases of syphilis: Male 4, Female 6 Number of cases of gonorrhoea: Male 22, Female 6	10 28	
	38	

Number and results of Kahn and Wassermann tests: 307, of which 15 were positive. Number and results of Cerebrospinal Fluid tests: 3. of which 2 were positive. Number and results of Bacteriological tests for gonococci: 300, of which 75 were positive. Number of patient visits to clinic for gonorrhoea: Male 51, Female 27 79 Number of patient visits to clinic for syphilis: Male 147, Female 111 258 336

#### McLENNAN CLINIC-McLennan, Alberta

Total number of new cases of venereal disease classified as to sex and age of patient.

	Under 1-4 1 yr. yrs.		07000	5-14 yrs.		15-19 yrs.		rs. ver	Age not stated				
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)							1	2	15	6			24
Syphilis (Congenital)													
Acquired—Primary				****									
Acquired-Secondary	****										****		
Acquired—Latent Acquired—Tertiary	****		****	****				****		****	****		
(Cardiovascular) Acquired—Tertiary												1117	****
(Neurosyphilis)									4				4
Acquired—Tertiary(Other)								4124		****		****	
Type Undetermined	4.1.1.8		****	****		1.1.1		****					
Totals							1	2	19	6			28
Number of cases of syphi Number of cases of gonor													$\begin{array}{r} 4\\24\\-28\end{array}$
Number and results of Kahn Number and results of Cere Number and results of Bact Number of patient visits Number of patient visits	bros eriol to cl	pinal ogica inic	for p	id te sts fe gono	ests: or go rrhoe	47, 6 noce	of wl occi: Male	Nor 43.	17 w ne. Fema	vere le 20	posit	tive.	63 164

#### GROUARD CLINIC-Grouard, Alberta

			Under 1 yr.		4 s.			15- yr		20 yr & ov			not	
Syphilis (Congenital)       1       1       1         Acquired—Primary       3       4       7         Acquired—Secondary       3       4       7         Acquired—Latent       3       4       7         Acquired—Latent       3       4       7         Acquired—Latent       3       4       7         Acquired—Tertiary       (Cardiovascular)       3       4       3         Acquired—Tertiary       (Neurosyphilis)       3       4       8       3         Acquired—Tertiary (Other)       1       1       2       1       4       8         Totals       1       1       3       4       8       1       18         Number of cases of syphilis: Male 5, Female 11       16       2       2       2				M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Acquired—Primary       3       4       7         Acquired—Secondary       3       4       7         Acquired—Latent       3       4       7         Acquired—Tertiary       (Cardiovascular)       3       4       7         Acquired—Tertiary       (Cardiovascular)       3       4       3       4       3         Acquired—Tertiary       (Neurosyphilis)       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       3       4       8       3       <									1			1		2
Acquired—Secondary       Acquired—Latent         Acquired—Latent       Acquired—Tertiary         (Cardiovascular)       Acquired—Tertiary         Acquired—Tertiary       Acquired—Tertiary         (Neurosyphilis)       Acquired—Tertiary         Type Undetermined       1       2       1         Totals       1       1       3       4       8         Number of cases of syphilis: Male 5, Female 11       16       2	Syphilis (Congenital)						1						abab .	1
Acquired—Latent										. 3	4			7
Acquired—Tertiary         (Cardiovascular)         Acquired—Tertiary         (Neurosyphilis)         Acquired—Tertiary(Other)         Type Undetermined         I       1         I       1         I       1         I       3         I       1         I </td <td></td>														
Acquired—Tertiary (Neurosyphilis) Cype Undetermined	Acquired—Tertiary	****			****	****							****	
Acquired—Tertiary(Other)       1       2       1       4       8         Type Undetermined       1       1       3       4       8       1       18         Totals       1       1       3       4       8       1       18         Number of cases of syphilis: Male 5. Female 11       16       16       2	Acquired—Tertiary		****			****			····	••••				
Type Undetermined       1       2       1       4       8         Totals       1       1       3       4       8       1       18         Number of cases of syphilis: Male 5, Female 11       16       16       2	(Neurosyphilis)													+++++
Totals       1       1       3       4       8       1       18         Number of cases of syphilis: Male 5, Female 11       16       16       2         Number of cases of gonorrhoea: Male 1, Female 1       2       2	Courred-Ternary(Other)	41.91								ana.			****	
Totals       1       1       3       4       8       1       18         Number of cases of syphilis: Male 5, Female 11       16       16       2         Number of cases of gonorrhoea: Male 1, Female 1       2       2	ype Undetermined				+ 1 > 2	-		1	2	1	4			8
Number of cases of gonorrhoea: Male 1, Female 1 2	Totals						1	1	3	4	8	1		
	Number of cases of syphi Number of cases of gonor	ilis: rho	Malea: M	e 5, 1 Male	Fema 1. Fe	ale 11 emale	e 1							16
18														
														18

Number of results of Bacteriological tests for gonococci: 9. of which 2 were positive. Number of patient visits to clinic for gonorrhoea: Male 6. Female 4 Number of patient visits to clinic for syphilis: Male 172. Female 395 56

10 567

577

#### PROVINCIAL GAOL-Fort Saskatchewan, Alberta

Total number of new cases of venereal disease classified as to sex and age of patient.

	Under 1 yr.		1-4 yrs.		5-14 yrs.		15-19 yrs.		20 yrs. & over		Age not stated		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	М.	F.	Total
Gonorrhoea (all forms)								19	6	78			103
Syphilis (Congenital)									1	3			- 4
cquired—Primary								1		3			4
cquired—Secondary							1		1	5			7
Acquired—Latent Acquired—Tertiary								1	13	19		****	33
(Cardiovascular) Acquired—Tertiary		****	****	-para		****	****				****	****	
(Neurosyphilis)											41.11		
Acquired—Tertiary(Other)				****					1				1
Totals							1	21	22	108			152
Number of cases of syph Number of cases of gono													103
													152
Total number of prisoner	0 00	omir	·bac	Mal	6.49	Fo	male	191					834

Number and results of Kahn and Wassermann tests: 832, of which 120 were positive. Number and results of Cerebrospinal Fluid tests: 4, of which 1 was positive. Number and results of Bacteriological tests for gonococci: 4.751, of which 486 were positive. Number of patient visits to clinic for gonorrhoea: Male 67, Female 940 1,007 Number of patient visits to clinic for syphilis: Male 306, Female 467 773

1,780

PROVINCIAL GAOL-Lethbridge, Alberta

Total number of new cases of venereal disease classified as to sex and age of patient.

	1	der yr.	1- yr	s.	5- yr	s.	15- yr	s.	20 y & ov	ver	sta	not	
	M.	F.	M.	F.	M.	F.	M.	F.		F.	M.	F.	Total
onorrhoea (all forms)							1		5				6
yphilis (Congenital)				****									
cquired—Primary					****				1				1
cquired-Secondary									2				22
cquired—Latent									3				-
cquired—Tertiary													
(Cardiovascular)									****				
cquired—Tertiary													
(Neurosyphilis)				-									
cquired—Tertiary(Other)									7				
ype Undetermined									2	****			:
		-	-	-	-	-		-	-				-
Totals							1		20				2
			-		_		-	-	-				-
Number of cases of syphi Number of cases of gono	ilis: rrho	Male ea: 1	Male	******				*******					15
													21
Total number of prisoner	rs ex	amir	ned										616
lumber and results of Kahr	a and	i Wa	ssern	nanr	test	s: 54	50 of	wh	ich 3	9 we	re no	ositiv	re -
tuninger and repairs or reall	toc	linic	for	gond	rrho	69 '	Male		ien o	5 m	re p	10111	117
Number of patient visits													
Number of patient visits Number of patient visits	toe	linic	for	syph	ilis:	Mal	0						152
Number of patient visits Number of patient visits	to c	linic	for	syph	ilis:	Mal	e						152

#### PRIVATE PHYSICIANS REPORTING CASES

Total number of new cases of venereal disease classified as to sex and age of patient.

•	Un 1	der yr.	1- yr	· · · ·	5- yr		15- yr		20 y & o			e not ited	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)	1			5		11	2	15	100	55			189
Syphilis (Congenital)					1	2		1	1	2			7
Acquired—Primary								1	17	12			30
Acquired—Secondary				-					10	8			18
Acquired—Latent	****			1010		i		1	9	3			13
Acquired—Tertiary													
(Cardiovascular)	1000		****						3	2			5
Acquired—Tertiary													
(Neurosyphilis)		****	****						14	4			18
Acquired—Tertiary(Other)				****			****		18	9		Ser.	27
Type Undetermined				****				2	22	22			46
			-										
Totals	1			5	1	13	2	20	194	117		1000	353
		and the second second	- Annotation	and the second s	and the second s	Common State	-	-	and the second s	-	-		-

#### DEPARTMENT OF PUBLIC HEALTH

Number of cases of syphi Number of cases of gonor	lis: Male 95, Fer boea: Male 103,	nale 69 Female 86			
					353
Number of Doctors in the Number of doses of arseni Number of doses of bismut	cals distributed t	o Private Ph	vsicians		165 9.831 11.495
	RECAPITU	LATION			
NEW PATIENTS ADMIT	TED TO THE VOR SOCIAL HLC	ARIOUS CL GIENE IN 19	INICS OF 44	THE DIVIS	SION
Sex		Syphilis	Gono	rrhoea	Totals
Males Females		193 166		364 540	557 706
Totals		359	1	004	1,263
Total number of patient vis	its to our clinics		•		22.858
CASES REPORTEI					matala
Syphilis	vate Physicians 164	M.D. No. 13 27	R.C.A.F. 18	U.S. Army 5	Totals 214
Gonorrhoea	. 189	207	184	38	618
Totals	353	234	202	43	832
Total number of cases of s Total number of cases of g					573
Total number of cases of B	anormout report	cu in mocra			2.095
Total number of new cases personnel Total number of new cases					523
	or gonormoea 1				1 000
					1,616
					and the second

# Sanitary Engineering Division

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

Another year of war has again resulted in sanitary conditions throughout the Province slipping backwards. Shortage of manpower has been the chief reason. The movement of people from the farms to the towns and cities has resulted in strained housing conditions, and many persons in the Province are living under housing conditions that should not be tolerated were it not for the fact that no immediate solution to the problem is possible. Restaurant sanitation has suffered due to the inability of hiring trained personnel. Garbage collection in the towns has become increasingly difficult due to the shortage of garbage containers and because it has been found particularly difficult to obtain men to provide the necessary service.

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 dairymen, formerly producing milk for table use, to give up their business and to ship directly to processing factories. Veterinary inspectors are still not available in sufficient numbers to properly test cattle, both for tuberculosis and contagious abortion.

During the spring of 1944, Alberta experienced its worst outbreak of typhoid fever, traceable to infected cheddar cheese. The Division lent considerable assistance in removing suspected cheese from the market and in investigating the outbreak. Legislation subsequently passed should have the effect of reducing further cheese-borne typhoid.

As was the case in 1943, very little municipal waterworks or sewerage construction was carried out, although considerable work was undertaken by the different military organizations. One piece of sewerage construction carried out in the village of Lamont marks a departure from standard practice, in that sewerage was supplied on a considerable number of streets and lanes not presently served by a municipal waterworks system. The sewer grades are relatively flat, and it remains to be seen if sufficient sewage will be available for flushing purposes. This scheme, incidentally, was financed on the "sewer service" charge basis, the second municipality in the Province to take advantage of 1944 legislation covering same.

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

- 1. U.S. War Department, Certificate No. 473-44. Sewerage and Sewage
- Disposal at Namao Airport, Edmonton. U.S. War Department, Certificate No. 469-44. Wateworks Construction 2. U.S.
- at Namao Airport, Edmonton.
   City of Calgary, Certificate No. 470-44. Water and Sewer Extensions. Estimated cost, \$20,000.00.
- 4. Town of Grande Prairie, Certificate No. 471-44. Waterworks Construction. Estimated cost, \$4,313.27.
- 5. City of Lethbridge, Certificate No. 472-44. Sewage Disposal Plant. Estimated cost, \$92,000.00.
- 6. City of Calgary, Certificate No. 474-44. Sewerage and Waterworks Construction. Estimated cost, \$20,150.25. City of Edmonton, Certificate No. 475-44. Sewerage Construction.
- Estimated cost, \$9,535.00.

- 8. City of Lethbridge, Certificate No. 476-44. Sewerage Construction. Estimated cost, \$500.00.
- 9. Raymond Municipal Hospital District, Certificate No. 477-44. New Hospital Building. Estimated cost, \$34,000.00. 10. Village of Cowley, Certificate No. 478-44. Waterworks replacements.
- Estimated cost, \$5,000.00.
- 11. United Church of Canada, Certificate No. 479-44. Sewerage Construction. Estimated cost, \$2,700.00. 12. City of Calgary, Certificate No. 480-44. Sewerage Construction. Esti-
- mated cost, \$2,140.00.
- 13. City of Calgary, Certificate No. 480-44. Sewerage Construction. Estimated cost, \$4,957.00.
- 14. Village of Lamont, Certificate No. 482-44. Sewerage Construction. Estimated cost, \$10,000.00.
- 15. Innisfail Municipal Hospital District, Certificate No. 483-44. Proposed Nurses' Home. Estimated cost, \$12,000.00. 16. Department of Transport, Certificate No. 484-44. Sewerage and water-
- works at Namao Airport, Edmonton.
- 17. City of Calgary, Certificate No. 485-44. Sewerage Construction. Estimated cost, \$1,600.00.

Continuing its policy of trying to obtain one or more water samples from public waterworks systems for bacteriological examination, the following results were obtained:

	Chlorinated	Positive	Negative
Municipality and Source of Supply		(confirmed)	
Athabasca—Athabasca River	Yes	1	11
Bassano-Bow River	Yes .		1
Blairmore-York Creek and Oldman River.	No	2	3
Brooks-Irrigation Water	Yes		1
Calgary-Elbow River	Yes		2
Camrose-Stoney Creek and Wells	Yes		23
Cardston-Lees Creek	No	8	mo
	At times	1.1.1.1	0
Claresholm—Willow Creek	Yes		15
Coleman—Nez Percee Creek			15
	No	1	Ð
Coronation—Wells	No	****	1
Drumheller—Wells	No		4
Edmonton-N. Saskatchewan River	Yes		14
EdsonWells	No		4
Grande Prairie-Wells	No		1
Hanna	No		ī
High River—Wells	No		8
Lacombe—Wells	No		8
Lethbridge	Yes		0 7
Macleod—Oldman River	Yes		or
Magreth Walls		****	25
Magrath—Wells	No		5
Medicine Hat—S. Saskatchewan River	Yes	3	24
Redcliff—S. Saskatchewan River	Yes		13
Red Deer-Red Deer River	Yes		4
Taber—Oldman River	Yes		4
Turner Valley-Highwood River	Yes	1	24
Wetaskiwin-Wells	Yes		27

During the year the reports of 2,542 water tests were received from the Provincial Laboratory, 1,817 being bacteriological and 725 chemical. The reports on 25 ice and 103 milk samples were likewise received. In the cose 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 53 complaints from different points in the Province along with other routine inspections, inspected 60 industrial camps, and disinfested 7 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 were as follows: Water closets 4,696, lavatory basins 4,090, laundry tubs 297, baths and showers, 2,855, sinks 3,319, special fixtures 995, septic tanks installed 189. As a result of the above plumbing installations, 342 outside closets were eliminated.

The staff of the Division remained the same as in 1943, viz., the director, one sanitary inspector, one plumbing inspector, and one stenographer.

# Dental Health Services

Dental services were provided for patients in Provincial institutions, including 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. Great difficulty was experienced in obtaining the dentists required to maintain this service. A report of the work done may be found in the Annual Report of these institutions.

Owing to the impossibility of securing the necessary professional personnel, the Travelling Clinic was not sent out in 1944. For this reason there is no report in so far as dental service in connection with the Travelling Clinic is concerned.

A series of radio talks on dental health was given over CKUA by Dr. H. A. Gilchrist of the University of Alberta.

The dental service inaugurated by the Lamont Health Unit was carried on along the same general lines as in the previous year. This service has been exceptionally well received by the residents of the Health Unit.

# Cancer Services

# (E. L. POPE, M.D., Director, Cancer Diagnostic Clinic)

I have the honour to submit the annual report of the Cancer Diagnostic Clinics for the year 1944.

Number of patients examined:

Edmonton	New 1,099 627	Follow-up 875 291	Total 1,974 918	
Totals	1,726	1,166	2,892	

It will be noted that the total number of new cases is 1,726, compared with 1,670 in 1943, 1,186 in 1942, and 1,142 in 1941.

Of these new cases, 758 were found to be non-malignant and therefore did not require treatment under the Cancer Clinic.

A summary of the anatomical distributin of the cancerous lesions in order of frequency is attached herewith.

The total number of surgical operations authorized in 1944 was as follows:

Edmonton Calgary	539 240
Cangary	
	779

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

Edmonton Calgary	169
The total number of cases referred by the Clinics	for X-ray
therapy:	
Edmonton Calgary	900
	666
Number of cases referred for X-ray examinations:	
Edmonton	308
Calgary	170
	478

The total number of miscellaneous examinations and treatments authorized by the Edmonton Cancer Clinic was 162.

The 1	total nu	mber	of cases	referre	ed to hos	spitals:	
Edmor	nton						223
Calgar	y						17
							240
							240
100				20 10	1000		-

Since the opening of the clinics in 1941, the total number of cases examined, exclusive of re-examinations, is 5,724. Of these, 2,962 were diagnosed as cancer, or 51.74%.

# 1944 ANATOMICAL DISTRIBUTION OF CANCEROUS LESIONS IN ORDER OF FREQUENCY

EDMONTON		CALGARY	
EDMONTON Skin	$\begin{array}{c c}122\\65\\61\\50\\39\\22\\22\\21\\17\\10\\9\\7\\6\\3\\555\\ \hline\end{array}$	Breast Skin Mouth and Lip Stomach Cervix Colon Uterus Prostate Hodgkin's Bladder Chest Rectum' Lepkemia Parotid Abdomen Thyroid Bone Kidney Ovary Pancreas Bowel Esophagus Produ	$\begin{array}{c} 93\\ 72\\ 539\\ 75\\ 18\\ 2\\ 7\\ 6\\ 6\\ 6\\ 5\\ 5\\ 4\\ 4\\ 3\\ 3\\ 3\\ 2\\ 2\\ 2\end{array}$
		Penis Arm Back Finger Nose Testicle	2 1 1 1 1 1

# CANCER DEATHS, 1944

Total

	Rural	Edmonton	Calgary	Small Cities	Indians
Cancer of the buccal cavity and pharynx	7	7	6	2	
Cancer of the Digestive Organs and Peritoneum		84	84	45	
Cancer of the Respiratory System	15	22	14	2	1
Cancer of the Uterus		20	16	215 3	
Cancer of other Female Genital Organs		5	5		
Cancer of the Breast		19	15	8	
Cancer of the Male Genital Organs		10	10	3	
Cancer of the Urinary Organs (Male and	1			-	
Female)		17	9	7	4 + 4 +
Cancer of the Skin (except Vulva and Scrotum)	. 7	2	2	1	
Cancer of the Brain and other parts of the Central Nervous System (including	2				
Glioma, except when specified as benign		11	3	1	
Cancer of other and unspecified organs	. 23	24	14	2	
culture of other states of the					-
Totals	. 290	221	178	79	1
Rate per 100,000	. 53	200	188	230	6?
Total number of deaths in the P	rovince	of Alberta	for 1944		769

# Mental Health Division

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

Separate reports are submitted for each branch of the 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 has shown an increase of slightly more than 1%. On January 1st there were in all institutions, 1,887 males and 1,122 females, a total of 3,009 patients. At the close of the year there were 1,920 males and 1,139 females, a total of 3,059 patients, an increas of 50 for the year.

For the past two years there has been a slightly lower percentage increase in the population of our mental institutions, which for many years ranged from 3% to 8% increase per year.

The admission rate to the Provincial Mental Institutions was approximately that of 1943. The discharge rate remained relatively high. Admissions of patients to the Provincial Mental Hospital, Ponoka, numbered 587; there were 410 discharges, 93 transfers to other institutions, and 99 deaths. The net result was a slight reduction in the population in the Provincial Mental Hospital, Ponoka, during the year. Throughout the year, about 25 male patients were transferred to the Provincial Mental Institute, while about 68 female patients were transferred to the latter institution and also to Claresholm and Raymond Auxiliary Mental Hospitals. Although provision was made for the construction of a ward for the accommodation of more defectives at Red Deer, the building was not completed, the accommodation for mental defectives remaining the same as before.

It is still considered advisable that provision be made for Psychiatric Wards in Calgary and Edmonton at least.

Radio talks on Mental Health subjects were given over CKUA by membrs of the staffs of the institutions during the year. A number of lectures and talks on Mental Hygiene and allied subjects were also given in various points throughout the Province. The medical students at the University of Alberta received their course of lectures and clinics in Psychiatry as in previous years.

The shortage of staff in all the mental institutions was very acute during the year, creating many administrative problems. The Superintendents of the various institutions, and other members of the administrative staffs, are deserving of high praise for the efficient manner in which they carried on the work under such handicaps.

During the year 1944, five meetings of the Eugenics Board were held at the Provincial Mental Hospital, Ponoka, and one meeting

was held at the Provincial Training School for Mental Defectives, Red Deer. A total of 131 cases were presented to the Eugenics Board, making a total number of cases presented to the Board to date of 2,066. During 144, 13 male cases and 27 female cases were sterilized. The total number of cases operated on to December 31st, 1944, was 957; 381 males and 576 females. All operations were performed in the operating room of the Provincial Mental Hospital, Ponoka, by the honourary surgeons, assisted by the medical staff of the Hospital.

Mental Hygiene and Guidanc Clinics were held regularly in Calgary and Edmonton, and periodically at Red Deer and Lamont. Many clinic cases were also seen in consultation at the Provincial Mental Hospital, Ponoka. Certain changes took place in the clinic staffs, and there continued to be a shortage of trained workers for appointments.

#### TABULATED SUMMARY

INSTITUTIONS-MOVEMENT OF PATIENTS

		n Boo		Admissions, 1944			Discharges, 1944			Deaths, 1944			On Books, Dec. 31, 1944		
	M.	F.	Т.	M.	F.	T.	М.	F.	T.	M.	F.	Т.	M.	F.	T.
The second	30	9	39*								36		42 846	$14 \\ 604$	56* 1450
Ponoka Oliver	829 882	653 115	1482 997	331 62	256	139	239 30	264 7	503 37	63 24	4	99 28	890	181	1071
Rd Deer		130	276	14	7	21	16	5	21	2	1	3	142	131	273
Claresholm		100	100		11	11		6 2	6 2		6	6		100 109	100 109
Raymond		115	115		-										-
Totals	1887	1122	3009	407	353	760	285	284	569	89	52	141	1920	1139	3059

\*On leave.

# ADMISSIONS-BROAD DIAGNOSIS

	Psychotic				Von	otic		lenta lecti			Tota	1
	M.	F.	T.	M.	F.	T.	M.	F.	Т.	M.	F.	Т.
Ponoka	251	205	456	74	46	120	6	5	11	331	256	
Oliver	48	58	106	12	13	25	11	65	8	62	77	139 16
Red Deer		10	10		****		**		16	11	10	
Claresholm Raymond	****	2	2								2	
Raymond		_		-	-			-				
Totals	299	275	574	86	59	145	19	16	35	404	350	754

#### CLINIC SUMMARY

1943

1944

Place	No. of Clinics	New Cases	Follow-ups and Interviews	Case Load Total	Total New Cases Since 1929	No. of Clinics	New Cases	Follow-ups and Interviews	Case Load Total	Total New Cases Since 1929
Edmonton	34*	86	363	449	1.456	37	135	457	592	1,591
Calgary	18	86	634	720	1.356	15	71	490	561	1,427
Lethbridge			****		627					627
Medicine Hat.					545		1111			545
Drumheller	Card .				127		****			127
High River			****		88		#10.07		1111	88
Lamont	3	12	6	18	131	2	8	6	14	139
The J Theory	4	13	7	20	104	4	20	11	31	124
Other Clinics.	5	15	3	18	539	9	33	8	41	572
Totals	64	212	1,013	1,225	4,973	67	267	972	1,239	5,240

\*Half-day Clinics |others are full-day Clinics).

# **Eugenics Board**

# (J. M. MACEACHRAN, M.A., Ph.D., Chairman)

Six meetings of the Eugenics Board were held during 1944-45 at the Provincial Mental Hospital Ponoka, and one at the Provincial Training School for Mental Defectives, Red Deer, on the following dates: January 20, 1944; March 23, 1944; June, 15, 1944; September 9, 1944; November 30, 1944; December 1, 1944 (at the Provincial Training School.

#### Presentations.

There were 58 male cases and 73 female cases presented to the Board, making a total of 131 cases during 1944, which is practically the same number as last year. Of these, 129 cases were passed, two male cases being deferred. In addition, one male case was represented under Section 6 of the 1937 Amendment to the Sexual Sterilization Act.

Of the new cases presented this year, 24 were Guidance Clinic cases—five male and 19 female cases.

Up to the end of 1944, 2,066 cases have been presented to the Eugenics Board; 2,049 cases have been passed and 17 deferred.

#### METHODS OF DEALING WITH NEW CASES

# MALE

area a solar	
*Passed clear for vasectomy Passed for vasectomy, consent required Passed for vasectomy, consent of patient and parent needed	17 28 9
Passed clear for orchidectomy Deferred	9 2 2
Total	58
FEMALE	
Passed clear for salpingectomy	21 33
Passed for salpingectomy, consent required Passed for salpingectomy with consent of patient and parent Passed clear for oophorectomy	10
Passed clear with special instructions	4 5
Total	73
Total male and female cases	131

\*Passed clear: Consent not necessary (usual) or consent previously given in writing.

## Operations.

During the year 13 operations were performed on males and 27 on females, making a total of 40 operations. Of these, 38 were cases passed during the current year, and two (one vasectomy and one salpingectomy) were previously passed. In the cases of four women and two men, the more serious operation removing the glands was done at the Board's direction.

#### ANALYSIS OF OPERATIONS PERFORMED DURING 1944

Vasectomy (all were passed clear, one previous to 1944) Orchidectomy (all were passed clear)	11
Salpingectomy (18 were passed clear, one previous to 1944; 3 were passed subject to consent; 1 was passed subject to consent of patient and one parent)	22
Oophorectomy (all were passed clear) Special (passed clear)	4
Total	40

Last year, 60 operations were performed. The drop in the number of operations is due to a multiplicity of causes. Six cases passed in 1944 were operated early in the New Year, but could not be included in the 1944 statistics. The number of operations is also directly related to the ability of the physicians at the Provincial Mental Hospital to arrange a suitable time for such operations. With the present limited medical staff, such seemingly minor factors as temporary illness or absence of even one member have materially affected the number of operations. Last year, the surgeons appointed by the Eugenics Board came to the Provincial Mental Hospital on 21 different occasions; this year the number dropped to 12.

All the operations were performed by either Dr. J. W. Richardson of Calgary or Dr. J. Ross Vant of Edmonton, at the Provincial Mental Hospital, with one exception, which was performed at a general hospital in Edmonton at the Board's direction.

During this year it was again not possible to follow up every case operated on, due to the fact that two members of the staff of the Guidance Clinics are still engaged in war work in England. However, this work will be resumed as soon as conditions permit.

The Eugenics Board acted as a Visiting Board in September and November of this year, and made a tour of the Provincial Institutions. The Provincial Mental Hospital at Ponoka was visited on September 11, the Provincial Training School for Mental Defectives at Red Deer on September 12, the Central Alberta Sanatorium and the Claresholm Auxiliary Mental Hospital on September 13, the Auxiliary Mental Hospital at Raymond on September 14, and the Provincial Mental Institute at Oliver on November 30. A more detailed report of these visits has already been submitted.

The Eugenics Board wishes to take this opportunity to thank Dr. R. R. MacLean, General Superintendent of Provincial Mental Institutions, and the staff of the Provincial Mental Hospital, Ponoka, and also Dr. D. L. McCullough, Superintendent of the Provincial Training School, Red Deer, and his staff, for their efficient co-operation at all times. The Board wishes also to thank Mrs. A. M. James, stenographer for the Guidance Clinics, who has assisted materially in the preparation of case summaries during the past year.

During this year, Miss Kathleen Colgrave continued as Acting Secretary of the Board.

A tabular summary of the Eugenics Board work, up to the end of 1944 is attached.

#### CASES PRESENTED AND PASSED (To December 31, 1944)

		Y	early To	tals	Cum	ulative	Totals
		Male	Female	Totals	Male	Female	Totals
1929		1	3	4	1	3	4
1930		6	36	42	7	39	46
1931		95	63	88	32	102	134
1932	······································	20	43	63	52	145	197
		25	56	91	87	201	288
1933		122	82	214	219	283	502
1934		192	97	220	342	380	722
1935		103	88	191	445	468	913
1936		115	87	202	560	555	1115
1937		84	84	169	644	639	1283
1938				170	748	713	1461
1939		104	74	178	640	774	1575
1940		53	61	114	801		1000
1941		67	50	117	868	824	1092
1942		47	51	98	915	875	1790
1943		67	63	130	982	938	1920
1944		56	73	129	1038	1011	2049

# DEPARTMENT OF PUBLIC HEALTH

# OPERATIONS ONLY

# (To December 31, 1944)

	Y	early To	tals	Cum	Totals	
	Male	Female	Totals	Male	Female	Totals
1929	1	2	3	1	2	3
1930	6	30	36	7	32	39
1931	1.9	51	64	20	83	103
1932	15	34	49	35	117	152
1933	12	41	54	48	158	206
1934	4.6	59	105	94	217	311
1935	22	54	87	127	271	398
1936	 26	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	27	40	77	315	490	805
1942	 2.8	28	52	339	518	857
1943	 90	31	60	368	549	917
1944	1.9	27	40	381	576	957

# Guidance Clinics

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

During 1944, the work of the Guidance Clinics was continued on the reduced scale which has been necessary since the war. At the present time there are seven active clinic centres. The work at Lethbridge, Medicine Hat, Drumheller, High River, Didsbury and in the Peace River District has been discontinued since the war, but it is planned to re-open these centers as soon as conditions permit.

Preceding the outbreak of war, new clinic centres were being opened nearly every year. It is hoped that during the post-war period Guidance Clinic services will be provided in areas where no such service exists at the present time. New centres are usually opened where a health unit has already been established, the ultimate aim being to extend Guidance Clinic services to every health unit.

For several years the advisability of making surveys concerning the extent of mental deficiency, epilepsy, venereal diseases and mental disorders has been recognized and discussed. When sufficient staff is available, it is hoped that these surveys will be made, probably in conjunction with the health unit authorities. Careful records have been kept of all clinic examinations for fifteen years, and a considerable amount of valuable information has already been collected.

Two members of the Guidance Clinic staff, Major E. B. Kibblewhite and Miss I. Munroe, are still on leave of absence doing war work in London, England. During the year, Miss Kathleene Colgrove continued the work of the Chief Psychiatric Social Worker, dividing her time between the social work in connection with the Guidance Clinics in the south of the Province and the psychological and Eugenics Board work at the Provincial Mental Hospital, Ponoka. Miss Marjorie Thompson continued as Social Worker for the clinics in the north, and also spent a portion of her time assisting with psychological work at the Provincial Mental Hospital.

In May, arrangements were made for the Chief Psychiatric Social Worker to attend the Canadian Conference in Social Work, held in Winnipeg. This is the first time that a worker from the Guidance Clinics has attended the conference, which is held biannially, and affords an opportunity to learn what is being done in the field of social work elsewhere in Canada.

In August, during her holidays, Miss Colgrove attended a postgraduate seminar at the University of Berkeley, California, dealing with the Rorshach method of personality diagnosis.

Dr. Randall, R. MacLean, Director of Clinics and General Superintendent of Provincial Mental Institutions, and Dr. Thomas C. Michie, Assistant Superintendent of the Provincial Mental Hospital, attended most of the Calgary Clinics. Dr. A. Ralph Schrag, Assistant Superintendent of the Provincial Mental Institute, Edmonton, attended the clinics in Edmonton and surrounding district, and Dr. D. L. McCullough, Medical Superintendent of the Provincial Training School, Red Deer, attended the clinics in Red Deer and Stettler.

The total number of clinics held in 1944 was 67, as compared with 64 last year. The number of new cases examined in 1944 was 267, which is 55 more than in 1943. The number of follow-ups and interviews has dropped slightly from 1,013 last year to 972 this year. The case load total this year is 1,239, which is practically the same as last year, when it was 1,225.

Since the Guidance Clinics started in 1929, 5,240 new cases have been examined, and it is estimated that 1,764 of these have been mental defectives. (See Table 7A, attached.)

A more detailed report of the work at the various clinic centres follows below:

# A.-IN THE NORTH

#### Edmonton.

During 1944, 37 half-day clinics were held as compared with 34 in 1943; 135 new cases were seen as compared with 86 in 1943. This increase of 56% over 1943 is due, in large measure, to the fact that the Social Worker was able to spend most of her time in the Edmonton centre. Last year there were several staff changes. The total number of follow-ups and interviews for 1944 was 457, an increase of 25% over last year. The case load total for this year is 592, as compared with 449 for 1943.

A considerable portion of the time on clinic days in the Edmonton centre is devoted to psychotherapeutic or treatment interviews. This, of course, reduces the amount of time which can be given to new cases. During 1944, 17 of the new cases examined were advised to return to the clinic for psychotherapeutic interviews. Of these, 10 did return, two are expected to return in the near future, and five dropped their contact with the clinic. In addition, there were seven cases from former years who returned for psychotherapeutic interviews. Thus there was a case load of 17 treatment cases during the year, and the number of hours spent with these cases on clinic days was approximately fifty.

Dr. A. Ralph Schrag, Assistant Superintendent of the Provincial Mental Institute, continued as the Psychiatrist in attendance at the Edmonton Clinic, and Miss Marjorie Thompson continued as Social Worker throughout the year.

# Lamont.

Two clinics were held at Lamont during 1944, and eight new cases were examined. This is a decrease from the 12 new cases seen in 1943. The total case load was 14, as compared with 18 the previous year.

# Sturgeon (Legal).

Three clinics were held in Edmonton during the year for patients from the Sturgeon Health Unit. Nine new cases were seen and one old case re-opened. The case load total was 10. Last year no Sturgeon Clinics were held.

#### Clover Bar.

During 1944, the Clover Bar Health Unit, with headquarters in Edmonton, requested that a Clover Bar Clinic be established. Three clinics were held; 11 new cases were seen, and there were four follow-ups and interviews, making a case load total of 15.

During this year the Sturgeon the Clover Bar Clinics were held on Mondays, and the regular Edmonton Clinic cancelled for those days. However, as the health unit authorities expect the number of cases to increase, the clinics will be held on Thursdays in 1945. This will be a more satisfactory arrangement as it will mean that six more clinic days will be available for the Edmonton cases.

# B.—IN THE CENTRE

# Red Deer.

During the past year, four clinics were arranged at this centre, which is the same number as in 1943 and 1942. There were 20 new cases examined, an increase of seven over last year. The Social Worker made 11 follow-ups while travelling between Calgary and the Provincial Mental Hospital at Ponoka. The case load total was 31, an increase of 55% over last year.

The clinics were held in the health unit offices as in former years. We wish to thank Mrs. Laura Humber, Public Health nurse in charge of the health unit, and her staff for their efforts in making the clinic work at this centre so successful.

Dr. D. L. McCullough of the Provincial Training School attended all four of the clinics.

# Stettler.

Three clinics were held in the offices of the health unit this year, which is the same number as in 1943. Nine new cases were examined, and three follow-ups made, making a case load total of 12, which is the same as last year.

Dr. D. L. McCullough attended all the clinics, and Dr. M. G. McCallum and his staff assisted by making the appointments.

## Ponoka.

No regular clinics were held during the year, but a limited number of individual cases were examined at the Mental Hospital aside from the regular hospital work. Four such cases were examined.

# IN THE SOUTH

#### Calgary.

In 1944 it was possible to arrange only 15 Guidance Clinics at this centre, which is three less than in 1943. The number of new cases examined—71, as compared with 86 last year—shows a corresponding drop. The number of follow-up visits and interviews shows a further decrease from 634 last year to 490 in 1944. The Social Worker is still able to spend only about half-time at the Calgary centre.

During the year a definite effort was made to re-organize the work in the Calgary centre. Addresses were secured for as many of the old cases as possible, and some changes were made in the filing system. It is planned to increase the number of follow-ups made to former cases as soon as conditions permit.

The clinics were held in the City Hall as in former years. We wish to take this opportunity to express our thanks to the officials of the Health Department of the City of Calgary for the continued assistance they have given, and especially for the more adequate telephone system which is proving most satisfactory. Dr. R. R. MacLean, Director of Clinics, attended 11 Calgary clinics; Dr. T. C. Michie, Assistant Superintendent of the Provincial Mental Hospital, three; and Dr. J. M. Byers, Senior Physician at the Provincial Mental Hospital, attended one.

Clinic work at the following centres has been discontinued because of war conditions as noted below:

Lethbridge: No clinics have been held here since December, 1942.

Medicine Hat: No clinics have been held since 1941.

Drumheller: No clinics have been arranged since 1942.

High River: Clinics at this centre have been cancelled since 1941.

Didsbury: No clinics have been held here for at least three years.

Peace River District: The annual trip to this district has been discontinued since 1938.

A statistical analysis of the new cases examined this year and of certain other parts of the work is appended. The tables are selfexplanatory.

TABLE 1

SUMMARY OF NEW CASES EXAMINED AND FOLLOW-UP WORK

Place	No. of Clinics	New Cases	Follow-ups Interviews	Case Load Total	Total New Cases Since 1929
Edmonton	37*	135	457	592	1591
Calgary	15	71	490	561	1427
Lethbridge					627
Medicine Hat					545
Drumheller					127
III.ch. Discon					88
Lamont	2	8	6	14	139
Red Deer	Ä	20	11	31	124
Other Clinics	0	33	0	41 .	579
Other Chinics	3	00	0	41	014
Watala	07	0.07	079	1020	E040
Totals	67	201	312	1239	5240

\*Half-day Clinics (others are full-day Clinics).

TABLE 2

AGE	AN	ND	SEX	CLAS	SIFI	CAT	TION (	OF	NEW	CAS	ES,	1944				
	Edi	mon	nton	Ca	algar	y	Oth	er C	linics	1	Fota	ls	Per	rcent	ages	
Age Group	M.	F.	T.	M.	F.	T.	M.	F	. T.	M	. F	. т.	M.	F.	Т.	
0- 4	5	0	5	3	6	9	1	3	4	9	9	18	7.5	6.1	6.7	
5- 9	7	7	14	9	6	15	11	10	21	27	23	50	22.5	15.7	18.7	
10-14	15	17	32	9	6	15	16	4	20	40	27	67	33.3	18.3	25.1	
15-19	16	13	29	2	7	9	3	3	6	21	23	44	17.5	15.7	16.5	
20-24	2	10	12	2	3	5		3	3	4	16	20	3.3	10.9	7.5	
25-29	· · · · ·	7	7		1	1					8	8	0.0	5.4	3.0	
30-34	2	10	12		4	4		3	3	2	17	19	1.7	11.6	7.1	
35-39	1	8	9	2	1	3				3	9	12	2.4	6.1	4.5	
40-44	2	2	4		5	5	3		3	5	7	12	4.2	4.8	4.5	
45-49	1	1	2				1		1	2	1	3	1.8	.7	1.1	
50 and over	4	5	9	2	2	4			-	6	7	13	5.0	4.8	4.9	
Age Unknown				ĩ		1				ĩ		1	.8	0.0	.4	
						-										
Totals	55	80	135	30	41	71	35	26	61	120	147	267	100	100.1	100	
M-Males, F-F	'ema	les,	T-7	Fotals.												

TABLE 3

CLASSIFICATION OF	NEW	CLINIC CASES	ACCORDING	TO	INTELLIGENCE
OUOTIENTC	TAUTT	LICENCE OHO	DIENTRO OR OF	ABTE	TECC

	Edi	mon	ton	C	alga	ry	Othe	r Cl	inics		Tot:	als
Intelligence Quotient		F.	T.	M.	F.	Τ.	M.	F.	T.	Μ.	F.	Т.
0-25 26-50 51-75 Undetermined	6395	3 6 17 3	9 9 26 8	57	259	2 10 16	8 10 5	8 4 4	16 14 9	6 16 26 10	5 19 30 7	11 35 56 17
Totals	23	29	52	12	16	28	23	16	39	58	61	119

# TABLE 4a

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

Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Ha	Other Clinic	Totals
Examination and Report	2	1				3
Examination and Report Mental Deficiency: General Retardation Epilepsy	5	9			7	$21 \\ 1$
Epilepsy	1				1	2
Other Conditions	0	2			2	4
		-				
Totals	9	12			10	31

#### TABLE 4b

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

Nature of Case	Edmonton	Calgary	Other Clinics	Totals
Examination and Report				****
Mental Deficiency:	00	.10	99	5.6
General Retardation	20	13	1	00
Behaviour Problem	2	1111	1	9
Sex Delinquency	1		****	1 L
Epilepsy	3		2	Ð
Physical Defect				****
Other Conditions	2	2	1	.5
Backward in School	5	4	3	12
Behaviour Problem	18	6	2	26
Sex Delinguency	3	1	1	5
	9	ĩ	ĩ	4
Epilepsy	9	2	î	6
Psychosis	6	e	5	19
Other Conditions	0	0		
		0.0	10	140
Totals	66	36	40	192

#### TABLE 4c

# CLASSIFICATION OF NEW CLINIC CASES—ADULT GROUP (OVER 19 YEARS 0 MONTHS)

Nature of Case	Edmonton	Calgary	Other Clinics	Totals
Examination Report		****		
Mental Deficiency:	e	9	6	14
General Retardation Behaviour Problem	4	-		4
Sex Delinquency	3			3
Epilepsy	2	2		4
Physical Defects	1	****		1
Psychosis	2	10,00		2
Sex Delinquency	1			1
Epilepsy	1			
Psychosis:	- 8	8	1	17
Other than G.P.I. Psychoneurosis	21	4	î	26
Arteriosclerosis	2	2		4
Other Conditions	9	5	3	17
Totals	60	23	11	34
makin da		19	10	31
Table 4a Table 4b	66	36	40	142
Table 40		_	-	
Grand Totals	135	71	61	267

# TABLE 5

AGENCIES REFERRING NEW CLINIC CASES, 1944

Agency	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
School Officials and Teachers	7	14			1	22
Doctors. Medical Health Officers and Clinics Provincial Child Welfare, Children's Aid,	54	26			8	88
Juvenile Court	38	4			1	43
Police, Provincial Gaols, Courts Homes (Mountview, Beulah, Kiwanis,	1					1
Y.W.C.A., and Salvation Army)	1	6				7
Parents, Relatives, Friends	14	18			2	34
Relief Department	1					1
Provincial Health Department other than						-
Child Welfare and Relief	2		110			2
Full-time Health Units					45	45
Self	8	1			2	11
Other Agencies, etc.	9	2			2	13
Totals	135	71			61	267

TABLE 6

# MAJOR RECOMMENDATIONS MADE IN REGARD TO NEW CLINIC CASES, 1944

at

Major Recommendations	Edmonton	Calgary	Lethbridge	Medicine H	Other Clini	Total
Admission to Provincial Mental Hospital or						
Provincial Mental Institute Admission to Provincial Training School or	16	11			4	31
other similar Institutions	20	3			5	28
Treatment by own Doctor or other Clinics		8			2	10
Treatment given, including direct treatment					-	10
for Epilepsy		1				1
Continue Home, Institutional, or School life Modified School Programme, Special Class,	20	7	****		8	35
or Vocational Training	8	6			9	23
Change in Home Routine, Care, Discipline	12	7			6	25
establishment of self-confidence	5	4			1	10
Return to Clinic, further examination	26	9			6	41
Placement under careful supervision	13	5			6	24
Other Recommendations	15	10			14	39
Totals			-			
1 otals	135	71	****		61	267

#### TABLE 7

SUMMARY OF WORK OF GUIDANCE CLINICS SINCE 1934

	ear	No. of Clinic	New Cases	Follow-ups Interviews	Total Case Load	Total New Cases,
1934		91	428	450	878	1770
1935		90	363	432	795	2133
1936	annonen	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
1944		65	267	972	1239	5240

SUN	IMARY	OF N	UM	BER C	)F	MENTAL	, DEFECT	IVES	EXAM	INED	BIIL	Ano
Year	I.Q.: 0 to 25 Probably Idiots	I.Q.: 26 to 50		I.G.: 51 to 75 Boohobly Morons		I.Q. Unknown but Mental Deficiency		Totals			Percentage of New Cases	& Cumulative & Totals
	M. F.	M.	F.	M.	F.	M. 1	r. M	. 1	F. T.		32.0%	-085
1936		17	17	53	26		7:		4 116		29.5%	$\begin{array}{r} 809\\ 939\\ 1062\\ 1205\\ 1335\\ 1468\\ 1570\end{array}$
1936	$     \begin{array}{ccc}       2 & 1 \\       5 & 2     \end{array} $	16	14	55	38				4 130		25.5% 31.3% 30.3% 35.5% 36.5% 38.7% 32.9% 40.1%	939
1937 1938		17	9	51	41				1 123		30.3%	1062
1939	5 3	19	24	46	46				3 143		33.3 % 26 EC	1200
1940	$     \begin{array}{r}       4 & 1 \\       5 & 3 \\       3 & 2 \\       3 & 2     \end{array} $	20	14	39	19		5 7				30.370	1468
1941	3 2	23	16	43	25	13	8 8		51 133 41 102		39 96%	1570
1942	6 8	18	15	34	16		$   \begin{array}{ccc}     2 & 6 \\     7 & 4   \end{array} $		14 85		40.1%	1655
1943	6 12	17	11	15	14	10	7 5		61 119		44.6%	1764
1944	6 5	16	19	26	30				ious to			total new
#Thefine	atad mu	maker	of 1	Mental	D	efectives	e xamined	prev	tous to	1000	(0070 Or	COLUMN ALC IN

				TABI					
SUMMARY	OF	NUMBER	OF	MENTAL	DEFECTIVES	EXAMINED	BY	YEARS	

\*Estimated number of Mental Defectives examin cases). M—Males, F—Females, T—Totals.

# Provincial Mental Hospital, Ponoka, Alberta

# (R. R. MACLEAN, Medical Superintendent)

# PATIENT POPULATION CHANGES

There were 1,482 patients—829 male and 653 female—actually in residence January 1st, 1944. On December 31st, 1944, there were 1,450 patients actually in residence—846 male and 604 female representing a reduction in the population during the year of 32 patients. During the year, transfers were made to the Provincial Mental Institute, Edmonton, of both male and female patients. Some female patients were also transferred to the Claresholm and Raymond Auxiliary Hospital. Periodical transfers from the latter hospitals were necessary to this institution for various reasons.

Overcrowding on both male and female wards continues, although there has been a steady decrease in the over-all population. The overcrowding continues to be more serious on the female side. Due to shortage of staff at the Provincial Mental Institute, Edmonton, it has not been possible to open certain dormitories which could be made available there.

There has been the same steady influx of elderly patients, both male and female, with such conditions as senility and cerebral arteriosclerosis. It is still considered inadvisable that such patients be committed to mental hospitals rather than to other institutions which should be provided for their care. Many requests are received for the admission of mental defectives, another class of patients which should not be admitted to general mental hospitals.

The acute shortage of medical staff continued throughout 1944, although the services of one additional physician, a lady physician, was obtained. Due to the shortage of medical personnel, case histories and records were not kept up to what is considered the standard.

It is still thought highly advisable that provision be made in certain key centres in the Province for the establishment of psychiatric wards, where many cases could be investigated, and at least those patients with acute reactions of short duration might be handled satisfactorily. This would relieve the case load of the general mental hospitals.

# Admission of Patients

The total number of admissions for the year, excluding transfers to this hospital from other institutions, was 578—326 males and 252 females. This would be about 97 more admissions than during 1943. The numbers of first admissions, re-admissions and transfers appear in Table 1. Over 100 patients were admitted voluntarily, the balance being admitted by warrant and certificate chiefly.

During the year, about 81 patients suffering from neuroslyhilis were admitted, largely by being referred by the Division of Social Hygiene. The majority of these cases were admitted as voluntary patients.

A very limited number of patients suffering from alcoholism or drug addiction were admitted. There has been a noticeable decrease in the number of patients admitted with high blood bromide concentration. This latter may be the result of a better understanding by the medical profession of the possible toxic effects from taking bromide preparations to excess or over long periods of time.

By far the greater number of patients admitted were Canadian or American born. The nativities of the patients appear in Table 3 in detail.

#### SEPARATIONS OF PATIENTS

Separations for the year totalled 410—214 male and 196 female. These figures are exclusive of transfers, deaths and elopements. The discharge rate therefore was approximately 72% of the admission rate.

There were 99 deaths—63 male and 36 female. The death rate based on the total number under treatment would be approximately 5%. The commonest causes of death, as usual, were those associated with cardio-vascular disease and respiratory disease, including tuberculosis.

#### ACCIDENTS

During the year there were many accidents, both minor and major, among the patients, including fractures of the long bones and ribs. A great many of the accidents, if not the majority, were directly attributable to the acute shortage of staff and the overcrowding on the wards.

# ELOPEMENTS

During the year there were 16 elopements. The majority of the patients who eloped were returned within a short time. The shortage of staff makes the prevention of elopements more difficult.

# GENERAL HEALTH

Generally speaking, the health of the patients has been good. There were minor outbreaks of dysentery, which did not reach serious proportions, and which were brought under control by isolation of the patients affected. The shortage of medical personnel makes it almost impossible to arrange for routine examinations of the patients, although the trained nurses and attendants have helped materially in detecting illnesses among the patients.

Regular chest X-ray examinations have been carried out as much as possible to detect or rule out tuberculous infections. All known cases of tuberculosis are isolated and all suspected cases are placed under observation and in temporary isolation while their cases are being investigated.

Great difficulty has been experienced in getting the patients outside on walking parties, but efforts were made to get as many as possible outside daily on the verandas and in the airing courts.

The general health of the resident staff has been satisfactory.

# CLINICAL WORK

The medical staff consisted of four physicians, including the Medical Superintendent, except for the latter months of the year when the services of a lady physician were obtained. It was not possible to obtain the services of medical students or recent graduates during the year because of war conditions. Graduate nurses and social workers rendered assistance to the medical staff in the taking of case histories and in the recording of progress notes. The assistance given in this manner was very valuable and greatly appreciated.

# TREATMENT OF PATIENTS

During the year, electro-shock treatments were given many patients with a great variety of reactions and conditions. The results obtained in the majority of cases were quite satisfactory. It has been found that the majority of patients change for the better, to a greater or lesser extent. The treatments seem to promote better sleep, and patients who are feeding problems seem more easily handled while under treatment. There seems no doubt but that the attacks of patients with relapsing disorders seem shortened to a great extent by shock treatment.

Malarial therapy was given for the most part to neurosyphilitics, although it was necessary to treat some with typhoid vaccine fever therapy.

The continued shortage of medical staff has limited the amount of intensive psychotherapy which could be given.

Special reference to hydrotherapy and occupational therapy appears in a later part of this report.

Staff conferences were held very regularly twice each week, six to eight cases being presented at each conference. The cases are reviewed at these conferences with a view to arriving at a diagnosis and to make recommendations as to treatment in connection with other aspects of the case.

#### HYDROTHERAPY

Hydrotherapy in the form of continuous baths and wet sedative packs chiefly was given to a large number of patients on the reception wards, and to a lesser extent on the continued treatment wards. These treatments are given under the supervision of experienced hydrotherapists, who also supervise the giving of tonic hydrotherapy, electric-cabinet treatments and a certain amount of physiotherapy. Results from these treatments have been considered satisfactory.

# MENTAL HYGIENE AND GUIDANCE CLINICS

These clinics were conducted regularly at Edmonton, Calgary and Red Deer and a few other points throughout the Province. The continued shortage of medical staff limited the number of clinics which could be held. The case load continued heavy, it being impossible under the circumstances to see and examine all the cases which were referred or applied for such examinations. The clinics were conducted by the medical superintendents and their assistants from this hospital, the Provincial Mental Institute at Oliver, and the Training School at Red Deer.

# CLARESHOLM AND RAYMOND MENTAL HOSPITALS

These institutions continue under the supervision of the Medical Superintendent of this hospital. The matrons of the hospitals concerned conduct the affairs of the institution with a minimum of assistance from the Medical Superintendent. They have performed their duties most efficiently and faithfully, and are deserving of great

credit. Each institution has an honorary physician who visits it at regular intervals and on special occasions when emergencies arise. Separate annual reports of these institutions are submitted herewith.

#### DENTAL DEPARTMENT

The work of this Department has been carried out most efficiently 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. They also have regular check-ups. The dentist visits the Raymond, Claresholm and Oliver Hospitals and the Tuberculosis Sanatorium periodically, to do such work in these institutions as is indicated.

Full Upper Dentures	12	No. work indicated	827
Full Lower Dentures	13	Treatments	483
Partial Dentures	1	Extractions	712
Remakes	23	Amalgam Fillings	307
Repairs	32	Kryptex Fillings	
No. Patients examined 1	1,917	Dental X-rays	47

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

# X-RAY DEPARTMENT

The work of this Department was done by a nurse technician, who is also the dental assistant. The technician has rendered valuable service.

The following is an account of examinations made:

Chests	810	Ankle, tibia and fibula	21
Cervical Spins	6	Foot	4
Dorsal Spine	350	Skull	66
Lumbar Spine	21	Dental	58
Pelvis	37	Heart	93
Ribs	6	Abdomen	19
Shoulder	22	Kidney	8
Elbow and humerus	14	Gall Bladder	3
Wrist, radius and ulna	21	Barium Series	0
Hand	6	Urinary Tract	10
Femur	28	Basal Metabolism Tests	49
Knee	17		

# OCCUPATIONAL DEPARTMENT

Included in this Department is that of recreational therapy as well. The majority of patients admitted to the hospital attend classes in the occupational studios under the supervision of trained occupational therapists. This form of treatment is considered indispensable and the results are always apparent and satisfactory. The work done consists chiefly of woodwork, reed work, leather and metal work, weaving, embroidering, and other crafts. Weather permitting, classes are held outside. Nursing students and occupational internes (from the University of Toronto) are in attendance during the classes for experience and instruction.

The annual bazaar and tea were held as usual. Articles which were made in the studios during the year were sold, and the profits of the sale were returned to the Provincial Treasurer.

The patients' library is supervised by members of the Occupational Department. Many books were added to the collection during the year, and the circulation continued satisfactory. During the year many donations of magazines were made to the Occupational Department by the Ponoka Kinsmen Club for distribution among the patients. These donations were greatly appreciated.

The canteen, at which smokes, candies and soft drinks are sold, was operated under the supervision of the Occupational Department. The profits derived from the sale of the articles mentioned were used for the purchase of books for the library or for the entertainment of the patients otherwise.

This Department organized various sports events during the year, as well as several teas and mixed card parties for the patients. These were greatly enjoyed by those in attendance, and suitable prizes were given for the winners of the various events. This Department also supervises the selection of the talkies which are shown throughout the year fortnightly, except during the summer months.

The skating parties were arranged by this Department, and proved quite popular. Late in the year, a new curling rink was erected, through the efforts of the members of the staff. It was possible to get a goodly number of male and female patients interested in the game. It is expected that this sport will be developed more fully in the coming year.

The Occupational Department again made most of the arrangements in connection with staff dances, the "At Home" and certain staff card parties. These functions were well patronized, and seemed to be enjoyed by all present.

Under the supervision of this Department, parcels of smokes, eats and other articles were dispatched to members of the staff overseas in the Services. Materials for the parcels were purchased from funds raised through the efforts of the Occupational Department. Many letters and cards of acknowledgement and appreciation were received from those to whom the parcels were sent.

# Religious Services

Religious services of all major denominations were held regularly throughout the year. As many patients as possible were allowed to attend the services. Pastoral visits to various patients were made by the parish priest and clergymen of other denominations throughout the year.

# SOCIAL SERVICE DEPARTMENT

Two social workers were available for the work of this Department, one being located in Edmonton, the other in Calgary. Periodically and alternately, one or the other social worker would visit the hospital and remain for a week to assist in taking case histories and in doing intelligence tests on the patients. The social workers also assisted in obtaining field reports on many cases throughout the year.

# EUGENICS SERVICES

During the year, five meetings of the Eugenics Board were held. About 140 cases—67 male and 73 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 to the Mental Hygiene Division.

# SURGICAL SERVICE

Dr. J. Voss Vant and Dr. J. W. Richardson acted as Honorary Surgeons during the year, and were assisted by members of the medical staff of the hospitals. All patients recovered satisfactorily from their operations.

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

Operations	Male	Female	Total
Salpingectomy		22	22
Vasectomy	11		11
Orchidectomy	3		3
Oophorectomy	1410	9	4
Hysterectomy Herniotomy		1	2
Appendectomy	ĩ	1	2
Laparotomy	1		1
Cholecystotomy	1		1
Thyroidectomy		1 2	1 E
Other Operations	-	-	-
Totals	22	31	53

# NURSES' TRAINING SCHOOL

The twelfth annual graduation exercises were held June 9th, 1944, when the ninth class of general and psychiatric nurses, six in number, received their diplomas. In addition, there were five graduate nurses received certificates in psychiatric nursing. The male attendants graduating were seven in number, having completed their three-year course.

The hospital was honored in having Dr. G. F. McNally, Deputy Minister of Education, deliver the address to the graduating class.

The following is the distribution of nurses and attendants in training at present:

Number of Graduating Nurses	10
Number of Affiliating Students	20
Number of First Year Students	6
Number of Second Year Students	8
Number of Post-Graduate Students Number of Male Attendants Graduating	9
Number of Male Attendants Graduating	4

There has been no change in the staff of the Training School during the past year. Frequent changing of the supervisory staff as well as extreme shortage of nurses has made it difficult to carry on any organized teaching programme on the wards. Otherwise, the programme has remained unchanged.

The hospital received a Federal grant of fifty dollars for the nurses' library, so that many new reference books were added during the year. Arrangements were made for ward libraries for the staff, for reference in their work.

Once again a member of the staff was fortunate in receiving a Federal Grant Bursary. Miss Nessa Leckie, R.N., a post-graduate of this school and a supervisor for several years, was granted a \$500.00 bursary and travelling expenses to take Teaching and Supervision at McGill School for Graduate Nurses.

During the spring term, 18 B.Sc. students of the School of Nursing, University of Alberta, had two weeks' field work on the wards.

During the summer term, eight Public Health nurses from the School of Nurses, University of Alberta, had a week of field work on the hospital wards.

During the winter term the hospital was visited by the travelling Public Health instructor, Miss Jean Clark, B.Sc. (Nursing), sent out by the Alberta Association of Registered Nurses, to assist in the teaching of Public Health in the Nursing Schools of Alberta, under the Federal grant programme. Miss Clark gave a six-hour lecture course to the second year group. Her efforts were much appreciated.

Despite the shortage of graduate staff and smaller student body, attempts were made to maintain the standard of nursing care, and were successful to a surprising degree. The introduction of the eighthour day schedule on April 1st, 1944, has helped the situation, in maintaining a healthy and happier staff, and thus more enthusiastic and energetic ward workers. One looks forward to the not too far distant day when the staff may reach normal establishment, and a more individualistic type of nursing care may be accomplished.

# TEACHING OF MEDICAL STUDENTS

All lectures and clinics in psychiatry were given to the medical students by the Medical Superintendent throughout the greater part of the year. The time is looked forward to when the medical students may be able to spend more time at the institution in the course of their University career, as internes.

# MEDICAL LIBRARY

Subscriptions to medical journals were renewed and a number of new books were added during the year.

# VISITORS TO THE HOSPITAL

Dr. W. W. Cross, the Minister of Health, visited the hospital several times during the year, and was again present at the nurses' graduation exercises. His interest in and his sympathetic attitude towards the institution as a whole were appreciated.

Dr. M. R. Bow, Deputy Minister of Health, visited on many occasions, including the nurses' graduation exercises. During his visits, rounds were made and assistance was given in the general administration of the affairs of the hospital.

Dr. Cathcart, Dominion Neuropsychiatrist, spent a day at the institution also. Dr. Cathcart has visited the hospital many times over a period of years, and always inspires the staff by his helpful suggestions.

During the year, a large number of relatives and friends of the patients and staff of the hospital visited, and many were shown through the wards and various other departments. The attitude of the public towards the work of the institution and its problems has been very sympathetic and appreciative.

The Eugenics Board, acting as a Visiting Committee, made rounds in the hospital and observed the work being done. A full report of this Committee was submitted to the Minister of Health.

#### ACCOMMODATION AND ALTERATIONS

No new accommodation was provided during the year in this institution, but it was possible to transfer a number of female and male patients to the Provincial Mental Institute at Oliver, and a few female patients to the Raymond and Claresholm Auxiliary Hospitals.

The Department of Public Works Maintenance Branch endeavoured to keep the buildings in repair and made minor alterations when requested. Difficulty is still being experienced with leaky roofs, and nothing short of a very radical programme for repairing these systematically seems to be of much value. Special appropriations will have to be made to cover the costs of repairs which will be considered.

# STAFF CHANGES

During the year, Dr. Margaret McWilliam joined the medical staff, which helped to relieve the acute shortage in that department. There was no immediate hope of bringing the medical staff up to strength in view of the general shortage of physicians, due to war conditions.

The Medical Superintendent of the hospital, in his capacity as General Medical Superintendent of the Mental Hospitals and the Red Deer Training School, visited the other institutions in question, and assisted in co-ordinating the work of all of them.

# BUSINESS OFFICE

This office, under the direction of the Business Superintendent, Mr. J. D. J. McDonald, directed the work and activities in connection with the business administration of the institution.

Due to wartime conditions and regulations, certain items of food, clothing and equipment have been curtailed or have been difficult to procure, but generally speaking, no serious hardship has been encountered.

The collection of maintenance accounts has proceeded satisfactorily. A considerable amount of money was realized from dormant accounts. The accounts of mental defectives with municipalities are in good standing and, generally speaking, all maintenance accounts are in better condition that at any time in the past.

The mail and distribution of stationery to the various departments of the hospital was dealt with in a satisfactory manner.

Our Accounting Department has operated most efficiently, accounting costs and statistics. The many staff changes have entailed a considerable amount of extra work. This situation is reflected in payroll compilations increasing the time required to prepare same. A need is felt for a bookkeeping machine to aid in this situation, and also other types of records, etc.

# GARDEN DEPARTMENT

The year was fairly successful, but due to excess moisture in June, which almost approached flood conditions, some crops were damaged and yields cut down. Cabbage and strawberries suffered particularly in this regard. However, root crops showed some increase over the harvest of last season.

The lawns and flower beds were in particularly good condition this year, due to abundance of moisture.

This department is concentrating on the production and development of small fruits and berries to offset the purchased item. In this regard, an excellent variety of rhubarb has proven to be valuable along with a valuable crop of berries, particularly raspberries.

The greenhouse produces potted plants and flowers for hospital use, also ripe tomatoes of an excellent type and flavour.

The hospital apiary produced, from 20 hives of bees, 3,300 pounds of honey, which was somewhat in excess of the average for this district per hive. Attempts were made to winter four hives as an experiment. They appear to have wintered in good condition, and will have an earlier start than imported spring bees.

# FARM

The season of 1944 was fairly satisfactory. The grain and feed crops were about average and the potato crop was somewhat above last season, and bearing in mind unlooked for shrinkage, it should be ample for our requirements. A good turnip crop was harvested, but unfortunately, the storage has proven to be a problem which to date has not been remedied, and some loss through spoilage is anticipated.

Milk production has been up to the average during the season. Ample pasturage has sustained this production during the summer months.

Hog production has been excellent, and several truckloads (approximately 100) were sold on the market, to avoid overcrowding.

The poultry farm's production and operation proved to be excellent this season. An ample supply of fresh eggs and fowl were delivered to the hospital, an increase of 20% over last. Sufficient turkeys were supplied to this hospital for Christmas and New Year's; also turkey was delivered to Oliver, the Red Deer Training School, Central Alberta Sanatorium and the Claresholm and Raymond Auxiliary Hospitals. Incidentally, the type of turkey produced on the hospital farm is recognized as being of an outstanding type and one of the largest type and breeds of this bird in the Province.

The poultry farm was unfortunate to lose the services of the manager of this department this season, Mr. Carleton, who after ten years' service, has gone into private business elsewhere.

# TAILOR SHOP

The routine work, which includes the manufacture of male patients' clothing, mattresses, uniforms, towels, etc., was carried out in an efficient manner. Repair to patients' clothing and a considerable number of pieces of upholstered furniture was also repaired during the year. It is thought that some assistance in this type of work, with the addition of some person capable of doing upholstering, might relieve the pressure on this department.

# SHOEMAKER'S DEPARTMENT

This department has been carrying on efficiently, and vast numbers of items of footwear have been put back again into use. Patients requiring specially made boots have received attention, and conditions due to wartime restrictions have been somewhat relieved by the fact that this department is in operation.

# LAUNDRY

This department is, as in the past, taxed to capacity. A small tumbler was procured this season to deal with garments requiring special attention. It is possible that at some time in the near future more space should be provided to deal with the amount of work on hand, but in any case, some alterations appear to be in order. It is possible also that the addition of a water softening unit would assist in reducing the cost of detergents. Replacements of old machinery is a matter also requiring attention in the near future.

# STORES DEPARTMENT

The operations of this department proceed in an efficient manner. Vast quantities of items, large and small, pass through the hands of the storekeeper. The reshipment of goods and supplies to branch hospitals, the daily matter of supplies to the various departments of the hospital, also the maintaining of stocks and tabulation of new stocks and supplies, is part of the duties and responsibilities of this department.

#### PRINT SHOP

This department continues to function in a satisfactory manner. A need is felt for several items of equipment to replace old or homemade equipment, in order to speed up work or handle work more satisfactorily. In regard to this, bookbinders in particular might be mentioned by means of which more volume of work could be handled.

The printing is still being done for this hospital and other branches of the Department of Public Health, also health units. A considerable saving is effected by all concerned through this department.

# CARPENTER SHOP

Repairs to furniture and hospital equipment is dealt with in an efficient manner by this department; also during the season, several buildings were constructed by the hospital carpenter, assisted by patients. This work was completed at a minimum cost.

#### CANNERY

For the past number of years this department has been handicapped in the change of personnel directly engaged in this work, and this season it has been somewhat worse than in previous years. However, during the season more products were processed than in any previous year, making the season the most successful year up to date. A total of 18,611 No. 10 gallon cans were processed, a total weight of approximately 80 tons. Of this total, 3,458 cans were delivered to the Provincial Training School, Provincial Mental Institute, Oliver, and the Central Alberta Sanatorium. Of this total of 18,611 cans, 15,026 were fruit and rhubarb, of which 9,738 were canned from home-grown products, including rhubarb, raspberries and strawberries.

It should be noted that apart from the saving effected in processing these products here, it has also made available to this hospital and other institutions of the Department these fruits and vegetables which are difficult and, in some cases, impossible to obtain, due to war time restrictions and regulations.

During this season an addition was built on to the present building at a minimum cost. This was necessary, as the original building was not large enough to accommodate increased production; also more space was required to accommodate a proposed dehydrating unit. It is regrettable that due to difficulty experienced in getting delivery of essential equipment and materials, operations of this dehydrating unit could not be started this year.

#### DEPARTMENT OF HOUSEKEEPER

The work of this department has been carried out very efficiently, and it has been possible to make inventories and check them periodically in connection with various hospital supplies. There has been a considerable saving in the cost of these supplies, as a result of the operation of this department.

# LINEN ROOM

The linen room, which serves as a sorting and distributing centre for bed linen, patients' dresses, underclothing, blankets and many other items of ward equipment, has operated very efficiently. This department is instrumental in effecting a great savings in connection with supplies.

#### DEPARTMENT OF PUBLIC HEALTH

# SEWING ROOM

Staff uniforms, patients' dresses and many repairs to such items are made in this department, which has carried on its work very satisfactorily, with the aid of a number of female patients.

#### DIETARY DEPARTMENT

Difficulty was experienced during the year again in connection with the obtaining of many items required for a diet of proper quality and variety. The Dietary Department was assisted materally, however, by the supplies obtained from the hospital cannery. Everything being considered, the general diet of the hospital was quite satisfactory. Special diets were provided liberally to those in need of such attention.

# DEPARTMENT OF CHIEF ENGINEER

Late in the year this department was taken over by Mr. W. T. Jones. Throughout the year the institution was provided satisfactorily with heat, light and water. It has been pointed out that the electrical disribution system and the water supply are taxed to capacity. The sewerage system and the storm water disposal system are both considered overloaded, and extensive alterations are considered necessary to safeguard against possible difficulties which are bound to arise sooner or later without such alterations. As pointed out in the previous report, the sewerage system is not considered acceptable under existing regulations. The co-operation between the Engineering Department and the Department of Health has been very satisfactory.

# DEPARTMENT OF BUILDING MAINTENANCE

This department did everything in its power to keep up with the repairs to buildings and equipment. The task has been considerable, due to the progressive deterioration of the buildings, without adequate provision being made for the appropriation of sufficient funds with which to defray the cost of repairs. A considerable amount of redecoration of the interior of the buildings was done during the year.

Regular fire inspections were made by this department, which reported that the fire fighting equipment was checked periodically and was kept in working order.

# CONCLUSION

Whereas overcrowding of the male and female wards has continued to be a major problem, the greatest difficulty in connection with the administration of the hospital's affairs was that experienced in trying to cope with the shortage of medical, nursing and attendant staffs. There has been such a depletion in these staffs that it has been almost impossible to staff the wards at times, and it has been most difficult to carry on with the active treatment programme.

There were few major staff changes during the year, but a very considerable turnover in so far as the nursing and attendant personnel was concerned.

All heads of departments and their employees co-operated so completely and willingly that the problems which arose in connection with shortage of staff were handled with a minimum of difficulty. The Medical Superintendent and his staff wish to thank the Minister of Health, the Deputy Minister of Health, the Attorney General's Department, the Department of Public Works and all others who have assisted in the administration of the hospital's affairs during the year, covered by this report.

Attached hereto are the annual reports of the Claresholm and Raymond Auxiliary Hospitals.

	Psychoses	Male	Female	
01 02	Psychoses with syphilitic meningoencephalitis (general paresis) Psychoses with other forms of syphilis of the central nervous system:	57	12	69
	021 Meningo-vascular type			1
0.2	023 Other types	10 3	3	10 6
03	Psychoses with epidemic encephalitis Psychoses with other infections diseases	4		4
05	Alcoholic psychoses:			
	053 Koreakow's psychosis	1	1	2
	054 Acute hallucinosis 055 Other types	6 1		6 1
07	Traumatic psychoses	5		5
	075 Traumatic delirium	1	1	2
08	Psychoses with cerebral arteriosclerosis	25	12	37
09	Psychoses with other disturbances of circulation: 091 With cerebral embolism	1		1
	092 With cardio-renal disease	3		3
10	Psychoses with convulsive disorders	14	9	23
	101 Epileptic deterioration 103 Other epileptic types	55	12	17
11	Sanila nevehoses'			
	111 Simple deterioration	19	14	33
	112 Presbyophrenic type	1	2	1 3
	114 Depressed and agitated 115 Paranoid types		1	14
12	Involutional melancholia:			
	121 Melancholia	8	10	18
13	Psychoses due to other metabolic, etc., diseases:	3		3
14	135 With somatic diseases Phychoses due to new growth:			
14	141 Intracranial neoplasm	1		1
15	Psychoses associated with organic changes of the nervous system	2	1	30
	151 Huntington's Chorea Psychoneuroses	0	2	32
16	161 Hysteria		ĩ	ĩ
	162 Psychasthenia		1	1
	163 Neurasthenia		1	1
17	166 Anxiety state	1		1
17	Manic-depressive psychoses: 171 Manic type	25	26	51
	172 Depressive type	13	27	40
	173 Mixed types	1.	2 8	38
10	177 Other types Dementia Praecox (Schisophrenia):		0	0
18	181 Simple type	9	15	19
	182 Hebenbrenic type	29	26	55
	183 Catatonic type 184 Paranoid type	247 174	207 78	454 252
	184 Paranoid type		1	1
19	Derenais and personaid conditions:			
100	191 Paranoia	28	10	28
00	192 Paranoid conditions	20	18 3	47
20	Phychoses with psychopathic personality Psychoses with mental deficiency	49	83	132
22	Undiagnosed psychoses		4	4
23	Without psychoses:		5	9
	231 Epilepsy		5	2
	232 Alcoholism 233 Drug addiction		1	1
	234 Mental Deficiency	9.6	15	57
	235 Disorder of personality	1	1	2
	240 Neurosyphilis	3	1	1
	241 Organic brain disorder			
	Totals	845	605	1450

# TABLE No. 1

MOVEMENT OF PATIENT POPULATION DURING 1944

MOVEMENT OF TRIBUT TO	C LITT	011 200				
	Male	Female	Total		Female	
In residence December 31, 1943				829	653	1482
On leave or otherwise absent				30	9	39
Admissions: First Admissions:						
(a) Voluntary	56	45	101			
(b) Certificates	49	45	94			
(c) Warrant	147	82	229			
(d) M.D. Act	1	2	3			
Re-Admissions:						
(a) Voluntary	10	16	26			
(b) Certificates	9 54	17 43	26 97			
(c) Warrant (d) M.D. Act		2	2			
(d) M.D. Act Transfers	5	ã.	9			
Transiers				331	256	587
				1190	918	2108
Separations:						
Discharges:		45	90			
(a) As recovered (b) As improved	45 74	45 85	159			
(c) As unimproved	33	26	59			
(d) As without psychosis	62	40	102			
Transfers	25	68	93			
Deaths	65	34	99			
	-			302	300	602
				888	618	1506
On leave or otherwise absent				42	14	56
In residence December 31, 1944				846	604	1450

# TABLE No. 2

	Psychoses	Male	Female	Total
01	Psychoses with syphilitic meningoencephalitis (general paresis)	12	4	16
02	Psychoses with other forms of syphilis of the central nervous			
	system	8		8
03	Psychoses with epidemic encephalitis			****
04	Psychoses with other infectious diseases	1	1	2
05	Alcoholic psychoses:			
	052 Derllium tremens	3		3
	054 Acute hallucinosis	5	2	7
06	Psychoses due to drugs or other exogenous poisons			
07	Traumatic psychoses	2		2
08	Psychoses with cerebral arteriosclerosis	8	10	18
09	Psychoses with other disturbances of circulation	4	1	5 9
10	Psychoses with convulsive disorders	5	4	11
	102 Epileptic clouded states	8	3	11
11	Senile psychoses:	21	7	28
	111 Simple deterioration	1	:	1
	114 Depressed and agitated 115 Paranoid types	1	2	3
12	115 Paranoid types Involutional melancholia		1	1
16	121 Melancholia	1	5	6
13	Psychoses due to other metabolic, etc., diseases	3		3
14	Psychoses due to new growth	2	1	3
15	Psychoses associated with organic changes of the nervous system	2.5		
	151 Huntington's Chorea		1	1
	152 Disseminated sclerosis		î	1
	154 Subarachnoid haemorrhage	1	105	1
16	Phychoneuroses	1	1	2
	162 Psychthenia		2	
	163 Neurasthenia		1	1
	165 Reactive depression	3	1	4
17	Manic-depressive psychoses:			
	171 Manic type	16	15	31
	172 Depressive type	11	21	32
	173 Mixed types	1		1
	174 Hypomanic	7	7	14
	177 Simple depression		2	2
18	Dementia Praecox (Schizophrenia):			
	181 Simple type	1	1	3
	182 Hebephrenic type	1	2	147
	183 Catatonic type		71 27	66
	184 Paranoid type 185 Undetermined	39 2		00
19	185 Undetermined Paranoia and paranoid conditions:	4	1414	-
19		1	1	2
	191 Paranoia 192 Paranoid conditions		6	11
20	Psychoses with psychopathic personality			**
21	Psychoses with mental deficiency	6	5	11
22	Undiagnosed psychoses	2	3	5
23	Without psychoses	12	14	26
	231 Epilepsy		3	4
	232 Alcoholism		1	5

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	TABLE No. 2—Continued			
	Psychoses	Male	Female	Total
	ddiction	9	$1 \\ 14$	1 23 2
	y yphilis dorsalis	39 7	11	50 7
24 Primary beha	c encephalitis viour disorders: maladjustment		1	1
241 Sumple	Totals	331	256	587

TABLE No. 3

NATI	VITIE	S OF	PATIE	NTS ADMITTED, 1944			
Nativities	Male	Female	e Total	Nativities	Male	Female	Total
Canada	157	160	317	Ukrainia	5	1	6
Newfoundland	2		2	France	1		1
England	19	26	45	Germany	15	4	19
Scotland	16	7	23	Hungary	4	3	7
Ireland	3	3	6	Norway	7		7
Wales		1	1	Sweden	9		9
New Zealand				China	6		6
Australia	1		1	Denmark	4	1	5
India*	1		1	Holland	2	2	4
Trinidad	1		1	Bohemia	1		1
U.S.A.	39	26	65	Belgium	1		1
Austria	9	5	14	India*	1		1
Russia	4	5	9	Italy	1	1	2
Poland	14	7	21				-
Czechoslovakia	7	4	11	Totals	331	256	587
Findland	2		2				

#### TABLE No. 4

# AGES OF PATIENTS ADMITTED DURING 1944

AGES OF FAILENTS ADA	arr rr	D T	JOIN	110 10	14				
		first		Deer		minna		Tota	10
	Adr	nissi	ons	Re-admissions			1000	15	
Ages	M.	F.	Т.	M.	F.	Т.	M.	F.	Т.
Under 15 years	1	3	4				1	3	4
15 to 19 years	13	15	28	3	2	5	16	17	33
20 to 24 years	23	23	46	3	7	10	26	30	56
25 to 29 years	21	23	44	5	4	9	26	27	53
20 4 01 means	25	23	48	7	15	22	32	38	70
	38	21	59	12	11	23	50	32	82
35 to 40 years			32		14	23	34	21	55
40 to 44 years	25	1		.9	14				
45 to 49 years	25	16	41	13	1	20	38	23	61
50 to 54 years	24	16	40	8	8	16	32	24	56
55 to 59 years	19	6	25	6	4	10	25	10	35
60 to 64 years	12	7	19	4	3	7	16	10	26
07 L 00	9	7	16	1	5	6	10	12	22
	22	é	30	ŝ	1	4	25	9	34
70 and over			-00		-				-
Total	257	175	432	74	81	155	331	256	587

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DEPARTMENT OF PUBLIC HEALTH

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# DEPARTMENT OF PUBLIC HEALTH

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				00	5	63.	02.	06.	08.	09.	10.	11	13.		15.		17.	191	20.	22.	610	ä	

#### TABLE No. 7

# CLASSIFICATION OF DEATHS ACCORDING TO PSYCHIATRIC DIAGNOSIS, 1944

	Psychoses	Male	Female	Total
01	Psychoses with syphilitic meningoencephalitis (general paresis)	7	1	8
02	Psychoses with other forms of syphilis of the central nervous			
	system:			
00	023 Tabo-Paresis	1	****	1
03	Psychoses with epidemic encephalitis		****	
09	Psychoses with other infectious diseases		****	+
06	Psychoses due to drugs or other exogenous poisons			
07	Traumatic psychoses	****	****	
08	Psychoses with cerebral arteriosclerosis	7	3	10
09	Psychoses with other disturbances of circulation	i		1
10	Psychoses with convulsive disorders	1		1
	101 Epileptic deterioration	1		1
11	Senile psychoses	21	7	28
	114 Depressed and agitated	1	1	2
222	115 Paranoid types		1	4
12	Involutional melancholia			1
13	Phychoses due to other metabolic, etc., diseases	22		23
14	Psychoses due to new growth Psychoses associated with organic changes of the nervous system		1	3
15 16	Psychoses associated with organic changes of the nervous system Psychoneuroses			1
17	Manic-depressive psychoses	*		
**	171 Manic type	1	3	4
	172 Depressive type		1	2
18	Dementia Praecox (Schizophrenia)			
	182 Hebephrenic type		1	1
	183 Catatonic type	6	4	10
	184 Paranoid type		1	1
	185 Undefined	1	1	2
19	Paranoia and paranoid conditions	2	2	4
20	Psychoses with psychopathic personality			
21	Psychoses with mental deficiency		2	3
22	Undiagnosed psychoses			1
23	Without psychoses		3	5
	234 Mental deficiency 240 Acute excitement		1	1
	240 Acute excitement 243 Disturbance of circulation			î
24	Primary behaviour disorders			-
	Timiti's venusion disorders			
	Totals	65	34	99

# RECORD OF DEATHS DURING 1944

Registe	r		Time	e in Hos	pital	
No.	Sex.	Age.	Years.	Months.	Days.	. Cause of Death
11770	F	60		5	15	Broncho-pneumonia.
11948	F	69			23	Senile psychosis, chronic myocarditis.
6913	F	36	4	1	4	Pulmonary tuberculosis.
7177	M	33	8	2	22	Inanition and exhaustion.
11200	M	74	1	9	16	Chronic myocarditis.
11286	M	70	1	7		Carcinoma of prostate. Inanition and ex- haustion.
11926	F	64		1	20	Hyperthyroidism, acute myocarditis.
10022	M	78	4	1	6	Generalized arteriosclerosis.
11585	M	38		10	25	Pulmonary tuberculosis.
11750	M	76		7	1	Generalized arteriosclerosis.
12013	M	74			13	Septicaemia due to infected arm.
11997	M	63			25	Generalized arteriosclerosis.
12004	M	69			28	Chronic myocarditis.
12037	F	55		10	24	Uraemia and acute myocarditis.
7443	F	48	8	5		Tuberculosis of the lungs.
12044	M	78			12	Generalized arteriosclerosis,
12019	M	77		1	4	Broncho-pneumonia.
11890	F	70		4	5	Broncho-pneumonia.
5023	M	51	13	4	26	Chronic myocarditis.
10958	F	17	2	5	15	Idiopathic epilepsy.
11892	F	70		4	20	Broncho-pneumonia.
12029	F	44		1	17	General paresis of the insane.
12012	M	64			10	Myocarditis.
12074	F	73			22	Broncho-pneumonia.
11827	M	72		10	23	Generalized arteriosclerosis.
10712	M	79	2	11	17	Myocarditis.
831	F	73	28	8	8	Chronic myocarditis.
10829	M	37	2	9	18	Cerebral thrombosis, hypertension.
12107	F	50			27	General paresis of the insane.
11631	F	31	1		20	Inanition and exhaustion.
6568	F	77	9	11	13	Cerebral thrombosis.

# DEPARTMENT OF PUBLIC HEALTH

Registe	r		Tim	e in Hosp	oital	
No.	Sex.	Age.		Months.		. Cause of Death
12158	M	42		7	10	Broncho-pneumonia.
10918	F	44	2	1	28	Intestinal obstruction.
12104	M	69		1	12	Generalized arteriosclerosis.
12150	M	71			25	Broncho-pneumonia.
12178	M	72			15	Exhaustion due to psychosis. Infection of
						right arm.
12087	M	72		1	28	Fractured femur. Broncho-pneumonia.
10135	M	76	4	2	18	Pneumonia, senile psychosis.
1165	M	64	25	11	6	Myocarditis, congestive failure.
12200	M	63			7	Chronic myocarditis.
12021	M	16		3	22	Brain tumour.
12210	F	69		6	9	Broncho-pneumonia.
12212	M	32			5	Pneumonia.
12080	M	90		2	17	Broncho-pneumonia.
					8	Bilateral pulmonary tuberculosis.
12216	M	61	00	10		
2249	M	60	22	10	10	Myocarditis.
10358	M	64	3	8	19	Myocarditis.
12038	M	85	4010	3	26	Broncho-pneumonia.
12090	M	78		2	28	Gerenalized arteriosclerosis.
10553	M	88	3	6	5	Gerenalized arteriosclerosis.
12067	M	55	****	3	10	Exhaustion from mania.
12191	F	45		1	11	Pulmonary haemorrhage.
9734	M	71		5	15	Gerenalized arteriosclerosis.
4648	M	77	14	8	2	Myocarditis.
4818	F	60	14	3	3	Myocarditis, pulmonary tuberculosis.
12252	F	55			11	Myocarditis.
2014	F	49	23	9	7	Myocarditis.
3072	M	72	19	7	25	Myocarditis.
12089	M	58		5	9	General paresis of the insane.
8960	M	24	6	5	3	Congenital syphilis with epilepsy.
11207	M	18	2	2	23	Epilepsy.
7786	F	48	8 -	2	20	Pulmonary tuberculosis.
10183	F	36	4	3	15	Tuberculous meningitis.
1543	F	57	25	5	13	Coronary sclerosis.
12301	F	48				Psychosis with brain tumour.
					28	
12297	M	68	4.6.1.9			General paresis of the insane.
12173	M	86	2404	3	15	Generalized arteriosclerosis.
12292	F	63	++++	1	22	Anaemia, agranulocytic.
11961	M	67		8	9	Myocarditis.
6537	M	32	10	4	3	Tumour of pancreas.
6058	M	47	11	5	7	Chronic myocarditis.
12362	M	82			8	Cerebral haemorrhage.
10076	M	56	4	2	10	Broncho-pneumonia.
12376	M	74			13	Chronic myocarditis.
12350	M	75				Generalized arteriosclerosis.
12385	M	50			28	Generalized arteriosclerosis.
11187	F	82	2	5	26	Coronary sclerosis.
1196	F	89	27	2	26	Senility.
9741	M	75	5	ĩ	16	Generalized arteriosclerosis.
9021	M	72	6	9	1	Myocarditis.
12437	M	71		1	9	Myocarditis, hypertension.
12493	M	59	4.4.4.5	****	4	Myocarditis, generalized arterosclerosis.
10614	F	39	4	4	4	Pulmonary tuberculosis.
8362	M	77	7	10	9	Myocarditis.
3903	M	40	15		19	Inanition and exhaustion.
12447	M	74		1	13	Cerebral arteriosclerosis.
9675	F	43	5	7	25	Pulmonary tuberculosis.
12201	M	28		7	9	Acute rheumatic carditis.
12270	M	71		6	6	Generalized arteriosclerosis.
11506	M	62	2		3	Cerebral thrombosis.
			1	5	3	
11783	M	65	3	5		Cerebral thrombosis.
10864	F	81		3	2	Generalized arteriosclerosis.
9896	F	56	5	1	22	Chronic nephritis.
11972	F	66		10	4	Bilateral pulmonary tuberculosis.
11783	M	56	1	3	15	Broncho-pneumonia.
12378	F	66		2	3	Tuberculosis of the lungs.
12022	M	55		9	14	Exhaustion and inanition,
10486	M	80	4	ĩ		Chronic myocarditis.
12460	M				6	Broncho-pneumonia.

# PROVINCIAL AUXILIARY HOSPITAL, CLARESHOLM

# Movement of Patients.

In residence on January 14, 1944, there were 100 patients. There were three patients transferred from this hospital to the Provincial Mental Hospital, Ponoka; two were returned for medical reasons and one because she was disturbed and agitated. Three patients were discharged to the care of relatives, one patient was unimproved and the other two had shown some improvement before their discharge. There were five deaths during the year. Ten patients were

transferred to this hospital from the Provincial Mental Hospital, Ponoka. One patient was admitted voluntarily.

#### Accidents and Elopements.

There were no elopements. One elderly lady suffered a fracture of her right femur, but made a good recovery.

# General Health.

In general the health of the patients and staff has been good. There were four deaths due to degenerative conditions and one death due to cerebral thrombosis. One patient was transferred to the Provincial Mental Hospital, because of active pulmonary tuberculosis, and one was transferred to the Provincial Mental Hospital for surgery.

# Dentistry.

The dental work was carried out by Dr. Revell on his annual visit. The local dentist did the emergency work which was necessary during the year.

# Occupational Therapy.

Under the supervision of Mrs. E. Ermatinger, the Occupational Therapy Department continued to do excellent work. Miss E. Foxcroft took charge of this department upon the resignation of Mrs. Ermatinger at the end of October. A bazaar was held during October with gratifying results, over two hundred dollars being realized from the sale of work. The public has shown much interest in the work done by the patients.

# Library.

The patients continued to enjoy the books in the library. New books have been obtained from one of the book clubs. There are now nearly 400 volumes in the library.

#### Buildings.

A sun porch was built onto the infirmary for the use of elderly patients. Two single rooms were also added, and it is planned to have a bathroom off the infirmary. The members of the maintenance staff have co-operated to the fullest, and have endeavoured to maintain the buildings in a good state of repair during the year.

#### Religious Services.

Protestant Church services were conducted each Sunday afternoon by the local United Church and Anglican clergymen, alternately. Catholic services were conducted periodically by the local priest.

# Recreation and Entertainment.

Regular matinees at the local theatre were held twice a month. The patients enjoyed these shows very much, and the co-operation of the management of the theatre is greatly appreciated. The annual Sports Day was held during July on the hospital grounds. Many of the patients participated in the games and races with keen enjoyment. Refreshments were served and prizes provided for the various events. A weiner roast was held in October for the patients who assisted with the gardening. A Hallowe'en party and dance was held for the patients. Mrs. Lundgard and Miss Horton kindly provided music for the dancing and sing-songs, which were greatly enjoyed by all the patients. A party was held one afternoon for the patients who had assisted in the laundry, kitchen, etc. The choir of the United Church kindly presented their Christmas music on December 21st. This was enjoyed greatly by the patients. A Christmas party and dance was held between Christmas and New Year's for all the patients.

# Gardens and Grounds.

The vegetable garden was very good, and sufficient vegetables were obtained for the entire year. There was a large yield of crabapples, and these were preserved for use during the winter.

#### Dietetic Department.

This department, under the dietitian, Miss Harvey, continued to do excellent work.

# Staff Changes.

There have been many staff changes during the year. However, every effort has been made to maintain the standard of efficiency of the hospital.

#### Visitors.

Visits were made to the hospital by the Medical Superintendent of the Provincial Mental Hospital, whose advice was greatly appreciated.

The members of the Eugenics Board, as a Board of Visitors, visited and inspected the institution in November.

Relatives and friends of patients continued to visit the institution.

#### TABLE 1

MOVEMENT OF PATIENT POPULATION DURING 1944

	Male	Female	Total	Male	Female	Total
In residence January 1, 1944					100	100
Admissions:						
First Admissions:						
(a) Voluntary		1	1			
(b) Certificates						
(c) Warrant						
(d) Order						
(e) Transfers		10	10			
Re-Admissions:						
(a) Voluntary						
(b) Certificates						
(c) Warrant						
(d) Order						
(a) Transform						
(e) Transfers					11	11
					111	111
Discharged during the year:				****	***	
1 - 1 A						
(b) As businessed		2				
(a) An unformation		-	2			
		1	1			
(d) As without psychosis	****					
(e) Transferred to other Hospitals		3	3			
(f) Eloped	****	****	1111			
(g) Deported to other countries			****			
(h) Deaths		5	5			
	-	-		****	11	11
				-		
					100	100

#### TABLE No. 2

#### SHOWING THE PSYCHOSES IN THOSE ADMITTED, 1944

	Fe	male			Female
04 08	Psychoses with other infectious diseases Psychoses with cerebral arterio- sclerosis	1	18	Dementia Praecox (Schizophrenia): 181 Simple type 182 Hebephrenic type	2 5 20
09	Psychoses with other disturb- ances of circulation: 101 Epileptic deterioration	3	19	183 Catatonic type 184 Paranoid type Paranoia and paranoid	
11 12	Senile psychoses: 111 Simple deterioration Involutional melancholia:	2		conditions: 191 Paranoia 192 Paranoid conditions	
16	121Melancholia Psychoneuroses: 163 Neurasthenia Manic-depressive psychoses:	4	21 23	Psychoses with mental deficiency Without psychoses: 234 Mental deficiency	
17	172 Depressive type	2		Total	. 100

#### TABLE No. 3

CLASSIFICATION OF DEATHS ACCORDING TO PSYCHIATRIC DIAGNOSIS, 1944

No.	Cause of Death
6334	Schizophrenia, paranoid type.
5859	Schizophrenia, paranoid type.
135	Schizophrenia, catatonic ype.
9316	Senile psychosis, simple deterioration.
7896	Psychosis with cerebral arteriosclerosis, par-
	anoid reaction.

# PROVINCIAL AUXILIARY HOSPITAL, RAYMOND

# Movement of Patients.

On January 1st, 1944, there were 115 patients in residence. There were two admissions, two discharges and six deaths during the year.

# Accidents and Elopements.

There were no accidents of any consequence.

There was one elopement, when one of the patients determined to go down town for an interview with R.C.M.P. officials. She was returned to the hospital by the staff members upon receipt of a telephone call from the police. A search of the countryside was made. The same patient later tried to escape through a window for the same purpose, but was caught before she could leave the hospital grounds.

# General Health.

All patients and the staff were inoculated against typhoid fever in March. There were a few mild cases of dysentery among the patients and staff, attributed to intestinal influenza. The general health of the patients has been very good, and during the winter the patients received capsules of cod liver oil and minerals daily, which kept them free from colds.

#### Dentistry.

The hospital was visited by Dr. J. E. Revell, who examined all of the patients with teeth, doing the necessary fillings, extractions, etc. Several of the patients were fitted with new dentures, and some dentures were relined.

# Occupational Therapy.

The occupational therapy parlor for needlework, knitting, etc., has been open all year, and is a means of much benefit to the general behaviour of many of the patients. During the winter months especially it is well attended and appreciated. A sewing machine

has recently been added to the parlor's facilities, and it is planned to commence lessons in general sewing and dressmaking, which should interest some of the patients that are not interested in needlework.

A number of patients are delegated to work in the laundry, kitchen, nurses' home, and keeping the dormitories and wards clean. Two patients help in the sewing room.

From early spring to late fall many of the patients enjoy working in the vegetable and flower gardens, and the keeping of the lawns mowed and raked. This form of occupation keeps them in the fresh air and sunshine almost every day, giving them physical exercise that is not too strenuous. One patient devotes her time, winter and summer, to the chickens, seeing that they are fed and watered, and collecting the eggs.

#### Library.

We have had 40 new volumes added to the library. One volume is added each month by the subscription to the Dollar Book Club, and 30 volumes were added at Christmas time. Some magazines have been received from the Catholic priest and townspeople, which are much appreciated by the patients and are eagerly read.

## Religious Services.

The United Church minister from Magrath has held Church services every Sunday that the weather has permitted. The Catholic priest calls once each month.

## Recreation and Entertainment.

Twice each month the nurses escort about 60 patients down town to a special afternoon picture show. The pictures shown are the latest, and the patients look forward to them very much. They afford an ideal subject for impersonal discussion and keep the patients informed of the latest styles in clothing and hairdress.

Physical exercises and marches are conducted for those not too elderly. During the winter months these are of special benefit, as the weather does not always permit walks.

During the summer months all of the patients are taken out to the airing courts and often have their suppers served there.

There are two croquet sets on the lawns, and these are enjoyed especially by those patients permitted out on evening parole.

On St. Valentine's Day and on Hallowe'en a special lunch and party were held. The wards were decorated by the patients. At Christmas time the wards are decorated and Christmas trees are put up on the ward and in the O.T. parlor. A special party was held in the O.T. parlor for all patients who work, and a gift was given to each from the O.T. department. Just before Christmas, one of the women's clubs from Raymond came to the hospital and gave a concert for the patients. It was thoroughly enjoyed by the patients and consisted of piano, vocal solos and choir, also a play and recitations. At the end of the concert "Santa" came in with candy and ice cream.

In July, a Sports Day was held on the lawn. Various races were run and competition was keen. Prizes were provided by the hospital, and fresh fruit and ice cream were served during the afternoon, and supper was served on the lawn. There are two radios in the wards and also a piano. The patients who can play the piano are allotted hours when the instrument is at their disposal. Community song books are provided and often in the evenings the patients gather for singing.

When the weather permits and the staff is available, groups of patients are taken out in walking parties.

#### Staff Changes.

There has been a total of 18 staff changes during the year. The Assistant Matron is now serving with the Armed Forces Overseas. All staff vacancies were filled by local women, who are executing the hospital duties satisfactorily. Due to the shortage of graduate nurses, the position of Charge Nurse has been filled by a ward aide. The staff is now on an eight-hour schedule.

#### 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, made their annual visit. The Fire Inspection Board also made their visit of inspection. Mr. E. R. Nickalls of the Poultry Branch of the Department of Agriculture made periodic visits to inspect the poultry.

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

#### Alterations.

A private sitting room was furnished in the nurses' home for the matron. A doorway was cut between the two bedrooms, making a two-roomed suite. There were no other alterations made.

## Garden and Grounds.

The vegetable garden suffered another dry season, but aided by irrigation, enough vegetables were raised to supply the hospital needs for the year. The lawns and flower beds were quite a disappointment, there being no man available to tend them. It would be appreciated if a man could be hired in the spring for two months each year to trim the hedges, plant the flowers, trim the lawns and prune the trees. As it is, the grounds are looking worse each year for lack of care. If the grounds and flower beds were put in order each spring, the patients and staff members could keep the lawns mowed and the flower beds cultivated. A greenhouse for the raising of potted plants for the wards for the winter months, and also for the starting of vegetable and flower plants in the spring, is a real necessity.

#### Conclusion.

The general health of the patients has remained very good. Dr. J. S. Madill and Dr. J. Harris Walker are available in cases of sickness. For the most part, the patients are contented and happy, and the wards are well equipped and decorated, to be as pleasing as possible.

# TABLE No. 1

MOVEMENT OF PATIENT POPULATION, 1944

	Male	Female	Total	Male	Female	Total
In residence January 1, 1944					115	115
(a) Voluntary						
(b) Certificates		2	2			
(c) Warrant						
(d) Order						
(e) Transfers						
		_			2	2
					117	117
Re-Admissions:						
(a) Voluntary						
(b) Certificates						
(a) Wassant			dexe			
		****				
(a) Thomason	****	0110				
Discharges during the year:						
(a) As recovered	****					
(a) As improved		2	2			
(c) As unimproved		****				
(d) As without psychosis	****	****	1010			-
(e) Transferred to other Hospitals		****				
(f) Eloped		****	1000			
(g) Deported to other countries	4115					
(h) Deaths		6	6			1
		-			8	8
				-		
					109	109
In residence December 31, 1944					109	109

# TABLE No. 2

#### SHOWING THE PSYCHOSES IN THOSE ADMITTED, 1944

#### Psychoses

	Psychoses	Male	Female	Total
02	Psychoses with other forms of syphilis of the central nervous			
	system:			
00	021 Meningo-vascular type		1	1
08	Psychoses with cerebral arteriosclerosis Psychoses with convulsive disorders:		4	4
10	101Epileptic deterioration		1	T
	103 With arteriosclerosis		1	1
11	Senile psychoses:			
**	111 Simple deterioration		6	6
	115 Paranoid types		3	3
17	Manic-depressive psychoses:			
	171 Manic type		1	1
	172 Depressive type	-	5	5
	177 Circular type	++++	1	1
18	Dementia Praecox (Schizophrenia):			
	181 Simple type		1	- 1
	182 Hebephrenic type		19	10
	183 Catatonic type		21	21
19	184 Paranoid type Paranoia and paranoid conditions:		21	
15	192 Paranoid conditions		10	10
21	Psychoses with mental deficiency		9	9
22	Undiagnosed psychoses		ĩ	1
23	Without psychoses:			
	234 Mental deficiency		17	17
	235 Disorder of personality		1	1
		-		
	Totals		109	109

#### TABLE No. 3

# CLASSIFICATION OF DEATHS ACCORDING TO PSYCHIATRIC DIAGNOSIS, 1944

No.	Cause of Death
7939	Paranoid schizophrenia with deterioration.
3472	
314	Schizophrenia, catatonic type.
387	Schizophrenia, catatonic type.
11781	Senile psychosis, simple deterioration.
5933	

#### ANNUAL REPORT, 1944

# Provincial Mental Institute, Edmonton, Alberta

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

# GENERAL REMARKS

The patient population at the end of the year 1944 was 1,071. During the year, 139 patients were admitted; of these, 52 were first admissions, 2 re-admissions and 85 transfers from Ponoka, with only one case transferred from Red Deer. A total of 65 patients were discharged, of whom 28 died.

We had, at the end of the year, 137 mental defectives without psychosis, an increase of 11 patients.

Five patients eloped during the year; none of these were apprehended, and it is my impression that they all left the Province.

We have no cases of suicide or homicide to report.

## INSTITUTIONAL PROGRESS

The year 1944 saw the beginning of our Farm Dormitory. It was not completed at the end of the year owing to difficulties in labour and materials but, when complete, we hope to be able to accommodate from 110 to 120 patients or transfers from Ponoka.

We were unable to take any action leading to the opening of the third floor of the Women's Building because of shortage of staff. We did, however, open the second floor and arrange for additional transfers from Ponoka, so that at the end of the year our female population was 181.

We were fortunate in being able to obtain the services of Dr. F. B. Jordan, he being appointed to the staff September 1, 1944.

Proper accommodation for tubercular patients still remained in abeyance. This is unfortunate for, although we have made some provision for segregation, we are not able to properly segregate all of our T.B. patients.

The staff situation, while it eased somewhat, still remained serious. There were 110 appointments made, but 103 resigned.

Our population, while it continues to increase, remains essentially chronic in character. \*Once again, I would like to emphasize the importance of giving serious thought to the establishment of facilities for the carrying on of active treatment.

#### **Religious Services**

These have been continued as in previous years with quite satisfactory results and with an attendance which does not vary a great deal. We still have to use one of the day rooms of No. 1 Building, and as this has limited accommodation, we would like very much to see some action taken leading to the construction of a proper recreational hall where religious services could be carried on, together with other essential group activities.

# DEPARTMENT OF PUBLIC HEALTH

#### GENERAL HEALTH

There is nothing of a serious nature to report. A close check is being kept on the T.B. situation, and routine hospitalization for transient illnesses has been carried out. Our hospital ward, being, as I have previously intimated, a dormitory in No. 2 Building, has continued to meet our needs in a fairly satisfactory manner. However, we badly need a properly appointed admission ward as, under present circumstances, it is difficult to admit a male patient and properly segregate him until he is classified. With the placing of the institution on an active treatment basis, this need would be met.

Except for minor illnesses, the female population has given us little trouble.

# INSTITUTIONAL FARM

This work has continued quite satisfactorily, and while there are problems calling for attention, Mr. Shearer has been able to maintain a fairly adequate supply of milk for the institution. Additional stables are urgently needed, however, and the farm buildings are sadly in need of painting and repair.

From 15 to 20 of our patients have continued to be employed at the farm.

#### INSTITUTIONAL FINANCES

The net profit shown from the farm was \$9,547.68. Increased revenue from sale of milk was \$3,300.00; 652,670 pounds were produced, 140,000 pounds more than the previous year. This was all consumed by the institutional population.

We had a fairly good crop of roots and vegetables, and disposed of a considerable quantity of parsnips, carrots, turnips and cabbage, which netted some \$2,469.28. Mr. Murray, the Bursar, states the garden actually showed a profit of \$5,204.37 over salaries and expenses, the credit for which is due, for the most part, to Mr. Paton and his competent staff.

There has been a further increase in per capita cost from 70.2c to 74.6c.

#### CONCLUDING REMARKS

Again, I take pleasure in recording the utmost co-operation and cordial relationships existing between the management, the heads of departments and others of the staff during the year. This was in the face of continued difficulties incident to prolongation of war and our inability to secure adequate and competent staff.

The Department of Public Works has been most co-operative, and my appreciation is herewith extended to Mr. Cameron and to Mr. Muir, who have done everything possible to assure a high standard of institutional functioning and maintenance.

I extend to Mr. Murray and his staff my thanks for their loyalty and for the efficient way they have carried on in the face of many difficulties, especially those relative to increase of work.

I have long felt that in order to put this department on a proper basis a higher salary should be considered. We find it difficult to secure competent staff, as there are not many who wish to work so far out of the city, nor are they especially interested in living at the institution.

One other point: our office accommodation has now reached the stage where something should be done to relieve the situation. This is practically impossible under the present circumstances, hence the importance of giving serious consideration to the building of a proper administration unit.

The work of administration has been carried on, sometimes under great difficulties, but relieved towards the end of the year with the appointment of another medical officer.

The Guidance Clinic has been conducted in an efficient manner by Dr. Schrag, while I myself have been called upon to give a good deal of my time to the demands of the Police Court and similar activities. This work has continued to be of decided community value, and it is felt that a real contribution is being made toward solving many of the psychic problems which come before the court almost daily.

We still have had great difficulty in maintaining a proper nursing staff. As a matter of fact, we were practically 50% under strength throughout the year, and the work had to be carried on with a skeleton nursing staff and the assistance of such ward aides as we were able to secure. We have been fortunate, however, in being able to build up our ward aide staff with a group of young women who have shown not only considerable competency, but a real interest in their work.

Estimates submitted for the year 1945-46 called for additional construction, but unfortunately, the Government did not see their way clear to take any action leading to additional capital expenditure.

With the occupation of the Farm Dormitory and the third floor of the Women's Building, which should eventuate sometimes early in 1945, we will be at maximum capacity, and our population should then show approximately 1,200 patients. While we are not as congested as they find themselves at Ponoka, nevertheless, considering all the factors involved, I feel we would not be justified in admitting any more patients until a further building programme is undertaken. In this connection, I might say that first consideration should be given to an admission and treatment unit, a hospital unit and a nurses' home. Following this, further action leading to increased accommodation for additional chronic patients now in Ponoka would have to be made.

In concluding, I wish to acknowledge the co-operation of the Department of Health, and the sympathy extended by yourself and Dr. Bow towards our many problems. Many difficulties still await a solution, but I feel quite satisfied that, in time, these will not prove insuperable.

I refer particularly to the accumulation of non-psychotic mental defectives in our hospital, and to the fact that no action has as yet been taken which might lead to the probation of many of our more tractable patients who could, with nominal supervision, fit into community life again.

Then, too, the question of the senile patient is a serious one, and it also awaits solution. We endeavour to keep as many of these out of hospital as is possible, but there is always a fair percentage of the senile type of patient who are definitely cases for mental hospital care and should receive consideration because of that fact.

# DEPARTMENT OF PUBLIC HEALTH

# TABLE No. 1 MOVEMENT OF POPULATION

MOVEMENT OF FOI CLATION	Males H	emales	Total
Patients on books January 1st, 1944: In Hospital On Probation Elopements On Special Parole	. 15	109 4 1 1	967 19 3 8
Total		115	997
Admissions during year: First Admissions Re-admissions Transfers	34	18 1 58	52 2 85
Total		77	139
Total received during year: Transfers Re-admissions Warrant Voluntary Certificates Mental Defectives Act Total	27 1 20 1 7 6	58 1 5 4 9 77-	85 25 1 11 15 139
		-	-
Discharged during year: Recovered Improved Unimproved Without Psychosis Transfers	. 16 . 4	2 4 1	10 20 5 2
Died		4	28
Total			65
Patients on books end of year: In Hospital On Probation Elopements On Special Parole		177 3 1	1053 5 8 5
Total		181	1071
Total admitted since opening	. 1598	208	1806
Total discharged since opening	490	22	512
Total deaths since opening	365	6	371

## TABLE No. 2

NUMBER OF OFFICERS AND EMPLOYEES	Males	Females	Total
Medical Superintendent	. 1		1
Assistant Medical Superintendent	. 1		1
Medical Officer	. 1		1
Dentist (part time)	1		1
Bursar	1		1 C
Stenographers and Clerks	. 4	4	1
Night Supervisors		11	11
Graduate Nurses		12	12
Other Female Nurses	20		80
Male Attendants	1		1
TailorShoemaker			1
Occupational Therapists		1	2
Bakers and Cooks			7
Laundry		3	5
Gardener and Assistants			4
Engineers and Mechanics			14
Other Employees			14
Total	122	32	164

# NUMBER OF OFFICERS AND EMPLOYEES

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# ANNUAL REPORT, 1944

#### TABLE No. 3

#### PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION OF PATIENTS

	Males	Females	Total
Psychiatric: Patients Insane Epileptics (not Insane) Mental Deficiency (not Insane) Alcoholics (not Insane)	6 94	$\begin{smallmatrix}148\\1\\32\end{smallmatrix}$	$934 \\ 7 \\ 126$
Alcoholics (not Insane) Drug Addicts (not Insane) Neurosyphilitics (not Insane) All other types (not Insane)	1		1 3
Total	. 890	181	1071
Industrial: Industrial Workers Garden Workers	40	28	88 49
Internal Workers	. 366	44	410
Doing no work On Probation, Parole, etc.	401	105	506 18
Total	. 890	181	1071

#### TABLE No. 4

#### NATIVITY OF PATIENTS IN RESIDENCE

	Males	Females	Total		Males	Female	es Total
Canada	294	84	378	Japan	2		2
Australia	1		1	Norway	19	1	20
Austria	69	10	79	Poland	39	20	59
Belgium	3		3	Rumania	9	2	11
China	6		6	Russia	38	9	47
Denmark :	8		8	Scotland	26	8	34
England	97	11	108	Sweden	19		19
Finland	3	1	4	Switzerland	7		7
France	9	1	10	U.S. of America	118	15	133
Germany	29	5	34	Wales	8	1	9
Holland	1.1	1	2	Other Countries	31	7	38
Hungary	5	2	7	Unascertained	18		18
Ireland	21	3	24				
Italy	10		10	Total	890	181	1071

#### TABLE No. 5

#### CITIZENSHIP OF PATIENTS IN RESIDENCE

	Males	Females	Total	
Citizen by Birth	. 328	85	413	
Citizen by Naturalization	. 76	50	126	
Aliens	15 1 15	22	332	
Unascertained	10.00		35 165	
British Birth out of Canada		24	165	
Total	890	181	1071	

## TABLE No. 6 DENTAL REPORT

	Males	Females	Total	
Patients Examined	. 157	40	197	
Patients Treated		13	139	
Prophylactic Treatment	. 30		30	
Fillings	. 24	1	25	
Extractions	. 247	17	264	
New Dentures			10	
Dentures Repaired		perce.	4	
Denture Adjustments	. 4		-1	

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TABLE No. 7

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DEPARTMENT OF PUBLIC HEALTH

# ANNUAL REPORT, 1944

		AGE AT		ADMISSION		AND P	PRINCIPAL	PAL 1	PSYC	PSYCHOSES								1		
Psychoses	40	40 to 44	45	45 to 49		50 to 54	54	55	55 to 59		60 to 64	64	65	65 to 69	70	70 and over	ver	Unita	Unascer- tained	L
	M.	M. F. T.	M.	F. T.	M.	E.	Ë	M.	F. T		M. F.	. T.	M.	F. T.	M	H.	.F	M.	F.	÷
Traumatic			int.					-							ting.	-		ł		
Senile		and and	-		-	-	1	001		-	10	2	12	3 15	10	10	15	-		-
Cerebral Arteriosclerosis		1111 1111					-	00		02			N		2	41110	2	4114	-	
General Paralysis	10	10	9				1	~		~	:	0	1				****			
With Cerebral Syphilis								-		-						1				
			1	1	- tere		-									:				
																		-		-
With Other Brain Diseases			-			5	2	-		-	terre anno	-	-0.0			-	1111	-		-
Alcoholic	-	1					1000									tine.				inter .
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With Pellagra	- 4444						1111	-							1000		-			
With Other Somatic Diseases				1 1				-		-	1	-	i	tite inte	1110					
Manic Depressive	2	00	00			1	5	10		-			2		-		-			
Involutional Melancholia		ea 9													1111	-		1		in.
Schizophrenia	60	20 0	90	02 0	17	2		20 0		200								0		0
Paranoia and Paranoid Conditions	10	2 17	x				T	·			9		N						****	
Eputepuc Fsychoses	4.						-	-		-					****					
Psychoneuroses and Neuroses	-	1 2	alera /				-	1111												
Trith Mantal Dafisioney		0																		
Thdiagnosed		•	a		10	1	101	4										1	-	
Without Psychoses:																				
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Total	158	17 104	1 29	10 72		00	69	88	1-	39	28	2 30	19	4 23	18		53	1 -	1	1 -
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TABLE No. 7-Continued E AT ADMISSION AND PRINCIPAL

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TABLE No. 8

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DEPARTMENT OF PUBLIC HEALTH

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Psychoses         Traumatic         Senile         Cerebral Arterioscierosis         Cerebral Arterioscierosis         Cerebral Syphilis         With Cerebral Syphilis         With Stain Tumour         With Stain Tumour         With Other Brain Diseases         Alcoholic         Due to Drugs         Manic Depressive         Manic Depressive         Paranold Conditions         Paranold Conditions         Provolutional Melancholia         Personality         With Wental         Personality         Vittout Psychoses         Without Psychoses         Without Psychoses         Mithout Psychoses	Total F.	$\begin{array}{c c} & & & & \\ & & & & \\ & & & & \\ & & & & $
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	Psychoses	Traumatic Senile Cerebral Arteriosclerosis General Paralysis With Cerebral Syphilis With Brain Tumour With Brain Tumour With other Brain Diseases Alcoholic Number Brain Diseases Alcoholic Alcoholic Number Brain Diseases Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoholic Alcoho

TABLE No. 9 ENVIRONMENT OF FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES ANNUAL REPORT, 1944

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TABLE No. 10

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# DEPARTMENT OF PUBLIC HEALTH

USE OF ALCOHOL BY FIRST Total Psychoses M. F. T. M Traumatic Senile Cerebral Arteriosclerosis General Paralysis With Guerebral Syphilis With Brain Tumour With Brain Tumour With Other Brain Diseases With Other Brain Diseases With Other Somatic Diseases With Mental Deficiency With Wental Deficiency With Mental Deficiency With Mental Deficiency With Mental Deficiency With Wental Deficiency With Mental Deficiency With Wental Deficiency With Wental Deficiency With Wental Deficiency With Wental Deficiency With Wental Deficincy With Wental Deficiency With Wental Deficiency W	ADM	DNS, BY It T. I 1 1 1 1 1 1 1 1 1 1 1 20 2 1 2 1 2 2 1 2 2 1 2 1	PRINCIN Term M. M. Term 16 18 18 18 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	HOSES M. M. M. M. M. M. M. M. M. M. M. M. M.	S Intemperate F. 1 Intemperate	F 1004   1-00   14 1840 1-01   101	Unascertained M. F. 7 2 2 2 8 8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1	F	- F 400
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TABLE No. 11

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PSYCHOSES																													
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FIRST ADMISSIONS, BY PRINCIPAL		M.		-	-	C1	1		1				-		61	1	9	64							-	-			174
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MARITAL CONDITION		Psychoses	1. Traumatic		Cerebral Arterioscle	-	5. With Cerebral Syphilis		7. With Brain Tumour					With Other Somatic D		14. Involutional Melancholia	-				<ol> <li>Psychoneuroses Personality</li> </ol>			22. Without Psychoses:	A	D	······································	<b>F</b>	
												-	-	-	-	-	-	-	-	-	-		- 4						

TABLE No. 12

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DEPARTMENT OF PUBLIC HEALTH

	IOSES	Re-Admission
	PRINCIPAL PSYCHOSES	First Admission
2	AR, BY	
. TABLE NO. IS	DURING THE YEAR,	Total
	OF PATIENTS	
	INCREASE OF	

.

			Total		First	First Admission	sion	Re-	Re-Admission	ion		Transfer	H	
	Psychoses	M.	ы. Н	Ŀ.	M.	H.	H.	M.	F.	Ŀ.	M.	ы. Н	Ĩ.	
i	Traumatic						13		- inte					
Nic	Senile	īī	4	15	Ĩ	0	14					1	-	
· · ·	Cerebral Arteriosclerosis	10 0		100	61		64	1		1	64.6		ea e	
é 1		0		~		****		- 1011					2	
i.	Cereoral Syphills													
ó t	With Huntington's Chorea							-	- Anna					
- 0	With Brain Tumour						-							
óc	With other Brain Diseases	1			-		-				-	1.		
101	Due to Druge		1	1					+++		-	-	-	
11	With Pallagra													
- 61	With other Sometic Disease		1111								-	-		
13.	Manic Depressive	6	13	15	I.		0		I	-	T	11	12	
14.	Involutional Melancholia	-		1						•	•		1	
15.	Schizophrenia	18	37	22	10	4	6				13	33	46	
16.	Paranoia and Paranoid Conditions	60	01	10	63		63				1	63	3	
17.	Epileptic Psychoses	63	-	\$	1	1111	1				-	1	¢1	
18.	Psychoneuroses and Neuroses	1		1	1		-	. 444					4114	
19.	Psychopathic Personality		and a				in				1004		1	
20.	With Mental Deliciency	N .	9	×0,	1		1	****				9		
17	Undiagnosed	T		-			-				1	****	-	
177	Without Fsychoses.		1											
				•		4	4			****	***		****	
		10	12	22	-	6	16				0		9	
		01	1000	61	1		1				1		1	
		1	1	1	1	1	1	1	1	1	1	1	1	
	Total	62	17	139	34	18	52	1	1	63	27	82	801	

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					-								1						
		L	Total		Rec	Recovered		mpro	Improved	Ur	ami	Jnimproved	-	Trar	Transfer		Death	ath	
	Psychoses	W.	-	÷.	M.	F. T		M. F	H	M	E .	H		M. F	F. T.	M.	E4	H	• .
-	Traumatic																		
	Sanila	11	-	12				I	1 2			-	1						-
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	Cananal Davaluele		•														1		_
	Concharl Curbille	•		•															
	Cerebral Syphillis			- 100															
	Huntington's Chorea					1111 No.											-		
	With Brain Tumour	. ereste				A1111			-			-				:	-		
oó	With other Brain Diseases	100			1000												:		
	Alcoholic	1		-						-							-		
	Due to Drugs			- inter		eres eres											-		
	With Pellagra				1011				1			in aller	· · · ·	-	1000 1 1000				
	A	-		-	-	1			and the						acres acres			and min	
	Manic Depressive	10	01	-	~	01	10	1							ante - trate		1		_
	Involutional Melancholia									-									
	Schizophrenia	15	1	16	01	2	5	-	1 8		1	. 1		-			10	: 21	10
	Paranoia and Paranoid Conditions	4	1000	4			3	1											
	Epileptic Psychoses	63	-	3	-		1	1	-		mit / mit						-	-	-
18.	Psychoneuroses and Neuroses	. and		- inte							me pour	-					-		
	Psychopathic Personality	1	1011	1						-		+	100 V.	-			-		
20.	With Mental Deficiency	1	-	63			:	-	-	1		-	-			1		-	-
	Undiagnosed				1			-									-		
	A A A A A A A A A A A A A A A A A A A	1		1										1	1		-		
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			-	1	-		-	-		2							: 1		: 1
	Total	54	=	1 29	00	2 1	10	16	4 20		4	1 5		01	0	61	24	4	00
			-									1.1							

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

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DEPARTMENT OF PUBLIC HEALTH

CAUSE OF DEATH, BY PRINCIPAL PSYCHOSES,	PSYCH		HTIW	WITH AGE AT DEATH AND DURATION OF HOSPITAL LIFE	IOSPITAL	LIFE	
	C.	Total		Age	e	Hospital Life	
Psychoses	M.	ы.	T.	ath	rs Years	Months	Days
Senile	6		6	Hypostatic Pneumonia		2	
				Hypostatic Pneumonia 81	1	2	00 0
				neumonia	1010		13
				Bronchopneumonia		1	53
				Bronchopneumonia		10	****
				Terminal Bronchopneumonia 72	57	1	
				Chronic Myocarditis 79	-		6
				Chronic Myocarditis	00	9	
				Chronic Myocarditis 87		6	dette .
Cerebral Arteriosclerosis	¢1	-	c1	Bronchopneumonia 74	1	6	12
				Bronchopneumonia 77	9	7	
				Pneumococcal		6	7
General Paralvsis	T		1			00	30
Alcoholic	-		1			1	
Manic Depressive	1		1			10	
Schizophrenia	10		10			00	12
				peumonia		2	1
						10	15
				Pulmonary Tuberculosis 51		1	
						1	4
Paranoid and Paranoia Conditions	0		~	Furunculosis 61		10	23
				Chronic Myocardial Degeneration 82			17
				Chronic Pancreatitis		00	14
Epileptic Psychoses		1	1			4	
With Mental Deficiency			- •	Cerebral Haemorrhage 42	14		18
WIIIn Psychoses-E	4	-	0	Curonic Myocardius	25	00	10
				Bronchopneumonia 32	-	a :	16
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TABLE No. 15

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Total.

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# TABLE No. 16

#### RELIGION OF PATIENTS IN RESIDENCE

	Males	Females	Total
Baptists	24	3	27
Episcopalians	94	25	119
Jews	10	2	12
Presbyterians	82	13	95
Roman Catholics	214	47	261
United Church	82	17	99
Other Denominations	322	71	393
Unascertained	62	3	65
Total	890	181	1071

#### TABLE No. 17

# OCCUPATION OF PATIENTS IN RESIDENCE

Professional Commercial Agricultural Mechanics, Outdoor Mechanics	Males 4 26 271 17 39	Females 4 5 4	Total 8 31 271 21 39
Domestic Service	57	117	122
Miners, Engineers, Carpenters, Painters, etc.	60 346	1	61 346
Labourers No Occupation Unascertained	91 24	47	138 24
Total	890	181	1071

# EXPENDITURE AND REVENUE-ENDING MARCH 31st, 1945

Administration: Salaries	\$ 8,961.85
Telephone and Telegraph	00.00
Travelling Expenses	93.78
Printing, Stationery and Office Supplies	509.67
Postage	310.00
Advertising	938.00
	\$ 10,880.22
Less Sundry Revenue	58.08
	\$ 10.822.14
Professional Care of Patients:	\$144,488.21
Salaries Hospital and Medical Supplies	
Medical Services	
Clothing	
Travelling Exeposes	448.00
Newspapers and Periodicals	33.99
Smokers' Supplies	3.814.05
Entertainment	388.06
Church Services	315.00
Burials	
Grants	13.00
Cinema and Photographic Supplies	401.54
Less Sundry Revenue	\$169,726.29 206.55
Less Sundry Revenue	
	\$169,519.74
Occupational Activities:	
Salaries	\$ 2,607.02
Miscellaneous	39.66
	\$ 2,646.68
Kitchen and Dining Room:	
Salaries	\$ 10.902.18
Food	
1000	
	\$ 67,827.53
Add Vegetables from Garden	5,804.51
	\$ 73.632.04
Add Milk, Cream and Meat from Farm	16.176.20
	\$ 89,808.24
Add Bran from Farm	44.50
Aug man from Farm	
	\$ 89.852.74
Add Honey from Garden	
	\$ 90.085.74
	\$ 90,085.74

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# ANNUAL REPORT, 1944

Less Sundry Revenue		5,528	1.17
Less Groceries to Farm	\$	84.557 2.897	
	ş	81,659	).58
General House: Salaries		10.673	299
Repairs and Renewals to Equipment Laundry and Cleaning Sewing Room Bedding and Linen Crockery and Cutlery Kitchen Equipment Brooms, Brushes, etc.	*	376 3,170	3.65 9.86 .92 .87 2.08 2.46
Less Sundry Revenue	\$	19.354 1,107	1.64
Less Laundry (Farm)	\$	18.247 153	
	s	18,094	
Transportation: Salaries	\$	1.655	
Gasoline and Oil Repairs and Renewals Insurance		451 351 49	
	\$	2,507	.72
Garden and Grounds: Salaries Plants, Trees and Seeds Repairs to Equipment, etc. Miscellaneous	ş	6.009 346 489 14	.15
Less Sundry Revenue	ş	6,859 2,469	
Less Vegetables to Kitchen	\$	4.390 5,804	
Less Hay to Farm	ş	1,414 108	
Less Honey to Kitchen	\$	1,522 233	
Cr.	\$	1.755	.20
Stores: Salaries	\$	1,790	.00
Inventories: Stock on hand, March 31st, 1945 Stock on hand, March 31st, 1944	\$	30,931 28,462	
Cr.	\$	2,468	.93
Net Expenditure \$282.815.9 Hospital Days 379.84 Cost per Patient Day 74.4	9		

# DEPARTMENT OF PUBLIC HEALTH

# PROFIT AND LOSS STATEMENT

# EXPENSE

EAPENSE			
Inventories March 31, 1944: Live Stock Stores	\$16.827.00	\$35,291.05	
Inventories March 31, 1945: Live Stock Stores	\$15,715.00 18,267.73	\$33,982.73	\$ 1,308.32
Boarding House Buildings and Fences Drugs and Veterinary Supplies Dairy Supplies Expense Sundry Freight and Express Feed			3.384.49 68.25 224.11 223.42 150.92 15.19 756.10
Gas, Oil and Repairs Hardware and Implements Registrations Seed			958.17 1,128.56 20.00 81.60 123.98
Twine Wages Depreciation (Estimate) Net Profit			10.441-35 500.00 9.547.68
			\$ 28,932.14

#### REVENUE

Milk and Cream	\$ 14,425.15 7,562.56 36.60
Feed	2.622.84
Boarding House	70.00
Miscellaneous ,	83.82
Vegetables	4,131.17
	\$ 28,932.14

#### STATISTICS

Mutton Milk Production Pork Beef Grain	652,670 lbs. 27,070 lbs. 23,464 lbs.	Potato Production Turnips Beets Hay Ensilage	180.595 lbs. 22,980 lbs. 224 tons
----------------------------------------------------	--------------------------------------------	----------------------------------------------------------	-----------------------------------------

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#### ANNUAL REPORT, 1944

# 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.

#### Number of Patients in Residence.

The year opened with 276 patients in residence (146 male, 130 female), and closed with 273 in residence (142 male, 131 female). This, which was nine below our bed capacity, was due to five transfers and three paroles occurring in December, seven of them during the last few days of the year. The total number of patient days for the year was 102,584 as against 96,570 the previous year.

#### Patients—Incoming.

During the year there were 16 first admissions (11 male, 5 female), all voluntary, and five re-admissions (3 male, 2 female), a total of 21 admissions. The 16 first admissions grouped according to ability consisted of one idiot (a female), six imbeciles (4 male, 2 female), and nine morons (7 male, 2 female). One of the latter was actively insane at the time of admission and had to be transferred to the Provincial Mental Hospital, Ponoka. Of the five re-admissions, two males were poor workers and giving trouble, one male was returned owing to his poor eyesight, one girl who had been out a long time was becoming temperamental, the other on parole for the first time, had been in the Training School since early childhood, felt lonesome, and refused to co-operate in order to get back to the Training School.

# Patients-Outgoing.

There were 14 patients paroled (9 male, 5 female), seven transferred (all males), and three died (2 male, 1 female), a total of 24 outgoing.

Of the 14 paroled patients, five (3 male, 2 female) went to their own homes. One eloped and enlisted in Winnipeg. The other eight (5 male, 3 female) went out to work. Two of the latter were returned as unsuitable. One of this group had been 17 years in the Training School, another 16, another almost 16 and one well over 10 years. The seven transfers (all males) consisted of two patients sent to P.M.H., Ponoka (one insane, the other a dull, confused epileptic becoming irritable and uncertain in his temper), one sent to P.M.I., Oliver, and four chronic, persistent delinquents transferred to the Provincial Gaol at Fort Saskatchewan following the deliberate firing of the horse barn and pig pens.

Only two of these outging patients were imbeciles, the other 19 were morons. None were idiots. Figures like this, going on year after year, explain the great preponderance of imbeciles and idiots on the waiting lists.

Two of the three deaths were due to pneumonia and one to status epilepticus.

#### Types of Patients in Residence.

Reference to Tables 5B and 10 show relatively little change in the percentage of idiots, imbeciles and morons in residence; and the numbers of physically and mentally helpless, epileptic, and mongols.

#### Applications for Admission.

During the year, 50 new applications were received as against the 16 cases admitted. This brings the total on the waiting list to 323 (167 male, 156 female), compared with 273 (144 male, 129 female) at the end of 1943. Twenty-eight of these cases have been waiting admission for over 10 years, some as long as 18 years. The parents of these children have been paying taxes all these years for the benefit of those already admitted without getting any relief or benefit for themselves, and some of them are beginning to object. Then, too, the number of really very urgent cases keep increasing as the years go by and the Province grows. As a result, many defectives have to be admitted to the mental hospitals who should be coming to the Training School at a trainable age. This is unfair both to the patients and the mental hospitals.

# Number of Mental Defectives Now Definitely Ascertained.

In addition to the above 50 new applications for admission received during the year, 52 suspect forms were returned (27 male, 22 female), bringing the total to 466 (282 male, 194 female), as against 414 (225 male, 172 female) a year previously. We have therefore in the Province of Alberta a total of known defectives as follows:

In Residence: P.T.S., 1944 P.M.H., 1943 P.M.I., 1943 P.A. Hospitals, 1943 Awaiting admission Reported from Schools, Guidance Clinics, etc.	Male 142 16 50 167 252	Female 131 33 6 45 156 194	Total 272 49 56 45 323 466	
Reported from Schools, Guidance Chinics, etc.	627	565	1212	

This is an increase of 99 over last year's comparable figure of 1,113, and indicates the increasing magnitude of a problem that should be faced seriously. The indirect financial cost of neglected mental defectives (in schools, on public relief, in rescue homes, gaols, etc.) is probably already far greater than the direct cost would be of an aggressive policy of early detection, suitable placement, proper care and training, to say nothing of individual unhappiness and damage to the social structure of the Province.

#### Patients Sexually Sterilized.

During the year, eight patients (4 male, 4 female) were presented to the Eugenics Board and approved. The total of Training School patients sterilized since 1929 is 113 (52 male, 51 female). Of these, 86 have been paroled (42 male, 44 female), and the great majority are adjusting well and behaving well. A few who were sexually delinquent have reverted to their former status. Others similarly delinquent have not reverted, not because of the operation, but as a result of training, and some 20 are happily married. Of the 52 patients (7 male, 45 female) sterilized before admission to the Training School, 27 have been discharged (3 male, 24 female), and 25 are still in residence. Altogether, at the end of the year, 52 of the patients in residence (14 male, 38 female), or 19% of the patient population, had been sterilized either before or after admission.

#### STAFF CHANGES AND ACTIVITIES

The securing and retaining of staff was one of the big problems of the year. The turnover was almost 80%. Fifty-seven new staff were engaged and 51 left. Anyone who could work at all was taken on irrespective of age, and with little or no enquiry into character or ability. Naturally there were many misfits; some too young and immature, others lacking in character and personality, others not physically strong, others mentally incompetent. Most of these soon weeded themselves out, and despite our difficulties ward standards and efficiency were quite well maintained, and the staff as a whole loyal to the tradition and objectives of the Training School. To help maintain efficiency and give correct attitudes, lectures were given during the summer months to newcomers and summer relief –each set consisting of three lectures and demonstrations in Mental Deficiency, two lectures in Mental Hygiene, and 11 lectures and demonstrations in Practical Nursing, Hospital Housekeeping and Ethics.

The toll amongst the charge nurses was relatively heavy. One joined the Navy, two left to rejoin R.A.F. husbands in England, and one went to Normal School. Miss M. P. Loxam, for nine years Night Supervisor and a most valued and trusted employee, left soon after her marriage. Mrs. Vernon, Occupational Therapist, who had started the instruction in dressmaking and brought our classes to a new peak of interest and efficiency, left to take up occupational therapy for returned men under the Department of Veterans Affairs.

Eight of the senior nursing class graduated as mental deficiency nurses in April. At the end of the year there were eight juniors, eight intermediates, seven senior nurses and two senior attendants taking the regular classes.

The eight-hour day was inaugurated on April 1st. This meant an addition of four to the staff and the adoption of the "Block System" of lectures. A great strain on everyone and of very doubtful benefit.

In May a graduation banquet and ceremony for nine graduands was held in the Buffalo Hotel, with Dr. Bow as guest speaker. This was followed by a theatre party.

A number of enjoyable socials were arranged during the year by the Social Committee of C.S.A. of A. and P.T.S. staff.

Both the Victory Loans, with quotas set almost discouragingly high, were over-subscribed by small margins.

Apart from three cases of scarlet fever and two appendectomies, the health of the staff was, on the whole, good.

# HEALTH OF THE PATIENTS

In February there was a sharp outbreak of influenza, with 38 patients and six staff in bed at the peak of the epidemic. Two deaths from bronchopneumonia occurred. Earache was a prominent feature throughout with a few cases of acute otitis media and recurrence of many chronic intermittent otorrhoeas despite free use of sulpha drugs. In April, eight cases of scarlet fever occurred in the Old Infirmary. The epidemic spread slowly from ward to ward, with 13 cases occurring in the New Infirmary in June. Altogether there were 33 cases of scarlet fever during April, May and June, although all patients were Dick-tested at the beginning of the epidemic and five doses of toxoid given to all Dick-positive patients and five staff. In November, when two members of the staff went down with scarlet fever, 38 of the staff, all who had not had scarlet fever and had not been toxoided, were given five doses of toxoid and five were given reinforcing doses.

There were 13 cases of chickenpox in July and August.

In November and December a widespread epidemic of nausea, vomiting, headache, dizziness, moderate temperature and often diarrhoea affected many patients and 14 of the staff. Most cases had to be in bed for several days.

One epileptic sustained a fractured nose as the result of a fit.

An unnecessary number of burns, two of them severe, occurred in other epileptics from unguarded steam radiators.

One patient almost completely severed the end of a finger in a lawn mower. Incredible as it may seem, primary union occurred owing, I am convinced, to the use of sulphanilamide powder, applied locally.

Another patient, not so fortunate, completely severed the end of a finger down to the base of the nail in the bread slicing machine.

An appendectomy, a hysterectomy (for tumor), a case of Perthe's disease and spontaneous fracture of a humerus were other happenings.

There was the usual run of minor ailments and accidents. Altogether a busy year for an inexperienced staff, often much under strength.

For lack of a dentist, the Medical Superintendent had to pull 22 teeth for one patient, 23 for another, and one to several, for 92 other patients. Timely attention by a dentist would have saved most of the latter.

Twenty patients had their eyes tested and 17 provided with glasses, or had their glasses changed. All patients and staff were routinely protected against typhoid and diphtheria.

## PATIENTS ACTIVITIES

Patient activities were well maintained despite epidemics, staff shortages, institution of the eight-hour day and other difficulties and upsets.

The regular educational activities were carried on with average numbers in attendance—sense training and grade school classes, occupational therapy, dressmaking, cooking and carpentry classes.

On the character building side, Church services, Sunday school and C.G.I.T. were continued as usual, and in addition, Guides and Scouts were started again after a lapse of several years.

The usual health giving and recreational activities were maintained, with slight variation of the numbers in attendance: The New Year and Hallowe'en afternoon parties and evening dances; the Christmas concert; the Christmas trees; the Christmas afternoon party for high grade boys and girls; skating, ice hockey, walks, softball; the weekly picture shows; the summer camps (101 patients); the sewing class picnic (51 girls); the school children's picnic (30 pupils), etc.

Seventy-one patients (38 girls and 33 boys) attended the Red Deer Fair and enjoyed the grandstand and other attractions.

Many patients, individually or in small groups, were taken down town by various members of the staff or friends, shopping, skating, to picture shows, to Church services, etc.

Five of the Guides attended a special afternoon "Scout and Guide" service in May. In February, seven C.G.I.T. girls went to a banquet in Red Deer. In July, two of our girls, who were awarded scholarships, attended C.G.I.T. camp at Kasota Beach. In September, 14 of the Guides spent a very enjoyable afternoon in the convent grounds as the guests of the Mother Superior. Ten C.G.I.T. girls from Red Deer were the guests of the P.T.S. group at the Christmas concert, and seemingly enjoyed themselves greatly.

The boys had several good hockey games with outside teams.

The dressmaking classes shopped in town with the Occupational Therapist, and chose the materials for their own dresses.

Twenty-seven boys attended Easter Church services.

All high grade, ambulant patients did their Christmas shopping locally, going in moderate sized groups in charge of staff.

And yet there was a general feeling of unrest amongst the patients all year, and many problems of misconduct, due partly to some patients of the restless overactive, uninhibited, post-encehpalitic type, but more to the constant changing and the inexperience of the staff, especially the younger ones, who talked too familiarly with the patients about their own outside activities, and those who so lack poise and personality that they invited disrespect. The close proximity of the soldiers' camp was also a definite factor with the larger boys. Several older boys, persistently delinquent before admission, were particularly mischievous and troublesome—stealing, lying and repeatedly running away. Three of these in December set fire to the horse barn and later the pig pens. One farm boy, on the point of being discharged, in a fit of temper ran away and enlisted in Winnipeg. Two girls also eloped, with outside help, and are still at large at the end of the year.

Forty patients went for holidays at various times for periods up to one or two weeks. In four instances these holidays led to patients being paroled.

## INSTITUTIONAL PROGRESS

#### New Construction.

The hog barn, commenced during the fall of 1943, was completed in the spring, and later in the year a combined cook house and slaughter house (24'x26') for hogs was built just north of the hog barn.

The pasteurizing unit  $(20' \times 20')$  adjoining the carpenter's shop, commenced in 1943, was also finished, but not put into use for lack of some essential equipment. Nor has it yet been stuccoed.

A root house (12'x50') for turnips and mangels was hollowed out in the bank to the east of the cow barn by the gardener and his gang of boys, and the walls and ceiling were timbered with logs and posts cut by the boys from the farm dormitory.

The new unit for 50 low grade male patients (No. 9) was begun in March and finished about September, but could not be opened for lack of locks and some other essential items of equipment difficult to get owing to wartime restrictions.

As this unit blocked the road to the power house, a new road was cut, full width with deep ditches and about half a mile long. The large Public Works road grader was used for the purpose. Our own boys subsequently cindered it. This gives us an all-weather road for heavy traffic, and coal and other trucks no longer have to come through the grounds and between buildings.

## Maintenance and Improvements.

New hardwood steps and risers were put into the back stairs all the way from the basement up to the third or boys' floor, and new hardwood floors laid on all the landings.

In the lean-to of the horse barn, a cement floor (about 15'x30') was laid, a partition erected and mangers installed for the use of young stock.

A cement platform for the hammer mill was laid outside the cow barn, and the blower and piping fixed in place. In the loft of the barn the old chop and grain bins were taken out and replaced by a new one, the full width of the barn, 6' high and 10' wide, thus greatly increasing the storage capacity for chop.

Ordinary day-to-day repairs and routine painting both inside and out are now more than our present staff can handle. As a result, the whole place not only presents an air of dilapidation and neglect, but is actually deteriorating for lack of paint. The buildings at the camp were repainted, the walls but not the roof of the cow barn repainted, and the roofs of the smaller outbuildings retarred. But nothing has been done about the front verandah, which is sagging and dragging the main roof down—not even an investigation as to whether it is serious or not; nor about the third floor toilets, nor the farmer's house, etc., etc.

It is fully realized, of course, that these and many other items such as window guards and radiator covers for the main building will have to wait till the end of the war makes available both men and materials. It is well in the meantime to realize what the situation is.

### Garden and Grounds.

The grounds as usual were well kept and very attractive looking. The grass cutting, hedge trimming, tree pruning, the preparation, the planting out and the weeding of the flower beds, the care of paths and the fall clean up of the grounds kept a group of not very capable boys healthily and happily occupied all summer, and contributed greatly to the pleasure of patients, staff and visitors.

A similar, larger and even less capable group of boys, reinforced by the school boys during the summer holidays, cleared away the thick, tangled underbrush from about 2½ acres of timber north and east of the camp site, making it more parklike and less of a temptation to the public to come in, ruthlessly smashing their way through everything to tear out and drive away in their cars with "Xmas trees". This was also the group of boys which under close and constant supervision helped put in, weed and tend the kitchen garden, gathered and picked all vegetables and fruits as they came into season, and in the fall gathered 71 tons of potatoes, 17 tons of turnips, 7½ tons of parsnips, 10 tons of carrots, and 19 tons of other vegetables. Table 17A gives the garden yields for the past three years. Results are very much better than for 1943, compare favourably with and in a number of instances (e.g., potatoes 17 tons, parsnips  $7\frac{1}{2}$  tons, swiss chard  $1\frac{1}{2}$  tons, and rhubarb  $1\frac{1}{2}$  tons) actually better the yields of 1942, which was an above average year. A very dry, early spring was compensated for later by good moisture and growing conditions, but the excessive rain in August delayed ripening. This particularly affected the carrots (10 tons), most of which were cracked and all of which had to be gathered on the early side. As a result, they are not keeping well in storage, and loss before the new crop is available may run as high as 60%.

Green beans, peas and spinach were trucked to P.M.H., Ponoka, and there canned for us. We purchased from their cannery our winter's supply of canned fruits, which was a new and advantageous procedure.

# Farm.

Tables 17B and C give yields and production figures for the year (less crops shared) and the acreages, both our own and rented.

Ten acres of wild pasture were broken.

Not shown in the table is 25 tons of turnips and mangels grown for the farm by the gardener. This with the hay, green feed and grain yields shown, should give us enough feed for the dairy herd, which is our chief concern.

Milk production increased by approximately 32,000 pounds, and at 195,402 pounds is almost exactly double what it was two years ago. During the year we got rid of another six poor milkers, and bought nine good grade Holsteins. The bull also was replaced by a purebred Holstein, but without papers. At the end of the year we have 37 head of cattle—30 milch cows, 5 young calves, 1 beef steer and 1 bull.

We are still considerably short of producing all the milk which we should have for our growing children and invalids. As we are not yet pasteurizing our milk, we had to sell 28,970 pounds to the C.A.D.P. at wholesale prices, realizing only \$557.97, and then buy pasteurized milk from the creamery, retailing for \$4,016.56.

In January, the hogs were moved into the new hog barn, built largely of lumber cut on our own land by the boys, but pig feed had to be cooked in the open and hogs slaughtered and scalded in the open until the combined feed house and slaughter house was made available in the fall. No well has yet been dug as was hoped, and lack of water is a great drawback. There were 10,216 pounds of dressed pork delivered to the Training School for the use of patients and staff; 72 finished hogs, produced at an exceptionally low cost, were sold for \$1,060.55.

Egg production at 5,242 dozen was up 1,400 dozen over the previous year, but we had to purchase an additional 1,890 dozen at a cost of \$563.70. This expenditure will increase with the opening of the new 50-bed unit and the additional staff involved. A laying house for another 350 to 400 birds would soon pay for itself. In addition to the eggs last year, we had 307 pounds of dressed poultry for use in the Training School.

The turkey situation was quite satisfactory.

More cows and more hens to increase our supply of milk and eggs, more land of our own and a farmer's residence are still greatly needed. Renting on a crop sharing basis has paid the rentor handsomely, but it is not so profitable for us when we turn round and buy back what we have ourselves grown at a cost of over \$900.00. We must either purchase more land or spend money brushing and breaking our own wild pasture and the land around the lakes if we are to meet the needs of an increasing number of patients.

#### Laundry, Sewing Room, Kitchen, Dining Room.

These departments have been working at full capacity all year. The hot air drier installed in the laundry last year has relieved a lot of congestion. The mangel, second-hand 28 years ago, is very slow and inefficient. Thicker articles have to be passed through twice, sometimes even three times. The heating in the sewing room, in very cold weather, is unsatisfactory.

# OTHER INSTITUTIONAL AND EXTRA-INSTITUTIONAL ACTIVITIES AND EVENTS

In the early morning of the 8th of December the horse barn, a large, well built structure (35'x50') with a very useful leant-to for calves, was completely gutted by fire. Fortunately all the horses were saved, but almost 400 bushels of seed oats were lost. So well alight was the building when the fire was discovered, it could not have been saved even if water, under pressure, had been available.

Two nights later the loft of the new hog barn was found alight about 9:30 a.m. The City fire brigade (with help from the Army Service Corps camp and some of our own male staff), by fetching a couple of hundred gallons of water from the main water tower every time they ran short, finally had the fire subdued about 3:00 a.m. Part of the ceiling and most of the roof was destroyed. Had running water been available, the fire could easily have been put out when first discovered, with little or no structural damage to the building.

Suspicion which attached to three boys subsequently proved only too well founded. Two of these and another, who would have helped them had he been free to do so, had bad police records before being admitted. Unquestionably, earlier recognition of mental defectives with prompt placement in the Provincial Training School, if and when they fail to adjust in more than one foster home, would be better for them, for the taxpayers and the Government.

The Visiting Board spent a day inspecting the Training School in September. Eight patients (4 male, 4 female) were presented to the Eugenics Board in December, but not operated on by the year's end.

Three Guidance Clinics were held in Red Deer and three in Stettler. Again it was felt that several parents had been helped to understand the nature of their mentally defective or educationally retarded children's difficulties, thus leading to better all round family and school adjustment and happiness, and preventing the institutionalization which, till then, was considered the only solution of the problem.

As Acting Medical Officer of Health of the Red Deer Health Unit, the Medical Superintendent again enjoyed many interesting and stimulating contacts at the clinic, at conferences and on a couple of occasions in the field. A few extra-mural psychiatric cases were seen at the request of outside doctors or the R.C.M.P.

In April, six post-graduate nurses from Ponoka spent an afternoon seeing through the Training School, and a clinical demonstration was put on for them. Three R.Ns. from the Municipal Hospital and one from the Full-time Health Unit were also visitors.

#### RECOMMENDATIONS AND THANKS

Our needs are great—more kitchen space, larger refrigerators, a patients' exercise pavilion and recreation hall, a nurses' home, running water at the farm dormitory, more schoolroom space, more office space, more storage space, an elevator in the main building, another fire escape, etc., etc., etc.—but all these have been presented in detail in connection with the estimates. It is realized that there is a war on, and much as our limitations are hampering our work, much as we long for relief from all our irksome, time-consuming, back-breaking, salary-wasting restrictions and handicaps, we are, perhaps, no worse off than many other institutions and individuals, and in any case it is up to us loyally to do our best. And we have done so.

Some of the big, constantly recurring problems were shortages of staff, difficulties in securing staff, difficulty in arranging duty schedules owing to sickness, the eight-hour day, holidays and lectures, difficulties in getting absolutely essential clothing of all kinds, foodstuffs, cooking utensils and dishes. Victory loans, ration coupons and the greatly increased number of staff changes meant more office work, often with reduced office staff. And with Army allowances and steady earnings making it possible for parents to pay for patients, the correspondence about admissions reached an all time high.

The warmest thanks are due to the older and more permanent staff who have been a tower of strength throughout, been a rallying point for the better and more stable younger elements, and have helped us pull through our difficulties as well even as we have.

Thanks are also due to all those staff, many of them mere juniors, who took such a warm interest in the patients, took them out for treats, and in other ways treated them as human beings.

To the Red Deer Fair Board for admitting all patients free to the fair, to the Red Deer Rotary Club for gifts for the Christmas tree, to various individuals and groups of social workers for bundles of Christmas cards and scrapbooks, thanks should also be recorded.

A special thanks to Dr. F. E. Dodds, who realizing our difficulties, overworked as he was and at great inconvenience to himself, did a number of fillings for some of our high grade girls right away, though the public were booked up weeks ahead.

And, as always, to Dr. M. R. Bow for his warm interest and ready help, especially this year in connection with the graduation ceremony.

# DEPARTMENT OF PUBLIC HEALTH

## Table 1

#### MOVEMENT OF FEEBLE-MINDED POPULATION

Defending on books of to did direct a				Male	Female	Total
Defectives on books of institutions at Januar, In the Provincial Training School, Red D				146	130	276
ADMISSIONS: 1. First admission, voluntary 2. Re-admissions	Male 11 3	Female 5 2	Total 16 5			
Total number of admissions	_			14	7	21
Total number of defectives on the l	books	during 1	944	160	137	297
OUTGOING: 1. Paroles 2. Transfers 3. Deaths	Male 9 7 2	Female 5	Total 14 7 3			
Total number of out going			-	18	6	24
Defectives on books of the institutio	n at T	)ec. 31, 19	944	142	131	273

#### TABLE 2

#### RESPONSIBILITY FOR MAINTENANCE OF PATIENTS IN RESIDENCE, AT DECEMBER 31, 1944

LEE APROVIDED DI, ADTE		
	In Residence	Percentage
Wards of the Province of Alberta		9.5
Wards of the Municipal Districts of Alberta		73.9
Wards of the Department of Municipal Affairs of Alberta .		12.0
Private cases in Residence		.36
Wards of the Department of Pensions and Health, Ottawa		1.8
Wards of the Dominion Government		1.5
Unascertained	2	1.73
Total	273	

#### TABLE 3

# MENTAL STATUS OF FIRST ADMISSIONS, RE-ADMISSIONS AND TRANSFERS

	First Ad	imis	sions	Re-a	sions	Total			
Mental Status		F.	Т.	M.	F.	Т.	M.	F.	Т.
Idiot Imbecile Moron	47			12	2	1 4	59	$\begin{array}{c}1\\2\\4\end{array}$	$1 \\ 7 \\ 13$
Totals	11	5	16	3	2	5	14	7	21

# TABLE 4

#### NATIVITY OF ADMISSIONS, RE-ADMISSIONS AND OF PARENTS OF ADMISSIONS

	Male	Patient Female		Mal	Parents e Patier Female			Parent ale Pat Female	ients
Alberta	11	7	18	1	3	4	1	2	3
British Columbia	1		1						
Saskatchewan	1		ī				1		1
Ontario				3	1	4		1	1
Quebec			****		ĩ	1			
England				3	1	4			
Scotland				1	2	3	1	1	2
P.E.I.					ī	1			
United States					î	ī			
Poland					î	1			
Russia				1	î	2			
New Brunswick				1		ī			
Unascertained				2	- 1	3	3	2	5
Ukraine							ĩ		1
Austria								1	1
Ireland				1		1			
Germany	1		1						
Manitoba					1	1			
Nova Scotia				1		1			
Totals	14	7	21	14	14	28	7	7	14

#### ANNUAL REPORT, 1944

#### TABLE 5a

	AGE OF ADMISSIONS CLAS	SIFI	IED	WITH	REF	ERF	ENCE	TO M	IEN	TAL	STAT	US	
		Idiot			Imbecile		Moron			Totals			
	Age Group	M.	F.	T.	M.	F.	Т.	M.	F.	Т.	M.	F.	T.
5-			1	1	1		1	3		3	4	1	5
10-			****	****	1	2	3	1	1	2	2	3	5
15-1				****	1		1	4	1	5	5	1	6
40-4	14		****	****	1	****	1	1	2	3	2	2	1
30-1	11				_		1				_		-
	Totals		1	1	5	2	7	9	4	13	14	7	21

#### TABLE 5b

# AGE OF TOTAL POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS

	Idiot			In	Imbecile			Moron			Totals		
Age Group		F.	T.	M.	F.	T.	M.	F.	Т.	M.	F.	Т.	
5-9	7	7	14	7	3	10	3	3	6	17	13	30	
10-14	12	5	17	11	5	16	- 9	6	15	32	16	48	
15-19	9	7	16	14	12	26	11	12	23	34	31	65	
20-24	9	5	14	19	7	26	5	12	17	33	24	57	
25-29	2	7	9	4	6	10	2	6	8	8	19	27	
30-34	4	8	12	2	6	8	1	2	3	7	16	23	
35-39	4	2	6	3	8	11	1		1	8	10	18	
40-44		2	2		1	1	1		1	1	3	4	
45-49				1		1				1		1	
	-		-	-		-		-	-	-			
Totals	47	43	90	61	48	109	33	41	74	141	132	273	

#### TABLE 6

#### ENVIRONMENT OF ADMISSIONS

		I	diot		In	ibec	ile	Moron		
		M.	F.	Т.	M.	F.	T.	M.	F.	Т.
Rural Urban				1	$\frac{3}{2}$	2	3 4	45	$\frac{2}{2}$	6 7
		-	-		-			-	-	-
	Totals		1	1	5	2	7	9	4	13

#### TABLE 7

#### RELIGION OF ADMISSIONS

	I	diot		Imbecile			Moron		
Denominations		F.	T.	M.	F.	T.	M.	F.	T.
Presbyterian				1		1	3		3
United Church				1		1	2	****	2
Roman Catholic		1	1	1	1	2	1	- 84.54	1
Greek Catholic				1		T			
Baptist Non-Conformist			11.14	****			1		1
Soluction Army			Canal Contract		1	1	T	1	1
Church of England			1111		*	1	1	*	î
Greek Orthodox	****		****	1		-	1	1	1
Greek Orthodox		1011	2000		1111		10.00	*	

#### TABLE 8

#### ECONOMIC CONDITION OF FAMILIES OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS

	Idiot		In	bec	ile	Moron			
Economic Condition	M.	F.	Τ.	M.	F.	Т.	M.	F.	Т.
Comfortable				1		1	1		1
Marginal Dependent		1		3	1	2	2	1	3
Unknown							1	2	3
Totals		1	1	5	2	7	9	4	13

#### TABLE 9

#### OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

#### A-PAROLES

		In	ibec	ile	D	fore	n	Bor	derl	ine	Years in
Age	Group	M.	F.	T.	M.	F.	T.	M.	F.	Т.	Residence
15-19		1		1	4	2	6	1		1	1/10, 1/11, 1/8, 6/10, 4/7, 3/5,
20-24 25-29					$\frac{1}{2}$	$^{2}_{1}$	33				1/10, 10/8 9/1, 14/11, 3/6 17/3, 16/6, 4/6
	Totals	1		1	7	5	12	1		1	98/6

#### DEPARTMENT OF PUBLIC HEALTH

# OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

#### B-TRANSFERS

		beci	le	Moron			Years in		
Age Group	M.	F.	Τ.	M.	F.	Т.	Residence		
15-19	1		1	5		5	2/5, 0/10, 2/9, 1/11, 10/7, 0/8		
25-29	1		1				0/3		
Total	2		2	5		5	19/5		

#### OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

C-DEATHS

Cause	Age	M.	F.	т.	Years in Residence
Status Epilepticus	21/3		1	1	10/0
Bronchopneumonia (Unresolved mumps and trench mouth) Bronchopneumonia	5/1 19/8	1		1	$\frac{2/11}{2/6}$
Totals		2	1	3	15/5

TABLE 10

#### SOME OF THE TYPES IN RESIDENCE

	1	diot	t	Imt	bec	ile	Mo	rol	n		ota		
Classification	M.	F.	Т.	M.	F.	T.	M	F.	Т.	M.	F.	T. F	Percentage
Infirmary Type:			100								-		
(a) Physically Helpless	16	14	30	8	6	14	1		1	25		45	16.5
(b) Mentally Helpless	24	21	45	15	5	20				39	26	65	23.8
M.D. and Epileptic	13	11	24	8	3	11	8	9	17	29	23	52	23.8 19.7
M.D. and Pcychopathic				2		2		1	1	2	1	3	1.0
M.D. and Psychotic		1	1					1	1		2	2	.7
Mongols and Mongoloid		2	6	9		14	1	1	2	14	8	22	8.0
	-				-	-		-			-	-	-
Totals	57	49	106	42	19	61	10	12	22	109	80	189	69.7

TABLE 11

#### APPLICATIONS AWAITING ADMISSION

	Male	Female	e Total			Mal	e Femal	le Total
Applications dated: 1926 to 1934 1935 1936 1937	10 14 7	18 9 11	28 23 18 19	Applica 1941 1942 1943 1944	tions dated:	16 18 21 23	$     \begin{array}{r}       14 \\       16 \\       20 \\       27     \end{array} $	$30 \\ 34 \\ 41 \\ 50$
1937 1938 1939 1940	11 13 20	10 16 10	21 29 30	1014		167	156	323

#### TABLE 12

#### KNOWN DEFECTIVES

7	Male	Female	Total		Male	Female	e Total
Reported 1926 to 1934 Reported during;	72	63	135	Reported during: 1941		12	26
1935	10	7	17	1942		16	42
1936	18	5	23	1943		9	25
1937	19	14	33	1944		22	49
1938	16	16	32				100
1939	18	17	35		252	194	466
1940	16	13	29				

#### TABLE 13 EUGENICS SUMMARY

	Male	Female	Total
A.—TRAINING SCHOOL CASES: Presented and approved—P.T.S. Presented and approved—Out-Patients	62 1	67 1	129 2
Totals	63	68	131
Operations Paroled, Transferred, etc.	52 42	51 44	113 86
In Residence	10	17	27
B.—STERILIZED BEFORE ADMISSION Paroled, Transferred, etc.	73	45 24	52 27
In Residence	4	21	25
C.—TOTAL OF STERILIZED CASES Total of Paroled, Transferred, etc.	59 45	106 68	165 113
In Residence	14	38	52

D.-PERCENTAGE OF POPULATION-19.04%.

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# TABLE 14

#### STAFF-DECEMBER 31, 1944

Male	Female	e Tota	1 1	Male	Female	Total
Medical Superintendent 1		1	Gardeners	. 1		1
Medical Assistant	1	1	Farmers			1
Social Worker, voluntary	4444		Matrons		1	1
Dentists		1010	Asst. Matron and Surgery	1		
Teachers, Grade		1	Nurse		1	1
Teachers, Sense Training	1	1	Night Supervisors		2	2
Occupational Therapist	1	1	P.T.S. Graduate Nurses		0	24
Bursar (leave of absence)		1	Student Nurses Farm Dormitory	- 0	26	34
Stenographers	2	2	Ward Aides		-	ŝ
Clerks 1		ĩ	Boiler Room Staff, D.P.W.			6
Kitchen Staff	4	4	Maintenance Staff, D.P.W			3
Dining Room Staff	5	5	Night Watchman, D.P.W			1
Laundry Staff	3	3		-		
Sewing Room Staff	2	2		24	61	85

#### TABLE 15

## SEWING ROOM-SUMMARY OF ARTICLES MADE AND REPAIRED, 1944

Articles Qu	uantity			Article	s	(	Quantity
Aprons	104	Hand	kerchief	s			
Bibs	180	Knee	lers				
Blouses	12	Night					
Bloomers	237	Napk					4 10 100
Bedjackets	401	Pillo	v Cases				
Brassieres	51	Sleev	es				
Bedpan Covers		Towe	ls: Hand	d 312, T	'ea 244		
Bath Mats	14			\$			
Bags: Laundry 24, Clothes pin 2,		Short					
Duster 1					oning 9.		
Chemises			Bureau				
Coveralls	107		e Cloths				
Caps: Nurses 65, Dining Room 4	69	Table	e Centre	S			
Curtains	2						
Covers: Dressing 12, Hot water bottle	07				om 1, Ap		
3, mattress 10, pillow 10, press 32		WIISCO	maneous	5			01
Caps, Isolation	0.0.0	Total	number	. of ant	icles ma	da	4 690
Face Cloths					airs		
Garter Waists		Total	number	or rep	ans		55,510
Garter walsts	10						
			1939	1940	1941	1942	1943
Manufactured			3.764	4.794	5.705	3.623	3.334
Repaired			53.399	57,531	58,255	69,151	69,151

#### TABLE 16

#### LAUNDRY

ELL'ULLE					
	1939	1940	1941	1943	1944
Articles Laundered	351,923	335,244	398,846	466,174	463,118

#### TABLE 17a

#### GARDEN PRODUCE FOR HOME CONSUMPTION

Product		1942	1943	1944
Beans	lbs.	2.007	2.040	2,470
Beets	lbs.	9,000	5.600	7,000
Carrots	Ibs.	36,000	10.500	20,400
Cabbage	lbs.	7.500	7,200	8,000
Celery		900	695	750
Cucumbers		200	150	210
Cauliflower	lbs.	1.370	1,360	1,740
Lettuce	lbs.	1.655	1.790	1.877
Onions	The	1.000	600	700
Potatoes	The	126,350	84.000	142,000
Parsnips	The	8,000	8,500	15.000
Peas		2.475	2.780	2.640
Radish	lhe	425	425	564
Rhubarb	The	1.540	1.745	3.080
Spinach	The	2.225	1,655	4.768
Swiss Chard	lbe	1.655	2,810	3.000
Turnips		33,000	24,500	34.000
Vegetable Marrow			1,425	1,000

## TABLE 17b

# FARM PRODUCE FOR HOME CONSUMPTION

Product	1942	1943	1944
Barleybus.	330	1.150	900
Beef lbs. Eggs doz.	2,480	9 019	E 949
Green feed	18.500	2,694	17,100
Hay tons	10	70	75
Oatsbus.	3,675	2.252	195,402.6
Pork, dressed lbs,	5,235	9,142	10,216
Poultry, dressed lbs.	345	360	307
Wheat bus.	900	595	704

# TABLE 17c

# ACREAGES

Barley Green feed		Summer fallow Potatoes	
Hay Oats		Vegetables Wheat	4
Wild Land Pasture, wild	265	Camp and Barns Gardens and Lawn	14
Pasture, tame			10

# TABLE 18

# HOME CANNING

From Children	-
Wasseshing Manuary	Q
am, Vegetable Marrow	
ickles, Bean	
Green Tomato	
Mustard Cauliflower	
Beet	
Sour Cauliflower	
	-
Cucumber	

# STATEMENT OF REVENUE AND EXPENDITURE For the Year ended March 31, 1945 REVENUE

261

\$ 45,589.88

Patients' maintenance charges	\$ 50,166.00
Less: Charges to indigent patients and uncollectible charges	4,576.12

#### EXPENDITURE

EXPENDITURE		
	•	Cost per Patient Day
Administration	\$ 9,620.87	\$ .095
Professional care of patients	62,111.73	.611
Kitchen and dining room	28.137.42	.277
Occupational activities	4,288.18	.042
General house	10.720.97	.105
Stores expense	974.01	.010
Transportation	610.03	.006
Farm operation	4,158.76	.041
Vegetable garden	1,403.50	.014
Improvement of grounds	437.04	.004
Upkeep of buildings and power house expense	34,629.76	.340
	\$145,967.75	\$1.435
Total Expenditure	\$145.967.75	-
Cash collected	45,589.88	
Net Cash to Province	\$100,377.87	\$ .987

# Division of Tuberculosis Control

The year 1944 saw a marked increase in the diagnostic services of this Division. Coupled with this was the very definite interest manifest throughout the entire Province in the prevention, diagnosis and treatment of tuberculosis.

Limitations resulting from the war have delayed the building of the new Sanatorium in Edmonton, which was forecast last year, but it is hoped that this essential development will materialize in the near future. This extra sanatorium accommodation is needed more than ever, since the extension of diagnostic services has very noticeably increased requests for treatment.

In an effort to meet this growing need, alterations to the Central Alberta Sanatorium have added 21 beds in a Surgical Unit, for those requiring operative treatment. The new building started last year has been completed and will shortly be occupied, adding another 50 beds. In Edmonton, a few more beds have been made available, so that Alberta now has 500 beds especially set apart for the treatment of pulmonary tuberculosis. The total now approaches the required minimum of three beds per annual death, provided the Treaty Indian population be excluded. However, it should again be stated that the services being supplied are not as complete as will be possible when more modern buildings are provided.

# Diagnostic and Follow-up Clinics.

Of primary importance has been the Mobile X-ray Unit provided by the Alberta Tuberculosis Association from the Christmas Seal Fund. This unit has visited many places throughout the Province, and 60,186 people have been X-rayed and 861 new cases of probable tuberculosis have been discovered.

A second unit has been ordered, and will be in operation in 1945.

The Stationary and Travelling Clinics have been operated with gratifying results. Surveys have been conducted by several organizations.

All told, approximately 69,848 residents of the Province have received free diagnostic procedures through this Division. This splended accomplishment has been made possible by the generous assistance of voluntary organizations, and by the widespread interest of the citizens in stamping out tuberculosis.

In 1943 these examinations totalled 20,716, while this year more than three times as many people have been served. Next year should show another advance in bringing these diagnostic services to Alberta citizens, and in the discovery of still more points where preventive work is essential.

CLINIC 1	REP				D				
	Sessions	New Cases of T.B. Pulmon- Non-Pul-							
Place	Sess	a	σ	mor					
	of	Active	Inactive	Active	Inactive	New Exams.	Review Exams.	tal	
STATIONARY CLINICS:	No.	Act	Ina	Act	Ina	Ne	ReEx	Total	
Calgary Camrose		11	41 1			255 60	121 35	376 95	
Central Alberta Sanatorium Drumheller	51	52 3	87	1	2	551 87	662 96	1213 183	
Edmonton Lethbridge	225	86 8	197 20	15	5	1228 217	997 147	2225 364	
Medicine Hat		64	5 8			66 76	74 100	140 176	
Red Deer	2					7	3	10	
and an addition of the second strength	357	170	364	16	7	2547	2235	4782	
TRAVELLING CLINICS:	1		1			2	4	6	
Athabasca Berwyn		 1	1			4 35	2 14	6 49	
Edson Fairview	1		2			57	1 34	1 91	
Grande Prairie Hanna		- 1				2 62	222	4 84	
High Prairie Jasper	1	5	5			1 10	2 12	3 22	
High River McLennan	1	2	$^{2}_{1}$			4	14	18	
Notikewin Peace River	1					18	14	32 19	
Pincher Creek	1		1			9	10	1 26	
Spirit River St. Paul	1					16 23	10 4	27	
Vegreville						2		3	
A STATE OF THE AND A STATE OF THE ADDRESS OF THE AD	17	9				246		393	
					ľ	lo.	No.	New	
SCHOOL SURVEYS: Stettler		Tested	Posi	tive	X-r	ayed		ases	
Calgary Normal School Edmonton Normal School	:	211 155	22	9	2:				
OTHER SURVEYS:		100	-						
Medicine Hat Keg River		115	2	5	44				
		481	7	7	10	7			
		N.	-	-					
		X-ra				Cases			
				Puln			-Pul- nary		
		ol	ol	e.	tive	ve	Inactive	lyed	
		School	Non- School	Active	Inactiv	Active	nac	No. X-ra	
INDIAN SCHOOL SURVEYS:			30	9	н 2			220	
Blockfoot Indians, Gleichen (2 schools) Blood Indians, Cardston (2 schools)		190 275	37	53				312 123	
Blue Quill School, Saddle Lake Ermineskin School, Hobbema Indian Residential School, Morley		123 128	5	13 2	2			128 98	
Peigan Indians, Brocket (2 schools)		93 92		5				92 53	
Sarcee Indians, Calgary		53	72	37				1026	
		954	-	-	-		-		
MENTAL HOSPITALS: Ponoka:	No	X-Ray	ved	Pul.		ew Ca	ses ul. Ina	ctive	
Patients Staff		459 329	22200	1	1		3		
		788		1	-		3		
Oliver: Patients		74			-		23		
Staff		2			-		1		
				-	-		-		
		76		3	8		24		

24 27

-

49

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864

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Total

CT INIC REPORT

# SUMMARY-CLINICS AND SURVEYS

			New Case	es T.B. Fo	ound	
	No. Sessions	Pulm	onary Inactive	Non-P Active		Total Exam.
Stationant Ollalas					inactive	& Surveyed
Stationary Clinics	357	170	364	16	7	4782
Travelling Clinics	17	9	14			393
School Surveys	3		****			370
Other Surveys	2					155
Indian Surveys	7	37	4			1026
Mental Hospitals		49	27			864
C.A.S. Staff		****				258
	386	265	409	16	7	7848

# MOBILE X-RAY UNIT, 1944

	pa		culosis oably	p	ted	
Survey	X-rayed		0	No. Advised Admission	No. Admitted	Further Exam. Requested
Survey	-	ę	ive	Ndv	dr	lest
		Active	Inactiv	Im.		urth
	Ň	Ac	P	Ac	Ň	ReEX
Alberta Nitrogen Plant	340	2 (1 R)	12 (1 R)	1	1	3
Andrew Burns & Co., Ltd., Edmonton	2,496 480	5 2	28 (1 R) 17	3	2	12 4
Chauvin		4	3		****	4
Canada Packers, Edmonton	733	3	18			5
Chipman Calmar	973	6	24	+121		2
Calmar Calgary Civic Employees	1,579 863	****	6 13 (2 R)	****		4 10
Calgary Brewing & Malting Co.	319	8	4			7
Calgary Public	2,736	8 (2 R)	27 (7 R)	3	1	73
Calgary Industrial Groups C.P.R. Shops, Calgary	1,353 276	5 (2 R) 1	22 (2 R)			28
Didsbury	665	1	6 5 (2 R)	****	****	5 14
Drumheller	3,100	7 (1 R)	29 (8 R)	4	3	44
Edmonton	6,537	12	101 (10R)	3	2	25
East Coulee Fort Saskatchewan	712 712	3 2 (1 R)	17 12	2	2	15
Holden	1.524	2 (1 R) 2	12 (1 R)	1	1	2
Hairy Hill	765	2	3 (1 R)			4
Hobbema	63		1			
Hudson's Bay Co., Calgary Hanna	419 1.053	10 (1 R) 5 (2 R)	6 (1 R) 10 (3 R)	4	2	16
Innisfree	771	5 (2 R) 1	10 (3 R) 6 (1 R)	12	1	11
Irma	612		2 (1 R)			1
Leduc	2.044	1	10	1	1	4
Lamont Myrnam	2.471 1.298	13 (4 R) 1	46 (1 R)			11
Manville	834	2	15 (4 R) 13			1
Mundare	2,198	9 (2 R)	39	2	2	9
Mount Royal College	211	1		1		6
Oliver Ogden Munitions	932 1.025	18 3	57 17 (4 R)			12
Olds	748	1	7 (4 R)	1	1	24
Ponoka Mental Hospital	1,426	22 (8 R)	19 (14R)			18
Ponoka	1,013	5 (2 R)	16 (2 R)	1	1	22
Ryley Swift Canadian Co., Edmonton	848 902	3	2 24		****	11
St. Mary's High School, Calgary	312	0	1 (1 R)		****	11
Thorsby	1,703	1	10 (1 R)	1	1	3
Tofield	1,811	2 (1 R)	8 (1 R)	1	1	4
T. Eaton Co., Calgary Vermilion	301 1.498	$\frac{2}{4}$ (1 R)	2 13	1	1	8
Vegreville	2.620	4 (2 R)	40 (8 R)	-		1
Viking	1.254	3	7	3	2	2
Two Hills	1.384	8 (2 R)	11			3
Willingdon Wainwright	1.063 1.079	3	10 6 (1 R)	1	1	2
Western Canada High, Calgary	1.542		11 (3 R)			40
				-		
	60,186	191 (32R)	768 (76R)	38	26	479

# (R): Cases discovered previously.

# New Cases of Probable Tuberculosis.

The total number of new cases of probable tuberculosis discovered by this Division was 1,558, compared with 581 in 1943. This figure included both active and inactive cases. It is not to be assumed that this disease is on the increase, but rather that since the examinations were increased threefold, the new cases discovered were likewise increased.

# Cases Reported as Definitely Tuberculous.

It has been our policy to report as tuberculous only those whose diagnosis has been established by further examination following X-ray. Here are included also those diagnosed by private physicians and referred directly for sanatorium treatment. The established diagnoses numbered 844, as compared with 655 in 1943.

Active Pulmonary Tuberculosis	395	46.8
Inactive Pulmonary Tuberculosis	418	49.5
Non-Pulmonary Tuberculosis	31	3.7
Total	844	

The following table gives the classification of 813 cases of Pulmonary Tuberculosis on discovery, and shows that the majority of the cases were discovered in a minimal or moderately advanced stage:

Minimal Pulmonary Tuberculosis Moderately Advanced Tuberculosis Far Advanced Tuberculosis	$502 \\ 207 \\ 104$	61.7 25.5 12.8
Total	813	

# Importance of Follow-up Work.

In order to stamp out tuberculosis, it is not enough to stop with the finding of a new case. Questions arise: Can the source of the disease be found and is it possible that the contacts of the patient have contracted the disease? Out of 1,718 known contacts, 811 were examined, namely 47.2%. With additional facilities and attention it is hoped to improve on this search.

# Services Rendered to Hospitals and Physicians.

The Sanatorium Laboratory has carried out the following work on out-patients, without charge to either hospital or physicians:

Sputum Examinations:	1000
Positive	77
Negative	476
Urinalysis	105
Pleural Fluids	29
Guinea Pig Inoculations	116
Other Tests	64
	-
Total	867

The regular mailing list for tuberculin was as follows—Monthly: Clinics and Health Units 12, Hospitals 12, Doctors 15; 709 bottles mailed.

In addition, 89 bottles of tuberculin and 1,632 patch tests were sent out on miscellaneous requests.

# Interpretation of X-ray Films.

Radiographic interpretations were made and sent out on 1,814 films referred.

# Services Supplied to the Federal Government.

During the fiscal year the Department of Veterans' Affairs referred for treatment, 126 patients. It has been a pleasure to have been able to take part in the care of disabled members of the Armed Forces.

Other patients referred by the Department of Mines and Resources numbered 27.

# Tuberculosis in the Indians.

As in former years, in co-operation with the Department of Indian Affairs, the staffs and pupils in the accessible residential schools have been X-rayed and treatment given where possible. The death rates among the Indians and Metis still remains very high. These groups, which represent a minority in the Province, accounted for 52% of all deathes from tuberculosis last year. Alberta needs sanatorium accommodation for these people, and it is gratifying to note that definite steps are being taken to provide it. We shall welcome a sanatorium for Indians as a contribution to the health of this Province by the Department of Indian Affairs.

# Treatment.

1. Institutional.—Sanatorium care was given to 411 people. Major or minor surgical procedures carried out on residential patients numbered 8,175.

2. Out-Patients.—Pneumothorax treatments given to non-resident patients at our four institutions numbered 2,668. Pneumothorax treatments were given at seven other points to former patients who are now living at home.

# Educational Work.

Tuberculosis literature has been distributed from clinics and from the Mobile Unit. Literature has been sent to schools upon request.

Radio talks and lectures to various groups have been given. Student nurses have received courses of instruction, and in Edmonton this service has been made available to medical students.

# The Alberta Tuberculosis Association.

This voluntary organization has continued its good work, and to it is due much of the interest aroused throughout the Province. Mobile Units, as mentioned above, have enabled this Division to X-ray many people. Through its splendid publicity programme, it has brought information from time to time through the press and over the radio.

Mr. Dickey, the Secretary, has been active throughout the Province in addressing numerous groups and organizations.

This Division and the entire Province is indebted to the Association for the very concrete assistance afforded numerous patients in occupational therapy, as well as in the rehabilitation of those able to engage in remunerative occupations. The cured patient, in many instances, requires assistance in getting back to normal living. I am glad to commend the Association for the valuable work it is doing.

# Administrative Section.

The total operative expenditure of the Division for the fiscal year ending March 31st, 1945, was \$436,759.18.

Payments for pneumothorax treatments to out-patients amounted to \$3,140.00.

The Diagnostic Clinic service cost \$8,530.49. This money was paid to hospitals and X-ray laboratories throughout the Province for X-ray service.

The Mobile Clinic accounted for \$13,010.31.

The gross per diem patient day cost at the Central Alberta Sanatorium was \$2.99, an increase of 23c. This increase was accounted for chiefly by increase in salaries and wages, and to some extent by general increase in prices.

The net per diem cost to the Province was \$2.28.

At the Central Alberta Sanatorium, 320,063 meals were served at a food cost of 16.16 cents, as compared with 15.81 cents last year.

# Future Plans.

- 1. The establishment of a modern sanatorium in Edmonton.
- 2. As soon as possible, to bring the non-pulmonary cases of tuberculosis under The Tuberculosis Act.
- 3. To make full use of the two Mobile Units in 1945.
- 4. As soon as possible to increase the medical staff, so as to amplify the work done by the Mobile Unit as well as in the institution.
- 5. To co-operate fully with all agencies engaged in anti-tuberculosis work.

# Acknowledgements.

In presenting this report, I wish to acknowledge the valuable assistance and guidance given throughout the year by the Honourable the Minister, Dr. W. W. Cross, and by Dr. M. R. Bow, Deputy Minister. Whatever progress has been made, was possible through their co-operation.

The accomplishment of essential work and the great increase in diagnosis throughout a year of war-time restriction of staff, has been possible only through the loyal support of all members of the staff, both at Edmonton and Calgary. Long hours and extra work have enabled the Division to report progress.

I wish to thank the superintendents and staffs of the Edmonton General Hospital, the Royal Alexandra Hospital, and the University Hospital for the care given our patients, and for their interest in furthering this work.

The statistical section which follows summarizes the work as conducted at the Central Alberta Sanatorium, the Edmonton General Hospital, the Royal Alexandra Hospital, and the University Hospital.

## STATISTICAL SECTION

Patients under treatment Jan. 1, 1944 Patients admitted, 1944 Patients transferred in	(5) 200 Central (5) 200 Alberta Sanatorium	(8) 251 Edmonton 252 General Hospital	Royal See Alexandra Hospital	University	556 Total
Patients discharged and died in 1944 Patients transferred out	(4) 373 175 (3)	(8) 288 145 (15)	$(6) \\ \overline{70} \\ 38 \\ (5)$	(7) 36 23 (2)	767 381
Remaining in Hospital, Dec. 31, 1944	199 74,139	136 48.917	33 12.139	18 7.571	386 142,766

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
No disease		5	5
Undiagnosed	1	4	5
Non-Tuberculous	7	4	5 5 11 10
Tuberculosis, Inactive	8	2	10
Non-Pulmonary Tuberculosis	ĩ	5	6
Tuberculous Pleurisy	10	6	6 16
Childhood Tuberculosis Pulmonary Tuberculosis:	2	3	5
Minimal	17	38	55
Moderately advanced	59	75	134
Far advanced	61	61	122
			0.00
	166	203	369
		110	010
Sputum positive on admission	106	110	216
Sputum positive later	4	2	147
Sputum negative persistently	56	91	141
	100	000	200
	166	205	505
The advertised area	05	37	63
Re-admissions	25	51	0.5

# DIAGNOSIS ON ADMISSION OF 369 PATIENTS WHO ENTERED SANATORIA IN 1944

# OPERATING ROOM REPORTS

OPERATING ROOM		115			
	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
SUMMARY OF PNEUMOTHORAX CASES:					
Under treatment Jan. 1, 1944 Cases begun during 1944 Cases under treatment admitted and car-	$134 \\ 65$	109 39	$13 \\ 12$	8	256 124
ried on	22	9			31
Cases treated	221	157	25	8	411
Number discontinued	77	54	6		137
Under treatment Dec. 31, 1944	144	103	19	8	274
No. unsuccessfully attempted	16	24	4	1	45
REFILLS GIVEN:					
In-Patients	3.800	2.748	267	136	6.951
Out-Patients	1,100	1,414	150	4	2,668
Total	4,900	4,162	417	140	9,619
Intravenous Injections	204	132	74		410
Intramuscular Injections	173				
THODACODI ADTIES.				-	-
THORACOPLASTIES:	14				
1st Stage (16 cases) 2nd Stage	14				
3rd Stage	13				
4th Stage	- 3				
5th Stage	4				
on onge		Stoner			
	49	Stages			
Phrenicopraxis	15	3			18 40
Pneumolysis	40		****		3
Thoracoscopic Examination Bronchoscopic Examination	4				4
Proctoscopic Examination	1				1
Incision of Abscess	3			****	3
Rib Resection	1				î
Spinal Fusion Aspiration from pleural Space	481	40	3	1	525
Other Aspirations	3	29		++++	32 45
Paracentesis Abdomalis	45 3	4	3		10
Lipiodol Injections Blood Transfusions	2		6		8
Human Serum	8				8
Plaster Shells, etc.	2	4			6 19
Spinal Punctures	1	18	****		10
Alcohol Injection of Nerve Monaldi Drainage Changed	4	1010			4
Introduction of Intra-Pleural Trocar and					1
Canuli	1				14
Vital Capacity Basal Metabolism	14 10	2	****		12
Diathermy		12			12
Electrocardiagram	****		1	1	

# X-RAY REPORT

A-AAA ALL					
	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	
	al	ral	Innd	ers	
	bei	ime	exa	vir	Total
BIDIOGD IDUG MIND	Sa	HOE	Al	DH	To
RADIOGRAPHS MADE: Thorax					
Spine	2,612 45	562 17	148 1	108	3,430 63
Pelvis	8	8			63
Knee Ankle	32	2			52
Skull	22				2 2 5
Sinuses Teeth	2 20	3 22	1	1	5 44
Elbow	1	1			2 5
Wrist Hand	4		1		5
Femur	î			****	ī
Kidney Pyelogram	10 8	3			10 12
Abdomen	1				1
G. I. Tract Colon	11 9				11 9
Gall Bladder	4		****	****	4
Jaw Shoulder	1				12
Foot		21			1
Stomach			1117	1	1
Stonach					1
	2,745	621	152	111	3.629
FLUOROSCOPIC EXAMINATION:					
Gas Cases	5,503	4.176	459	126	10.264
G. I. Tract Colon	11 9	10	1		22 9
	-				
	5.523	4,186	460	126	10,295
Films referred for Interpretation	1.102	712			
	-		-		
LABORATORY	REPORT	s			
Sputum Examinations:	000				
Positive Negative	982 2.405	729 731	217 346	121 115	2.049 3,597
Urinalysis	2,079	479	2,381	287	5,226
Blood Counts Blood Sedimentation	458 610	178 611	58 127	34 86	728 1,434
Pleural and Spinal Fluids	69	23			92
Guinea Pig Inoculation Other Examinations	192 176	16 136	6	1	208 319
Serological Examinations:				*	010
Positive Negative	3 168	9 126	3 28	11	16 333
in galary					
	7,142	3,038	3.166	656	14,002
HELIOTHERAPY	REPOR	т			
Patients treated Number of treatments	26 2.047	24 177			50 3,124
			*		0,124
DENTAL RE	PORT				
Patients examined Fillings	186	137	29		352
Extractions	140 58	206 74	44 23		390 155
Prophylactic	42	34	5		81
Bridges Dentures:	3	3	. 1		7
New	1	6			7
Adjustments	4 3	•	****		43
	0	****			0

# I.-CLASSIFICATION OF DISCHARGED PATIENTS:

00	Admission.	Resid 31 days	lence	On Discha			harge		
On	No.		31 days	Α.	AA.	Q.	I.	U.	D.
I. No Disease	. 4	4							
II. Observation		1				-	-		
III. Non-Tuberculous IV. Tuberculosis, Inactive		8	9	****	+***		1	2	
IV. Tuberculosis, Inactive	. 10	0	2				-	-	
	32	21	11				8	3	
				-				-	
V. Childhood Tuberculosis VI. Adult Type Tuberculosis: Pulmonary Clinical:	. 3	1	2		****	****	2		
Minimal	. 52	4	48			12	35		1
Mod. Advanced	. 49	8	41			13	21	3	4
Far Advanced Pulmonary Positive:	6	2	4	****	****		2	****	2
Minimal	. 6		6			3	3		
Mod. Advanced		4	76			20	44	3	9
Far Advanced		12	119		2	26	38	13	40
VII. Tuberculous Pleurisy	. 12	2	10			4	6		
VIII. Non-Pulmonary Tuberculosi		2	8		1174		6	2	****
Total Tuberculosis	349	35	314		2	78	157	21	56
					-	-		-	
Total Treated					2	78	165	24	56
Total "Untreated"	. 56						14	29	13
Crond Total	901		-	-		70	179	53	
Grand Total					2	78	119	55	69
	-								

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 381 DISCHARGED PATIENTS:

1. No Disease 2. Observation	1
3. Non-Tuberculous	3.77
4. Tuberculosis, Inactive	
5. Childhood Tuberculosis 6. Tuberculosis—Adult Type:	
Minimal	
Moderately Advanced	129
Far Advanced	10
7. Tuberculous Pleurisy 8. Non-Pulmonary Tuberculosis	0.1
	381

# III.—CLASSIFICATION ON DISCHARGE OF 306 "TREATED" CASES OF PULMONARY TUBERCULOSIS:

	On Discharge			
On Admission:	Number	Improved	Not Improved	Died
Childhood Type	. 2	2		
Tuberculous Pleurisy	. 10	10		****
Adult Type:				
Minimal		53		1
Moderately Advanced		98	6	13
Far Advanced	. 123	68	13	42
	306	231	19	56
				dament.

IVDIAGNOSIS OF NON-TUBERCULOUS	AND OBSERVATIO Central Alberta Sanatorium	ON CASES: Edmonton Sanatoria	Total
Addison's Disease		2	2
Bronchiectasis		1	1
Carcinoma	1	4	5
Cystic Rib	1		1
Emphysema	2	****	1
Empyema	1		î
Silicosis	2	1	3
Spontaneous Pneumothorax	1		1
	9	8	17

# DEPARTMENT OF PUBLIC HEALTH

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Male	100	107 99	207 174
Female	75		-
	175	206	381
I.—SOCIAL:			101
Single	102 68	89 110	191 178
Widowed	3	5	8
Divorced or Separated	2	2	_4
	175	206	381
IIRELIGION:			-
Adventist	1	1 4	2 10
Baptist Brethren	6 1		10
Congregational		1	1 53
Church of England Church of God	37 1	16	1
Doukhobor	3	1 16	1 19
Greek Catholic Greek Orthodox	2	7	9
Latter Day Saints	2	90	2 39
Lutheran Mennonite	13 2	26	
Methodist	2	1	2 3 1
Nazarene Pentecostal	1	2	3
Presbyterian	14	2	22
Roman Catholic	34 1	70	104
United Church	48	53	101
Undenominational	6		6
	175	206	381
III.—AGE ON ADMISSION:			
From 1 to 9 years	2 10	1	3
From 15 to 19 years	41	1	42
From 20 to 29 years From 30 to 39 years	154 78	73	161 81
From 40 to 49 years	29	3	32
From 50 to 59 years	27 9	8	35 14
From 70 to 79 years	2		2
	352	29	381
	-	-	-
XOCCUPATIONS-MEN:			
Accountant	2	·	2
Baker Barber	1		1
Broker	1	1	2
Caretaker Carpenter	1 3		13
Clerical Worker	9		9
Civil Servant Dealer	2 1	****	2 1
Electrician	ī	1	2 2 51
Engineer Farmer	2 46	5	51
Factory Worker	2		2
Fireman	2		2 1
Gardener	ĩ		1
Janitor Labourer	2 24	2	2 26
Lumberman	3		3
Manager Mechanic	1 5	1	16
Miller	1		1
Miner Musician	7	4	11
Motorman	1		1
Movie Operator Orderly	$\frac{1}{2}$		12
Policeman	1		1
Porter	1		1
Painter		1101	-
Painter Printer	1		1
			1 3 2

	Active T.B.	Non-T.B., Inactive	Total
Skiing Instructor			1
Section Hand Stone Cutter			1
Student		2	1 12
Steam Fitter			2
Surveyor Teacher		1	12
Toolmaker		-	ĩ
Truck Driver			5
Trainman Trapper			1
Waiter			î
Welder At Home			1
At Home Armed Forces (no record of	previous 6		6
occupation)			21
	189	18	207
	105	10	201
XOCCUPATIONS-WOMEN:			
Clerical Worker		1	7
Farm Worker Factory Worker		ĩ	6
Hairdresser			2
Housewife		7	78
Housework Hospital Aide	12		12 2
Nurse (Graduate)	8		8
Nurse-in-Training			4
Potter R.C.A.F.	1		1
Saleslady		1	3
Student			7
Student Teacher	19 2	1	20 2
Typist			ī
At Home			5
At Home management			14
	163	11 .	174
XINATIVITY:		-	
Alberta	189	9	198
Canada (other Provinces)		3	73
Austria Belgium			4
Czecho-Slovakia		2	3
Denmark		2	2
England Finland		2	26 1
Channel Isles			î
Germany Hundary		1	2
Ireland		ï	45
Italy		î	1
New Zealand Norway			1
Poland	5 8 2 4	1	5 9
Roumania			2
Scotland	4 9	2	4
Sweden		2	2
United States		ī	19
Ukrainia Wales		2	2
Yugo Slavia			1
	352	29	381
XIILENGTH OF RESIDENCE	IN ALBERTA:		
Life		8	195
One year or less		1	17
One to five years		1	19
Ten to fourteen years		2 1	18 26
Fifteen to nineteen years		1	31
• Twenty to thirty years Over thirty years		6 9	44 31
over unity years mannent		9	
	352	29	381

Austrian Belgian Czech Chinese	5 1 2		5
Czech	12		
Czech	2		1
Chinese		1	3
	2		2
Danish	3	2	5
Dutch	6		6
English	71		75
Finnish	3	-	3
French	94	1	25
German	24 21	2	23
	21	4	1
Greek	1		5
Hungarian	5		00
lrish	36	3	39
Italian		1	1
Indian	8	1	9
Metis	33		33
Norwegian	14	2	16
Polish	4	2	6
Russian	11		11
Roumanian	2		2
Scottish	47	4	51
Slavic	3	1	4
Spanish	1		1
Swedish	5	3	8
Ukrainian	36		36
Unknown	2		2
Welsh	6	2	8
	352	29	381

# XIV .- RESIDENCE OF DISCHARGED PATIENTS:

C			

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Calgary	50		50
Drumheller	10	76	86
Edmonton	5	1	6
	5		5
Lethbridge Medicine Het	5		5
Medicine Hat	2		5
Red Deer	-		1
Wetaskiwin		1	1
TOWNS:			
		1	1
Athabasca		3	3
Camrose			2
Coleman	2	****	
Coronation	1	100	1
Fort Saskatchewan	****	1 .	1
Leduc	1		1
Magrath	1		1
Nanton	2		2
Peace River	1	3	4
Pincher Creek	1	4404	1
Ponoka	1	1	-2
Olds	1		1
Redcliff	1		1
Stony Plain	ī		1
Tofield		3	3
Vegreville		1	1
Vermilion		ĩ	1
VILLAGES:			
Barrhead	1		1
Bentley		1	1
Blackfalds		ĩ	1
Bonnyville		î	1
Craigmyle	1		î
Czar	*	1	î
Eckville		1	1
Edgerton		1	1
		*	1
Halkirk	1	3	3
Hay Lakes	****	1	0
Holden	****	1	1
Hythe		2	10
Innisfree			23
Lac La Biche		3	0
Lamont		1	1
Minburn	****	1	1
Mirror	1		1
Morrin	1		1
Mundare		2	2
Myrnam		1	1
Provost		1	1
Rimbey		1	1
Rosebud	1	4414	1
Sedgewick		1	1

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Sexsmith		3	3
St. Albert		1	1
St. Paul		1	1
Sylvan Lake		1	1
Two Hills		1	1
Vilna		1	1
Willingdon		1	1
I mangastr		Real Provide P	
	96	125	221
INDIANS: Cardston	1		1
Driftpile		1	1
Fort Nelson		1	1
Hobbema		2	2
Gleichen	1		1
River Qui Barre		1	1
Sucker Creek		1	1
Winterburn		1	1
Banff National Park	1		1
Non-residents of Alberta (D.V.A. Patients)	16	4	20

# MUNICIPAL AND LOCAL IMPROVEMENT DISTRICTS:

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# DEPARTMENT OF PUBLIC HEALTH

		Central Alberta Sanatorium	Edmonton Sanatoria	Total
578			2	2
580			2	2
604			ī	ĩ
631			1	i i
690		1	4	0
038		****	1	1
664		0.00	1	1
731		1	2	. 3
733			3	3
739			1	1
740			ī	1
741		****	î	î
764			1	10
109			0	0
826		****	1	1
828	and the second s		1	1
829			1	1
857		1010	2	2
858		1	1	2
873			î	ĩ
974			1	1
1090		****	1	1
1038			4	2
1111			· 1	1
1124			3	3
		175	200	201
		119	200	381

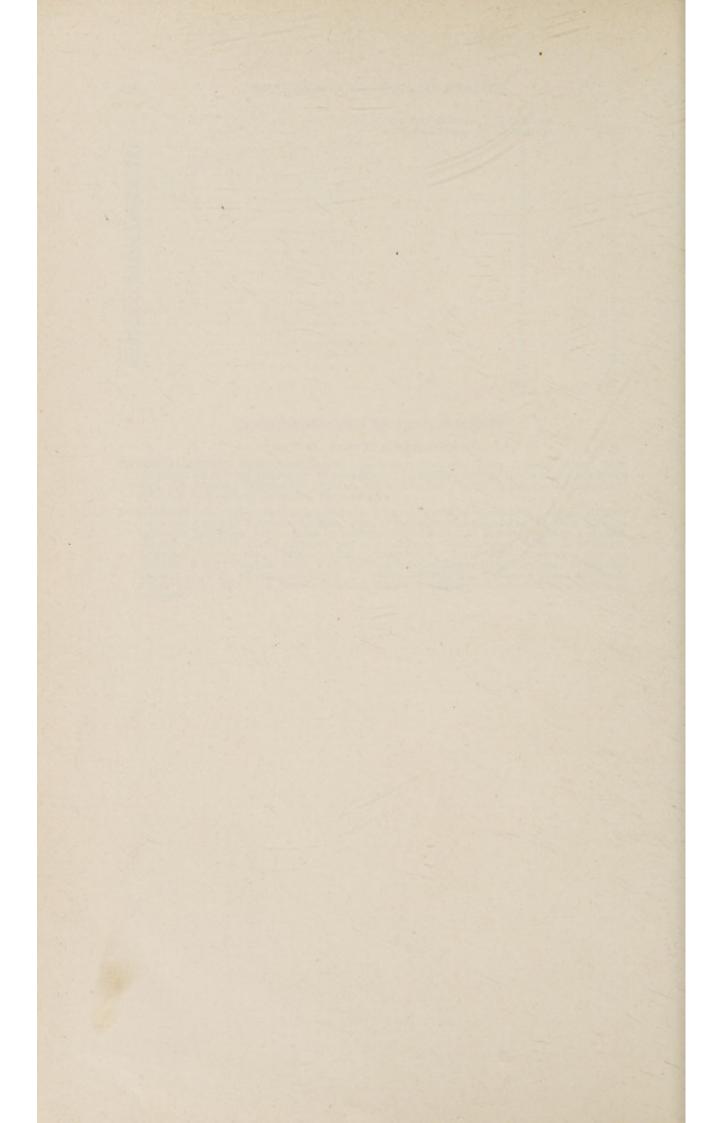
# DONATIONS AND ENTERTAINMENTS

#### CENTRAL ALBERTA SANATORIUM

ENTERTAINMENTS—Red Cross Society, Christmas Concert, Birks Concert Party; Mrs. Trainers' Orchestra, Christmas Dinner Music; Christmas Carols, Choir of St. Michael's and All Angels; Hallowe'en Concert, Elk's Concert Party; Cribbage Tournament; Billiard Tournament; Croquet Tournament.

DONATIONS—Canadian Red Cross Society, gifts to patients; Canadian Legion, gifts to patients; Catholic Women's League, gifts to patients; Sisters of Ste. Famille, gifts to patients; Salvation Army, gifts to patients; Children's Aid Society, gifts to patients; Women's Liberal Club, gifts to patients; Calgary Highlanders, gifts to patients; Ontario Laundry Co., Chocolate and Cigarettes; T. Eaton Co., Magazines; No. 34 S.F.T.S., R.A.F. Cheque; Elk's Club, Billiard Balls; Calgary Exhibition and Stampede, Passes; Leydens, Chocolate; Mr. S. D. Wemp, Shortbread; Lakeside Social Workers, Scrap Books; Mr. G. R. Hurst, Cribbage Board; Lethbridge Nursing Mission, gifts to patients.



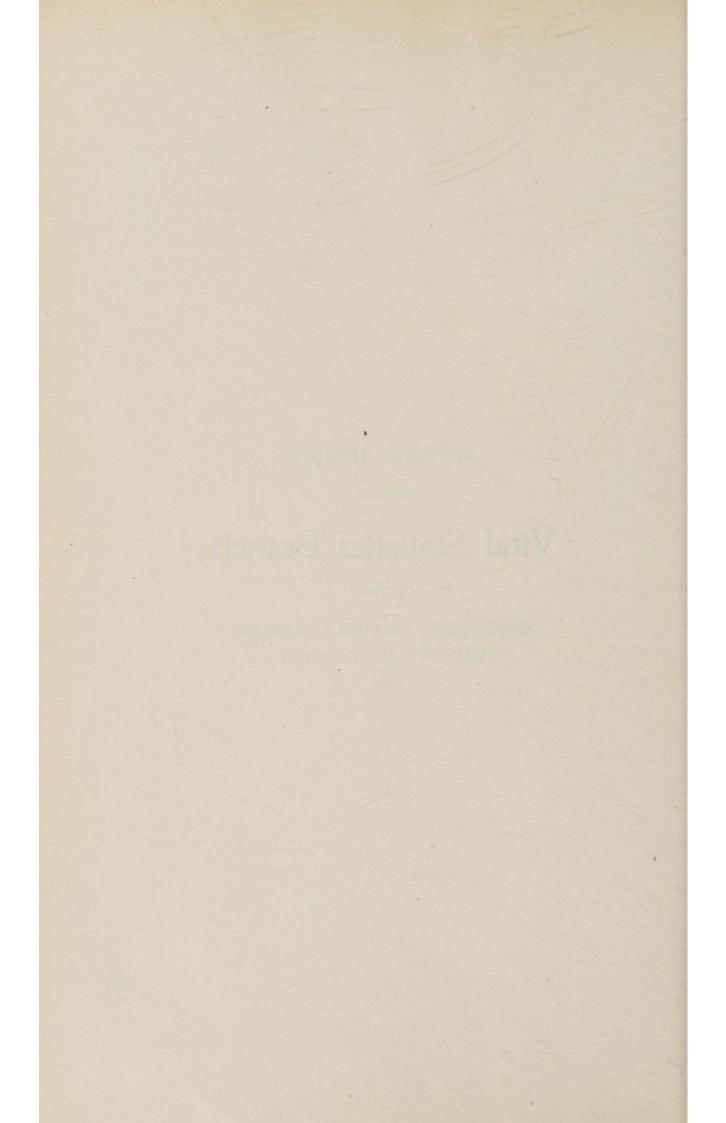


OF THE

# Vital Statistics Branch

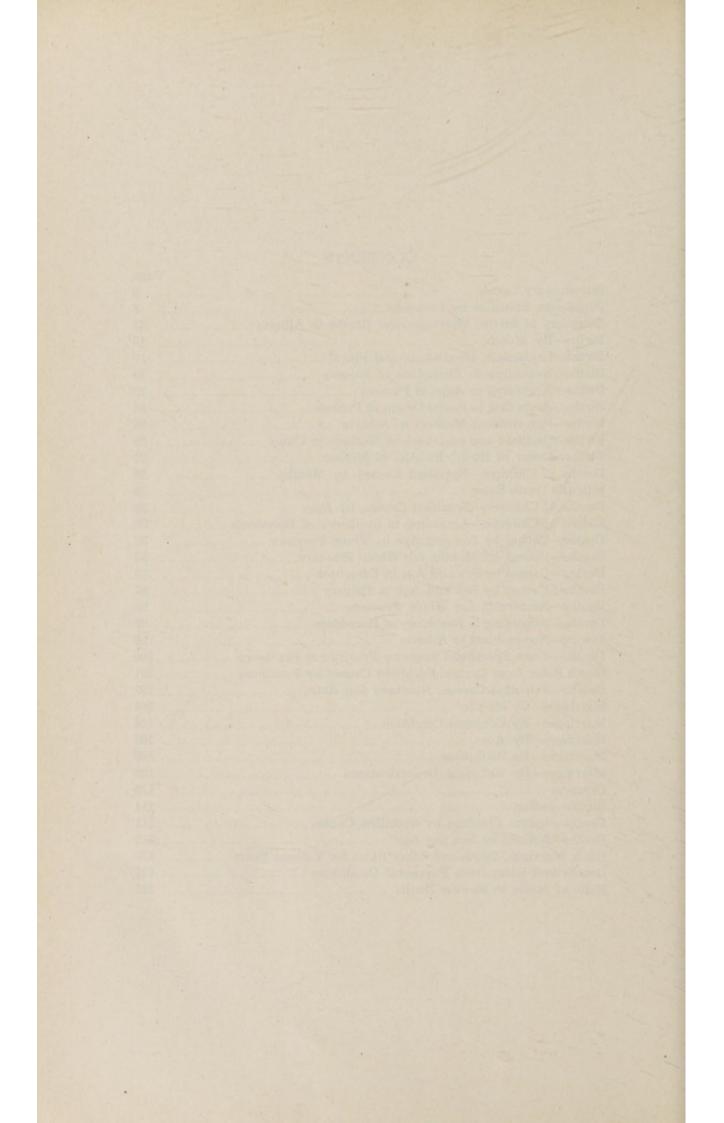
OF THE

DEPARTMENT OF PUBLIC HEALTH PROVINCE OF ALBERTA 1944



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# VITAL STATISTICS BRANCH

(DONALD MACKIE, Deputy Registrar General)

This is the 40th Annual Report of the Vital Statistics of the Province of Alberta and is for the year 1944. This report reveals a decrease in the birth, marriage and death rates. There is a slight increase in the infantile mortality rate and a substantial decrease in the maternal mortality rate.

The birth rate, while lower than the preceding year, is still the highest of all the Western Provinces and is exactly that of the rate for all Canada.

The marriage rate is lower than that of the preceding year, but this was anticipated as the rates for the preceding four years were abnormally high owing to the large number of service personnel marrying before proceeding overseas.

The death rates from epidemic and contagious diseases show a decline in all cases except whooping cough. The death rate from cancer is practically the same as that of the preceding year, whilst diseases of the heart show a slight decrease. Deaths by violence have greatly decreased, and is attributable mainly to the smaller number of aeroplane accidents.

## POPULATION

The population of the Province of Alberta for the year 1944 has been estimated by the Dominion Bureau of Statistics at 818,000. All rates in this report have therefore been based on that figure.

# BIRTHS

The number of children born alive and registered during the year amounted to 19,372, being a birth rate of 23.7 per 1,000 population. There are 82 more births than in the previous year, but it constitutes a decrease in the rate of .6. Comprising the total births, 9,978 were males, 9,394 were females, being a ratio of 1,062 males to each 1,000 females; this is 19 more males than the average for the previous 10 years. There were 227 sets of twins and 2 sets of triplets born during the year. Illegitimate births numbered 849, a decrease of 17 from the previous year, and constitutes a rate of 4.4 per 100 births.

Beginning with the present year, all birth registrations have been allocated to the place of residence of the parents. Previously they were credited to the place of occurrence, and as most of the births took place in the cities and towns where hospital accommodation exists, the result was that these cities and towns showed a birth rate which was erroneous, being considerably higher than was justified, as a considerable percentage of the parents of such births were rural residents.

Under this new system the number of children born to residents of cities and towns over 1,000 population numbered 6,897, to residents of rural districts 11,555, and to Indians 920. In the four large cities the births to residents only were as follows : Edmonton, 2,565; Calgary, 2,190; Lethbridge, 409; and Medicine Hat, 332. The actual number of births in each of these cities was: Edmonton, 4.240; Calgary, 2,880; Lethbridge, 923; and Medicine Hat, 605.

For purposes of comparison, the following are the birth rates per 1,000 population for Canada, the Provinces, Great Britain and certain other countries for the year 1944:

### BIRTH RATES

Canada	23.7	British Columbia	20.4
Prince Edward Island	25.2	England and Wales	18.0
Nova Scotia		Scotland	
New Brunswick		Northern Ireland	
Quebec	29.2	Irish Free State	
Ontario		New Zealand	
Manitoba		United States of America	
Saskatchewan		Switzerland +	
ALBERTA			1000

# MARRIAGES

Marriages registered during the year numbered 7,299. This number is 472 less than in the previous year, and is 1,080 less than the average for the 5 preceding years, and constitutes a rate of 8.9. The rates for the 5 preceding years were abnormally high due to war conditions. The present rate is now about normal and is the same as that for the year 1938.

Of the 7,299 marriages, 109 are brides of 16 years of age and under, 1,625 are between the ages of 17 and 19, and 3,360 are between the ages of 20 and 24. There are 139 grooms and 62 brides over 60 years of age, 39 of the grooms and 14 of the brides being over 70 years of age, whilst 14 grooms and 3 brides were over 75. The number of marriages in the 4 largest cities are as follows: Edmonton, 1,957; Calgary, 1,565; Lethbridge, 298; and Medicine Hat, 297.

For purposes of comparison the following are the marriage rates per 1,000 population for Canada, the Provinces, Great Britain and certain other countries for the year 1944:

#### MARRIAGE RATES

Canada Prince Edward Island		ALBERTA British Columbia	8.9 9.0
Nova Scotia	9.7	England and Wales	7.2
New Brunswick	8.3	Scotland	7.4
Quebec		Northern Ireland	7.2
Ontario	7.9	Irish Free State	5.7
Manitoba	8.6	Switzerland	7.9
Saskatchewan	7.0	a restar to a state of the state of the	

# DIVORCES

There were 484 divorces granted by decree absolute during the year, which is 71 more than the previous year and is 156 more than the average for the preceding 5 years; 241 were granted to husbands and 243 to wives. In addition to the divorces, 4 decrees of nullity were issued.

# DEATHS

During the year, deaths (including Indians) numbered 6,320, of whom 3,823 were males and 2,497 were females. This number is 201 less than in the previous year, and constitutes a death rate of 7.7 and is .5 less than in the preceding year. There were 415 males and 378 females, 80 years of age and over at the time of death, whilst 2 males were centenarians.

For the purposes of comparison, the following are the death rates per 1,000 population for Canada, the Provinces, Great Britain and certain other countries for the year 1944:

#### DEATH RATES

Canada	9.7	British Columbia	10.4
Prince Edward Island		England and Wales	11.9
Nova Scotia		Scotland	12.9
New Brunswick	11.1	Northern Ireland	
Quebec		Irish Free State	
Ontario		New Zealand	
Manitoba		United States of America	10.6
Saskatchewan		Switzerland	11.9
ALBERTA		Las president the second second	

Heart disease is still the chief cause of death, the rates being 187 per 100,000 population, as compared with a rate of 194 for the previous year. The cancer rate is the same as that of the previous year, namely, 94.

There was a decrease in the deaths from pneumonia, the rate being 46 as compared with 51 for the preceding year. The death rate due to diseases of the arteries is 14, the same as the previous year. The influenza death rate is 15 as compared with 19 for the previous year. The death rate from pulmonary tuberculosis is 27, the rate for the previous year being 28.

There is a remarkable decrease in the maternal mortality rate, which is 1.6 this year as compared with 2.7 for the previous year. This rate is the lowest in the history of the Province, and possibly in the history of all Canada. This low rate is probably the result of the improved conditions under which expectant mothers receive free hospitalization by legislation inaugurated this year by the Provincial Government.

The rate from violent deaths (excluding suicides) is 59 compared with 73 for the year 1943. This decrease is largely attributed to the fewer number of aeroplane accidents, the number of deaths from such accidents being 41 as against 103 for the previous year. Automobile accidents accounted for 72 deaths as against 84.

Deaths by drowning numbered 49, being an increase of 6. Deaths in mines and quarries numbered 8 as compared with 27. Forestry and agriculture accidents accounted for 46 deaths as against 52 for the previous year. Tables 23a and 24 show deaths and rates by certain specified causes for Alberta, Canada and the Provinces.

# INFANT DEATHS

The deaths of children under one year of age numbered 889 as against 810 for the previous year, the respective rates per 1,000 births being 46 and 42. The rate for Canada is 55.

For purposes of comparison, the following are the infantile mortality rates for Canada and the Provinces for the year 1944:

# INFANT MORTALITY RATES PER 1,000 BIRTHS

Canada Prince Edward Island Nova Scotia New Brunswick Quebec	45 54 77 68	Ontario Manitoba Saskatchewan ALBERTA British Columbia	49 47 46
MATERNAL MORT.	ALITY	RATES PER 1,000 BIRTHS	
Canada Dalaca Edward Island	2.7 5.2	Ontario Manitoba	$2.5 \\ 3.1$

Canada	2.2	Ontario	2.5
Prince Edward Island		Manitoba	3.1
Nova Scotia		Saskatchewan	2.3
New Brunswick		ALBERTA	1.6
Juebec		British Columbia	2.6

INNO

The number of deaths by suicide is 58, a decrease of 21 from the previous year, deaths by homicide were the same as the previous year, namely, 6.

Stillbirths numbered 335, being 7 more than in the previous year.

# 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	Popu	lation	Census Divisions and	Popu	lation
Municipalities	1941	1936	Municipalities	1941	193
Province	796,169	772,782	Division No. 2-Continued:		
Division No. 1	29,595	29,699	' Towns-Continued :	100	
1 I.D.				(1)	14
2 I.D.				238	2
3 I.D. 4 I.D.		and the second sec		1,912	1,30
5 I.D.			Magrath Pincher Creek	1,207	1,2
6 I.D.					2.0
31 I.D.	. 62	64	Villages:		
32 I.D.	. 511		Coaldale	290	2
33 Flowery Plains	487			(1)	7
34 Burlington 35 I.D.				125 204	14
36 Warner		1.305		(1)	
61 I.D.	740		Stirling	437	3
62 I.D.					
63 I.D.	609		Division No. 3		14,7
64 Forty Mile 65 Eureka	959	1,148	96 I.D. (Pt.) 121 Many Islands	536	1.2
66 I.D.		2.549	121 Many Islands 122 Jubilee I.D.	2.416 1.690	2,7
91 I.D.		1,170	123 Bow Slope, I.D. (Pt.)	5,475	4.4
92 I.D.		974	125 I.D.	1,184	4
93 I.D.	738	890	127 I.D. (Pt.)	841	9
94 Bow Island Cities:	535	614	241 Acadia (Pt.)	9	
Medicine Hat	10.571	9.592	Towns: Bassano	500	
Towns:		0,002	Brooks	582 888	56
Bow Island	291	308	Redcliff	1,111	9
Irvine	240	278	Villages:		
Taber Villages:	1,331	1,341	Duchess	149	1
Burdett	123	90	Empress Enchant	341 76	3
Milk River	335	326	Jenner	27	
Warner		309	Retlaw	(1)	
		1	Tilley	193	
Division No. 2	58,563				
7 I.D. 8 I.D.	432	330 1.394	Division No. 4	29,383	28,28
9 I.D.	1.538	1.547	96 I.D. (Pt.) 97 I.D.	245	2.93
10 Cochrane	1.589	1.613	98 Little Bow	1.363	1.5
37 Sugar City	2.391	2,192	127 I.D. (Pt.)	738	8
38 I.D. 39 Kerr		1,176	128 Harmony	845	1,03
40 Castle River	1.602	1,830 606	129 Clear Lake	1,728	2,03
67 I.D.	4.709	4.635	130 I.D. 131 I.D.	305 68	34
68 I.D.		2,467	157 Marquis	1.386	1.7
69 Bright	1,153	1,198	158 Royal	1,367	1.5
70 Livingstone	1,217	1.466	159 Riley	1.721	1,83
71 I.D. 99 Argyle		4.369	160 I.D.	2,422	67
100 I.D.		1.811 571	161 I.D. 189 Dinton	67 1.576	1 00
101 I.D.		173	190 Sheep Creek	1.831	1,88
Waterton National Park	269		191 Stockland	3,706	2.9
Indian Reserves	2,162	1,991	192 I.D.	6	
Cities:	14.010	10 500	193 I.D.	2	
Lethbridge Towns:	14,612	13,523	Towns: High Piyer	1 400	1.01
Blairmore	1,731	1.682	High River Nanton	1.430	1,35
Cardston	1.864	1,711	Okotoks	591	57
Claresholm	1,265	1.051	Stavely	273	30
Coleman	1,870	2,129	Vulcan	732	86

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1936—Continued

Census Divisions and	Popu	lation	Census Divisions and	Popu	lation
Municipalities		1936	Municipalities	1941	193
vision No. 4—Continued:			Division No. 6—Continued:		
Villages:			bittision ito, o continueu.		
Arrowwood	251	252	Villages:	1	5
Barons		264	Albert Park	. (1)	3
Black Diamond			Beiseker	240	2
Blackie	. 223		Carbon	. 409	3
Carmangay	. 229		Carstairs		3
Cayley			Cluny		1
Champion			Cochrane	. 298	3
Lomond			Crossfield	409	3
Milo			Forest Lawn	899	4
Nobleford Turner Valley	111	117	Hussar	116	1
rumer valley	676	475	Irricana		1
ivision No. 5	18,926	21,391	Langdon		1 0
214 I.D.	1,436		Newcastle Rockyford		1.2
241 Acadia (Pt.)	739		Rockyford Rosebud		2
242 I.D.	2,506		Rosebud Standard		12
273 I.D.			Swalwell	114	ĩ
276 I.D. (Pt.)	2.428		Trochu	480	4
277 Michichi	1.118			400	
305 I.D. (Pt.)	2.986		Division No. 7	33,285	37,6
306 Lambton			305 I.D. (Pt.)	1	1
07 Starland	1.248	1.297	331 I.D. (Pt.)	3.012	3.0
31 I.D. (Pt.)	1,277		334 Coronation		1.9
Towns:	1000		362 Hillcrest	. 986	1.1
Hanna	1,622	1,405	363 Stocks		1,1
Villages:	10000		364 Flagstaff	1,530	1.7
Cereal		131	365 Progress		2,2
Chinook		134	391 Sifton		1,4
Craigmyle		214	392 Vale		1.0
Delia		279	393 Huamha		1,2
Morrin		146	394 Asquith		1,2
Munson	139	146	395 Wheatland		1,8
Oyen	326	298	421 Ribstone	1.416	1.6
Richdale	(1)	38	422 Gilt Edge	1,489	1,7
Rumsey	90	81	423 Battle River		1,5
Youngstown	188	187	424 Kinsella 425 Sterling		1,2
ivision No. 6	146 990	141 806	425 Sterling 455 Iron Crook	1.873	2.0
23 Bow Slope I.D. (Pt.)	668	547	455 Iron Creek Buffalo National Park	2,079	
17 I.D.	555	704	Towns:		
18 Blackfoot	1.451	1.528	Castor	625	59
19 Bow Valley	1.456	1.738	Coronation		6
20 Shepard	2,134	2,057	Hardisty		5
21 Springbank	3,241	2,539	Wainwright		1.0
22 I.D.	489	471	Villages:		
23 I.D.	1,546		Alliance	233	2
47 I.D.	893	958	Cadogan	99	1
48 Grasswold	1,400	1,421	Chauvin	343	3
49 Keoma	1.613	1,518	Compeer		:
50 Beddington	2,139	2,259	Consort		2
51 I.D.	1,314	1,472	Czar	139	1:
52 I.D.	333	350	Edgerton	258	2
53 283 I.D.		0.050	Forestburg		2
76 I.D. (Pt.)	4.061	2,850	Galahad		1
78 Carbon 79 Norquay	1.580 2.184	1,896	Hughenden Irma		20
80 Rosebud	2,184	2,342			24
80 Rosebud 81 Beaver Dam	2.327	2,366 2,282	Killam		3:
82 I.D.	1.085	953	Lougheed Monitor		2
08 Ghost Pine	2.023	2.340	Provost	518	45
09 Stauffer	2,310	2,327	Sedgewick		33
10 Mountain View	2.580	2.748	Strome		2
11 Westerdale	2.660	2,631	Veteran		18
Banff National Park	358		Viking		48
Banff	2,187	2.037	, and a second s		
Indian Reserves	1.859	1,882	Division No. 8	67,630	65.43
Cities:	2,200		336 Success		1,4:
Calgary	88,904	83,407	337 Vimy		1,01
Drumheller	2,748	2,912	338 Hays	and and and and	2.73
Towns:			339 Pine Lake		2,44
Didsbury	892	846	340 Arthur	2,364	2,48
Gleichen	435	458	366 Dublin		1,32
Olds	1,337	1,197	367 Waverly		2,06
	500	531	396 Haig		1,57
Strathmore	560	AAT II		a server as	
Strathmore Three Hills	706	659	397 Lakeside	1.673	1,61
Strathmore				1.673	

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1936—Continued

Census Divisions and	Popula	ation	Census Divisions and	Popul	ation
Municipalities	1941	1936	Municipalities	1941	1936
Division No. 8—Continued:	1		Division No. 10	58,807	61,35
427 Evergreen	2,730	2,788	451 Merton	1,682	1,94
428 Water Glen	1,486	1,510	452 Grizzly Bear	1.368	1,55
129 Fertile Valley	4,749	4,512	453 Buffalo Coulee	1,370	1,55
156 Parkland	2,879	2,858	454 Lakeview 481 Wellington	1 10 4	2,12
157 Lloyd George 158 Montgomery	3,486	3.553	482 Vermilion Valley		2,05
159 Bigstone (Pt.)	3,777	3,452	483 Melberta	1,894	2,01
Indian Reserves	1,242	1,199	484 Birch Lake	2,430	2,47
Cities:		0.004	485 Patricia	2,109 3,094	3,16
Red Deer	2,924	2,384 2,058	486 Beaver Lake 511 Streamstown	0.000	2.64
Wetaskiwin Towns:	2,318	2,000	512 Ethelwyn	0.100	3,30
Big Valley	291	359	513 Ukraine	3,179	3,36
Camrose	2,598	2,263	514 Sobor	0.0000	3,46 3,30
Daysland	438	366	515 Norma		3,30
Innisfail	1,223	1,124	516 The Pines	4.150	4.25
Lacombe	1,603	1,045	546 Wostok		4.73
Ponoka Stettler	1,295	1,202	547 Leslie	3,598	3,66
Villages:	9.61		Towns:	-	
Alix	360	333	Lloydminster (Pt.)	572	49
Bashaw	494 227	423 236	Vegreville Vermilion	1.408	1,29
Bawlf Bittern Lake	50	32	Villages:		
Blackfalds	113	105	Andrew	326	13
Botha	111	98	Bruderheim		25
Clive	224	242	Chipman		24 14
Delburne	308	236	Derwent Holden	0.04	27
Donalda	206 132	182 110	Innisfree		24
Edberg Elnora	195	149	Islay	132	13
Erskine	172	164	Kitscoty	234	23
Ferintosh	169	120	Lamont		47
Gadsby	141	139	Lavoy	178	15
Gull Lake	21	139	Mannville Minburn	1 200	13
Halkirk Millet	118 325	357	Mundare		77
Mirror	570	585	Myrnam	216	1:
New Norway	169	177	Ranfurly		11
Ohaton	53	46	Ryley Thus Hills		
Penhold	183	94	Two Hills Willingdon		
ivision No. 9	32,232	29,859		1	
312 Waterloo	1,402	1,343	Division No. 11	149,193	139,0
313, 314 I.D.	12		459 Bigstone (Pt.)	2,997	
341 Poplar Grove	3,113	3,003 2,242	487 Cornhill 488 Black Mud		
342 Raven	2,254 833			1 000	
343 I.D.	72	74	490 Pioneer	3,619	
371 Golden West	2,622	2,526	491 I.D.	1,479	
74, 375 I.D.	6		517 Clover Bar		
376 I.D.	768	The second of	518 Strathcona 519 Spruce Grove	1 1 001	
400 Lorne		2,584	520 Inga		
101 Lochearn	437	363	521 Tomahawk	2,198	
430 Blindman	1,800	1,599	548 Sturgeon	5,115	
431 Last West	1,898		549 Ray	3,542	
132 I.D.	135			2.635	
433 I.D.	114		Elk Island National Park		
434 I.D. 435 I.D.	8		Indian Reserves		
436 I.D.	3			1	
460 Columbia		1		93,817	85.7
461 I.D.	1,486			55,611	00,1
462 I.D.' 463 I.D.	440		1	981	9
463 I.D. 446, 465, 468 I.D.	2		Fort Saskatchewan	903	
466 I.D. (Pt.)	2,014	1,790	Leduc		
Jasper National Park	287		Morinville		
Jasper					
Unorganized	4	1,094	Tofield		
Towns: Rocky Mountain House	800	652			1.00
Villages:	17 20.53	1 202	Alberta Beach		
Bentley					1
Bowden	234				3 1
Eckville North Red Deer					
North Red Deer Rimbey				. 84	1
Sylvan Lake					1 1

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1936—Continued

Census Divisions and	Popu	lation	Census Divisions and	Popul	ation
Municipalities	1941	1936	Municipalities	1941	193
Division No. 12	17,431	16,024	Division No. 14—Continued :		
466 I.D. (Pt.)		1,704	638 Nelson	1,808	1.70
493 I.D.	34	26	639 I.D.		8
495, 498, 524 I.D.		1,728	640 I.D.		9
522 I.D. 523 I.D.		1,128	665 I.D. 667 I.D.		1,1:
525 I.D.		24	667 I.D. 668 Grosmont	863	80
526 I.D.	0.00	136	669 I.D.	281	2
527 I.D.		490	696 I.D.	695	50
528 I.D.	. 30		697 I.D.	588	5
552 Pembina		2.431	698 I.D.		
553 I.D.		1,037	699 I.D.		4
554 I.D. 555 I.D.		870 733	726 I.D. 727 I.D.		35
556 I.D.	0.01	240	727 I.D. 728 I.D.	79	
558 I.D.		59	729 I.D.		2
559, 560 I.D.			Towns:		
582 Kitchener	2,458	2,478	Athabasca	578	/ 6
583 I.D.		759	Villages:		
584 I.D.	10.00	574	Barrhead		3
585 I.D.			Clyde Log lo Picho		1:
588 I.D. (Pt)			Lac la Biche Legal		3
590 I.D. (Pt.) 612 I.D.		472	Smoky Lake		4
615 I.D.			Waskatenau		2
Towns:	1		Westlock		50
Edson	1,499	1,600			
Villages:			Division No. 15		15,73
Entwistle		150	590 I.D. (Pt.)		18
Mayerthorpe	217	209	613 I.D. 614, 618, 619, 646 I.D.		
Division No. 13	33,172	30,602	622, 623, 650, 651 I.D.		
541 I.D.		910	641 I.D.		8
542 Lincoln		1.249	642 I.D.		
543 Laurier		3.141	670 I.D.	42	
544 Champlain		2,399	675, 676, 677,678, 679 I.D.	1	
571 I.D.		267	700, 702, 704 I.D		
572 Bonnyville		1,859	705 I.D.		
573 St. Vincent		2,951	706 I.D.	0.00	29 20
574 St. Lina		1,146 3,903	707 I.D. 708 I.D.	0.0	-
575 Vilna		1,195	709 I.D.		
601 I.D. 602 I.D.		1,567	710 I.D.		1
603 I.D.		1.016	730 I.D.		1
604 I.D.		640	731 I.D.		43
605 Ashmont	1.993	1,814	732 I.D.		6
631 I.D.		951	733 I.D.		6
632 I.D.		5	734 I.D. 735 I.D.		1
633 I.D.		44 255	736 I.D.	135	1
634 I.D. 635 I.D.	280	915	737 I.D.		
663 I.D.		17	738 I.D.		6:
664 I.D.	0.0	22	764 I.D.		1.43
666 I.D.		545	765 I.D.	1.384	1,17
695 I.D.	353	308	766 I.D.		5
Other Parts		1 200	767 I.D.		1
Indian Reserves	1,859	1,720	794 I.D. 795 I.D.		8
Towns:	1.018	950	795 I.D. 796 I.D.		2.7
St. Paul Villages:	1,018	550	825 I.D.	and the second sec	2
Bellis	128	127	826 I.D.		7
Bonnyville	0.00	433	855 I.D.	580	5
Elk Point			Unorganized		1
Vilna	311	253	Indian Reserves	1,154	9
	47.000	45 500	Towns: Basso River	873	8
ivision No. 14		45,790	Peace River Villages:	015	0
576 Smoky Lake		4,319 4.871	Falher	244	2
577 Unity		3,318	Grouard		1
579 Hazelwood		3.627			
580 Lockerbie		2,845	Division No. 16		29,2
581 Pershing		2,158	739 Grande Prairie	2,307	2,3
506 I.D.	74	148	740 Bear Lake		2,8
607 I.D.	2,189	1,828	741 I.D.		1,5
608 Tawatinaw	2,256	2,223	742 I.D.		4
609 Pibroch	2,476	2.380	769 I.D.		69
610 Shoal Creek		2,553	770 I.D. 771 I.D.		1.8
611 I.D. 636 I.D.		909 540	772 I.D.		1.1

Census Divisions and	Popul	ation	Census Divisions and	Popul	ation
Municipalities	1941	1936	Municipalities	1941	1936
Division No. 16—Continued:			Division No. 16-Continued:		
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	8
828 I.D.	546	633	Towns:	1000	
829 Spirit River	1,828	1,890	Grande Prairie	1,724	1,47
830 I.D.	1.022	878	· Villages:		
831 I.D.	538	520	Beaverlodge	331	20
857 Peace	2.003	2,155	Berwyn	206	
858 Fairview	2.326	2.443	Clairmont	102	10
859 I.D.	824	705	Fairview	432	39
860 I.D.	10		Grimshaw	169	12
861 I.D.	28		Hythe	247	26
886 I.D.	516	497	Sexsmith	325	29
887 I.D.	666	744	Spirit River	276	23
888 I.D.	564	597	Wembley	188	17
889 I.D.	681	574			
890 I.D.	62	58	Division No. 17	9,712	8,71
891 I.D.	164	114	Remainder of the Province		
916 I.D.	268	237	comprising Northern Parts	7.205	5.46
917 I.D.	394	338	Indian Reserves	2,507	3.24

# CIPALITIES FOR CENSUS YEARS, 1941 AND 1936-Continued

NOTE: (1) Disorganized; I.D.=Improvement District; (Pt.): Part.

TABLE 1.—GENERAL SUMMARY OF BIRTHS, DEATHS AND MAR RIAGES IN THE PROVINCE OF ALBERTA BY DIVISIONS, CITIES AND TOWNS OF 1,000 POPULATION AND OVER, BY REGULAR RESIDENCE, 1944

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			Births					Ц	DEATHS							
	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Divisions, Cities and Towns	(Exclus	sive of irths)	Still-	-		-	1 U	year		ears	5 ye and c	ars over	irths	səSej	
OR THE PROVINCE       1937       968       904       620       322       247       517       372       139       94       300       32         00.00       1       1000       1       1000       1       122       27       15       16       2       3       144       78       125       16       2       3       144       78       125       16       2       3       144       78       125       10       10       201       335       10       201       335       10       201       335       10       201       335       10       201       335       10       201       335       11       125       12       13       13       13       13       13       13       13       13       13       13       13       13       14       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       14       13       13       13       13       13       13       14       13       14       13       14       13       14       13       14       13       14       13	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Total	M.	F.	Total	M.	F.	M.	Ŀ.	W.		M.	F.	qIIIIS	Marr	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	NN0.1       1       1       2       1       2       1       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       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       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       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       1       1       1       1       1       1       1       1       1 <td>TOTAL FOR THE PROVINCE</td> <td>19372</td> <td>9978</td> <td>9394</td> <td>6320</td> <td>3823</td> <td>2497</td> <td>517</td> <td>372</td> <td>139</td> <td>94</td> <td>3167</td> <td>2031</td> <td>335</td> <td>7299</td> <td></td>	TOTAL FOR THE PROVINCE	19372	9978	9394	6320	3823	2497	517	372	139	94	3167	2031	335	7299	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		805	392	413	950	162	79	16	16	6	2	144	78	19	272	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1601	823	178	509	307	202	52	27	1 00	13	247	162	36	629	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		362	187	175	104	61	43	44		-		53	40	23	60	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		783	406	377	222	129	93	16	19	57		111	74	15	133	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		3429	1766	1663	1335	825	510	98	52	18	1	1002	451	61	1866	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		101	371	330	239	147	92	20	11	53	1	125	80	13	193	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		1612	845	767	541	309	232	22	37	12	10	262	185	23	530	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		1161	588	573	377	213	164	24	28	0 00	9	186	130	23	393	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		3845	1969	1876	1306	767	539	103	70	27	16	637	453	13	2168	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		No. 1	864	463	401	260	163	16	40	30	21	1-1	102	33	17	176	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	No. 1	547	271	276	135	130	22	12	AT I	13.0	- 00	100T	200	101	105	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	No.	766	363	403	180	112	89	16	14	0	0.01	36	52	16	187	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	No.	350	183	167	112	29	45	14	13	12	00	41	24	1	47	
Y       2190       1107       1083       913       547       366       47       28       9       3       491       335         neller       1001       1003       913       54       56       1001       1003       913       54       28       9       3       491       335         neller       2565       1311       1254       879       506       54       47       9       3       21       17         clots       2565       1311       1254       879       506       55       47       9       3       21       17       48       47       9       8       21       17       48       47       18       47       18       47       33       17       48       47       31       17       48       47       31       17       48       47       31       17       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48       48	Y         2190         1107         1083         913         547         366         47         28         9         33         13         341         366         47         28         9         33         13         341         366         47         28         341         335         341         366         47         28         341         335         341         335         341         335         341         335         341         335         341         335         341         335         341         335         341         335         341         355         341         355         341         355         341         355         341         355         341         355         341         355         341         355         341         355         341         355         341         355         341         355         341         355         341         355         341         355         341         345         355         341         345         355         341         345         355         356         356         345         355         341         345         355         341         345         355         341	TIES:															
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Calgary	2190	1011	1083	913	547	366	47	28	<b>n</b>	3	491	335	37	1564	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	T	2326	1121	1954	010	202	000	4 H	1 LY	10		17	116	N N	1050	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Tathbridge	400	216	1961	129	80	62	50		0	0 -		LIC	P.V.	LDG	
tetr     186     97     89     33     22     17     4     3       kiwin     62     38     23     22     17     4     3     22       kiwin     62     38     23     22     17     2     1     16       00     35     18     17     23     14     9     2     1     2       01     102     49     53     22     12     1     2     2     1       102     11     28     13     26     1     10     2     1     1       01     102     13     16     11     15     2     1     1     9       01     102     13     16     11     15     2     1     1     9       11     28     13     26     11     15     2     1     1       12     28     13     26     13     5     1     9     9       12     28     13     56     13     5     1     9     9       13     55     2     2     1     15     9     9       12     28     13     56     1     15	eet       186       97       89       33       22       17       4       3       2       1       16       13       2       1       16       13       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       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       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       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3		332	176	156	143	88	61	000	13		-	74	48		295	
kiwin     62     38     24     45     27     18     3       nore     35     18     17     23     14     9     2       see     102     49     53     22     14     9     2       none     102     43     53     12     12     2       none     11     28     53     14     9     2       none     11     28     13     26     11     15       none     11     28     13     16     13     16       none     11     15     26     11     15     2       none     11     15     26     11     15     2       none     13     16     13     5     14     9	Kiwin $62$ $38$ $24$ $45$ $27$ $18$ $1$ $2$ $24$ $15$ $27$ $18$ $1$ $2$ $24$ $15$ $21$ $18$ $17$ $23$ $14$ $23$ $14$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $21$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $12$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $22$ $24$ $12$ $12$ $22$ $24$ $12$ $12$ <		186	16	68	39	22	17	4		2	I	16	13	. 00	119	
102     18     17     23     14     9       102     49     53     22     12     10       102     49     53     22     12     10       11     28     13     26     11     15       12     28     13     26     13     16       13     26     11     15     28       14     9     26     11     16       13     26     13     26     14       14     28     13     26     14       15     28     13     26     13       16     19     26     14     3       17     28     13     26     14       18     13     26     14     3       17     28     13     16     16       28     13     16     26     1       16     13     16     10     10       17     28     13     16     16       29     13     16     16     16       17     28     13     16     16       18     13     16     16     16       19     10     16     16<	JOTE     35     18     17     23     14     9     2       See     102     49     53     22     12     10     2       NoIm     102     49     53     22     12     10     2       At     28     13     26     21     15     22     2       At     28     13     16     2     2     1       At     26     26     25     15     10     2     2       At     26     25     15     10     2     2     2		62	38	24	45	27	18	00	1		101	24	15	100	64	
35     18     17     23     14     9     2     1     12     8       86     102     49     53     22     12     10     2     2     1       102     49     53     22     12     10     2     2     1       11     28     13     26     11     15     2     2     1       11     28     13     16     13     5     4     3     1       12     28     13     26     11     15     2     2       11     28     13     16     13     5     4     3       12     28     13     16     13     5     4     3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$																
102     49     53     22     12     10     2     2       10     2     23     19     26     11     15     2     1       11     28     43     18     13     5     4     3     1	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Blairmore	35	18	17	23	14	6	2	1			12	00	27	16	
mmm         42         23         19         26         11         15         2         1         9         14           mm         71         28         43         18         13         5         4         3         1         9         24	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Camrose	102	49	53	22	12	10	01	2		No. of Lot of Lo	10	80	1	49	
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Cardston	42	23	19	26	H	15	C-1 -			1	6	14		20	
			11	207	43	18	21	0.01	4 0	• •			50 0	N1 0	N 0	33	

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VISION		5 years and over	M.	66 88 111 66 66 66 66 81 41 88 124 138 138 138 138 138 138 138 138 138 138
DI BY DI		ears	.i.	
ALBERTA BY DIVISIONS, 1944-Continued		1-4 years	M.	
VCE, 194	DEATHS	Under 1 year	F.	0 - 0 - 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 - 0 0 - 0 0 - 0 0 0 - 0 0 0 0 - 0 0 0 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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THE			F.	1200447105880116 12004471105880116
AGES IN BY REG		All Ages	M.	155 155 156 154 156 156 156 156 156 156 156 156 155 155
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AND M	Still-		F.	233 233 233 233 233 233 233 233 233 233
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THS, DE		(Exclus	Total	283325588288282558
TABLE 1.—GENERAL SUMMARY OF BIRTHS, DEATHS AND MAR RIAGES IN AND TOWNS OF 1,000 POPULATION AND OVER, BY REGU		Divisions, Cities and Towns		Edson Edson Grande Prairie Hanna High River Innistail Lacombe Magrath Marath Marath Marath Ponoka Ponoka Raymond Redcliffe St. Paul Stettler Taber Vermilion

AND	
CITIES	
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ALBERTA	OCCURRENCE,
OF	
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ARRIAGES	UND N
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BIRTHS,	JUNNS OF
OF	Ĭ
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AGENERAL	
TABLE 1.	

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	adtric	anns	331 40 12 12 12 13 12 12 12 12 12 12 12 12 12 12 12 12 12
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	5 ye and	M.	3198 145 145 145 145 115 115 115 115 115 115
	years	F.	8 00 1010010 9 000 1010 1010 1010 1010 10
	1-4 3	M.	139 139 132 132 132 132 132 132 132 132 132 133 133
Deaths	1 year	F.	375 315 316 316 316 32 36 36 36 36 36 36 36 37 36 37 36 37 36 31 36 31 36 31 36 31 36 31 31 31 31 31 31 31 31 31 31 31 31 31
	Under 1	M.	520 566 566 566 21 238 213 339 211 339 339 339 339 339 110 110 110 110 110 110 110 110 110 11
		F.	2503 2503 2202 2202 230 243 250 243 2503 2503 2503 2503 2503 2503 2503 250
	All Ages	M.	3857 164 330 85 331 331 331 331 331 331 331 331 331 33
	V	Total	6360 2550 89 1475 1475 1475 1475 1475 1475 1475 1475
	Still-	F.	9373 404 933 142 933 142 933 933 142 933 1821 3322 264 506 2121 107 3388 264 506 3388 169
Rirths	irths)	M.	9942 9544 9544 9544 1455 379 8855 2339 13545 1129 1129 1129 1129 1129 1129 1129 112
	(Exclus	Total	19315 19315 808 1887 458 1877 111 1696 453 947 947 947 947 1066 733 344
	PROVINCE AND DIVISIONS		TOTAL FOR THE PROVINCEDivision No.1Division No.2Division No.3Division No.4Division No.5Division No.6Division No.6Division No.6Division No.1Division No.1

# TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS, IN ALBERTA, 1944

ALBERTA ALBERTA Rural Urban DIVISION No. 1-MEDICINE HAT Rural Urban Urban Urban DIVISION No. 2-MACLEOD Rural Urban Urban Urban Urban Urban City of Medicine Hat Town of Taber Town of Taber City of Lethbridge Town of Balarmore Claresholm Coleman Magred	Total 19372 12475 6897 805 332 332 332 332 332 332 332 332 332 33	Viennet 1988 1998 19986	Eeptnery 2555 February	March March 1589 1589 1589 March	lingA 112 123333 14 14 14 14 14 14 14 14 14 14 14 14 14	231112355 434 888 5312366 1116 11161 May	MONTHS 11235 11235 11235 11235 11235 1148 1148 1148 1148 1148 1148 1148 114	Si 100 101 101 101 101 101 101 101 101 10	faugua 1965 95520 1868 400040	Teques 2555 2555 2555 2555 2555 2555 2555 25	October 0,258,356 0,258,356 0ctober	Tedmovol 255 252 252 252 252 252 252 252 252 25	2000 000 000 000 000 000 000 000 000 00
7	8 <b>8 8 8</b>	4 8200		4 228			10 8 8 9 91	0 <b>3</b> 800	4 281010	10 8500	6 17 16 16	or or 25 23 00	
DIVISION No. 4—NANTON Rural Urban Town of High River	282 284 6 6	1212		88400		69 4 10 10	8844 8844	6.18 10 10	71 8 8 8 8	88 4 4	53	8 <u>1</u> 4 mm	65 8 8 9 9 9 9
DIVISION No. 5-ACADIA Urban Town of Hanna	234 234 55	691	8800	87° 10 10	28	2244	18 18 4 4	58°00	21 C 10 10	123	88 18 4 4	21 5	2244

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No.	V No. 7-BATTLE RIVER V No. 8-RED DEER V of Red Deer Wetaskiwin Wetaskiwin Wetaskiwin Lacombe Ponoka Ponoka Ponoka	No. No.	No. of E No.	w No. 13-BEAVER RIVER w of St. Paul w No. 14-STURGEON
DIVISION Rural Urban City Tow	DIVISION 1 Rural DIVISION 1 Rural Urban City c Town	DIVISION Rural DIVISION Rural Urban Tow	DIVISION Rural Urban City DIVISION Rural Urban	DIVISION N Rural Urban Town DIVISION 1 Rural

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DIVISIONS,	
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), BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS	ntinued
MONTHS,	A. 1944-Continu
ВΥ	SERT
USIVE OF STILLBIRTHS),	IN ALBERTA
OF	
(EXCLUSIVE	
2BIRTHS	
TABLE	

# TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE FOR THE PROVINCE AND IN CITIES OF 5,000 POPULATION AND OVER, 1944

	Tota	al Bir	ths	Le	gitima	ate	Illegitimate		
Province and Cities	Total	Male	Female	Total	Male	Female	Total	Male	Female
TOTAL FOR THE PROVINCE	19372	9978	9394	18523	9540	8983	849	438	411
Calgary	2190	1107	1083	2065	1046	1019	125	61	64
Edmonton	2565	1311	1254	2407	1229	1178	158	82	76
Lethbridge	409	213	196	395	203	192	14	10	4
Medicine Hat	332	176	156	311	164	147	21	12	9

# TABLE 4.—PLURAL BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDREN BORN ALIVE AND STILLBORN BY SEX, IN ALBERTA, 1944

Classification of Births	Number
CASES OF TWINS Two males (both living) One male and one female (both living) Two females (both living One male living and one male stillborn One male living and one female stillborn One male stillborn and one female living One female living and one female stillborn Two males (both still born) Two females (both stillborn)	60 77 70 8 
CASES OF TRIPLETS Two males and one female (all living) One female living and two females stillborn	1
QUADRUPLET BIRTHS Two males and two females (all living)	1
Total multiple births	le 229
Total single live birthsNumb Ma Fema	le   9768
Total single stillbirths	le   158
Total confinements	19473

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20			Dispecified	9
			Other American	
			United State	602 11 13 11 11 11 11 11 11 11 11
			Offier	
		Asia	neque	80 80 80 80 80 80 80 80 80 80 80 80 80 8
1944		A	China	
10.00		-	Other	×
RT			. sivsisoguY	n
ALBERTA.		100 Jaco	uəpəms	1         1         0         0         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         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         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         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
		1013	(.A.S.S.U)	601 332 2358 222 222 222 2238 2238 2238 223
N			Roumania	0 10140 00 00 00 00 00 00 00 00 00 00 00 00 0
PARENTS,			Poland	81 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
RED		DE LE S	Norway	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		be	Netherlands	110 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
OF		Europe	Italy	10 H (0 H (0 K) (0
		Â	Hungary	
AC			Germany	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         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         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         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 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>
BIRTHPLACES	1		France	
RT	Mother		Finland	
100	Mo		Denmark	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC	of		Czechoslovakia	
DNG	ace		Belgium	10         11         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10<
ACCORDING	Birthplace		sittenA	
S	Birt	Posses-	Other	
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IED		10	Other	
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TABLE 6.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO AGES OF PARENTS IN ALBERTA, 1944

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### VITAL STATISTICS BRANCH

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s)		Finnish	13 13	4 11 17 18 18 18 18 18 18 18 18 18 18 18 18 18
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BIR		Czech and Slovak	312	1173 955 1111111111111111111111111111111111
		Bulgarian	11111	
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IRTHS		Total Fathers	8602 4106 2244 2244 236	8960 121 121 121 121 277 277 277 277 277 277
TABLE 7BIRTHS		Racial Origin of Father	British English Irish Scottish Other	European Austrian Bulgarian Czech and Slovak Danish Finnish French Greek Hungarian Greek Hungarian Lithuanian Netherland, Flemish, Walloon Netherland, Flemish, Netherland, Flemish, Netherland, Flemish, Suedish Roumanian Roumanian Polish Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian Roumanian
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ALRERT/ TABLE 7.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO RACIAL ORIGIN OF PARENTS IN

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901 11111 100	41 48	600	101 50 51
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00000000000000000000000000000000000000	4149 2162 1987	182 98 84	4331 2260 2071
1599 35 35 35 35 35 86 9 9 715 715 26 26 26 26 26	18523 9540 8983	849 438 411	19372 9978 9394
Ukrainian Yugoslavic Other	Children born to married mothersMale Female	Children born to unmarried mothers Total Male Female	Children born to all mothers Total Female.

-NON	
OF MOTHERS	
OF	
THE NUMBER	
THE	
SHOWING	AAA
TE BIRTHS AND LIVE BIRTHS IN INSTITUTIONS, S	RESIDENT IN ALRERTA 194.
NI	FN
BIRTHS	RESIDE
LIVE	
AND	
BIRTHS	
LIVE	
8TOTAL	
TABLE	

			All Live	e Births					Births in Institutions	nstitutions		
	Place of occur-	Mothers' residence elsewhere	residence here	Births to resident mothers occurring elsewhere	resident ccurring here	Place of	Place of occur-	Mothers' residence elsewhere	residence	Births to resident mothers occurring elsewhere	resident ccurring here	Place of
	rence	In Canada	In United States	In Canada	In United States	residence	rence	In Canada	In United States	Canada	In United States	residence
Total for the Province	19315	206	24	276	11	19372	16934	192	24	270	6	16997

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, 1944

			All Live	All Live Births					Births in I	Births in Institutions		
Cities	Place of occur-		Mothers' residence elsewhere	Births to resident mothers occurring elsewhere	resident ccurring here	Place of	Place of	Mothers' elsew	Mothers' residence elsewhere	Births to resident mothers occurring elsewhere	resident ccurring here	Diamone
	rence	Canada	In United States	In Canada	In United States	residence	rence	In Canada	In United States	In Canada	In United States	residence
Cities: Calgary Edmonton Lethbridge Medicine Hat	2881 4250 896 601	758 1739 519 279	3	10 32 10 10	<b>1</b> 4	2190 2565 409 332	2872 4233 891 568	754 1731 516 264	50	65 10 10 10 10	-4	2183 2551 405 314

26

	Age not batete	00 HH   HH   H
	and over 45 years	800415 80020000000000000000000000000000000000
	40-44 Xests	233 55 55 55 55 55 55 55 55 55 55 55 55 5
	32-39 Xests	2041 133 273 273 273 273 273 273 273 273 273 2
	20-24 Aeute	3721 3721 533 858 533 566 533 8566 2744 1157 1157 1157 1157
	52-59 Years	5662 11519 11728 653 653 321 153 153 153 153 153 153 153 153 153 15
Iother	20-24 Years	2432 2432 2432 243 243 243 243 243 243 2
of M	12-13 Xests	988 799 1166 1
Age	19 Years	547 413 116 
	18 years	2665 344 344 1
	17 years	1200 1100 11111111111111111111111111111
	16 years	884
	12 Years	NN
	Under 15 yrs.	<b>HH</b>
-		
	Total	18838 5767 5767 5767 5887 5833 18733 18733 18733 18733 1733 1733 17
	Order of Birth of Children	TOTAL Ist child 2nd 3rd 5th 5th 5th 5th 1th 1th 1th 1th 1th 1th 1th 1
	Age of Mother	Age not

-

ATH. IN ALBERTA. 1944         MONTH OF DEATH         MONTH OF DEATH           ATH. IN ALBERTA. 1944         MONTH OF DEATH         MONTH OF DEATH           Rebruary         MA         M. F. M. H.	TABLE 11DEATHS OF CHILDREN (EXCLUSIVE OF STILLBIRTHS) FRO M CER CALENDAR MONTH OF DEATH,	Total under 1 year	January January	Tota Male Femi	USESCerebrospinal meningitisSS9517372423964Scarlet feverSearlet feverSearlet fever11111Whoopping coughDiphtheriaSearlet fever29131611DiphtheriaErystpelasSearlet ferminic889517372423964ErystpelasTuberculosis of the respiratory system853111ErystpelasPurulent Infection and septicaemia853111DysenterySouth8291910893111DysenteryAcute poliomyelitis and polioencephalitis82919108931111Diseases of the thymus glandMeningitis(non-meningococcal)11111111111111111111111111111111111111111111111111111111111111111111111111111111111 <td< th=""></td<>
AUSES IN FIRST YEAR OF LIFE         MONTH OF DEATH         M.       F.       M.       F.       M.       F.       M.       F.         P.       M.       F.       M.       F.       M.       F.       M.       F.       M.         1       1       1       2       2       3       1       3       1       3         2       1       1       2       2       3       1       3       1       1       1         1       1       1       2       3       1       2       2       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       6       4       6       4       6       4       6       4       6       4       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	IN A			M. F. M.	57         30         53           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         2         3           1         1         2         3           1         1         2         3           1         1         2         3           1         1         2         3           1         1         2         3           1         1         2         3           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         1         1
IN FIRST YEAR OF LIFE F. M. F. M. F	IED CAUSI 1, 1944	MON	May .	. M. F.	33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         34         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35<
YEAR OF LIFE YEAR OF LIFE M. F. M. M. F. M. M. F. M.	N	OF		F. M.	32         32         32         32           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         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         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         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1
	YEAR	TH	1sugu Á		<u>26   10   1   1   1   1   4   4   6   11   11  </u>
	LIFE			Į fri	01 10 10 0 1 0 10 1 0 10 10
	AND		Decemper	M. F.	24         33         24         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         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         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         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th=""> <th1< th="">         1         <th1< th=""></th1<></th1<></th1<>

32 11 2 3 1 1 6 1 3 3 1 1 1 2 5 1 1 2 5 1 1 2 5 1 1 2 5 1 1 2 5 1 1 1 2 5 1 1 1 2 5 1 1 1 1	es of stillborn ldren to 1,000 live births	r Rate per 1000 live births	10.6 26.0 5.5 19.2 13.5 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6
1 4 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Rates of children live b	Number of stillbirths	322 333 332 332 332 332 332 32 40 160 161 17 2 32 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
<u>10</u>	nout a dance	Not stated	6 1 1 1 1 1 1 1 1 1 1 1 1 1
TA 220 22	irths with or without physician in attendance	Without physician	20 20 20 20 20 20 20 20 20 20
4 2 1 4 1 3 1 4 ALBER	Births with physician	With	414 1086 1086 342 767 767 767 1086 1089 10892 10892 10892 10892 11522 11522 2189 419 660 140 1522 330 183 330 183 340 183 340 183 340 183 340 1152 1152 1152 1152 1152 1152 1152 115
SIONS, 194	under each	Total births	473 1192 362 362 362 362 1364 101 1364 101 1364 101 1364 380 380 380 380 380 380 380 380 380 380
BY DIVIS	of children of age to 00 births	Number of deaths	611 112 112 112 112 112 112 112
46         22         1         1         5         5         6         1         5         5         6         1         2         2         2         2         2         1         2         2         1         2         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         1         2         1         1         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         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         1         1         1         1         1         1         1         1	Death rate of one year of 1,000	Rate per 1000 live births	289828898888888888888888888888888888888
160       Injury at birth       68       46       22         161       Other diseases peculiar to the first year of life       60       26       34         166-168       Homicides       11       1       1       1         166-168       Homicides       21       14       7       21       14       7         169-195       197       Other violent deaths       21       14       7       21       14       7         199, 200       111-defined and unknown causes of death       7       21       14       7       5       1         199, 200       111-defined and unknown causes of death       12.       11       7       5       1		Divisions and Cities	Division No.1-Medicine Hat (City of Medicine Hat excepted)Division No.2-Macleod (City of Lethbridge excepted)Division No.3-BowDivision No.3-BowDivision No.5-AcadiaDivision No.5-AcadiaDivision No.6-Calgary (Cities of Red Deer and Wetaskiwin excepted)Division No.9-Rocky Mountain HouseDivision No.9-Rocky Mountain HouseDivision No.10-VictoriaDivision No.10-VictoriaDivision No.11-Edmonton (City of Edmonton excepted)Division No.12-EdaonDivision No.13-Beaver RiverDivision No.16-Peace RiverDivision No.16-Peace RiverDivision No.17-AthabascaDivision No. </td

### VITAL STATISTICS BRANCH

		Total	Total under 1 year	1		3	83	82	-	A -		HI	HI				1-		p
	CAUSES OF DEATH	p			Under 1 day	I day and	I week and	2 weeks and 2 weeks and	a weeks and	I month and under 2 mos.	2 months and som 5 mos.	3 months and som # mos.	4 months and	som 8 roba	som 7 roba	7 months and under 8 mos.	som 6 rebui	som 01 rebnu	CONT OF TODIN
		stoT	Mal	Eem	F.	M. F.	M. F	M.F	M.F	M.F.	M.F.	M.F.	M.F.	M.F.	M. F.	M.F.	M.F.	M.F	1
ALL C	ALL CAUSES	889	517 3	372 138	114	93 52	29 19	20	15 25 13	3 40 30	35 28	26 17	20 12 1	15 20	14 13	20 13 1	18 9 1	10 7	-
90	Cerebrospinal meningitis	61	-	1	-			1			1		-		-	-	-		-
060	Whooping o	18	12	16	11	11		11		2 1 1	2 4	2 1		2	I	1	1 1		-
II			I	-	1			-						1			-		
14-22	Tuberculosis of the respiratory sys Tuberculosis other forms	00 0	100	00	11			-		01		1		-	1		1 1		
24		10	0		11					-	-	-						-	
30	Dysentery Svohilis	-	01 -	01 -	-	1				-	1	1	1 1						
33	Influenza	100.	53	61	11			-	2 2 1	110	4 6	1 1	0	4	1 1	2 1	01	0	1 1
36		•	N	N	1 1	11		11				-	1	-		1			
94 81 86	Meningtts (non-meningococcal)	01-10	0100	***	11					H		61	-	1 12		1	1		
105	Diseases of the larvnx	•		N	1.1							1		11				11	-
106		100 8	1	101	11	11		: :	: :		3.5	1.1	11	1 1			1		_
108, 109		48		17	1	I	1 33	4 -	1 2 1	10 5	3 3	010	10 4	000	4.0	60 K	4		-
115									-	1		1000	•			2		1	-
116-118	5		1	1 19	11	-		11		-	1.1	1.1	1	: :	1.1				
130	Acute nephritis	- **	-	1 00		-	-	20	4 6 2	4 7	53	5 4	2 2	4	3 51	3 4	1	1 1	

TABLE 13.-DEATHS OF CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE, BY SEX

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HH H
1 5 1 1
1 1 1 2
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64 HH 10
HH
0 H N H H
N N N
H 10 10
0
CO H 10 10
4H 00 H HHH
401 01 - 00
0H00 0HH HH
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 3 33 39 9
0 0 4 H
10 H H H H H H H H
41-0000
8 094044
13 13 19 19 19
81 99 91 99 99 99 99 99 99 99 99 99 99 99
11 10 11 11 11 11 11 11 11 11 11 11 11 1
511 322 394 12
68 274 266 266 266 211 111 111 111
0 000 440 444
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101111111111111111111111111111111111111
115 112 539 60 60 60 60 11 18 18 18 18 18 18 18 18 18 18 18 18

BIRTHS) AND DEATHS in INSTITUTIONS OF CHILDREN UNDER ONE YEAR OF AGE, CLASSIFIED	
AGE.	
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DEAT	DECEDENTS. IN CITIESOF 5.000 POPULATION AND OVER. IN AL BERTA
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THS	EDE
CBIF	DEC
E OF STILL	E OF
DF S	NCE
VE	DEP
'USI'	RESIDENCI
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) SH	DNG
TABLE 14TOTAL DEATHS (EXCLUSIVE	CCORDING TO
AL I	ACC
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4-1-	
LE 1	
TABI	

		VIII	L SIAIISI
	Place of	residence	68 888 112 112
	Deaths of residents occurring elsewhere	In United States	1111
institutions	Deaths of occurring	In Canada	0 H [0]
Deaths in Institutions	ence	In United States	je
	Residence elsewhere	In Canada	8888 <b>a</b>
	Place of occur-	rence	98 149 25 24
	Place of	residence	75 101 12 21 21
ar	residents elsewhere	In United States	1111
nder one ye	Deaths of residents occurring elsewhere	ดด (ด	
All Deaths under one year	Residence elsewhere	In United States	m
A	Resid	In Canada	36 24 24 24
	Place of occur-	rence	109 163 36 28
	Cities		Cities: Calgary Edmonton Lethbridge Medicine Hat

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, 1944

•		A	All Deaths u	under one year	ar				Deaths in	Deaths in Institutions		
	Place of occur-		Residence elsewhere	Deaths of residents occurring elsewher	residents elsewhere	Place of	Place of occur-	Residence elsewhere	ence	Deaths of reside occurring elsewh	Deaths of residents occurring elsewhere	Place of
	rence	In Canada	In United States	In Canada	In United States	residence	rence	In Canada	In United States	In Canada	In United States	residence
Total for the Province	805	10	4	00	***	889	909	00	4	80	-	602

32

	and over	6161		11		11	11		11	11	111	111		
	95-99 years	21 8 8 13 13				11	11		111	1.1	111	111	1 11	
	90-94 Years	382	000	11	111	11	11		111	11	+ + + +	111		
	82-89 Years	247	1-0-	11	111	11	11	111	1.1.1	- 1	111	111	1 11	
	80-84 Years	197 197		11	111	11	11	111	111	11				
	75-79 years	331 331 331 331 331	61-12 61-12	11		11	1 1	1.1	111	11	0.000		10	
	70-74 years	649 411 411	14	11	111	11	11	111	11		00 01 0	3		
	65-69 years	655 437 218	31								99	310	10	
	60-64 years	573 395 178	880	11		11				11	0 K2 C	7 <del>4</del>	04	
	22-23 Xests	465 297 168	15 13	11	111	11			111	11	4.03.	4 01	44.03	
	20-24 Years	314 183 131	22 16	61		11			1		1- 611	- 64	6	
AGES	42-49 AGULS	206 126 80	26 18 8	1		11	11		11	11	12	9	04	
AC	40-44 Years	188 99 89	19 13 6			11				11	00100	000	00 00	
	35-39 years	128 62 66	20 10	-	111	11	11	1	11	11	10.00	010	4.00	
	30-34 Years	106 58 48	21 13 8	1	111		11	111	111	11	12		1-9	
	52-59 Years	114 64 50	15 10 10	11			11		11	11	13	10	12	
	50-54 Aests	131 82 49	29 12 17	11		11	1			11	10	112	10	
	15-19 years	130	38 20 18			-		• • • •			13	12	6 12	
	10-14 Years	104 55 49	16	1	111	1 1	1	111	1,1		.8 14	120	1122	
	2-9 Acuts	60 53	40 17 23	-		-	-		63	11	- se 4 1	0.00	1 10	
	4 Acuts	34 20 24	00 10 00	11	111	: 1	1	111	-	11	01 00 -			
	3 Years	17 23	11-12	-	111	11			-	11	44.	- []		
	5 Years	5388	26 13 13	11	111	11	01	01 01	-	1.1	ND E	# 03 E	40	
	1 Year	99 58 41	40 26 14	11	111	-	1	01 44	111	41	10 10 0	0 00	10 01	
	Under 1 year	889 517 372	101 57 44	11			11	13		11	00 09 1	000	10.00	
-	IstoT	6320 3823 2497	578 339 239	010	111	4.	-1-0	18	00 01	-	160	101	108	
				11	111	11	11	11		11	111	111	TT	
		ale	ale	ale	ale	ale	ale	ale	ale	ale	ale	ale	ale	
	1188 88	Total Male Female	Total Male Female	Male	Female	Female	Male	Male	Male Female Male	Female	Total Male Female	Male Male	Female Female	
-		HAN I	HZH	244	1 HING	124	424	124	SES	in est	ala	N H N		
	CAUSES OF DEATH	DEATHS-ALL CAUSES	CLASS L-INFECTIOUS AND PARASITIC DISEASES	1 Typhoid fever		6 Cerebrospinal meningitis	8 Scarlet fever		10 Diphtheria 11 Ervsibelas	12 Tetanus	Tuberculosis	<ol> <li>1. UDDETCHIOSIS OF the FESPIRATORY SYSTEMSUD-LOTAL MALE</li> <li>(a) With mention of occupational diseases of lungs Male</li> </ol>	(b) Without mention of occupational diseases of lungs	
		DEAJ	CLAS								13-22			

54			VITAL STATISTICS BRANCH	
11	1	Not Stated		
		and over 100 years		11
		66-96 Xeuts		11
		80-94 Xests		11
1		82-89 Years		11
		80-84 Xests		11
		12-13 AGULS		11
		70-74 years	HH	11
		65-69 years		
		60-64 years		11
		22-23 Xeuls		
		20-24 Aests		11
		42-43 A6918	HE HE	11
	Ages	40-44 Years		11
i	A	32-33 A6918		TI
		30-34 A69L8		
		25-24 years	N	
		20-24 years	10	
		15-19 years		1 1
		10-14 Years	<b>1</b> 2 <b>1 1 1 1 1 1 1 1 1 1</b>	-
- H -				-
		5-9 years		11
	-	4 Years		
		3 Years		11
		2 Years		
		1 Year *		6 1
		Under 1 year	<b>1</b>	
		IstoT	144 11 11 11 11 11 120 20 20 20 20 20 20 20 20 20 20 20 20 2	-
		•		
				9
			Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female	Male
-	-			FN
			rvous m	
			<ul> <li>(c) Unspecified site</li> <li>(d) With mention of dementia praecox</li> <li>Tuberculosis of the meninges and central nersystem</li> <li>Tuberculosis of the intestines and peritoneu</li> <li>Tuberculosis of the bones</li> <li>(a) Tuberculosis of the bones</li> <li>(b) Tuberculosis of the joints</li> <li>(b) Tuberculosis of the joints</li> <li>Tuberculosis of the lymphatic system (broncellular tissue</li> <li>Tuberculosis of the genito-urinary system</li> <li>Tuberculosis of other organs</li> <li>Tuberculosis of other organs</li> <li>(a) Acute generalized miliary tuberculosis</li> <li>(b) Other and unspecified generalized tub</li> <li>Culosis</li> <li>Cunosis</li> <li>Cunococcus infection</li> </ul>	-
			eco ent per sy: sy: retr retr rrcu	-
		1.	pra nd c lum- ub- du du du du du du du du du du du du du	-
		HI	s ar s ar s a s a s a t s ar s ar s ar s ar s a s ar s a s a s a ar s a s a ar s a ar s ar s a ar s ar s	
		CAUSES OF DEATH	aningee ttestine rtebral ae bon ae join ae join anto-u organ miliar miliar d septi	cter
		4	der der erte he he kin sti asti asti asti asti asti asti asti	bat
		0	tte of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to of to to to to to to to to to to to to to	e to
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		0	Unspecified site With mention of dementia praeco erculosis of the meninges and cent system erculosis of the intestines and per erculosis of the bones Tuberculosis of the joints erculosis of the lymphatic system erculosis of the genito-urinary system mesenteric, mediastinal and reta glands excepted) erculosis of the rorgans Acute generalized miliary tubercu Other and unspecified generalize culosis ulent infection and septicaemia	isea
			Unspect With In With In erculosi system erculosi erculosi glands erculosi glands erculosi glands mesentu glands flands ulent in ococcus	d
11			<ul> <li>(c) Unspecified site</li> <li>(d) With mention of dementia pracox Tuberculosis of the meninges and centra system</li> <li>Tuberculosis of the intestines and perit</li> <li>Tuberculosis of the bones</li> <li>(a) Tuberculosis of the joints</li> <li>(b) Tuberculosis of the joints</li> <li>(b) Tuberculosis of the lymphatic system (1 mesenteric, mediastinal and retroj glands excepted)</li> <li>Tuberculosis of the genito-urinary syste</li> <li>Tuberculosis of the genito-urinary syste</li> <li>Tuberculosis of the genito-urinary syste</li> <li>Tuberculosis of other organs</li> <li>(a) Acute generalized miliary tuberculo</li> <li>(b) Other and unspecified generalized culosis</li> <li>(b) Other and sub-cution</li> </ul>	Other diseases due to bacteria
			14 15 16 16 18 18 19 19 20 22 23 23 25 25 25 25	26

TABLE 16.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1944-Continued

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VITAL STATISTICS BRANCH

	CAUSES OF DEATH	(c) Mumps [F]	CLASS IICANCER AND OTHER TUMOURS	Cancer of the buccal cavity and pharynx. Cancer of the buccal cavity and pharynx. (a) Cancer of the oesophagus male (b) Of the stomach male (c) Of the duodenum male (d) Of the rectum and anus male (e) Of the intestines male (f) Of the liver and biliary passages male (g) Of the pancreas male (h) Of the mesentery and peritoneum male (c) Of the mesentery and peritoneum male	(a) Cancer of the Larynx       F         (b) Of the lung       M         (c) Of the Mediastinum and other sites       F         (a) Cancer of the cervix       F
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TABLE 16.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1944-Continued

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# VITAL STATISTICS BRANCH

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		III.—RHEUMATISM, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS, OTHER GENERAL AND VITAMIN DEFICIENCY DISEASES	Acute rheumatic fever       Total         (a) Acute rheumatic heart conditions       Total         (b) Others under this title       Environment         (b) Others under this title       Environment         Chronic rheumatism and other rheumatic diseases       Gout         Diabetes mellitus       Environment         Diseases of the pituitary gland       Total         (a) Simple goitre       (a)         (b) Exophthalmic goitre       (c)         (c) Myxoedema and cretinism       (d)         Diseases of the thymus gland       Diseases of the thymus gland         (b) Exophthalmic goitre       Others under this title         (c) Myxoedema and cretinism       Other adrenal glands (Addison's disease)         Diseases of the adrenal glands (Addison's disease)       Other general diseases
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TABLE 16.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1944-Continued

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y ts use	Primary purpura Haemophilia Pernicious Anaemia Other anaemias	Leukaemias Aleukaemias (Hodgkin's disease excepted) sases of the spleen er diseases of the blood and blood-form organs	HRONIC POISONING AND INTOXI Alcoholism I poisoning by other mine Chronic poisoning by other mine organic substances, non-occupational	SE (
<ul> <li>(a) Osteomalacia</li> <li>(b) Others under this title</li> <li>Scurvy</li> <li>Rickets</li> <li>VDISEASES OF THE BI</li> <li>FORMING ORGANS</li> </ul>	<ul><li>(a) Primary purpura</li><li>(b) Haemophilia</li><li>(a) Pernicious Anaer</li><li>(b) Other anaemias</li></ul>	<ul><li>(a) Leukaemias</li><li>(b) Aleukaemias (Hod</li><li>Diseases of the spleen</li><li>Other diseases of the organs</li></ul>	<ul> <li>(-CHRONIC POISONING AND INTOXICA</li> <li>(c) Alcoholism</li> <li>Lead poisoning</li> <li>(b) Chronic poisoning by other mineral organic substances, non-occupational</li> </ul>	TDISEASES OF THE NER SENSE ORGANS Encephalitis (non-epidemic)
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er diseases of the nervous system Chorea	<ul> <li>(D) Neuritis</li> <li>(c) Paralysis agitans</li> </ul>	(d) Disseminated sclerosis	(e) Others under this title	88 Diseases of organs of vision	89 (a) Otitis and other diseases of the ear	(b) Diseases of the mastoid process	VIL-DISEASES OF THE CIRCULATORY SYSTEM	Diseases of the heart	(b) Pericarditis (acute rheumatic excluded)	Acute endocarditis (non-rheumatic)Sub-total Remaindent	(a) Bacterial endocarditis (acute, subacute or unspecified)	(b) Other acute or subacute endocarditis	(c) Endocarditis (not specified under 45 years).	Chronic affections of the valves and endocardium	(a) Specified valvular diseases (rheumatic)	(b) Other specified valvular diseases (non- rheumatic)	(c) Unspecified valvular lesions and endocarditis Male	93 Diseases of the myocardiumSub-total	(a) Acute myocarditis
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TABLE 16.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1944-Continued

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		<ul> <li>(b) Myocarditis (not specified under 45 y ation (rheumatic)</li> <li>(c) Chronic myocarditis and myocardial d ation (rheumatic)</li> <li>(d) Chronic myocarditis (non-rheumatic)</li> <li>(e) Other myocarditis (not specified)</li> <li>(e) Other myocarditis (not specified)</li> <li>Diseases of the coronary arteries and pectoris</li> <li>(a) Diseases of the coronary arteries.</li> <li>(b) Angina pectoris</li> <li>(b) Angina pectoris</li> <li>(c) Other diseases of the heart (rheumatic lesion)</li> <li>(a) Functional diseases of the heart (non-rheu lesion)</li> <li>(c) Other diseases of the heart (non-rheu diseases of the arterios cerebral haemorrhage excepted)</li> <li>Other diseases of the arteries</li> <li>Other diseases of the arteries</li> </ul>
		<ul> <li>(b) Myocarditis (not specified under 45 years ation (rheumatic).</li> <li>(c) Chronic myocarditis and myocardial degen ation (rheumatic).</li> <li>(d) Chronic myocarditis (non-rheumatic).</li> <li>(e) Other myocarditis (not specified).</li> <li>(e) Other myocarditis (not specified).</li> <li>To biseases of the coronary arteries and ang pectoris.</li> <li>(a) Diseases of the coronary arteries and ang pectoris.</li> <li>(b) Angina pectoris.</li> <li>(c) Diseases of the heart (no orgales).</li> <li>(d) Functional diseases of the heart (no orgales).</li> <li>(b) Other diseases of the heart (non-rheumatic).</li> <li>(c) Other diseases of the heart (non-rheumatic).</li> <li>(c) Other diseases of the heart (non-rheumatic).</li> <li>(d) Other diseases of the heart (non-rheumatic).</li> <li>(h) Other diseases of the arteries excepted).</li> </ul>
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TABLE 16.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1944-Continued

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	CAUSES OF DE	) Diseases of the uterus	-DISEASES OF PRE	Spontaneous, therapeutic or unspecified abor- tion with mention of infection	Spontaneous, therapeutic or unspecified abor- tion without mention of infection	Ectopic gestation with mention of infection	) Ectopic gestation without mention of infection Female	emorrhage of preg	vaemias of pregnar	her diseases and a prior to delivery	Placenta praevia	) Premature separation of placenta	Other haemorrha	ection during chil	erperal toxaemias-	Laceration, rupture or organs and tissues	Other accidents of childhirth
	CAUSES OF DE	(b) Diseases of the uterus (non-venereal)	XIDISEASES OF PREGNANCY, CHILDBIR AND THE PUERPERAL STATE	(a)	(a) Spontaneous, therap tion without mentic	(a) Ectopic gestation v	(b) Ectopic gestation	Haemorrhage of pregnancy, death prior to delivery Female	Toxaemias of pregnancy, death prior to delivery.	Other diseases and accidents of pregnancy, death prior to delivery	(a) Placenta praevia	(b) Premature separ	(c) Other haemorrhage of childbirth	Infection during childbirth and the puerperium	Puerperal toxaemias-following delivery	(a) Laceration, rupture or other trauma of pelvic organs and tissues	(h) Other socident
	CAUSES OF DE	(b) Diseases of the uterus	n	(a)	(a)	(a)	(b) Ectopic gestation					(b) Premature separ	(c) Other haemorrha				(h) Other accident
	CAUSES OF DE	(b) Diseases of the uterus	CLASS XI.—DISEASES OF PRE AND THE PUERPERAL				(b) Ectopic gestation	143 Haemorrhage of preg	144 Toxaemias of pregnar	145 Other diseases and a prior to delivery	146 (a) Placenta praevla	(b) Premature separ	(c) Other haemorrha	147 Infection during chil	· 148 Puerperal toxaemias-	149 (a) Laceration, rupt organs and tissu	(h) Other accident

TABLE 16.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1944-Continued

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150 Other and unspecified conditions of childbirth and the puerperal state	SS XIIDISEASES OF THE SKIN AND CELLULAR Total TISSUE Male Fema	<ul><li>151 Carbuncle and furuncle</li><li>152 Phiegmon and acute abscesses</li><li>153 Other diseases of the skin and cellular tissue</li></ul>	SS XIII.—DISEASES OF THE BONES AND ORGANS Total OF MOVEMENT Male Fema	<ul><li>154 Osteomyelitis and periostitis</li><li>155 Other diseases of the bones (tuberculosis excepted)</li></ul>	156 (b) Diseases of the joints and other organs of movement	SS XIVCONGENITAL MALFORMATIONS	<ul> <li>157 (a) Congenital hydrocephalus</li> <li>(b) Spina bifida and meningocele</li> <li>(c) Anencephalus</li> </ul>	<ul><li>(d) Congenital malformations of the heart</li><li>(e) Others under this title</li></ul>	CLASS XV.—DISEASES PECULIAR TO THE FIRST YEAR Total OF LIFE	158 Congenital debility
	CLASS		CLASS			CLASS			CLA	

TABLE 16.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1944-Continued

CAUSSIS OF DEXTH         CAUSSIS OF DEXTH           CAUSSIS OF DEXTH         200 Statement           139         Premaintre birth           139         Premaintre birth           139         Premaintre birth           130         Diluy at birth           130         Diluy at birth           130         Diluy at birth           131         Dine intracembia or spinal histororriage           130         Dine intracembia or spinal histororriage           130         Dine intracembia or spinal histororriage           131         Dine intracembia or spinal histororriage         State of the intracembia or spinal histororriage           131         Dine diamase pretuitar to the first yare         State of the intercembia or spinal histororriage         State of the intercembia or spinal histororriage           131         Dine diamase pretuitar to the first yare         State of the intercembia or spinal histororriage         State of the intercembia or spinal histororriage         State of the intercembia or spinal histororriage           132         Dine diamase pretuitar to the first yare         State of the intercembia or spinal histororriage         State of the intercembia or spinal histororriage           133         Dine diamase pretuitar to the first yare         State of the intercembia or spinal histororriage         State of the intercembia or spinal histororriage			VITAL STATISTICS BRANCH	
CAUSSIS OF DEATH         CAUSSIS OF DEATH           CAUSSIS OF DEATH         Premittre birth           Premittre birth         Premittre birth           Bijury at birth         Bijury at birth           Ditection at birth         Bijury at b	1	betate toN		111 11
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CAUSESS OF DEATH     CAUSESS OF DEATH       CAUSESS OF DEATH     Premature birth       Premature birth     Premature birth       Premature birth     Birth       Birthy at birth     Sub-total Wate       Birthy     Mahe       Birthy     Birthy       Mahe     Birthy <td></td> <td>60-64 years</td> <td></td> <td>69.64</td>		60-64 years		69.64
CAUSES OF DEATH     CAUSES OF DEATH       CAUSES OF DEATH     CAUSES OF DEATH       Premature birth     Injury at birth       Injury at birth     Injuries       Injuries     Injuries       Injuries     Injuries       Injuries     Injuries       Injuries     Injuries       Injury at birth     Injuries       Injuries     Injuries		22-23 Xeurs		122 m 4
CAUSES OF DEATH     CAUSES OF DEATH       CAUSES OF DEATH     Premature birth       Premature birth     Premature birth       Dijuy at birth     Dijuy at birth       Dijuy at birth     Dibut at birth       Dibut at birth     Dibut a		20-24 Aests		30 20 20
CAUSES OF DEATH     CAUSES OF DEATH       Fremature birth     Fremature birth       Premature birth     Bremature birth       Djuy at birth     Bremature birth       Djurtes     Bremature birth       Dinter discusse peculiar to the first year of the umbilicus pemphilicus and while     Bremature birth       Dinter discusse peculiar to the first year of the umbilicus pemphilicus and while     Bremature birth       Dinter discusse peculiar to the first year of the umbilicus bernphilicus and while     Bremature birth       Dinter infections     Dinter infections     Dinter birterion	ES	42-49 Aests		4 1-1 4
CAUSES OF DEATH     CAUSES OF DEATH       Premature birth     Premature birth       Premature birth     Premature birth       Dijuy at birth     Sub-total       Fremature     Premature       (a) Intracranial or spinal injuries     Premate       Fremature     Premate       (b) Other intracranial or spinal injuries     Premate       Fremature     Premate       (c) Others under this title     23       Difter diseases peculiar to the first year of life     21       Difter diseases peculiar to the first year of life     21       Difter first period     23       Sub-total     Male       Premate     28       Difter first period     28       Difter first period     29       Difter first period     21       Difter first period	AG	40-44 years		61 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
CAUSES OF DEATH       CAUSES OF DEATH         CAUSES OF DEATH       CAUSES OF DEATH         Premature birth       Injury at birth         Dijury at birth       Sub-total         Mate       Injury at birth         Divert structure       Mate         Mate       Mate         Divertion of the unbilicuts pemphigus and       Mate         Diffection of the unbilicuts pemphigus and       Mate         Numot       Diffection		32-39 Years		17 13
CAUSES OF DEATH     CAUSES OF DEATH       CAUSES OF DEATH     Premature birth       Thy at birth     Thy at birth       Thy at birth     Thy at birth       Thy at birth     Sub-total       Thy at birth     Total       Thy at birth     Sub-total       Thy at birth     Sub-total       Thy at birth     Sub-total       Male     96       (a) Intracranial or spinal injuries       Total     Male       (b) Other intracranial or spinal injuries       Male     Sub-total       Male     11       (c) Other under this title     Sub-total       Male     Sub-total       Male <td></td> <td>30-34 Years</td> <td></td> <td>6 325</td>		30-34 Years		6 325
CAUSES OF DEATH     CAUSES OF DEATH       Fremature birth     Fremature birth       Fremature birth     Fremature birth       Fremature birth     Fremature birth       Fremature birth     Mate       (a) Intraceranial or spinal injuries.     Mate       (b) Other intraceranial or spinal injuries.     Mate       (c) Other intraceranial or spinal injuries.     Mate       (b) Other intraceranial or spinal injuries.     Fremale       (c) Other interfactors     Sub-total       Mate     26       (d) Iffe     28       (e) Other interctuals     Fremale       (f) Infection of the unbilicus, pemphigus and       Mate     28       (f) Other interctuals     Fremale       (g) Other interctuals     Fremale       (h) Infection of the unbilicus, pemphigus and       (h) Other interctuals     Fremale       (h) Other interctuals     Fremale       (h) Other interctuals     <		25-29 years		30 330
CAUSES OF DEATH     CAUSES OF DEATH       Fremature birth     Fremature birth       Fremature birth     Fremature birth       Injury at birth     Intracrantal or spinal haemorthage       (a) Intracrantal or spinal haemorthage     Mate       (b) Other intracrantal or spinal haemorthage     Mate       (c) Other intracrantal or spinal haemorthage     Mate       (b) Other intracrantal or spinal haemorthage     Mate       (c) Other intracrantal or spinal injuries     Mate       Remale     8       Mate     23       Mate     24       Mate     23       Mate     24       Mate     24       Mate     24       Mate     24       Mate     24       <		20-24 Years		879 819 200
CAUSES OF DEATH     CAUSES OF DEATH       Premature birth     Premature birth       Injury at birth     Male       Injury at birth     Intracranial or spinal haemorrhage       Injury at birth     Sub-total       Fernale     23       (a) Intracranial or spinal haemorrhage     Male       (b) Other intracranial or spinal haemorrhage     Male       (c) Other intracranial or spinal haemorrhage     Male       (b) Other intracranial or spinal haemorrhage     23       (c) Other diseases peculiar to the first year of     Male       Infection     37       (a) Asphyrta (unspecified), atelectasis     Male       Male     23       (b) Infection of the unbilicus, pempligus and       Male     11       (c) Other specified diseases peculiar to the first       Variale     23       (c) Other specified diseases peculiar to the first       Waite     11       (d) Without dementia     11       (e) Other specified     23       (f) Without dementia     12       (h) Without dementia     12       (h) Without dementia     13       (h) Without dementia     13       (h) Without dementia     14       (h) Without dementia     12       (h) Without dementia     12       (h)		12-19 Years		49 49 53
CAUSES OF DEATH     CAUSES OF DEATH       Premature birth     Premature birth       Injury at birth     Male       Injury at birth     Intracranial or spinal injuries       Injury at birth     Sub-total       Male     11       (b) Other intracranial or spinal injuries       (c) Other intracranial or spinal injuries       Male     11       (b) Other intracranial or spinal injuries       (c) Other intracranial or spinal injuries       Male     11       (a) Asphyxia (unspecified), atelectasis       Male     11       Male     11       (a) Asphyria (unspecified), atelectasis       Male     11       (b) Infection of the unbilicus, pemphigus and brine       Male     11       (c) Other specified diseases peculiar to the first year of life       (a) With dementia       (b) Under infection of life       (c) Other specified diseases peculiar to the first year of life       (c) Other specified diseases peculiar to the first year of life       (c) Other specified diseases peculiar to the first male       (c) Other specified diseases peculiar to the first male       (d) Withe       (e) Other field       (f) Other field		10-14 Aests		1
CAUSES OF DEATH     CAUSES OF DEATH       Premature birth     Premature birth       Premature birth     Premature birth       Injury at birth     Premature birth       (a) Intracranial or spinal injuries     Male       (b) Other intracranial or spinal injuries     Premate       (c) Other intracranial or spinal injuries     Premate       (a) Intracranial or spinal injuries     Premate       (b) Other intracranial or spinal injuries     Premate       (c) Other intracranial or spinal injuries     Premate       (a) Asphyxia (unspecified), atelectasis     Premate       (b) Infection of the umblicus, pemphigus and other infections     Male       (c) Other specified diseases peculiar to the first vear of life     11       (b) Undert infections     Male       (c) Other specified diseases peculiar to the first first     22       (d) With dementia     Male       (e) With dementia     11       (f) Without dementia     Total       (h) Without dementia     11       (h) Without dementia     13       (h) With dementia     14       (h) Without dementia     14       (h) Without dementia     14       (h) Without dementia     14       (h) Without dementia     14       (h) Wale     15       (h) Wale     16   <		2-9 Xeurs		858
CAUSES OF DEATH     CAUSES OF DEATH       Premature birth     Premature birth       Premature birth     Premature birth       Injury at birth     Male       (a) Intracranial or spinal haemorrhage     Pathale       (b) Other intracranial or spinal injuries     Premate       (c) Other intracranial or spinal injuries     Premate       (a) Intracranial or spinal injuries     Premate       (b) Other intracranial or spinal injuries     Premate       (c) Other diseases peculiar to the first year of life     Male       (a) Asphyxia (unspecified), atelectasis     Male       (b) Infection of the unbilicus, pemphigus and other infections     Male       (c) Other specified diseases peculiar to the first year of life     11       (b) With dementia     Male       (c) With dementia     Male       (d) Without dementia     Total       (e) With dementia     Total       (f) Without dementia     Total       (g) With dementia     Total       (h) Without dementia     Total       (h) Without dementia     Total       (h) Without dementia     Total       (h)     With       (h)     Wale       (h)     Wale       (h)     Wale       (h)     Wale       (h)     Total		4 Aests		107
CAUSES OF DEATH     CAUSES OF DEATH       Premature birth     Premature birth       Premature birth     Premature birth       Premature birth     Premature birth       Premature birth     Premature       Fremature birth     Premature       Fremature birth     Premature       Fremature birth     Premature       Fremature birth     Premature       (a) Intracranial or spinal injuries     Premate       (b) Other intracranial or spinal injuries     Premate       (c) Other under this title     Premate       (a) Asphyxia (unspecified), atelectasts     Premate       (b) Infection of the unbilicus, pemphigus and the premate     Premate       (c) Other specified diseases peculiar to the first year of the premate     Premate       (b) With dementia     Premate     Premate       (c) Other specified diseases peculiar to the first prevection     Premate     Premate       (d) Other infections     Premate     Premate     Premate       (e) Other specified diseases peculiar to the first Premate     Premate     Premate       (f) Other specified diseases peculiar to the first Premate     Premate     Premate       (f) Other specified diseases peculiar to the first Premate     Premate     Premate       (f) Other specified diseases peculiar to the first Premate     Premate     Premate		3 years		
CAUSES OF DEATH     CAUSES OF DEATH     Permature birth     Total       Premature birth     Premature birth     Male     141       Premature birth     Male     141     141       (a) Intracranial or spinal haemorrhage     Fernale     98     98       (a) Intracranial or spinal haemorrhage     Fernale     221     221       (b) Other intracranial or spinal injuries.     Fernale     23     23       (c) Other diseases peculiar to the first year of life     Male     23     23       (a) Asphyxia (unspecified), atelectasis     Male     23     23       (b) Infection of the umbilicus, pemphigus and brite     Male     23     23       (c) Other specified diseases peculiar to the first year of remale     23     24       (a) With dementia     Male     24     24       (b) Without dementia     Male     24     24       (c) Other specified diseases peculiar to the first free     26     26       (b) Without dementia     Fernale     26     26       (c) Other meentia     Fernale     26     27       (d) Without dementia     Fernale     26     27       (e) With dementia     Fernale     26     26       (f) Without dementia     Fernale     26       (f) Without dementia <td< th=""><th></th><th>2 years</th><th></th><th>13 33</th></td<>		2 years		13 33
CAUSES OF DEATH     CAUSES OF DEATH       Premature birth     Premature birth       Premature birth     Premature birth       Injury at birth     Male       Injury at birth     Sub-total       Final     Male       Injury at birth     Sub-total       Injury at birth     Sub-total       Final     Male       Intracranial or spinal injuries     Male       Intracranial or spinal injuries     Male       Other intracranial or spinal injuries     Male       Other diseases peculiar to the first year of other infections     Male       If     Premate     23       Male     23       Male     23       Male     24       Male     24       Male     25       Male     26       Male     26       Male     26       Male     27       Male     26       Male     27       Male     26       Male     26       Male     27       Male     28       Male     26       Male     26       Male     27       Male     26       Male     26       Male     26 <t< th=""><th></th><th>I Year</th><th></th><th>517 S12</th></t<>		I Year		517 S12
CAUSES OF DEATH     CAUSES OF DEATH       Premature birth     Male       Injury at birth     Male       Injury at birth     Male       Injury at birth     Sub-total       Premature birth     Male       Injury at birth     Sub-total       Premature birth     Male       (a) Intracranial or spinal injuries     Male       (b) Other intracranial or spinal injuries     Premale       (c) Other intracranial or spinal injuries     Premale       (a) Asphyxia (unspecified), atelectasis     Premale       (b) Infections     Sub-total       Nale     Premale       (c) Other specified diseases peculiar to the first year of life     Male       (b) Infections     Male       (c) Other specified diseases peculiar to the first     Premale       (d) Without dementia     Male       (e) With dementia     Male       (h) Without dementia     Premale       (h) Without dementia     Premale       (h) Without dementia     Premale       Suicides     Total       Suicides     Total		Under 1 year	141 141 111 112 123 255 25 25 25 25 25 25 25 25 25 25 25 25	121
CAUSES OF DEATH     Male       Premature birth     Male       Injury at birth     Sub-total       Premature birth     Sub-total       Premature birth     Sub-total       Male     Male       (a) Intracranial or spinal injuries     Premale       (b) Other intracranial or spinal injuries     Male       (c) Others under this title     Premale       (d) Asphyxia (unspecified), atelectasis     Male       (e) Other infections     Male       (f) Infection of the umbilicus, pemphigus and     Male       (f) Infections     Premale       (f) Infections     Male       (f) Without dementia     Male       (g) With dementia     Male       (h) Without dementia     Premale       Suicides     Total		IntoT	14 15 15 15 15 15 15 15 15 15 15	542 417 125 125 15
CAUSES OF DEATH     Male       Premature birth     Male       Injury at birth     Sub-total       Premature birth     Sub-total       Premature birth     Sub-total       Male     Male       (a) Intracranial or spinal injuries     Premale       (b) Other intracranial or spinal injuries     Male       (c) Others under this title     Premale       (d) Asphyxia (unspecified), atelectasis     Male       (e) Other infections     Male       (f) Infection of the umbilicus, pemphigus and     Male       (f) Infections     Premale       (f) Infections     Male       (f) Without dementia     Male       (g) With dementia     Male       (h) Without dementia     Premale       Suicides     Total				11111
CAUSES OF DEATH         CAUSES OF DEATH         Premature birth       Premature birth         Injury at birth       Sub-total         (a) Intracranial or spinal injuries       Sub-total         (b) Other intracranial or spinal injuries       Sub-total         (c) Other intracranial or spinal injuries       Sub-total         (b) Other intracranial or spinal injuries       Sub-total         (c) Other suder this title       Sub-total         (d) Asphyxia (unspecified), atelectasis       Sub-total         (f) Infection of the umbilicus, pemphigus and       Other infections         (b) Infection of the umbilicus, pemphigus and       Other infections         (a) With dementia       (b) Without dementia         (c) Other specified diseases peculiar to the first year of life       (b) Without dementia         (b) Without dementia       (b) Without dementia         (b) Without dementia       (c) Without dementia         XVIL-VIOLENT OR ACCIDENTAL DEATHS       Total			e e e e e e e e e e	Total Male Female Male Female
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TABLE 16.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1944-Continued

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Conflagration Conflagration excepted) Accidental burns (conflagration excepted) Accidental injury by firearms Accidental injury by firearms Accidental injury by cutting or piercing instruments (a) Accidental injury by cutting or piercing instruments (b) Accidental injury by crushing (b) Accidental injury by crushing (b) Accidental injury by crushing (c) Accidental injury by crushing (c) Lack of care of the new-born (d) Obstruction, suffocation or puncture by in- dested objects (c) Cuther and legal executions (c) Other and legal executions (c) Other and legal executions (c) Other and legal executions (c) Cuther and legal executions (c) Cuther and legal executions (c) Other and legal executions (c) Other and legal executions (c) Other and legal executions (c) Cuther and legal executions (c	ati
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196	

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		and over 100 years	1 1 1/1	+1 1 1		ACCORDING	
		92-99 Years	1111	111	1111111	OR	
		90-94 Years	1111			CC	
		82-89 Years	1111	111			
		80-84 Years		111		ABOVE	
		75-79 Years	1111	111		AB	4908
		10-14 Xeurs	1111	1		193.	
		65-69 years	1111	44	0 0	CLASSIFIED 186 AND 193.	H   H   1040
-Continued		60-64 years	1111	00 00 10			
ntir		22-23 Xests	1111			ARE 185,	1 00100
Co		20-24 Aests	1111				
1944-	AGES	42-49 Years		111		DEATHS 182, 183,	5 1311 1 1 2
19	AC	40-44 Years	1111	111	1111111	DEA' 182,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
H		32-33 Aests	1111				
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TABLE 16CAUSES OF DEATH BY			Male Female Male Female	Total Male Female	Male Female Male Male Male Male Female	CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO TH TQ CIRCUMSTANCES INVOLVING THE ACCIDE	Male Fenale Fenale Fenale Fenale Fenale Fenale Fenale Fenale Fenale Fenale Fenale Fenale Fenale
OF I			AHAH	XVIII-HLI-DEFINED AND UNKNOWN CAUSES Total OF DEATH Male Fema		ORDIN G THE	
AUSES			Deaths of civilians due to operations of war Legal executions	I CAI		ACC	Accidental absorption of poisonous gas
-CP		11.	is of	NMO		THS	stru
16			tion	KN	ase	S I	H H
SLE		HL	Dera	5	Ca	LLI	gas
TAI		DEA	Io o	9	fied	TA	us pier
		IA	le t	A	peci	MST	ono or j ent
		0	s di	B	Isur	CEL	pois
		SES	ian	EIN	d.	AC	of suf all rush
		CAUSES OF DEATH	tivil	DE	ath ned dea wn	OF.	on cal cal y fi v c
		0	Deaths of civilians Legal executions	NUIL-ILL-I	Sudden death (a) Ill-defined (b) Found dead (c) Unknown or unspecified cause	L	rpti, s s anh y b y b y b y b y b
			ths d e	DE	tien Fou Unk	TIO	bsol urn: ech jur, jur, jur,
			Jeat ,ega	VIII N	bude (a) (b) (c)	CA	du,
						SIFI	ntal ntal ntal ntal ntal ntal ntal
			197	CLASS	199 200	ASS	Accidental absorption of poisonous gas Accidental burns auffocation Accidental mechanical suffocation Accidental drowning or piercing Accidental injury by cutting or piercing Accidental injury by tall Accidental injury by crushing Accidents due to electric currents
				CL		CI	Ac Ac Ac Ac Ac

TABLE 17.--CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1944

ANNUAL REPORT, 1944

### VITAL STATISTICS BRANCH

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	October			-	11	11	11	11	11	11	11	-	1	11	11	-	11-			F
	September		• ]	11	11.	11		11	-	11	11	11	11	11	1	• [	11-		1	ĪŢ
-Continued THS	\$suguA		1	11	1 1	11		11	11	1 1	11	11	1 1		• •	101			11-	•
	July		11	11	Ļ	11	11	11.		11	11		1	11	-		1 10			11
MONTHS	əunr		57	11	11	F	11	11	11	1	11	1	11	Π	-	-	- P		6	1
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HOLE	March		-	11		11.		11	11		1						4	61	-	-
	February	1	1			11		11	11	11		-			1	1		1	1	
R THE	January	-		1				11	11	-	1		1	1	1	1	0	1	1	П
FOR	Total	3	90	-		T				0		C1 10	01	1	10	- 01	1	9 1	9	61
I SEX BY MONTHS,		Male	Female	Female	Female	Female	1	Female	Female Male	Female	Female	Female Male	Female	Female	Female	Female Male		Female Male	Female	Female
TABLE 17CAUSES OF DEATH FOR EACH	CAUSES OF DEATH	15 Tuberculosis of the intestines and peritoneum	16 Tuberculosis of the vertebral column	17 (a) Tuberculosis of the bones	(b) Tuberculosis of the joints	18 Tuberculosis of the skin and sub-cutaneous cellular tissue	19 Tuberculosis of the lymphatic system (bronchial, mesen teric, mediastinal and retropertioneal glands excepted)	20 Tuberculosis of the genito-urinary system	21 Tuberculosis of other organs	22 (a) Acute generalized miliary tuberculosis	(b) Other and unspecified generalized tuberculosis	24 Purulent infection and septicaemia	25 Gonococcus infection	26 Other diseases due to bacteria	27 Dysentery	28 Malaria	30 Syphilis	(a) Locomotor ataxia (tabes dorsalis)	(b) General paralysis of the insane	

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     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     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     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     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     1     1     1     1     1     1     1 <th>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     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     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     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     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     1     1     1     1     1     1     1<th>11     2     5     6     6     6     4     3     3       2     1     1     1     1     1     1     1     3     3     3       2     1     1     1     1     1     1     1     1     3     3       2     1     1     1     1     1     1     1     1     3     3       3     3     3     3     3     3     3     3     3       4     1     1     1     1     1     1     1     1       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     3     3     3     3     3       1     1     1     1     1     1     1       3     3     3     3     3     3     3       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1<!--</th--></th></th>	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     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     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     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     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     1     1     1     1     1     1     1 <th>11     2     5     6     6     6     4     3     3       2     1     1     1     1     1     1     1     3     3     3       2     1     1     1     1     1     1     1     1     3     3       2     1     1     1     1     1     1     1     1     3     3       3     3     3     3     3     3     3     3     3       4     1     1     1     1     1     1     1     1       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     3     3     3     3     3       1     1     1     1     1     1     1       3     3     3     3     3     3     3       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1<!--</th--></th>	11     2     5     6     6     6     4     3     3       2     1     1     1     1     1     1     1     3     3     3       2     1     1     1     1     1     1     1     1     3     3       2     1     1     1     1     1     1     1     1     3     3       3     3     3     3     3     3     3     3     3       4     1     1     1     1     1     1     1     1       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     3     3     3     3     3       1     1     1     1     1     1     1       3     3     3     3     3     3     3       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1 </th
	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     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     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     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     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     1     1     1     1     1     1 <td><math display="block"> \begin{bmatrix} 5 \\ 5 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5</math></td>	$ \begin{bmatrix} 5 \\ 5 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5$
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	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1     1     1     1     3       1     1     1     1     1     1       2     2     2     2     2     2       3     3     3     3     3     3       4     1     1     1     1     1       4     1     1     1     1     1

# TABLE 17.-CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1944-Continued

		VITAL STATISTICS BRANCH
1	December	
	November	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	October	
	September	1 10 44 H00 HH4 0H0 0 0 100 H 0 101
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	, yaM	01001001 1 0000 4 4 0 90 010 1
	lingA	4  00000  0     0     0     0     0
	March	
	February	
	January	0 H 0     0 H   0 H   0 H   0 H   0 H   1 H
	Total	37 37 38 38 38 38 38 38 38 38 37 37 37 37 37 37 37 37 37 37
		Male Female Male Female Female Female Male Female Male Female Female Female Female Female Female Female Female Male Female Male Female Female Female Female Female Female Female Female Female Female Female Female Female
	CAUSES OF DEATH	(c) Cancer of the Duodenum         (d) Cancer of the intestines         (e) Cancer of the intestines         (f) Cancer of the liver and biliary passages         (f) Cancer of the pancreas         (g) Cancer of the mesentery and peritoneum         (f) Cancer of the mesentery and peritoneum         (g) Cancer of the Larynx         (h) Cancer of the Larynx         (h) Of the lung         (b) Of the lung         (c) Of the lung         (b) Of the lung         (c) Of the weather sites         (b) Of other and unspecified sites of the uterus         (c) Of the bread         (d) Cancer of the kidney         (e) Of the bread         (f) Cancer of the kidney         (h) Of other and unspecified sites of the uterus         (f) Of the bladder         (h) Of the bladder         (h) Of the bladder         (b) Of the skin         (c) Of other and unspecified sites

56

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- 00 F	-		1 1	1111	14 8 6	0 0
	1 1		11		88 88 88	
H 10 00 100	-		1 1	01	15 10	
0 404	1 1		1 1		11 5	
	11		11		15	H 44 1 40
	64		1 1		11	4444
N 01 1	1 1	01	11	1111	110	8 10 1 1 10 1 10 10 10 10 10 10 10 10 10
2236	9	*01100	11	0101	205	16411 6556 344 22 294 111 164 194 194 194 194 194 194 194 194 194 19
					61 = =	
Male Female Male Male Female Female	Female	Male Female Male Female Female Female	Female	Male Female Male Female	Total Male Female	Male Female Male Male Male Female Male Female Male Female Male Female
	1 1	E S		8	40	3

Male	Female Male	Female Male	Female	Female	Female	Male	Female	Female Male	Female	Female	Female	Male .	Female Male Female	Total Male Female	Male	Female Male	Female Male	Female Male	Male	Male	remale Male Female
Cancer of the brain	Cancer of other and unspecified organs	Non-malignant tumours	(a) Of the ovary	(b) Of the uterus	(c) Of other female genital crgans F	(d) Of the brain and other parts of the central nervous system	(e) Of other and unspecified organs	Tumours of undetermined nature Total	(a) Of the ovary	(b) Of the uterus	(c) Of other female genital organsF	(d) Of the brain and other parts of the central nervous system	(e) Of other and unspecified organs [F]	III.—RHEUMATISM, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS, OTHER GENERAL AND T VITAMIN DEFICIENCY DISEASES	Acute rheumatic fever Total M	(a) Acute rheumatic heart conditions	(b) Others under this title	Chronic rheumatism and other rheumatic diseases	Diabetes meilitus	Diseases of the pituitary gland	Diseases of the thyroid and parathyroid glands <b>Total</b> $\begin{bmatrix} \mathbf{F} \\ \mathbf{F} \end{bmatrix}$
54	55	56						57						CLASS	58			59	61	62	63

## VITAL STATISTICS BRANCH

-	Decemper	
	November	
	October	
	September	
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Contir	2 ngA	
1944-Col	əunr	
WHOLE PROVINCE, 1944-Continued	May	
ROVIN	April	
LE PI	March	
WHC	February	
THE	January	
FOR	IstoT	400 000000 1 1 10000000 11 1
SES OF DEATH FOR EACH SEX BY MONTHS,	EATH	n     Mate       n     Female       Mate     Femal
TABLE 17CAUSES OF DEATH	CAUSES OF DEATH	<ul> <li>(a) Simple goltre</li> <li>(b) Exophthalmic goltre</li> <li>(c) Myxoedema and cretinism</li> <li>(c) Myxoedema and cretinism</li> <li>(d) Others under this title</li> <li>(d) Others under this gland</li> <li>(d) Other general diseases</li> <li>(e) b) Other general diseases</li> <li>(f) Scurvy</li> <li>(f) Scurvy</li> <li>(g) Other general diseases</li> <li>(h) Haemophilia</li> <li>(h) Haemophilia</li> <li>(h) Haemophilia</li> <li>(h) Other anaemias</li> <li>(h) Aleukaemias (Hodgkin's disease excepted)</li> <li>(f) Diseases of the spleen</li> <li>(h) Other diseases of the blood and blood-forming or</li> </ul>

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	1	111	11 14 22 2	1		11			11	11	20	10	-	1	11	10	10		11	
111	1	11	328	-		-	1	e1 m	61	F	19	26	10	-	-	13 2	13			
6161	н	11.	41 13 28 13	1	1		T	-	11	1	24.1	12	10 11		1)	11	9	111	11	
111	1	11	282	1	11		11	-	-	I	18	8	0	-	1	6	9		11	
111	11	11	41	1	-	1 1	11	11	11		12	18	11		.00	4	1-	61	1 101	ſ
111	11	11	\$22		11		2	01	11	F	182	13	6	61	F	10			111	
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111			888	1	11	11		[ ]	11	4	12	12 23	12	-	-	10	10	-	117	Ī
111	11	11	388	-			63	0	11	-	83	10	-	-		12	=	11	111	
111	11	11	888	1	11	11	11	-	-	1	36	120	4 1	-	-	16	14	11	-	
0101	-	11 -	291	4	4 4	P4 -	11 2	11	10	11 N	242	111	91		01 21 21	112	104	4	0.4	
	43	61			0			-					4			4		-		
rotal Male Female	Male Pemale	Male Female Male	remale fotal Male remale	Male .	remale Male	fale Male	remale Male	remale Male	remale Male	Male	Male	Male	fale	amale Male	emale Male	fale Male	remale	'emale	'emale Iale 'emale	
Total Male Female	Male Female	Female Male	Female NSE Total Male Female		Female Male	Male		Male	Female	Male		Male	Male	Male	1	Male	the fotal Male	Female Male	Female Male Female	
	Male		SENSE	Total Male	Female Male	Male	Total Male	Male	Female Male	Male	Total Male	Male	Male	Male Male	1	Male	of the Total	Female Male	Female Male Female	
	Male	organic	AND SENSE		Female Male	Male		Female Male	Female Male	Male		Male	Male	Male	1	Male	of the Total	Female	Female Male Female Fema	
	Male	organic	AND SENSE		Female Male	Female		Female	Female		Total			Female Male	1	Female Male	of the Total		Female Male Female Fema	
	Male	organic	AND SENSE		Female Male	Female Male	Total	Female Male			Total			Female Male	1		of the Total		Fenale Male	
	Male	organic	AND SENSE	Total	Female Male		Total	Female			Total			Female	1		of the Total			
	Male	organic	AND SENSE	Total			Total				Total				1		of the Total			
	Male	organic	AND SENSE	Total			Total				Total				1		of the Total			
		soning by other mineral and organic	AND SENSE	Total			Total				Total				1		of the Total			
		soning by other mineral and organic	AND SENSE	Total			Total				Total				1		of the Total			
			AND SENSE		(a) Intracranial abscess Maie	(b) Others under this title		(a) Simple meningitis Male	(b) Acute cerebrospinal meningitis Male	Diseases of the medulla and spinal cord		(a) Cerebral haemorrhage or effusion	(b) Cerebral embolism and thrombosis Male	(c) Cerebral softening Male	(d) Hemiplegia and other paralysis of unspecified origin Male	(e) With mention of arteriosclerosis Male		mentia praecox)	(b) Others under this title	
CLASS V.—CHRONIC POISONING AND INTOXICATION Total Female	(c) Alcoholism	soning by other mineral and organic	ASES OF THE NERVOUS SYSTEM AND SENSE	Total			Total	Simple meningitis	Acute cerebrospinal meningitis		Total		Cerebral embolism and thrombosis		1	With mention of arteriosclerosis	of the Total	Schizophrenia (dementia praecox)		

# TABLE 17.--CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1944-Continued

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		VITAL STATISTICS BRANCH
1	Decempet	1         1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>
	November	
	October	<u></u>
3	September	
	teuguA	88 88 88 88 88 88 88 88 88 88 88 88 88
THS	July	
SHTNOM	əunr	
	May	
	lingA	
	March	
	February	
	January	
	IntoT	
		Male Female Male Female Male Female Male Female Male Female
	CAUSES OF DEATH	85       Epilepsy         86       Convulsions (under 5 years of age)         87       Other diseases of the nervous system         88       Chorea         (a) Chorea       Total         (b) Neuritis       Total         (c) Paralysis agitans       Total         (d) Disseminated sclerosis       Diseases of organs of vision         88       Diseases of organs of vision         89       (a) Ottits and other diseases of the ear         (b) Diseases of the mastold process       Total         90-95       Diseases of the heart       Total         90-95       Diseases of the heart       Total         90       (b) Prericarditis (acute rheumatic excluded)       Sub-total         91       Acute endocarditis (non-rheumatic excluded)       Diseases of the heart         92       (b) Other acute or subacute endocarditis (acute, subacute or unspecified)         (c) Endocarditis (not specified under 45 years)       Diseases

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# VITAL STATISTICS BRANCH

92	Chronic affections of the valves and endacordium Sub-total	
		Female
	(a) Specified Valvular diseases (rheumatic)	Male
	(h) Other specified valualar diseases (non-rheumatic)	Male
		Female
	(c) Unspecified valvular lesions and endocarditis	Male
-		Female
33	Diseases of the myocardium	Male
		Female
	(a) Acute inyocardius	Fawala
	(h) Munearditie (not enerified under 45 vears)	Male
		Female
	(c) Chronic myocarditis and myocardial degeneration	Meda
	(rneumatic)	Female
	(d) Chronic myocarditis (non-rheumatic)	Male
		Female
	(e) Other myocarditis (not specified)	Male
9.4	Diseases of the coronary arteries and angina	T TANDARD T
5	ris manual ma	
		Female
	(a) Diseases of the coronary arteries	Male
	(h) Angina meetorie	Female Male
		Female
95	Other diseases of the heart Sub-total	
		Female
	(a) Functional diseases of the heart (no organic lesion)	Male
		Female
	(b) Uther diseases of the heart (rheunauc)	Pomolo
	(c) Other diseases of the heart (non-rheumatic)	Male
		Female
96	Aneurysm (heart and aorta excepted)	Male
	in advanced and advanced and	Female
37	Arterioscierosis (coronary or renal scierosis or cerebral homomethed evented)	Mala
		Female
98	Gangrene	Male
00	annon of	Female
RR	am	Female
100	Diseases of the veins	Male
	Discourse of the bilinedratic sectant	Female
TOT	Diseases of the fymbuatic system	Female

### ANNUAL REPORT, 1944

TABLE 17.-CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1944-Continued

		102 103	CLASS	104	105			107	108	109	110		111		112	113
	CAUSES OF DEATH	2 High blood pressure (idiopathic). 3 Other diseases of the circulatory system	CLASS VIIIDISEASES OF THE RESPIRATORY SYSTEM		5 Diseases of the larynx		(c) Bronchitis, unspecified	7 Broncho pneumonia	8 Lobar preumonia	9 Pneumonia (unspecified).	0 (a) Empyema	(b) Other forms of pleurisy	(a) Haemorrhagic infarction and thrombosis of	(b) Other congestion and oedema of the lungs	2 Asthma	
		Male Female Male Female	Total Male Female	Male Female	Male Female Male	Female	Female Male Female	Male	Male	Male	Male	Male	the lungs. Male	Male	Male	Male
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VITAL STATISTICS BRANCH

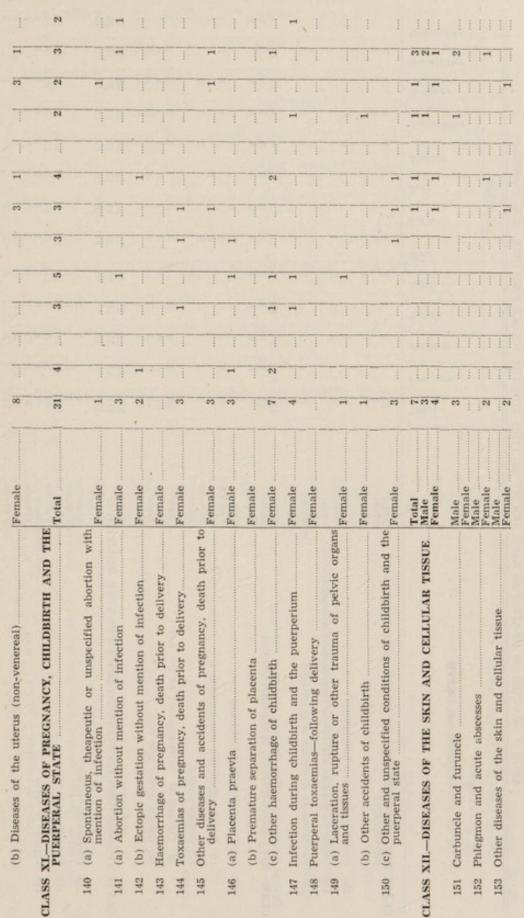
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Male		Female	Female	Female	Total Male Female	Male	Male	Male	Female	Female	Female	Female		age)		ver)		Female	Female	Female				Female
	ms of pneumocon		the respiratory system		DIGESTIVE SYSTEM.	sums		nd tonsils					nder 2 vears of age)	(under 2	ears of ag	(2 vears of					of the liver with mention of alcoholism	out mention of al	he liver	
10	Other and unspecified forms of pneumoconioses	ne of lung	es of		OF THE	Diseases of the teeth and gums	sore throat	s of the pharynx and tonsils	the oesophagus	of the stomach	the	sees of the stomach	oea and enteritis (under	of	and	of the intesti			al obstruction		ds of the liver with	Cirrhosis of the liver without mention of alcoholism	Acute vellow atrophy of the liver	Custown Hown
(a) Silicosis	(q)	(c) Gangrene of			IXDISEASES	(a)	(b) Septic	(c) Diseases	Diseases of	(a) Ulcer	(q)	Oth		9	(a)	9	App		(q),	1		(q)	(a)	(10)
114					CLASS IX	115			116	117		118	119		. 120		121	122		123	124		125	

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TABLE 17CAUSES OF DEATH FOR EACH SEX BY MONTHS,		CAUSES OF DEATH	(b) Other diseases of the liver       Male         126       Biliary calculi       Female         127       Other diseases of the gall-bladder and bile ducts       Female         128       Diseases of the pancreas       Female         129       Peritonitis without stated cause       Female         120       Acute nephritis       Female         130       Acute nephritis       Female         131       Chronic nephritis       Female         132       Nephritis unspecified (over 10 years of age)       Male         133       Other diseases of the kidneys and ureters       Female         134       Calculi of the urinary passages       Female         135       Diseases of the urinary bassages       Female         136       (a) Stricture of the urinary bassages       Female         136       Diseases of the urethra       Male         137       Diseases of the urethra       Female         138       Diseases of the urethra       Male         139       (a) Diseases of the urethra
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		Total Male Female Male Female Male Female Female	Total Male Female	Male Female Male Female Male Male Female Female	Total Male Female Male Female Male Female Male Male Female
	CAUSES OF DEATH	CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF MOVEMENT DISEASES OF THE BONES AND ORGANS OF 154 Osteomyelitis and periostitis 155 Other diseases of the bones (tuberculosis excepted) 156 (b) Diseases of organs of movement	CLASS XIVCONGENITAL MALFORMATIONS	<ul> <li>157 (a) Congenital hydrocephalus</li> <li>(b) Spina bifida and meningocele</li> <li>(c) Anencephalus</li> <li>(d) Congenital malformations of the heart</li> <li>(e) Others under this title</li> </ul>	CLASS XV.—DISEASES PECULIAR TO THE FIRST YEAR OF LIFE 158 Congenital debility 159 Premature birth 160 Injury at birth (a) Intracranial or spinal haemorrhage

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Female Female Male Female Female Female Male Female Female Female	Total Male Female	Male Female Male Female	Total Male Female	al Male Female
<ul> <li>(b) Other intracranial or spinal injuries</li> <li>(c) Others under this title</li> <li>Other diseases peculiar to the first year of life Sub-total</li> <li>(a) Asphyxia (unspecified), atelectasis</li> <li>(b) Infection of the umbilicus, pemphigus and other infections</li> <li>(c) Other specified diseases peculiar to the first year of life</li> </ul>	CLASS XVISENILITY	<ul><li>(a) With dementia</li><li>(b) Without dementia</li></ul>	CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS	Suicides       Total         (a) By corrosive substances, solid and liquid poisonings       (b) By corrosive substances, solid and liquid poisonings         (b) By poisonous gas       (c) By transpulation         (b) By drowning       (c) By firearms or explosives         (c) By firearms or explosives       (c) By trunnents         (d) By cutting or piercing instruments       (c) By jumping from high places         (f) By crushing       (c) By other or unspecified means         (f) By other or unspecified means       (f) By other or unspecified means
161	CLASS	162	CLASS	163, 164 164 164

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TABLE 17.-CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1944-Continued

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SHU	July		4	18	1	01	01	10	I	1	1	11	• ]•	-	-	- 10	
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1	May	111	8	1	10	1 1	1	10	11	1	-	1	1.1*				
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	February	1111	15	63	1	11	11	1	111		1	11	1 1	11		1.	
	January		-23	t- 03	100	CN ]		1-	64	-	-	11	T	1	-	0	
	IstoT		368 12 12	107	e19	8	4	52		10		2010	10 4	41		46	
	CAUSES OF DEATH	Homicide by firearms Homicide by cutting or plercing instruments	Homicide by other or unspecified meansAccidental deathsTotal	169 Railway accidents (excluding motor vehicles) Male	170 Motor vehicle accidents	(a) Collisions with trains Male	(b) Collisions with street-cars Male	(c) Automobile accidents (excluding trains or street-cars) Male	(d) Motorcycle accidents (excluding automobiles).	171 Street-car and other road transport accidents Sub-total Male	(a) Street-car accidents (excluding trains and motor Mala	under this title			uarries	nts Sub-total	[Female
		16	169-195	16	17					17.			171	172	17.	171	

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machinery and Malo $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $2$ $3$ $1$	Female 11 2		and vehicles	Female         Female         Image: Second s	Female	de	Sub-total Weile	Wale with the second se		le	le	Female I	Female 22 4 4 3 1 2 2 1 1 .	Female 6 1 2 1 1 1		le		Female	ng anstruments	32 32	8 1 2 2 3 3 4 6 2 4	Female 7 1 1 1 2 1 1 1 2 1	Female 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Female amount 1 and me we we will and
(a) Accidents involving agricultural machinery and	(b) Injury by animals in agriculture	Other agricultural accidents	nachinery and	(e) Other forestry accidents	Other accidents involving machinery		r ood poisoittiik		<ul> <li>(b) Motor vehicle exhaust gas</li> </ul>	(c) Other carbon-monoxide gas	(d) Other poisonous gases	Acute accidental poisoning by solids or liquids		Accidental burns (conflagration excepted)	Accidental mechanical suffocation		Acidantal introv hu fiyeama	And a second sec	Accidental injury by cutting or piercing instruments	(a) Accidental injury by fall	(b) Accidental injury by crushing			

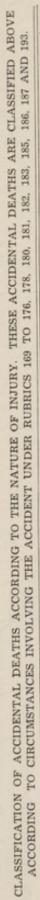
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# TABLE 17.--CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1944-Continued

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	May		-0		4	211	
	April		01		•		
	March		1111 1	1111111	11111	40-	
	February		1111 1			40101	
_	January	0117	100		000 00	31 15	6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Total	-1				40-	
		Male Female Male Female	Female Male Female Male	Female Male Male Male Male Female	remare Male Female Female	Total Male Female	Male Female Male Female Male Male Female
	CAUSES OF DEATH	Lightning Accidents due to electric currents	Attack by venomous animats (non-occupational) Other accidents Sub-total (a) Sequelae of preventive immunization, inoculation or vaccination	<ul> <li>(b) Other accidents due to medical or surgical intervention</li> <li>(c) Lack of care of the new-born</li> <li>(d) Obstruction, suffocation or puncture by ingested objects</li> <li>(e) Other and unspecified objects</li> </ul>	<ul> <li>38 Operations of war and legal executions</li> <li>38 Legal executions</li> </ul>	CLASS XVIIIILL-DEFINED AND UNKNOWN CAUSES OF DEATH	<ul> <li>199 Sudden death</li> <li>200 (a) Ill-defined</li> <li>(b) Found dead</li> <li>(c) Unknown or unspecified causes</li> </ul>
		192 193	195		196-198 198	CLAS	20

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	and over	111	111			1		11	11		11	-	11		111
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		ALI	INF	Typhoid fever	Paratyphoid fever Cerebrospinal meningitis	Scarlet fever	Whooping-cough	Diphtheria	Erysipelas	Tuberculosis	Tuberculosis of the respiratory system Sub-total Male			(c) Unspecified site	(d) With mention of dementia praecox
		J.	I.	f		Sc			Er		100	(a)	(q)	(c	p)
		DEATHS-ALL CAUSES	CLASS IINFECTIOUS AND PARASITIC DISEASES	-	0 10	00	6	10	11	13-22	13				
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TABLE 18.--CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1944

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## VITAL STATISTICS BRANCH

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TABLE 18.--CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1944--Continued

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	the intestines the liver and biliary passages the pancreas	the mesentery and peritoneum neer of the Larynx the lung	the mediastinum and other sites	other and unspecified sites	of the breast	ncer of the kidney	· of the brain of other and unspecified organs		t the uterus other female genital organs	t the brain and other parts of the cent rvous system
	Of the intestines Of the liver and biliary passages Of the pancreas	Of the mesentery and peritoneum Cancer of the Larynx Of the lung	Of the mediastinum and other sites. Cancer of the cervix	Of other and unspecified sites	cer of the breast	Cancer of the kidney Cancer of the bladder icer of the skin	ncer of the brain			
	<ul><li>(e) Of the intestines</li><li>(f) Of the liver and biliary passages</li><li>(g) Of the pancreas</li></ul>	<ul> <li>(h) Of the mesentery and peritoneum</li> <li>(a) Cancer of the Larynx</li> <li>(b) Of the lung</li> </ul>	<ul><li>(c) Of the mediastinum and other sites.</li><li>(a) Cancer of the cervix</li></ul>	(b) Of other and unspecified sites Cancer of other female organs	Cancer of the breast Cancer of the male genital organs	<ul><li>(a) Cancer of the kidney</li><li>(b) Cancer of the bladder</li><li>Cancer of the skin</li></ul>	Cancer of the brain Cancer of other and unspecified organs			

## VITAL STATISTICS BRANCH

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es	42-49 Years	111		1111		111	111				
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1		Tot Mal Fen		Femal Male Femal Male	Mal	Male Fema Male	Femal Male Male	Fema	Male Fema Male		Male Fema
	CAUSES OF DEATH	III.—RHEUMATISM, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS, OTHER Total GENERAL AND VITAMIN DEFICIENCY DISEASES Male Fema	Acute rheumatic fever <b>Total</b> (a) Acute rheumatic heart conditions (b) Others under this title	Chronic rheumatism and other chronic diseases. Diabetes mellitus	Diseases of the thyroid and parathyroid Total Male glands Total Male	Simple goitre Exophthalmic goitre	(c) Myxoedema and cretinism	Diseases of the adrenal glands (Addison's disease)	Other general diseasesScurvy	IVDISEASES OF THE BLOOD AND BLOOD- FORMING ORGANS	Haemorrhagic conditions
		AND C				(a) Si (b) E	(c) Die				
		CLASS	58	59 61	. 83		5	5 18	66	CLASS	72

# TABLE 18.--CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1944-Continued

- 73		Male	*	11	11	111			111	C1	111	1		111	111	TT		111	111	111	111	111	111	
14	(a) Leukaemias	Female			1 1	63	1		1			-				1			-	I		-		
75	Diseases of the spleen	Female			11				-		11	1 1		11	1 1	11				11	11			
76	Other diseases of the blood and blood-forming organs	Male					1		1		1			-	1		I	+	I	I	-	-		
		Female	-		1		-		-			-		-	1	1	-	-	-		-	-	-	
CLASS '	CLASS VCHRONIC POISONING AND INTOXICATION	Total Male Female	111		111		111	111	111		111	111	111		111	111	m		111	111	111			
77 . 78	Alcoholism Lead poisoning	Male Female Male Female	1111		111		1111	111				1111		1 (77	1111	1111			1111	1111	1111	1111	1111	
CLASS	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	Total Male Female	587			111	111		111		111	6161	110	co   co	11 6 6	4-0	11 1 1 1 1	14 17 10 7 4 10	11 0 0	4 61 61	01 01		111	
80	(a) Intracranial abscess	Male	1		1	-		-	-		1	1			1			11		14	11	11	11	1.1
	(b) Other encephalitis (non-epidemic)	Female Male Female	11		11				11											11		11	11	1.1
81	(a) Simple meningitis	Male	5				1		1			-		11	11		-	11	1 1	11	1 1	11	11	
	(b) Acute cerebrospinal meningitis	Male	1		1	-			-			-		11	11	11	-		11	1 1	1 1	11	11	
82	Diseases of the medulla and spinal cord	Male	C1 -	-	1			1	1		1			11	-	11	F				11		11	1.1
83	Intracranial lesions of vascular origin Total	Male	-95					11			-	-	1 2	101	410	- 00	10	9 10	10 4 11	63 63	6.1	11	11	
	(a) Cerebral haemorrhage or effusion	Male	22						1			-	-		00 01	01	90	4-1			11	11	1 1	1.1
	(b) Cerebral embolism and thrombosis	Male	014			1					-	11	1	-	1	11	I			11	1 1	11	11	1.1
	(c) Cerebral softening	Male				1						11		11	11	10	11			11	-	11	11	: :
	<ul> <li>(d) Hemiplegia and other paralysis of unspecified origin</li> </ul>	Male	1		1			1	1	_				i				-		1	-		1	4.1
	(e) With mention of arteriosclerosis	Female Male Female	18 14			111		111	111						100		4		1010	01-1	-			: :
84	(b) Mental disorders and deficiency (general paralysis of the insane excepted)	Male Female		1				11	11					11	1.1		11	11		11	11	11		i i

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	CAUSES OF DEATH	85       Epilepsy       Male         86       Convulsions (under 5 years of age)       Fema         87       (c) Paralysis ägitans       Male         88       Disseminated sclerosis       Male         89       (a) Disseminated sclerosis       Male         89       (a) Otitis and other diseases of the ear       Pema         89       (a) Otitis and other diseases of the ear       Pema         89       (b) Diseases of the mastoid process       Male         89       (b) Diseases of the mastoid process       Pema         90-55       Diseases of the heart       Total         90-55       Diseases of the valves and endo-       Pema         90       b) Pericarditis (non-rheumatic excluded)       Perica         91       Acute endocarditis (non-rheumatic excluded)       Perica         92       Chronic affections of the valves and endo-       Pema         93       Chronic affections of the valvular diseases (non-       Pema         93       Dither specified valvular diseases (non-       Pema         93       Dither specified valvular lesions and endocarditis       Pema         93       Diseases of the myocardium       Sub-total       Pema         93       Diseases of the myocardium       S
		85 87 88 89 89 90 91 91 91 91 92 92

(a) Acute myocarditis Male		Chronic myocarditis and myocardial degener- ation (rheumatic) Male	Chronic myocarditis (non-rheumatic) Male	Other myocarditis (not specified) Male	Diseases of the coronary arteriesMale	Angina pectoris Male	Other diseases of the heart	Functional diseases of the heart (no organic lesion) Male	Other diseases of the heart (rheumatic) Male	(c) Other diseases of the heart (non-rheumatic). Male	Aneurysm (heart and aorta excepted) Male	Arteriosclerosis (coronary or renal sclerosis or cerebral haemorrhage excepted)		Other diseases of the arteries	Diseases of the veins Male	blood pressure (idiopathic) Male Female	VIII.—DISEASES OF THE RESPIRATORY Total Male SYSTEM Female	Diseases of the nasal fossae and accessory sinuses Male	Diseases of the larynx	(a) Bronchitis, acute	(b) Bror.chitis, chronic Male Female
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	CAUSES OF DEATH	(c) Bronchitis, unspecified         107       Broncho pneumonia         108       Lobar pneumonia         109       Pneumonia (unspecified)         110       (a) Empyema         111       (b) Hemorrhagic infarction, congestion, oedema         112       Asthma         113       Pulmonary emphysema         114       (d) Other diseases of the lungs         115       Pulmonary emphysema         116       Diseases of the plarynx and tonsils         117       (a) Ulcer of the stomach         118       Diseases of the pharynx and tonsils         119       (a) Ulcer of the stomach         111       (a) Ulcer of the stomach         115       (c) Diseases of the stomach         116       Diseases of the stomach         117       (a) Ulcer of the stomach         118       Other diseases of the stomach         119       (a) Diarrhoea and enteritis (under 2 years of age)
	2 2 2	107 108 1108 1110 1111 1112 1113 1113 1114 1114 1115 1116 1116 1116 1117
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TABLE 18.--CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1944--Continued

## ANNUAL REPORT, 1944

# VITAL STATISTICS BRANCH

CAUSES OF DEATH       CAUSES OF DEATH         CAUSES OF DEATH       CAUSES OF DEATH         133       Diseases of the urtimary bladder.         133       Diseases of the urtimary bladder.         134       Diseases of the urtimary bladder.         135       Diseases of the urtimary bladder.         136       Diseases of the urtimary bladder.         138       Diseases of the urtimary bladder.         139       (a) Diseases of the urtimary bladder.         139       (a) Diseases of the urtimary bladder.         130       (a) Diseases of the urtimary bladder.         131       (b) Diseases of the urtimary bladder.         133       (a) Diseases of the urtimary bladder.         133       (a) Diseases of the urtimary bladder.         134       (b) Ofthe urtimary diseases of the urtimary bladder.         135       (b) Diseases of the urtimary diseases of the urtimary disease of the urtimary diseas			VITA	LS	TAT	IST	ICS BR	AN	CH							
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CAUSES OF DEATH       CAUSES OF DEATH         CAUSES OF DEATH       Diseases of the utiliary bladder       90-64 ycons         Diseases of the utiliary bladder       Diseases of the utiliary bladder       90-64 ycons         Diseases of the utiliary bladder       Diseases of the utiliary bladder       90-64 ycons         Diseases of the utiliary bladder       Diseases of the utiliary bladder       90-64 ycons         Diseases of the utiliary bladder       Diseases of the utiliary disease       90-64 ycons         Diseases of the utiliary bladder       Diseases of the utiliary disease       90-64 ycons         Diseases of the utiliary disease       0.0 0 the uterus       90-64 ycons       90-64 ycons         Disease of the uterus       Diseases of the uterus       10 -14 ycons       55-59 ycons       55-59 ycons         Disease of the uterus       Diseases of the uterus       10 -14 ycons       55-59 ycons       55-59 ycons         Aborthon with mention of infection       Premaile       1       1       1       1       1       1       1         Aborthon with mention of infection       Premaile       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<			11111			1		1	I	1	1	1	I	1	1	
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CAUSES OF DEATH       CAUSES OF DEATH       Columnation       Total		20-24 AG9L2		1	1	-		1	1	1	1	1	1	1	1	1
CAUSES OF DEATH       CAUSES OF DEATH       CAUSES OF DEATH         Causes of the urthary bladder       Diseases of the urthary bladder       Total         Diseases of the urthary bladder       Diseases of the urthary urinary Abscess, etc       Male         Diseases of the urthary bladder       Diseases of the urthary urinary Abscess, etc       Male       10         Diseases of the urthary bladder       Diseases of the urthary abscess, etc       Male       10       1         Diseases of the urthary values and parametria       Male       10       1       1       9       4       9       10       10       1       1       9       10       10       10       10       1 <th>02</th> <th>42-49 A69L8</th> <th>11111</th> <th></th> <th></th> <th></th> <th></th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th></th> <th>1</th> <th></th> <th>1</th> <th></th>	02	42-49 A69L8	11111					1	1	1	1		1		1	
CAUSES OF DEATH       CAUSES OF DEATH         CAUSES OF DEATH       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases of the urthary bladder         Diseases of the urthary bladder       Diseases         Diseases of the urthary bladder       Diseases         Diseases of the urthary bladder       Disease         Di Ot the utterus       Female	Age					1			1	1	1	1	1	1	1	
CAUSES OF DEATH       CAUSES OF DEATH         CAUSES OF DEATH       Diseases of the urtinary bladder         Diseases of the urtinary bladder       Diseases of the urtinary bladder         Diseases of the urtinary bladder       Diseases of the urtinary bladder         Diseases of the prostate       Diseases of the urtinary bladder         Diseases of the male genital organs (ngn-venereal)       Male         Diseases of the uterus       Eremale         (a) Diseases of the uterus       Eremale         MUTHE PUERPEAL STATE       Male         Abortion with mention of infection       Female         Abortion without mention of infection       Female         Abortion without mention of infection       Female         Mortion without mention of infection       Premale         Discreting prevent       Discreting         Discreting prevent       Discreting			11111			-				1			1		T	
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CAUSES OF DEATH       CAUSES OF DEATH         CAUSES OF DEATH       Diseases of the urinary bladder         Diseases of the urinary bladder       Diseases of the urinary Abseess, etc.         Diseases of the prostate       Diseases of the prostate         Diseases of the urinary Abseess, etc.       Male         Diseases of the prostate       Diseases of the prostate         Diseases of the urinary Abseess, etc.       Prenale         Diseases of the ovaries, Fallopian tubes and fremale       Diseases of the ovaries, Fallopian tubes and Female         Diseases of the uterus       Diseases of the ovaries, Fallopian tubes and Female       Diseases         Diseases of the uterus       Diseases of the ovaries, Fallopian tubes and Female       Diseases       Diseases         Diseases of the uterus       Diseases of the ovaries, Fallopian tubes and Female       Diseases       Diseases       Diseases         Diseases of the uterus       Diseases of the ovaries, Fallopian tubes and Female       Diseases       Diseases       Diseases         Diseases of the uterus       Abortion without mention of infection       Female       Diseases       Diseases       Diseases         Diseases of pregnancy, death prior to delivery       Female       Diseases       Diseases       Diseases       Diseases         Districtine secenanis of pregnancy, death       Female<			11111				63				1	1	-	1		
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CAUSES OF DEATH       Male       III-14 Year         Diseases of the urthary bladder       Diseases of the urthary bladder       Male       5-9 Years         Diseases of the urthary bladder       Permale       1       1 Year       5         Diseases of the urthary bladder       Permale       2 Years       3 Years         Diseases of the urthary bladder       Permale       2 Years       3 Years         Diseases of the urthary blacks, etc.       Permale       1       1 Year       3 Years         Diseases of the urthar       Under Lyear       2 Years       3 Years       3 Years         Diseases of the uterus       Permale       2       1       1       1       1         ND THE PUERPEAL STATE       CHILDBIRTH       Permale       2       1 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>_</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								_								
CAUSES OF DEATH       CAUSES OF DEATH         Diseases of the urinary bladder.       Diseases of the urinary bladder.         Diseases of the urinary bladder.       Diseases of the urinary bladder.         Diseases of the urinary bladder.       Diseases of the urinary bladder.         Diseases of the male genital organs (non-venereal)       Male         Diseases of the male genital organs (non-venereal)       Male         Diseases of the male genital organs (non-venereal)       Male         Diseases of the ovaries. Fallopian tubes and parametria       Permale         Diseases of the uterus       Male         NUD THE PULERPERAL STATE       Permale         Abortion with mention of infection       Female         Abortion with mention of infection       Female         Abortion with uterus       Permale         Abortion without mention of infection       Permale         Abortion without mention of infection       Permale         (b) Deternature sceparation of pregramecy, death       Permale         (c) Other hade uporeperal state       1		10-14 years	11111		1	-		-	1	:		-	-	1		
CAUSES OF DEATH       CAUSES OF DEATH         Diseases of the urinary bladder       Diseases of the urinary bladder         Diseases of the urethra, urinary bladder       Potel I yean         Diseases of the prostate       Male         Diseases of the prostate       Male         Diseases of the urethra, urinary Abscess, etc.       Male         Diseases of the prostate       Male         Diseases of the ovaries, Falopian tubes and parametria       Permale         (a) Diseases of the ovaries, Falopian tubes and parametria       Permale         (b) Of the uterus       Permale         AND THE PUERFERAL STATE       Permale         (b) Of the uterus       Permale         Abortion with mention of infection       Permale         Abortion without mention of infection       Permale         (a) Piscenses and accidents of pregramcy, death       Permale         (b) Premature seeparation of placenta       Permale         (c) Other and unspecified conditions of childbirth       Permale         (c) Other and unspecified conditions of childbirth       Permale		2-9 Xeurs		1		1		-	1	1	1	1	1	1		
CAUSES OF DEATH     CAUSES OF DEATH       Diseases of the urinary bladder     Diseases of the urinary bladder       Diseases of the urethra, urinary bladder     Diseases of the urethra, urinary Abscess, etc.       Diseases of the male genital organs (non-venereal)     Male       Diseases of the number and     Male       Diseases of the number and     Male       Diseases of the urethra, urinary Abscess, etc.     Prenale       Diseases of the male genital organs (non-venereal)     Male       Diseases of the urethra     Male       Diseases of the ovaries, Fallopian tubes and     Prenale       Diseases of the uterus     Male       (a) Diseases of the ovaries, Fallopian tubes and     Prenale       (b) Of the uterus     Male       Abortion with mention of infection     Prenale       Abortion with mention of infection     Prenale       Abortion with mention of infection     Prenale       Abortion without mention of infection     Prenale       (b) Ectopic gestation without mention of infection     Prenale       (a) Placenta     Prenale       (b) Premature seeparation of placenta     Prenale       (c) Other diseases and accidents of pregnancy, death       (c) Other and unspecified conditions of child       (c) Other and unspecified conditions of child		4 Years		-	-	-	1	1	1	1	-	1		-	1	
CAUSES OF DEATH       CAUSES OF DEATH         Diseases of the urinary bladder       Diseases of the urinary bladder         Diseases of the urethra, urinary Abscess, etc.       Maile         Diseases of the prostate       Maile         Diseases of the urethra, urinary Abscess, etc.       Female         Diseases of the urethra, urinary Abscess, etc.       Female         Diseases of the prostate       Maile         Diseases of the urethra, urinary Abscess, etc.       Female         Diseases of the urethra, urinary Abscess, etc.       Female         Diseases of the vortes, Falloplan tubes and parametria       Maile         (a) Diseases of the ovaries, Falloplan tubes and Parametria       Female         (b) Of the uterus       Maile         (b) Of the uterus       Female         (c) Of the uterus       Female         Abortion with mention of infection       Female         Abortion without mention of infection       Female         (c) Other diseases and accidents of pregnancy, death       Female         (a) Placenta pravia       I         (b) Premature separation of placenta       Female         (c) Other and unspecified conditions of child- birth and the puerperal state       I		3 Years			1	1	1			-	1	1		1		
CAUSES OF DEATH       CAUSES OF DEATH         Diseases of the urinary bladder       Diseases of the urinary bladder         Diseases of the urethra, urinary Abscess, etc.       Male         Diseases of the prostate       Male         Diseases of the urethra, urinary Abscess, etc.       Male         Diseases of the prostate       Male         Diseases of the urethra, urinary Abscess, etc.       Male         Diseases of the prostate       Male         Diseases of the urethra, urinary Abscess, etc.       Male         Diseases of the ovaries, Fallopian tubes and Female       Potal         (a) Distribution without mention of infection       Female       1         Abortion without mention of infection       Female       1         (b) Ectopic gestation without mention of infection       Female       1         (c) Other ha		S years		1	1	1	1	1	-		-	ł.	-	1	-	1
CAUSES OF DEATH       Male         Diseases of the urinary bladder       Male         Diseases of the urethra, urinary Abscess, etc.       Male         Diseases of the prostate       Male         Diseases of the prostate       Male         Diseases of the ovaries, Fallopian tubes and parametria       Female         Diseases of the ovaries, Fallopian tubes and parametria       Female         Diseases of the ovaries, Fallopian tubes and parametria       Female         Diseases of the ovaries, Fallopian tubes and parametria       Female         Diseases of the ovaries, Fallopian tubes and barametria       Female         Diseases of the uterus       Male         (b) Of the uterus       Female         (b) Of the uterus       Female         (c) Other disease and accidents of infection       Female         (d) Premature separation of placenta       Female         (e) Other haemorrhage of childbirth       Female         (f) Premature separation of placenta       Female         (e) Other and unspecified conditions of childbirth       Female		I Year		1	-					-			-	1		
CAUSES OF DEATH       CAUSES OF DEATH         Diseases of the urinary bladder       Diseases of the urinary bladder         Diseases of the urethra, urinary Abscess, etc.       Male         Diseases of the prostate       Male         Diseases of the ovaries, Fallopian tubes and       Female         (a) Diseases of the ovaries, Fallopian tubes and       Female         (b) Of the uterus       Male         Total       Total         (b) Of the uterus       Female         (b) Of the uterus       Female         (c) Of the uterus       Female         (b) Of the uterus       Female         (c) Other handlow of infection       Female         (d) Piccenta praevia       Female         (e) Other handlow of placenta       Female         (f) Premature seeparation of placenta       Female         (f) Other and unspecified conditions of childbirth       Female         (f) Other and unspecified conditions of childbirth       Female		Under 1 year		- m	-	-	< 1	-		-		-	-		-	
CAUSES OF DEATH         CAUSES OF DEATH         Diseases of the urinary bladder       Male         Diseases of the urethra, urinary Abscess, etc.       Male         Diseases of the male genital organs (non-venereal)       Male         Diseases of the number genital organs (non-venereal)       Male         Diseases of the ovaries, Fallopian tubes and parametria       Permale         (a) Diseases of the ovaries, Fallopian tubes and parametria       Permale         (b) Of the uterus       Male         (b) Of the uterus       Permale         (b) Of the uterus       Permale         (b) Of the uterus       Permale         (c) Of the uterus       Permale         (b) Of the uterus       Permale         (c) Other diseases and accidents of pregnancy, death prior to delivery       Permale         (a) Placenta praevia       Permation of infection       Permale         (c) Other haemorrhage of childbirth       Permale       Permale         (c) Other haemorrhage of childbirth       Permale       Permale         (c) Other and unspecified conditions of child-       Permale       Permale		TetoT	1 1 1 1			-	4	1		-			-	-	-	
CAUSES OF DEATH       CAUSES OF DEATH         Diseases of the urinary bladder       Male         Diseases of the urethra, urinary Abscess, etc.       Male         Diseases of the prostate       Male         Diseases of the vorries, Fallopian tubes and parametria       Male         Diseases of the uterus       Male         Diseases of the vorries, Fallopian tubes and parametria       Male         Diseases of the uterus       Male         (b) Of the uterus       Femal         Abortion with mention of infection       Femal         Abortion with mention of infection       Femal         Abortion with utention of infection       Femal         (b) Ectopic gestation without mention of infection       Femal         (c) Other diseases and accidents of pregnancy, death       Femal         (a) Placenta pravia       (a) Placenta       Femal         (b) Premature seeparation of placenta       Femal       (c) Other haemorrhage of childbirth         (c) Other and unspecified conditions of childbirth       Femal			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											-		1
CAUSES OF DEATH         CAUSES OF DEATH         Diseases of the urinary bladder       Diseases of the urinary bladder         Diseases of the urethra, urinary Abscess, etc.       Diseases of the prostate         Diseases of the prostate       Diseases, etc.         Diseases of the ovaries, Fallopian tubes and parametria       Diseases of the ovaries, Fallopian tubes and parametria         (b) Of the uterus       (b) Of the uterus         XIDISEASES OF PRECNANCY, CHILDBIRTH AND THE PUERPERAL STATE         Abortion with mention of infection         Abortion without mention of infection         (b) Ectopic gestation without mention of infection       Diseases and accidents of pregnancy, death prior to delivery         Other diseases and accidents of pregnancy, death prior to delivery       Other haemorrhage of childbirth         (c) Other haemorrhage of childbirth       (c) Other and unspecified conditions of childbirth			e nale e e e		nale	ale	2	ale	ale	ale	ale	nale	nale	nale	nale	nale
CAUSES OF DEATH         CAUSES OF DEATH         Diseases of the urinary bladder       Diseases of the urinary Abscess, etc.         Diseases of the prostate       Diseases, etc.         Diseases of the vorates, Fallopian tubes and parametria       Diseases of the ovaries, Fallopian tubes and parametria         (b) Of the uterus       (b) Of the uterus         XIDISEASES OF PRECNANCY, CHILDBIRTH AND THE PUERFERAL STATE         Abortion with mention of infection         (b) Ectopic gestation without mention of infection         (a) Piscases and accidents of pregnancy, death prior to delivery.         Other diseases and accidents of pregnancy, death prior to delivery         (c) Other haemorrhage of childbirth         (c) Other and unspecified conditions of childbirth			Mal Fen Mal Mal	Mal	Fen	Fen	Tot	Fen	Fen	Fen	Fen	Fen	Fen	Fen	Fen	Fen
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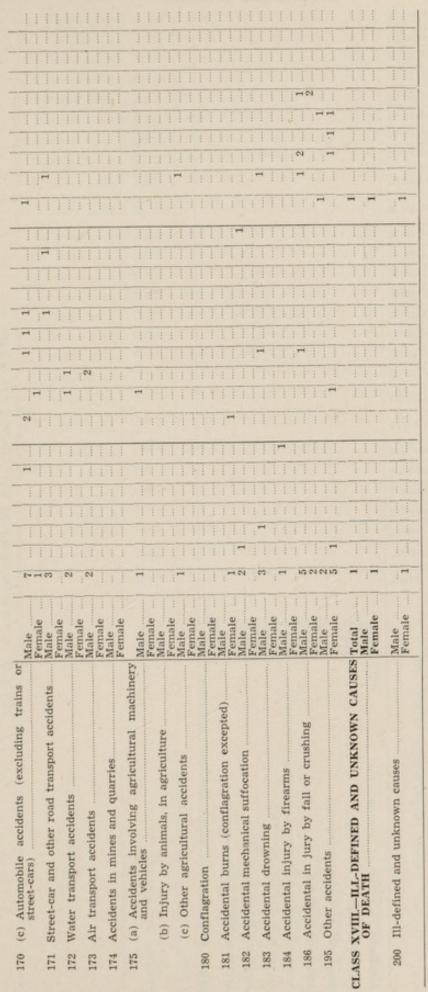
TABLE 18.-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1944-Continued

## ANNUAL REPORT, 1944

## VITAL STATISTICS BRANCH

		V	ITAL	STATIS	TICS	BRANCH
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	20-24 Aests	11	111	TIT	400	
	42-49 A69L2	11	111	1111	000	
Ages	40-44 Years	11	111	1111		
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-	30-34 Aests	-	111	1111	61 64	FIFFITT FITT
	22-23 A6212	- 11	111	TIT	****	
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	12-19 Years				02 CH	
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	2-9 Years	11	111	1111		
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	3 Years	11	111	1111	111	
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	CAUSES OF DEATH	be	×	eme	Ę	v ha ing g o ath ath
	AU	ases	LIT	liem at d	LEN	<ul> <li>pc</li> <li>p</li></ul>
		lise	INS	thot	VIO.	s by licid fir fir fir fur jun des des y a
		er o	S	<ul><li>(a) With dementia</li><li>(b) Without dementia</li></ul>	1	Suicides       To         Suicide by poisoning       Suicide by hanging or strangulation         (a) Suicide by hanging or strangulation       (b) By drowning         (b) By drowning       Interaction         (c) By firearms or explosives       Interaction         (d) By cutting or piercing instruments       Interaction         (e) By jumping from high places       Interaction         Accidental deaths       Accidental deaths         Railway accidents (excluding motor vehicles)
		Other diseases peculiar to the first year of life	M	(a) (b)	IIVI	Sui Sui (a) (b) (b) (c) (d) (d) (d) Hor Hor Rai
		161	S X	162	S X	
		16	CLASS XVISENILITY	Ĩ	CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS	163, 164 163 164 164 164 169-195 169-195
11		1	5		5	16

TABLE 18.-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1944-Continued



86 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, 185, 186, 187 AND 193.

		VITAL STATISTICS BRANC	н
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	and over 100 years		
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	60-64 Years		
	82-89 A6912		
	SIE34 18-08		
	80-84 Years		
	10-14 AGBLE		
	65-69 years		
	S1646 \$9-09		
	22-23 Xests		
0	50-54 years		
AGES	42-49 years		
A	40-44 Years		
	35-39 Years		
	30-34 Years		
	25-29 years		
	20-24 years		
•	12-19 Years		
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TABLE 19.--CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1944

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TABLE 19--CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1944-Continued

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<ul> <li>(f) Liver a</li> <li>(g) Pancre</li> <li>(g) Cancer</li> <li>(b) Of the</li> <li>(c) Of the</li> <li>(c) Of the</li> <li>(a) Cancer</li> <li>(b) Other</li> <li>Cancer of</li> <li>Cancer of</li> </ul>	<ul> <li>(a) (</li> <li>(b) (</li> <li>(b) (</li> <li>(canc</li> <li>Canc</li> <li>Canc</li> <li>Canc</li> <li>(a) (</li> <li>(b)</li> </ul>	(d) ( 57 (d) 7 CLASS III
<ul> <li>(f) Liver and biliary passages</li> <li>(g) Pancreas</li> <li>(a) Cancer of the Larynx</li> <li>(b) Of the lung</li> <li>(c) Of the Mediastinum and other sites</li> <li>(a) Cancer of the cervix</li> <li>(b) Other and unspecified sites of the uterus</li> <li>Cancer of the breast</li> <li>Cancer of the male genital organs</li> </ul>	<ul> <li>(a) Cancer of the kidney</li> <li>(b) Of the bladder</li> <li>Cancer of the skin</li> <li>Cancer of the brain</li> <li>Cancer of other and unspecified organs</li> <li>Non-malignant tumours</li> <li>(a) Of the ovary</li> <li>(b) Of the uterus</li> </ul>	(d) Of the brain and other parts of the central nervous system       Male         (d) Tumours of undetermined nature       Frema OF THE ENDOCRINE GLANDS, OTHER FREMA AND VITAMIN DEFICIENCY DISEASES Frema Fre
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TABLE 19--CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1944-Continued

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		<ul> <li>(b) Other specified valvular diseases (non- rheumatic)</li> <li>(c) Unspecified valvular lesions and endocarditis</li> <li>(e) Unspecified valvular lesions and endocarditis</li> <li>(b) Myocarditis (not specified under 45 years)</li> <li>(c) Chronic myocarditis (non-rheumatic)</li> <li>(d) Chronic myocarditis (non-rheumatic)</li> <li>(e) Other myocarditis (not specified)</li> <li>(f) Chronic myocarditis (non-rheumatic)</li> <li>(g) Other myocarditis (non-rheumatic)</li> <li>(h) Other diseases of the heart (non-rheumatic)</li> <li>(h) Other diseases of the arteries</li> </ul>
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Female     1     1     1     1     1       Male     Male     3 years       Male     1     1     1     1       Male     1     1     1     1     1       Male     2     2     years       Male     1     1     1     1       Male     232     1     1     1       Male     2     2     1     1       Female     1     1     1     1       Male     22     1     1     1       Male     2     2     1     1       Male     1     1     1     1       Female     1     1     1     1       Male     2     2     1     1       Male     1     1     1     1       Female     1     1     1     1       Male     2     2     1     1       Male     1     1     1     1       Female     1     1     1     1       Male     1     1     1     1       Male     1     1     1     1       Female     1     1     1		- In
Female     1     2 Years       Male     Female     2     2 Years       Male     Female     1     1 Year       Male     1     1     1 Year       Male     2     2     2       Male     1     1     1 Year       Male     1     1     1       Male     2     2     2       Male     2     2     2       Male     1     1     1       Female     1     1     1       Male     2     2     2       Male     2     2     2       Male     1     1     1       Male     1     1     1       Female     1     1     1       Male     2     2     1       Male     1     1     1       Female     1     1     1		-
Female     1     1     1     1     1       Male     Male     1     1     1     1     1       Male     Female     33     1     1     1     1       Male     1     1     1     1     1     1       Male     1     1     1     1     1     1       Male     23     1     1     1     1       Female     1     1     1     1     1       Male     2     2     2     1     1       Male     1     1     1     1     1       Male     1     1     1     1     1       Male     2     2     2     1     1       Male     1     1     1     1     1       Male	1	
Male     Total     Total       Female     1     Total       Female     22     1       Male     1     Total       Male     22     1       Male     1     1       Male     22     1       Male     1     22       Male     22     1       Female     1     22       Male     22     1       Female     1     1       Male     22     1       Female     1     1       Male     2     1       Female     1     1       Male     2     1       Female     1     1       Male     1     1       Male     1     1       Female     1     1		
Male     I       Male     1       Female     2       Male     3       Male     1       Female     2       Male     2       Male     2       Male     2       Female     2       Male     2       Female     2       Male     2       Female     1       Female     1	1	- in
Male     Female       Female     Male       Male     Male       Male     Female       Male     Female       Male     Male       Female     Male       Male     Male       Male     Male       Male     Male       Female     Male       Male     Male       Male     Male       Male     Male       Female     Male       Male     Male       Male     Male       Male     Male       Male     Male       Male     Male       Male     Male       Female     Male       Female     Male       Female     Male	1	
Male Female Male Female Male Female Male Female Female Female Female Male Female Male Female Male Female Male Female Female	T	1
	1	
	Total	Female
der and bile duc se AND GENITA and ureters bra bra bra		1 :
CAUSES OF DEATH         CAUSES OF DEATH         125       Other diseases of the liver         126       Biliary calculi         127       Other diseases of the gall-bladder and bile ducts         128       Diter diseases of the gall-bladder and bile ducts         129       Peritonitis without stated cause         130       Acute nephritis         131       Chronic nephritis         132       Other diseases of the kidneys and ureters         133       Other diseases of the urinary passages         134       Calculi of the urinary bladder         135       Diseases of the urethra         136       (a) Stricture of the urethra         137       Diseases of the prostate         138       (a) Diseases of the ovaries. Falloplan tubes and parametria	AND THE PUERPERAL STATE CHILDBIRTH AND THE PUERPERAL STATE CHILDBIRTH Other diseases and accidents of pregnancy. death	prior to delivery
Oth Bill Bill Bill Bill Per SY SY SY SY (a) (b) Dis (a) (b) Dis (a)	Te a	2 H
125 126 127 126 129 129 130 131 131 135 136 136 137 139		

TABLE 19-CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1944-Continued

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CLASS XII.—DISEASES OF THE SKIN AND CELLULAR Total TISSUE	Total Male Female	-					TII					111		 111		111		-	111		TIT			
S AND ORGANS	Female Fotal Male Female			11 11			11 11					1111					-	11 11						
XIVCONGENITAL MALFORMATIONS Fe	Total Male Female	10 8 8 8														i I I				- 111				
Congenital hydrocephalus Spina bifida and meningocele	Male Female Male Female	1000	010201	-	1111	1111	1111	1111			1111	1111			1111		1111	1111	1111	1111		1111		
Congenital malformations of the heart Mi Fe Others under this title Fe	Female Male Male Male Female	40000	4-00					= =				11111				11111			1111	1111				NNUAL 1
CLASS XV.—DISEASES PECULIAR TO THE FIRST YEAR Total OF LIFE DF LIFE FEMA	Total Male Female	12 23	34 22 12	111	111	111	111				111	111	111		111		111	111	111	111	111	111	111	
	Male Female Male Female	14	14	1111		11-11	1111	1111	1111	1111	1111	1111		1111		1111	1111	1111		1111	1111	1111	1111	
Injury at birth, intracranial or spinal hae- morrhage A Other injuries at birth Asphyxia (unspecified), atelectasis A	Male Female Male Female Male	4 1 0	4 1 2	11111				11111				1111								111111	111111		11111	
Other specified diseases peculiar to the first M year of life Fe	Male Female	0 H	- 00		11				11		11	11			1.1			11	11	11				
<u>AWA</u>	Total Male Female	19				111		111		111	111	111	111			0111	0111	00	1	co == c1	10 - 10			
F	Male	-			11	11	11	11		11	11	11	11					-	11	11	11			95

# VITAL STATISTICS BRANCH

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1	sud over 100 years		111	1	11	111	11	11	11	11	1	1 1	11	11	
	82-88 Aests		1	11	11	111	11	11	1	• [		TI	11	11	111
	80-84 Aests	101			11	111	11	11	1	-	1	1 1	11	11	
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2	80-84 Years	F	4-0	1	1 1	111	11	11			1	1 1	-	11	111
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	65-69 years		400-	1	11	111	1	11	.co =	•	61	1 1	-		111
	60-64 years	11	44	-	11	111	1			11		1 1	11		111
	22-23 Aests	11	1-10 01	61	11	1	1	11	000	4	1	1 1	[]	11	111
15	20-24 Aests	11	1.1.1	11			11	11	11	11	1	1 1	11	11	III
	42-49 Years	11	10 00 01	11	11	111	11	11	000	4	1	1 1	11	11	F
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	25-29 years	11		11	11	111	11	11	-	-		1 1	11	11	111
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	12-19 Years	11	66		11.		11		6	11	1	1 1	: 1	1	-
	10-14 Years	11						11	1		1	1 1		1 1	1 1 1
	2-9 Aests	11	0111	11	11	111	11	11	-	1	-	1 1	11	11	111
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	I Year	11	-	11		Ш	11	11		-	1	1 1	-	11	
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		Male	Total Male Female	Total Male Female	Male	Female	Female	Male	Male	Male	Male	Female	Female Female	Male	Male
		-	-	otal				Total				and	11 Mar 10		-
			IS		Suicide by poisoning by corrosive substances, solid and liquid poisons			To		(es)	accidents (excluding trains or	02		-	
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			DE		est		20		-	ve	00	4			
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		tho	OLA	40	Sulcide by poisoning by corrosi solid and liquid poisons	Suicide by drowning	cid	des	ntal	4 3	Automobile street-cars)	Street-car accid motor vehicles)	ler	Irai	dsu
1	1.1.1.2.1	WI	Ĩ	ide	Sul	Sui	Suicide by firearms or explosives	licid	ider	way	Au	Street-car motor vehi	Oth	er	trai
		(b) Without dementia	NII	Suicides	(a)		(c)	Homicides	Accidental deaths	Railway accidents (excluding motor vehicles)	(c) Automobile street-cars)	(a)	(b) Other road transport accidents	Water transport accidents	Air transport accidents
			CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS		163 (	164				I 691	170	171		172 1	173 /
			LAS	163, 164	1	1(		166-168	169-195	10	1	1		1	1

TABLE 19-CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1944-Continued

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<ul> <li>(b) Injury by animals, in agriculture</li> <li>(c) Accidental absorption of poisonous gas Accidental burns (conflagration excepted)</li> <li>Accidental drowning</li> <li>Accidental injury by fall</li> <li>(a) Accidental injury by fall</li> <li>Excessive cold</li> <li>Excessive cold</li> <li>Accidents due to electric currents</li> <li>(d) Obstruction, suffocation or puncture b gested objects</li> <li>(e) Other accidents</li> <li>(e) Other accidents</li> <li>(f) DEATH</li> <li>(f) DEATH</li> </ul>	OF ACCIDENTAL DEATHS ACCORDING TO THE N TO CIRCUMSTANCES INVOLVING THE ACCIDENT on of poisonous gas Male 1 Female 1 Cal suffocation Male 1
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<ul> <li>(b) Injury by</li> <li>(c) Accidental bur Accidental dro</li> <li>(a) Accidental dro</li> <li>(a) Accidental due</li> <li>(b) Accidents due</li> <li>(d) Obstruction</li> <li>(e) Other acci</li> <li>(e) Other Accidental</li> </ul>	ICA ab bu me
<ul> <li>175 (b) Injury by animals, in agriculture</li> <li>178 (c) Accidental absorption of poisonous gas</li> <li>181 Accidental burns (conflagration excepted)</li> <li>186 (a) Accidental injury by fall</li> <li>190 Excessive cold</li> <li>193 Accidents due to electric currents</li> <li>193 Accidents due to electric currents</li> <li>195 (d) Obstruction, suffocation or puncture by ingested objects</li> <li>19 Other accidents</li> <li>19 Other accidents</li> <li>19 Other accidents</li> <li>19 Other Accidents</li> </ul>	SIF
175       (b) Injury by animals, in agriculture       Male         178       (c) Accidental absorption of poisonous gas       Fema         181       Accidental burns (conflagration excepted)       Male         183       Accidental drowning       Fema         186       (a) Accidental injury by fall       Male         186       (a) Accidental injury by fall       Fema         190       Excessive cold       Fema         193       Accidents due to electric currents       Fema         193       Accidents due to electric currents       Fema         193       Accidents due to electric currents       Fema         195       (d) Obstruction, suffocation or puncture by in-       Fema         gested objects       Other accidents       Fema         (e) Other accidents       Fema       Fema         (f) Obstruction       Suffocation or puncture by in-       Fema         (f) Obstruction       Suffocation or puncture by in-       Fema         (f) Other accidents       Fema       Fema         (f) Other accidents       Fema       Fema         (f) Other accidents       Fema       Fema         (f) OFFATH       Fema       Fema         (f) OFFATH       Fema       Fe	CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO THE TO CIRCUMSTANCES INVOLVING THE ACCIDENT Accidental absorption of polsonous gas Male Mate Net Mate Mate Mate Mate Mate Mate Mate Ma
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CLASS XVIIIILL-DEFINED AND UNKNOWN CAUSES Total OF DEATH Mate Female	•				111					111				111				
CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO THE NATURE TO CIRCUMSTANCES INVOLVING THE ACCIDENT UNDER	DING TO THE N	NATURE T UNDER	OF INJUR RUBRICS	OF INJURY. RUBRICS 1	. 69	THESE ACCIDENTAL DEATHS TO 176, 178, 180, 181, 182, 183,	ACCII 178,	DEN' 180.	FAL 181.	DEA' 182,		ARE 185,	CLASSIFIED 186, 187 AND	SSIF1 187 A	ABOVE 193.	ACCORDIN	ORDI	DNI
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	Male Female Male Female Male Female Male Female Female Female Female Female Female Female	10 00 00 00 00 00 00 00 00 00 00 00 00						<b>3</b>	<b>31</b>		H NH				41 21			1111111111111111

#### VITAL STATISTICS BRANCH

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TABLE 20.—CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO THE NATURE OF INJURY. THESE ACCIDENTAL DEATHS ARE CLASSIFIED ACCORD-ING TO CIRCUMSTANCES INVOLVING THE ACCIDENT UNDER RUBRICS 169 TO 176, 178, 180, 181, 182, 183, 185, 186, 187 AND 193.

nt. ist io.	CAUSES OF DEATH	Male	Female
70	Accidental absorption of poisonous gas (c) Automobile accidents (excluding trains or	8	3
75	(c) Other agricultural accidents	1	
78	Accidental absorption of poisonous gas	5	1
30	Conflagration	1	2
70	Accidental burns (c) Automobile accidents (excluding trains or street cars)	34 1	8
13	Air transport accidents (a) Accidents involving agricultural machinery and	4	
15	vehicles (c) Other agricultural accidents	1	
0	Conflagration Accidental burns (conflagration excepted)	21 6	26
32	Accidental mechanical suffocationAccidental mechanical suffocation	9 9	33
70	Accidental drowning (c) Automobile accidents (excluding trains or	51	7
71	(b) Other road transport accidents (excluding street-cars, trains and motor vehicles	1	1
72	(e) Other forestry accidents	6 1	
75 83	Accidental drowning	43	6
75	Accidental injury by cutting or piercing instruments (a) Accidents involving agricultural machinery and	4	1
75	vehicles (c) Other agricultural accidents	1	
75 76	(e) Other forestry accidents Other accidents involving machinery	1	
85	Accidental injury by cutting or plercing instruments		1
	Accidental injury by fall	48	49
69 70	(c) Automobile accidents (excluding motor venicles) street-cars)	3	
71	(b) Other road transport accidents (excluding street-cars, trains and motor vehicles)	2	3
74 75	Accidents in mines and quarries (a) Accidents involving agricultural machinery and	ī	
75	vehicles (b) Injury by animals, in agriculture	23	
75	(c) Other agricultural accidents	1	
76 86	(a) Accidental injury by fall	32	46
	Accidental injury by crushing	170	17
69	Railway accidents (excluding motor vehicles) (a) Collisions with trains	15 8	34
70 70	(c) Automobile accidents (excluding trains or	46	7
70 71	(d) Motorcycle accidents (excluding automobiles) (a) Street-cars accidents (excluding trains and motor	1	2
71	(b) Other road transport accidents (excluding street-cars, trains and motor vehicles)	3	1
73	Air transport accidents	36	
74 75	Accidents in mines and quarries (a) Accidents involving agricultural machinery and vehicles	7 16	
75	(b) Injury by animals, in agriculture	82	
75 75	(e) Other forestry accidents	7	
76 86	Other accidents involving machinery	8 8	
	Accidents due to electric currents	5	
93	Accidents due to electric currents	5	

TABLE 21.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS I N INSTITUTIONS CLASSIFIED ACCORDING TO RESIDENCE OF DECEDENTS IN CITLES OF 5,000 POPULATION AND OVER, IN ALBERTA, 1944

	Place of	residence	572 599 81 81
	Deaths of residents occurring elsewhere	In United States	<b>4</b> 1
Institutions	Deaths of residents occurring elsewhere	Lanada	56 11 5
Deaths in Institutions	ence here	In United States	-101
	Residence elsewhere	In Canada	218 469 55
	Place of occur-	rence	735 1030 169 131
	Place of	residence	913 879 132 143
1	Deaths of residents occurring elsewhere	In United States	0.0 H H
eaths	Deaths of occurring	In Canada	82 115 115
All Deaths	Residence elsewhere	In United States	010000
	Resid	In Canada	258 501 97 66
	Place of occur-	rence	1088 1310 215 197
	Cities		Cities: Calgary Edmonton Lethbridge Medicine Hat

Deaths of residents occurring elsewhere Deaths in Institutions Residence elsewhere . Place of occur-rence Deaths of residents occurring elsewhere All Deaths Residence Place of occur-rence

TABLE 22.-TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS SHOWING THE NUMBER NON-RESIDENT IN ALBERTA, 1944

### ANNUAL REPORT, 1944

99

3616

14

64

10

106

3654

6320

53

134

53

174

6360

Total for the Province

Place of residence

In United States

In Canada

In United States

Canada

Place of residence

In United States

In Canada

In United States

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and the second second	Causes of Death	Canada	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.
1-2	Typhoid fever	132	1	01 12	91-	92	80.98	69.0		00 10	10.00
0 00	Scarlet fever	115	-		. 61	22	31	II	. 61	6	
60	Whooping-cough Dishtheria	336	10 01	28	28	188	54	21	123	1 10	
	Erysipelas	27	1	4	1	00	8		4	001	
13	Tuberculosis of the respiratory system	4.695	51	304	196	2,114	920	270	171	229	79
	Purulent infection and septicaemia	22		1-1		. 16	14	010	1	1-	
80	Syphilis	1 860	91	122	23	271	244	55	33	128	
37	Smallpox	00011	P	3	5 13				TOT		
122	Measles	239			II P	88	38		27	10	-
45-55	Cancer and other malignant tumours	14.215	95	755	503	3,828	5,218		810	781	1,
	Tumours, non-malignant and not specified	414	9 01	22	26	100	144		24	32	
123	Diseases of the thyroid and parathyroid	432	300	12	9	87	188		32	23	
	Anaemias	354	-	28	17	87	140		16	19	
	Leukaemias and aleukaemias	435		17	14	20 20	187	37	30	33	
- 12	Meningitis (non-meningccoccal)	349		15	100	203	28		11	18	
28.2	Intracranial lesions of vascular origin Mental disorders and deficiency (general varalysis of the	9.041	79	581	397	1,717	4,037		496	454	
		202	2	25	21	31	63	80	10	80	
128	Epilepsy	247		13	10	82	20	14	24	14	
90-95	Diseases of the heart and of the mastold process	29,046	220	1,305	1,026	6,492	12,360	1,648	1.599	1.534	ei.
97.	Diseases of the arteries	2.354	20	142	128	562	927	193	88	121	
90		430	9	28	13	130	138	42	26	19	
601	Pnuemonia	5,925	57	393	363	1,826	1,679	352	443	379	
	Haemorrhagic infarction, congestion, oedema and throm-	DOT	a	:		10	-		-		
		400		26	17	156	121	22	25	II	
112	Asthma Disasses of the huccel cavity and anneys and of the	236		13	L	20	18	12	II	18	
		278	- 4	14	12	66	11	16	21	13	
116-118		1.058	1123	88	22	344	326	44	29 98	69	
51	Diarrnoea and enterius Appendicitis	2000	110	30	31	339	185	36	88	54	
53	Hernia, intestinal obstruction	606	5	53	30	257	312	54	62	47	
124	Cirrhosis of the liver Other diseases of the liver	499 699	- 10	13	27	206	219	26	29.02	66.23	
130-132	Nephritis	7,111	61	381	244	3,290	1,959	221	316	257	
	Diseases of the prostate	946	5	54	43	233	311	21	11	LC	

1726 7533 7533 888 888 888 117 113 118 118 118 118 118 118 118 118 118	9,615	9,666
26 2129 542 542 542 542 542 542 542 542	6,274	6,320
112 115 115 115 115 115 115 115 115 116 116	6,423	6,446
105 309 52 53 30 53 17 16 16 25 25 25 25 25 25 25 30 25 30 25 30 30 25 30 30 30 30 30 30 30 30 30 30 30 30 30	6.641	6,688
1,710 1,710 393 393 316 316 316 316 316 316 115 26 36 46 76 115 115 115 115 115 115 115 115 115 11	39.594 75	39,669
2,827 2,823 337 1,816 111 111 111 111 111 111 111 420 429 355 355 355 355 355 355 355 355 355 35	34.544	34,742
2224 2224 2224 2224 2224 2224 2224 222	4,848 273	5,121
111 305 305 306 306 24 24 23 23 23 16 16 16 23 193 23 193	6.053	6.129
388 888   1-12	911 12	923
$\begin{array}{c} 1.995\\ 6.641\\ 6.641\\ 6.641\\ 7.685\\ 7.640\\ 7.640\\ 1.685\\ 1.685\\ 1.685\\ 1.365\\ 1.365\\ 3.59\\ 3.59\\ 3.69\\ 3.69\\ 4.001 \end{array}$	114,886 801	115,687
157       Congenital malformations         158-161       Diseases peculiar to the first year of life         168       Semility         168       Semility         168       Nolent deaths         165, 164       Suicides         166       Railway accidents (excluding motor vehicles)         170       Street-car and other road transport accidents         171       Water transport accidents         172       Mater transport accidents         173       Air transport accidents         174       Agricultural and forestry accidents         175       Other accidents involving machinery         176       Other accidents involving machinery         187       Other specified causes	Total specified causes 199, 200 Unspecified or ill-defined causes	All causes

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Causes of Death	Typhoid fever Cerebrospinal meningitis Scarlet foer Whooping cough	Diphtheria Erysipelas Tuberculosis of the respiratory system Tuberculosis other organs	Purulent infection and septicaemia Syphilis Influenza Smallpox	Measies Acute polionyelitis and polioencephalitis Cancer and other malignant tumours Tumours, non-malignant and not specified	Diabetes mellitus Diseases of the thyroid and parathyroid glands Anaemias Leukaemias and aleugaemias Alcoholism Meningitis (non-meningococcal) Intracranial lesions of vascular origin

TABLE 24.-DEATH RATES PER 100,000 POPULATION FROM CERTAIN SPECIFIED CAUSES, BY PROVINCES, 1944-Continued

102

1943 - 1944 1943	CAUSE OF DEATH	Diseases of the Heart Cancer Clancer Violent Deaths (Suicides excepted) Prolennia (all forms) Pulmonary tuberculosis Influenza Appendicitis Suicides Suicides Cerebral Haemorrhage Diabetes Mellitus Diabetes Mellitus Puerperal Causes Whooping Cough Scarlet Fever Diphtheria Typhoid and Parathyphoid
1944	Number of Deaths	1534 1534 1534 128 128 128 128 128 128 128 128 128 128
	Rate per 100,000 population	11 13315846 313246 3152 46 310
1943	Number of Deaths	1550 748 748 5116 5116 5116 522 77 77 77 77 77 71 1116 896 896 896 896 811 111 1111111111
-	Rate per 100,000	194 194 194 111 111 111 111 111 111 111
	Number of Deaths	1483 784 784 784 785 69 69 69 69 69 76 76 76 76 76 76 76 76 76 76 76 76 76
1942	Rate per 100.000 population	122 122 122 122 122 122 122 122 122 122
1941	Number of Deaths	1394 712 712 712 712 712 712 712 712 712 712
	Rate per 100.000 noitsiuqo	122222222222222222222222222222222222222
1940	Number of Deaths	1086 1159 1159 1159 1159 116 116 116 116 116 116 116 116 116 11
	Rate per 100.000	134 155 155 155 155 155 155 155 155 155 15
1939	Number of Desths	997 997 966 996 996 996 996 996 103 103 103 103 103 103 103 103 103 103
	Rate per 100,000 population	126 126 126 127 127 127 127 127 127 127 127 127 127
1938	Number of Deaths	895 6822 6822 6822 4555 357 488 146 1146 1146 1146 1118 85 85 85 300 85 113 85 113 85 113 85 113 85 113 85 113 85 113 85 113 85 113 85 113 85 113 85 113 85 113 85 113 113 113 113 113 113 113 113 113 11
	Rate per 100,000 population	114 587 587 587 587 588 588 588 588 588 588
1937	Number of Deaths	849 598 598 342 342 342 464 77 70 101 103 103 103 103 103 103 103 103 10
	Rate per 100,000 population	109 109 113 113 115 113 115 115 115 115 115 115
1936	Number of Deaths	801 640 640 123 133 133 133 133 133 133 133 133 133
	Rate per 100,000 population	10 13 13 13 13 13 13 13 13 13 13
1935	Number of Deaths	826 622 6226 6226 833 722 888 888 888 888 888 888 888 888 888
10	Rate per 100,000 population	102 224 2311115 224 232 201 201 201 201 202 202 202 202 202 20

			TABLE 27MARRIAGES-CONJ			
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		===	CONE	1	Bache	Spinsters
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February	147 108 116 118 11 11 207	516	4 OF	Mai	-	Women
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əunr	193 171 38 38 25 9 342 342	161	PARTI		Divore men a	swobiW
1njx	204 148 148 25 25 25 36 6 6 323 323	755		1	bed	Women
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September	169 153 266 14 266 26 216 216	616	RTA,	cent.	egroor o wer	Widowers
October	144 285 287 267 267 267 267		1944	of	e	Divorced
November				Per	Brid	Spinsters
December		69		cent. c	es who	Divorced
	Movember June Jung Jung Jung June June June June June June June June	198     000000000000000000000000000000000000	489     516     402     531     131     133     134     March       489     516     402     531     137     168     137     168     137       794     734     325     255     255     255     255     256     144       731     138     137     138     137     158     137     168       138     207     138     137     158     137     158       139     207     138     137     158     171       731     138     137     158     171     168       130     207     138     137     158     171       731     138     137     158     171     168       131     132     134     158     171     168       131     138     137     168     171       735     235     255     255     256     266       731     342     355     256     144     168       734     355     255     255     255     256       735     136     148     177     169     170       735     256     255     255     255     256	Total         Total         T           Total         Total         T           1         Total         1	Total         Total         T           Total         Total         Total         May         M	Total         Total         Total         Total         Total         March         March <th< td=""></th<>

TALE 26 - MARTAGE OF BUIDGEOORS AND BRIDE, ALBERTA, 194           TALE 28 - MARTAGE - AGES OF BUIDGEOORS AND BRIDE, ALBERTA, 194           TALE 28 - MARTAGE - AGES OF BUIDGEOORS AND BRIDE, ALBERTA, 194           TALE 28 - MARTAGE - AGES OF BUIDGEOORS AND BRIDE, ALBERTA, 194           TALE 28 - MARTAGE - AGES OF BUIDGEOORS AND BRIDE, ALBERTA, 194           TALE 28 - MARTAGE - AGES OF BUIDGEOORS AND BRIDE, ALBERTA, 194           TALE           TALE <tr< th=""><th>1. 1</th><th>12 &amp; OVET</th><th></th><th>0</th></tr<>	1. 1	12 & OVET		0
THLE 39. MARRIACIES OF BRIDECROOKS AND BRIDES, ALBERTA, 184           Title 30. Milling 10 11 11 11 11 11 11 11 11 11 11 11 11		\$L-0L		111
THELE 36MARTRA CBC - MARTA CBC - MARTA CBC - MARTA ATD BRIDES, ALBERTA, 194           TICLE 36 MARTA CBC -				4 24
TALE 36MARRIACKS - ACES OF BRIDSC AND BRIDS. ALBERTA. 194           TALE 36MARRIACKS - ACES OF BRIDSCAND BRIDS. ALBERTA. 194           Tiddegrooms         Tiddegrooms         Tiddegrooms         Tiddegrooms         Acces of Brides           Tiddegrooms         Tiddegrooms <td></td> <td>and the second designed in the second designe</td> <td>H HANDER</td> <td>92</td>		and the second designed in the second designe	H HANDER	92
TALE 26. MARIACES ACES OF BRIDECROOMS AND BRIDES, ALEBRITA, 1944           Ages of Brides           Ages of Brides           According         Total and according a				72 4
TABLE 36 MARTIACES - AGES OF BRIDECHOOMS AND BRIDES, ALBERTA, 194           Title 36 MARTIACES - AGES OF BRIDECHOOMS AND BRIDES, ALBERTA, 194           Fiddegrooms         Title 36         Title 36 <thtitle 36<="" th="">         Title 36         <thtitle 36<="" th="">         Title 36</thtitle></thtitle>				12 7
TALE 26-MARTAGE-AGES OF BRIDECROOMS AND BRIDES, ALBERTA, 184           Also in tidescooms           Tidescooms         Tides of Brides           761         11         11         12         12         21         22         22         22         23         29         30         31         32/33/4         56/6/6/1         1				13
TALE 26. MARIAGES AGES OF BRIDECROOMS AND BRIDES, ALBERTA, 1944           Ages of Brides           Ages of Brides           Ages of Brides           Ages of Brides           Total and a get a	29			17
TALE 29-MARTIAGES ACES OF BRIDGENOONS AND BRIDES, ALBERTA, 194           TALE 29-MARTIAGES OF BRIDGENOONS AND BRIDES, ALBERTA, 194           Tale 115           Tale 116		46		19
TABLE 38. MARRIAGES- ACES OF BRIDECROOMS AND BRIDES, ALBERTA, 194           TABLE 38. MARRIAGES- ACES OF BRIDECROOMS AND BRIDES, ALBERTA, 194           Table 16 17 18 19 20 21 22 23 24 25           Ages of Brit 18 19 20 21 22 23 24 25           Table 17 18 19 20 21 22 23 24 25           Table 17 18 19 20 21 22 23 24 25           Table 17 18 19 20 21 22 23 24 25           Table 17 18 19 20 21 22 23 24 25           Table 17 18 19 20 21 22 23 24 25           Table 17 18 19 20 21 22 23 24 25           Table 17 18 19 20 21 22 23 24 25           Table 17 18 19 20 21 22 23 24 25           Table 17 18 10 18 12 18 25           Table 17 18 10 18 12 18 25           Table 17 18 10 18 12 18 25           Table 17 18 18 17 18 18 17 18 18 17 18 18 7           Table 27 28 28 17 18 10 28 28 28 17 18 10 28 28 28 17 18 10 28 28 28 17 18 10 28 28 28 17 18 10 28 28 28 17 18 10 28 28 28 17 18 10 28 28 28 28 17 18 10 28 28 28 28 17 18 10 28 28 28 28 28 28 28 28 28 28 28 28 28		45		1 22
TABLE 39. AAARRAGES -AGES OF BRUDGEAOONS AND BRUDES, ALBERTA, 184           TABLE 30. A 17 18 19 20 21 22 22 22 24 25 26 27 28 29 30 31 220333 35 67 33 33 36 47 14 42           TOCOOONS           Table frequencing         Table 11 18 13 14 78 18 17 13 12 15 78 13 12 12 12 13 12 15 78 13 12 12 12 13 12 15 78 13 12 12 12 13 12 12 12 13 13 13 15 13 13 13 13 13 13 13 13 13 13 13 13 13		44		
TABLE 38-MARTIACES - AGES OF BRIDEGROOMS AND BRIDES, ALBERTA, 1944           Table 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 28 33 66 7738 39 66 7738 39 46 41           Ages of Brides           Go 21 22 23 24 25 26 27 28 29 30 31 31 27 21 21 1           Ages of Brides           Ages of Brides           Ages of Brides           BRIDEGROOMS AND BRIDEGROMS AND BRIDES, ALBERTA, 134           Ages of Brides           Go 31 73 10 12 67 53 41 20 11 15 6 22           Go 31 73 10 12 67 53 41 20 21 12 67 13 13 10 14 20 20 31 13 15 12 12 11 11 15 6 12 11 11 13 11 11 11 11 11 11 11 11 11 11		5 43		26 3
TALLE 29-MARRIAGES-AGES OF BRIDEGROOMS AND BRIDES, ALBERTA. 19           TATE 29-MARRIAGES-AGES OF BRIDEGROOMS AND BRIDES, ALBERTA. 19           Fidegrooms         10         11         13         12         21         21         22         23         24         25         26         30         31         22         23	4			202
TABLE 28-MARRIAGES AGES OF BRIDGROOMS AND BRIDS, ALBERTA.           TABLE 28-MARRIAGES AGES OF BRIDGROOMS AND BRIDS, ALBERTA.           Ages of Bridge           100         11         12	194		-00 - 00 40-4-00 0-400-	32
TABLE 28MARTIACES-ACES OF BRIDGROOMS AND BRIDES, ALBERT           Tridegrooms           File         1         11	2211			29
TALE 28-MARRIAGES AGES OF BRIDGROOMS AND BRIDGS.           TALE 28-MARRIAGES AGES OF BRIDGROOMS AND BRIDGS.           Table grooms         Ages         of         Bridge           13         15         15         15         2	RT	38	H 01 00 01401 4H014000010 0101H H	43
TALE 28-MARRIAGES -AGES OF BRIDEGROOMS AND BRIDES.           TALE 28-MARRIAGES -AGES OF BRIDEGROOMS AND BRIDES.           Table grooms         Ages         of         Brides           7050         11         21         12         22         22         23         24         25         24         23         24         23         24         23         24         23         24         25         24         25         24         25         25         24         25         25         24         25         25         24         25         25         24         25         25         24         25         25         24         25         25         24         25         25         24         25         25         24         25         25         26         27         25         26         27         25         24         25         24         25         26         27         25         24         25         24         26         27         25         26         27         25         24         26         26         27         25         26         27         25         26         27         26         27         26	BE	37		39
TALE 28-MARRIAGES -AGES OF BRIDEGROOMS AND BRIDES.           TALE 28-MARRIAGES -AGES OF BRIDEGROOMS AND BRIDES.           Tridegrooms         Ages of Brides           10         10         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         11         13         13         13         13         13         13         13         14         14         14         14         14         14         14         14         14         14         14         14         14         15         15         15         15         14         15         16 <td>AL</td> <td>36</td> <td></td> <td>46</td>	AL	36		46
TABLE 28MARRIAGES         AGES         OF         OF         AGES         OF         AGES         OF	1000	35		1 57
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TABLE 28MARRIAGES AGES OF BRIDEGROOMS           Tidegrooms         Ages of Corooms         Ages	RI			94 7
TABLE 28MARRIAGES AGES OF BRIDEGROOMS           Tidegrooms         Ages of Corooms         Ages	les les			
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Table 28-MARHAGES_AGES On           Tidegrooms           13         11         11         11         12         2         23         24           13         11         31         17         18         19         20         21         23         24           14         11         31         17         18         19         20         21         23         24         44         <		30		119
Table 28-MARHAGES_AGES On           Tidegrooms           13         11         11         11         12         2         23         24           13         11         31         17         18         19         20         21         23         24           14         11         31         17         18         19         20         21         23         24         44         <	MO	23		149
Table 28-MARHAGES_AGES On           Tidegrooms           13         11         11         11         12         2         23         24           13         11         31         17         18         19         20         21         23         24           14         11         31         17         18         19         20         21         23         24         44         <	ges			187
Table 28-MARHAGES_AGES On           Tidegrooms           13         11         11         11         12         2         23         24           13         11         31         17         18         19         20         21         23         24           14         11         31         17         18         19         20         21         23         24         44         <	A	51	1 1001111222223444204442000000000000000000	10
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Table 28-MARHAGES_AGES On           Tidegrooms           13         11         11         11         12         2         23         24           13         11         31         17         18         19         20         21         23         24           14         11         31         17         18         19         20         21         23         24         44         <				5 2
Table 28MARRIAGES-AGES           Tidegrooms           Total           13         12         13         14         13         13         14         13         13         14         15         14         15         14         15         14         15         14         13         13         14         13 <th13< th="">         13         <th13< th=""></th13<></th13<>	OF	. 61		
TABLE 28-MARRIA           ridegrooms           ridegrooms           13         17         11         12         13         17         13           13         17         11         11         31         17         13         13         17           13         174         1         11         31         17         18         19         20           13         174         1         11         31		24		460
TABLE 28-MARRIA           ridegrooms           ridegrooms           13         13         17         13         13         17           13         13         17         11         13         14         33         17           13         13         17         11         13         14         33         17         19           13         174         1         11         33         47         33         17         19         20           573         13         13         13         33         34         34         34         34         34         34         34         34         34           575         53         1         10         33         34         34         34         34         34           313         1         1         1         1         1         34         34         34         34         34           533         313         10         10         10         10         10         11         11         11         11         11         13         11           533         1         1         1         1	ID	53	11112325615766157661575252555568576	584
TABLE 28-MARRIA           ridegrooms           ridegrooms           13         13         17         13         13         17           13         13         17         11         13         14         33         17           13         13         17         11         13         14         33         17         19           13         174         1         11         33         47         33         17         19         20           573         13         13         13         33         34         34         34         34         34         34         34         34         34           575         53         1         10         33         34         34         34         34         34           313         1         1         1         1         1         34         34         34         34         34           533         313         10         10         10         10         10         11         11         11         11         11         13         11           533         1         1         1         1		13		689
TABLE 28-MARRIA           ridegrooms           ridegrooms           13         13         17         13         13         17           13         13         17         11         13         14         33         17           13         13         17         11         13         14         33         17         19           13         174         1         11         33         47         33         17         19         20           573         13         13         13         33         34         34         34         34         34         34         34         34         34           575         53         1         10         33         34         34         34         34         34           313         1         1         1         1         1         34         34         34         34         34           533         313         10         10         10         10         10         11         11         11         11         11         13         11           533         1         1         1         1	ES			9 66
TABLE 28MAH           Iridegrooms         Iconalis           174         16         17         18         19           174         13         13         13         13         13         13           174         11         13         13         13         13         13         13           174         13         13         13         13         13         13         13           174         13         13         13         13         14         13         14         14         15         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13         14         13 <t< td=""><td>AG</td><td></td><td></td><td></td></t<>	AG			
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# VITAL STATISTICS BRANCH

	Other religions Non-religious denominations Unspecified or unknown	
	United Church of Canada	69 69 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	UnitarianU	
	Swedenborgians	
	Spiritualists	
	Society of Friends	
	Salvation Army	
	Roman Catholics	24 24 24 28 28 28 28 28 24 24 24 24 24 24 24 24 24 24 24 24 24
	Reformed Churches (Christian)	
	Presbyterians	701         18         1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>
	Plymouth Brethren	
	Pentecostal Assemblies	6 6 6
	Oriental religions	
	Non-denominational	H P P P P P P P P P P P P P P P P P P P
Brides	Mormons	
	Motavian Church	
s of	Methodists	
Denominations	Mennonites	<u>1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>
ning	Lutherans	531 239 258 11 11 11 11 255 13 33 33 33 33 33 33 33 33 33 33 33 33
enot	Jewish	1 69 11 10 10 10 10 10 10 10 10 10 10 10 10
	International Bible Students	
	Holiness Movement	
	Greek Catholic Churches	
	Gospel bodies	0 0 II 0 0 II
	Evangelicals	111 111 111
	Doukhobors	
	Church of God	
	Churches of Christ (Disciples)	
	Christian Scientists	
	Christians Christian Missionary Alliance	111111111111111111111111111111111111111
	Christadelphians	
	Brethten including United	
	Baptista	388115 38812 1 1 1 1 2 1 2 1 2 3 3 3 3 3 3 3 3 3 3
	Apostolic bodies	
	Anglicans	380 380 381 381 381 381 381 381 381 381 381 381
	Adventists	
	Total Grooms	40 969 306 11 12 12 15 15 15 22 22 280 280 280 280 104 104
	Denomination of Groom	Adventists Anglicans Anglicans Anglicans Baptists Baptists Baptists Brethren including United Christians Christians Christians Christian Scientists Churchos of Christ Alliane Churchos of Christ (Disciples) Churchos Churchos Churchos Churchos Coukhobors Evangelicals Gospel bodies Gospel bodies Greek Catholic Churches Movement Iutherans Mennonites Mennonites

# TABLE 30.-MARRIAGES-DENOMINATIONS OF CONTRACTING PARTIES, ALBERTA, 1944

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Mormons Non-denominational Oriental religions Pentecostal Assemblies Plymouth Brethren Presbyterians	Reformed Churches Roman Catholics Salvation Army Society of Friends Spritualists Swedenborgians Unitarians Unitarians Unitarians Other religions	Non-reugious genom- inations Unspecified or unknown	Total brides

### VITAL STATISTICS BRANCH

		Divorce	s	Nullities			
Judicial Districts	Number of Divorces	Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife	
Edmonton Calgary Lethbridge Medicine Hat Peace River Grande Prairie	$229 \\ 176 \\ 45 \\ 13 \\ 10 \\ 6$	109 87 19 8 9 5	120 89 26 5 1	31	1	2	
Hanna Red Deer Drumheller Macleod Wetaskiwin Vegreville	521	5 2 1	1				
Total	488	245	243	4	2	2	

# TABLE 31.—DIVORCES AND NULLITIES BY JUDICIAL DISTRICTS FOR THE YEAR 1944

# DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Year	Granted to Husband	Granted to Wife	Total
919         920         921         922         923         924         925         926         927         928         929         929         930         931         932         933         934         935         936         937         938         939         940         941         942         943         944	$\begin{array}{c} 3\\ 74\\ 53\\ 80\\ 57\\ 66\\ 59\\ 79\\ 83\\ 91\\ 77\\ 64\\ 69\\ 68\\ 56\\ 62\\ 74\\ 74\\ 102\\ 105\\ 104\\ 119\\ 135\\ 179\\ 190\\ 245\end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{r} 6\\ 100\\ 90\\ 129\\ 89\\ 119\\ 101\\ 154\\ 149\\ 175\\ 148\\ 151\\ 156\\ 149\\ 135\\ 168\\ 209\\ 209\\ 209\\ 209\\ 241\\ 267\\ 273\\ 311\\ 380\\ 413\\ 488 \end{array}$

#### TABLE 32.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, ALBERTA, 1944

		Months											
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province	920	79	89	82	78	96	74	65	78	60	78	77	64

#### TABLE 33.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), CLASSIFIED AS LSEGITIMATE OR ILLEGITIMATE, ALBERTA, 1944

and the second se	To	Legitimate			Illegitimate				
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	920	487	433	785	426	359	135	61	74

#### TABLE 34.—DEATHS OF INDIAN CHILDREN (EXCLUSIVE OF STILLBIRTHS), FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE FOR EACH SEX, ALBERTA, 1944

Int. list No.	Causes of Death	Total	Male	Female
	ALL CAUSES	146	88	58
6	Cerebrospinal meningitis			
8 9	Scarlet fever Whooping-cough	20	10	10
10	Diphtheria			
11	Erysipelas	4010A	****	
13	Tuberculosis of the respiratory system	7	5	2
14-22	Tuberculosis, other forms	1	1	
24	Purulent infection and septicaemia			a
27	Dysentery	2	1	1
30	Syphilis			1 1111
33	Influenza	16	8	8
35	Measles			
35	Acute poliomyelitis and polioencephalitis			
	Diseases of the thymus gland	1		1
64	Meningitis (non-meningococcal)	2	1	1 1
81	Meningitis (non-meningococcar)	-		1
86	Convulsions Diseases of the ear and of the mastoid process			
89	Diseases of the ear and of the mastord process			
105	Diseases of the larynx			
106	Bronchitis	20	13	7
107	Bronchopneumonia	20	14	7
8, 109	Pneumonia and of	21	1.1	
115	Diseases of the buccal cavity and annexa, and of		1	
	the pharynx and tonsils	1	13	5
6-118	Diseases of the stomach	18		1 i
119	Diarrhoea and enteritis	1		1 1
130	Acute nephritis	3	2	1
157	Congenital malformations	44.4		
	(a) Congenital hydrocephalus	1	1	1
	(d) Congenital malformations of the heart	2	1	1 1
	(b, c, e) Others under this title	1		4
158	Congenital debility	14	10	4
159	Premature birth	1		1
160	Injury at birth	3	1	2
161	Other diseases peculiar to the first year of life			
36-168	Homicides	1	1	
59-195.				1
197	Other violent deaths	4	1	3
101	Ill-defined and unknown causes of death	9	6	3

2		VIT	AL STATISTICS BRANCH
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	and over 100 years		
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	90-94 years	10 61 60	
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	80-84 A69L2	904	
	12-19 Years	4 4	
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	65-69 years	104	
	60-64 years	-	
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	20-24 Aests	-010-	80H
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AGES	40-44 Years	1-40	N==       ===     =       =       =
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	20-24 A6912	12 18	
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	10-14 Years	01==	
	2-9 Aests	34 20	
	4 Jears	11 5 6	P48
	3 years	15 9 6	844       44H
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		W.	-INFECTIOUS AND PARASITIC DISEASES         Tetal           -INFECTIOUS AND PARASITIC DISEASES         Petal           Scarlet fever         Scarlet fever         Petal           Scarlet fever         Male         Petal           Whooping cough         Total         Petal           Whooping cough         Total         Petal           Tuberculosis of the respiratory system         Sub-total         Petal           Tuberculosis of the respiratory system         Sub-total         Petal           (a) With mention of occupational diseases of lungs         Petal         Petal           (b) Without mention of occupational diseases of lungs         Petal         Petal           (c) Unspecified site         Petal         Petal           Tuberculosis of the intestines and central nervous         Male         Petal           Tuberculosis of the vertebral column         Petal         Male           Tuberculosis of the vertebral column         Petal         Petal           (b) Tuberculosis of the vertebral column         Petal         Petal
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		DEATHS-ALL CAUSES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES         8       Scarlet fever       8         9       Whooping cough       9         10       Diphtheria       7         13       Tuberculosis of the respiratory system . Sub-t         13       Tuberculosis of the respiratory system . Sub-t         13       Tuberculosis of the respiratory system . Sub-t         13       Tuberculosis of the mention of occupational diseases of h         (a)       With mention of occupational diseases of h         (b)       Withhout mention of occupational diseases of h         (b)       Withhout mention of occupational diseases         14       Tuberculosis of the meninges and central nervisystem         15       Tuberculosis of the intestines and peritoneum         16       Tuberculosis of the vertebral column         17       (b)       Tuberculosis of the intestines and peritoneum
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TABLE 35.--CAUSES OF DEATHS OF INDIANS BY SEX AND AGE, ALBERTA, 1944

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sis of Imyphatic system (bronchial, teric, mediastinal and retroperitoneal (excepted) sis of the genito-urinary system generalized miliary tuberculosis and unspecified generalized tuberculosis lis <b>Total</b> ut respiratory complications ut respiratory complications		rvix cified sites of the uterus	and unspecified sites of the unspecified organs DISEASES OF NUTRITION	File Prod
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TABLE 35-CAUSES OF DEATHS OF INDIANS BY SEX AND AGE, ALBERTA, 1944-Continued

1		VI	ITAL	STAT	TISTICS BRANCH
	Not stated	111	11	111	
1.4	and over 100 years	111	11	111	
1	92-99 Years	111	11	111	
	50-94 Years	111	11	111	
	82-83 Aests	111	11		
	80-84 Years	111	11	111	
	12-13 Xests	111	11	111	
	10-14 Years	111	11	111	H H H H H H
	e2-e3 Acuts	111	11		
			1.1	111	
	siears 40-09				
	22-23 Xests	111	11	111	
	20-24 Aests	111	11	111	
	45-49 years	111	11	111	
AGES	40-44 Years	111	11		
A	32-39 Years		11	111	
	30-34 Years		11	111	
	S2-S9 Years	111	11	111	
	20-24 years	111	11	111	
	15-19 years	111	11	111	
	10-14 Years	111	11		
	2-9 Aests		H	01 01	
	4 Aests		11	111	
	3 Years		11	111	
	2 years	111	11	111	
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		AND B		SYSTE	<ul> <li>(a) Intracranial abscess</li> <li>(a) Simple meningitis</li> <li>(b) Acute cerebrospinal meningitis</li> <li>(a) Cerebral haemorrhage or effusion</li> <li>(a) Cerebral haemorrhage with mention of arteriosclerosis</li> <li>(b) Chronics</li> <li>(c) Specified valvular diseases (non-rheumatic)</li> <li>(d) Chronic myocarditis (non-rheumatic)</li> <li>(e) Other myocarditis (not specified)</li> <li>(a) Diseases of the coronary arteries</li> </ul>
	100	9		ns	<ul> <li>(a) Intracranial abscess</li> <li>(a) Simple meningitis</li> <li>(b) Acute cerebrospinal meningitis</li> <li>(a) Cerebral haemorrhage or effusio</li> <li>(e) Cerebral haemorrhage with menarteriosclerosis</li> <li>(a) Cerebral haemorrhage with menarteriosclerosis</li> <li>(b) Chronic mocarditis (non-theun (a) Diseases of the heart</li> <li>(a) Specified valvular diseases (non (b) Chronic myocarditis (non-theur (e) Other myocarditis (not specified (a) Diseases of the coronary arteries</li> </ul>
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		VDISEASES OF T FORMING ORGANS	(b) Anaemia	TDISEASES OF SENSE ORGANS	<ul> <li>(a) Intracranial abscess</li> <li>(a) Simple meningitis</li> <li>(b) Acute cerebrospinal me</li> <li>(a) Cerebral haemorrhage</li> <li>(e) Cerebral haemorrhage</li> <li>(e) Cerebral haemorrhage</li> <li>(a) Cerebral haemorrhage</li> <li>(a) Cerebral haemorrhage</li> <li>(a) Cerebral haemorrhage</li> <li>(b) Chronic myocarditis (not</li> <li>(c) Other myocarditis (not</li> <li>(a) Diseases of the coronary</li> </ul>
	Peul	FOI	(q)	SEN	<ul> <li>(a) Intracranial abscess</li> <li>(a) Simple meningitis</li> <li>(b) Acute cerebrospinal meningitis</li> <li>(a) Cerebral haemorrhage or effusio</li> <li>(e) Cerebral haemorrhage with mer arteriosclerosis</li> <li>TI.—DISEASES OF THE CIRCULATO</li> <li>TI.—DISEASES OF THE CIRCULATO</li> <li>(a) Specified valvular diseases (non- d) Chronic myocarditis (non-rheum</li> <li>(e) Other myocarditis (not specified (a) Diseases of the coronary arteries</li> </ul>
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<ul><li>(b) Other diseases of the heart (rheumatic)</li><li>(c) Other diseases of the heart (non-rheumatic)</li></ul>	d) sclerosis		Diseases of the nasal fossae and accessory sinuses (a) Bronchitis, acute (b) Bronchitis, chronic		Pneumonia (unspecified) (c) Other diseases of the respiratory system (tuberculosis excepted)	CLASS IXDISEASES OF THE DIGESTIVE SYSTEM.	<ul> <li>(a) Diseases of the teeth and gums</li> <li>(b) Ulcer of the duodenum</li> <li>Other diseases of the stomach</li> <li>(a) Diarrhoea and enteritis (under 2 years of age)</li> </ul>	<ul> <li>(a) Diarrhoea and enteritis (2 years of age and over)</li> <li>Appendicitis</li> <li>(a) Acute yellow atrophy of the liver</li> </ul>
hear	Arteriosclerosis (coronary or rer cerebral haemorrhage excepte High blood pressure (idiopathic)	RES	and		resp	GES	<ul> <li>(a) Diseases of the teeth and gu</li> <li>(b) Ulcer of the duodenum</li> <li>Other diseases of the stomach</li> <li>(a) Diarrhoea and enteritis (under the store)</li> </ul>	(2) (2)
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f th	ona rhag (id	E	fos 		fied of th	HE	eeth oder e ste iteri	oph
es o	(cor nori	OF	acute chroni	nia	ecit exc	F T	duo duo the	atr
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dis	al la	SAS	f th hitis	neu	a (t dis culo	SES	es of ase	yell
her	ebr	ISIO W	es o oncl	o p	monia (unspecified) . Other diseases of the (tuberculosis excepted)	SEA	seas cer dise urrh	arri er) licit ute
oto	Arterioscierosis cerebral hae High blood pres	VIIIDIS	Diseases of the nasal fos (a) Bronchitis, acuțe (b) Bronchitis, chronic	Broncho pneumonia Lobar pneumonia	Pneumonia (unspecified) (c) Other diseases of th (tuberculosis excepted	IQ-	Di Dia Dia	<ul> <li>(a) Diarrhoe</li> <li>(b) over)</li> <li>Appendicitis</li> <li>(a) Acute ye</li> </ul>
-						-XI		
95	97 102	CLASS	104	107	119	ISS	115 117 118 118 119	121 121 125
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## VITAL STATISTICS BRANCH

	CAUSES OF DEATH	129 Peritonitis without stated cause	CLASS X.—DISEASES OF THE URINARY AND GENITAL SYSTEMS	<ul><li>130 Acute nephritis</li><li>131 Chronic nephritis</li></ul>	Nephritis unspecified (over 10 years of age) Diseases of the urinary bladder	Diseases of the prostate	XI-DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	(c) Haemorrhage of childbirth and the puer- perium	Other and unspecified conditions of childbirth and the puerperal state	XII.—DISEASES OF THE SKIN AND CELLULAR Total TISSUE Male Fema	Other diseases of the skin and cellular tissue	CLASS XIIIDISEASES OF THE BONES AND ORGANS Total OF MOVEMENT Fema
		Female	AL Total Male Female	Male Female Male	Female Male Male	Female	TH	Female	irth Female	AR Total Male Female	Female	NNS Total Male Female
	IstoT		1012	0		0	60	C1				111
	Under 1 yr.	11	-	-			1	1	1		1	111
	I Year	-		-			1	1	1	111	11	111
	5 Years		111	111	111	111	1	1	1	111	11	111
	4 Acurs	11	111	111						111	11	111
	2-3 Aests		111				1	1				111
	10-14 years	11	TH	11		111	I	1	1	111	11	111
	12-19 Years	11	111	11			1	1		111	11	111
	20-24 Yeras		111	-			19		۳.	111	11	111
	25-29 Years	11	111									
	32-33 A6912										11	
AGES	40-44 Years	11										
ES	42-49 Years			11			1	1	1	111	11	111
-	20-24 Xeurs	11	111	11			1	1	1	111	11	
	22-23 Xeurs		111	11			1	1	1		11	111
	60-64 years	11		11		111		1		111	11	111
	62-69 Years		19 19	11							TT	111
	16-74 years		44				;			111	11	111
	80-84 Years		FIR				1					
	82-89 Years				-						11	111
	90-94 Years	11		11		-	1	1	1	111	11	111
	95-99 years	11	111	11			1			111	11	111
	sud over 100 years	11	111	11	111	111		1	1	111	11	111
	perers toN		VITAL	SIA	11511		RANC	.п ;	:			

TABLE 35-CAUSES OF DEATHS OF INDIANS BY SEX AND AGE, ALBERTA, 1944-Continued

	ANNUAL	EPORT, 1944	117
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Total Female Male Male Female Female Female Total	Female Male Female Male Female Female Female Female	Total Male Female Female Female Total Male	Male Female Male Male Male Female Female Female Female Male Female Female Female
		Total Male Fema Fema Fema Male Fema	
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he he	tasis	L DEAT	means
NS of the he THE FIR	electasis s. pemphi	TAL DEAT	ied means motor vehic
TIONS ons of the he TO THE FIR	, atelectasis	DENTAL DEAT	ecified means ing motor vehic ts
MATIONS nations of the he litle IAR TO THE FIR	ied), atelectasis mbilicus, pemphi	CCIDENTAL DEAT	mspecified means cluding motor vehic dents
ORMATIONS formations of the he his title ULIAR TO THE FIR	oecified), atelectasis e umbilicus, pemphi	tia R ACCIDENTAL DEAT	ms or unspecified means (excluding motor vehic accidents
ALFORMATIONS malformations of the he er this title PECULIAR TO THE FIR	llity n drth unspecified), atelectasis f the umbilicus, pemphi ions	mentia 1 OR ACCIDENTAL DEAT	rearms
A MALFORMATIONS ital malformations of the he under this title SES PECULIAR TO THE FIR	debility birth at birth ia (unspecified), atelectasis n of the umbilicus, pemphi fections	LTY t dementia ENT OR ACCIDENTAL DEAT	y firearms y other or unspecified means . deaths cidents (excluding motor vehic rehicle accidents
TAL MALFORMATIONS genital malformations of the he ers under this title EASES PECULIAR TO THE FIR E	tal debility rre birth rry at birth byxia (unspecified), atelectasis ction of the umbilicus, pemphi r infections	NILITY hout dementia IOLENT OR ACCIDENTAL DEAT	le by firearms
ENITAL MALFORMATIONS Congenital malformations of the he Others under this title DISEASES PECULIAR TO THE FIR LIFE	genital debility	-SENILITY Without dementia 	ides
NGENITAL MALFORMATIONS (d) Congenital malformations of the he (e) Others under this title VDISEASES PECULIAR TO THE FIR OF LIFE	Congenital debility Premature birth (c) Injury at birth (a) Asphyxia (unspecified), atelectasis (b) Infection of the umbilicus, pemphigus other infections	VI.—SENILITY (b) Without dementia VII.—VIOLENT OR ACCIDENTAL DEAT	Suicides
-CONGENITAL MALFORMATIONS 57 (d) Congenital malformations of the heart (e) Others under this title S XVDISEASES PECULIAR TO THE FIRST OF LIFE	Con Prer (c) (a) (b)	S XVI.—SENILITY 22 (b) Without dementia S XVII.—VIOLENT OR ACCIDENTAL DEATHS	<ul> <li>54 Suicides Te</li> <li>58 Homicides Meaning</li> <li>66 Homicide by firearms</li> <li>68 Homicide by other or unspecified means</li> <li>76</li> <li>76 Accidental deaths texcluding motor vehicles)</li> <li>70 (c) Motor vehicle accidents</li> </ul>
XIVCONGENITAL MALFORMATIONS 157 (d) Congenital malformations of the heart (e) Others under this title CLASS XVDISEASES PECULIAR TO THE FIRST YEAR OF LIFE	<ul> <li>158 Congenital debility</li> <li>159 Premature birth</li> <li>160 (c) Injury at birth</li> <li>161 (a) Asphyxia (unspecified), atelectasis</li> <li>(b) Infection of the unbilicus, pemphiother infections</li> </ul>	CLASS XVI.—SENILITY 162 (b) Without dementia CLASS XVII.—VIOLENT OR ACCIDENTAL DEAT	<ul> <li>164 Suicides</li> <li>166-168 Homicides</li> <li>166 Homicide by firearms</li> <li>168 Homicide by other or unspecified means</li> <li>169 Homicide by other or unspecified means</li> <li>160 Londor the accidents</li> <li>170 (c) Motor vehicle accidents</li> </ul>

5		VIIAL STATISTICS BRANCH	
11	Not stated		-
	and over 100 vears		in the second
	95-99 years		
	30-94 Years		
-	82-89 Xests		
	80-84 Aests		
	75-79 years		
	70-74 years		-
	65-69 years		
	60-64 years		1
	22-23 Aests		1
	20-24 Aests		
AGES	42-43 A69L2		-
AG	40-44 Leurs		1
	32-39 Aests		
	30-34 Aests		
	52-59 Years	TH	-
	20-24 Years		-
	12-19 years		-
	10-14 years		
	2-9 Aests		
	4 Years		-
i	3 years		
	Z Years		
	I Year		
	Under 1 year		
	IntoT		4
		Male Fena	Female
	CAUSES OF DEATH	(d) Motorcycle accidents (excluding automobiles)       Male         Water transport accidents       Fernal         75       (b) Injury by animals, in agriculture       Fernal         75       (b) Injury by animals, in agriculture       Fernal         76       (e) Other forestry accidents       Fernal         80       Conflagration       Fernal         82       Accidental mechanical suffocation       Fernal         83       Accidental injury by cutting or piercing       Male         86       (a) Accidental injury by fall       Male         86       (a) Accidental injury by fall       Male         86       (a) Accidental injury by fall       Male         86       (a) Egal executions       Male         86       (a) Accidental injury by Cutting or piercing       Male         98       Lightning       Male         98       Legal executions       Male         99       Lightning       Or DEATH         90       (a) III-defined       Fernal         91       Found dead       Male         92       Unknown or unspecified cause       Fernal         93       Found dead       Male         94       Found       Fernal	
		172 Wat 175 175 180 182 183 185 192 192 198 198 198 200	

TABLE 35.--CAUSES OF DEATHS OF INDIANS BY SEX AND AGE, ALBERTA, 1944--Continued

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CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO THE NATURE OF INJUKY.	L OL DNIC	HE N	AUTA	CE O	H IN	CHUC		THESE ACCIDENTAL DEATHS ARE CLASSIFIED ABOVE ACCONDING	ACC	IDE	WIN	חח	THI	90	THE	-Lines	TTCO	In	AB	AND	25	50		5
TO CIRCUMSTANCES INVOLVING THE ACCIDENT	HE ACCIDI		UNDER		RUBRICS		169 TO	176,	. 178,	180,	, 181,	, 182,	2, 183,	10.00	185, 1	186, 11	187 A	AND	193.					1
		_	-	-	-		-	-	-		-	-	-	_	-		-	-	-	-	-	_	_	1
Accidental absorption of polsonous gas	Male	-					-	-		-	-	-				-			1	-		-		-
	Female	and they	-	-		in .		-		-				-	in the second	-		1		-	-		-	****
Accidental burns	Male		1		1	-	-				- fant	-		- 1111		1				-	-		-	
	Female			- 15m			teres	-				-								-				-
Accidental mechanical suffocation	Male			-		-		-				-						-		-			-	
	Female			-				-		1		-		-					-	-		-		
Accidental drowning	Male	*	- north	- Internet			-	1	1	T	1	-		-	1					-	-		-	-
	Female	and income		· .		-		-		-		-		-			-	-	1	-	-		-	
Accidental injury by cutting or piercing instruments	Male	The lot	-								1000	-		and .					1	-	-		-	-
	Female		teres.							in and		-					-	1444			-		-	
Accidental injury by fall	Male	-						-	-	T	-	-			1	1111				-	-		_	
	Female	and and		- June		- Area						-		-	and the second			1110		-			-	
Accidental injury by crushing	Male		-				-			[-	1	-				-				-	-		-	
	Female	-		- (				-										-	1	-	-			
Accidents due to electric currents	Male		- mark					-			antes .	-		-				1	1		-		-	
	Female	-		-							-	-		-			1111	-	-	-	-			
													-	_	-			-	-	-	-	_	_	

THESE ACCIDENTAL DEATHS ARE CLASSIFIED ABOVE ACCORDING TN.IIIRV 5 1 2

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
		164		187		114				
	185.000	3.003	20.41	927	6.77	1001	7.36	90.00		13.04
	236,000	4.732	20.05	1,907	8.08	1.578	6.68	100.27	6.33	13.36
	266,000	5,973	22.45	2,032	1.63	2,188	22.9	126.57	20.9	19.22
	301,000	6,897	22.91	2,384	7.92	2,662	10.01	07 001	0 00	14.04
	336,000	172'9	65-67	000.0	010	070'0	0.07	104.42	0.00	12.98
	000,000	010,010	12.22	00000	11 07	010'0	10.58	194 75	8.26	15.13
	000 067	11 971	11.02	5 053	61 61	4 439	10.63	120.47	2012	17.84
	459,000	13.685	30.75	4.623	10.39	4.417	9.32	100.54	6.13	21.43
	000 087	12 459	08.90	4 200	90.6	3 588	7.73	87.9	5.79	21.26
	000 000	10 201	10.02	08.6 7	8 53	4 058	8.18	002	7.20	18.69
	000,002	19 570	07.01	A 970	0.00	4 047	8.09	87.30	6.48	18.92
	200,000	14 890	62 26	4 048	6.98	VG6 L	13.86	107.10	5.51	11.86
	200 000	14 130	23.95	4.718	1.90	5.507	9.33	110.30	6.44	14.62
	565 000	16.565	26.72	5,110	8.24	5.675	9.15	93.70	8.38	17.57
	588 000	16.414	27.89	4.661	7.92	4.940	8.39	85.65	7.24	19.50
	592.000	16.163	26.44	4.272	6.99	5.281	8.62	91.93	6.68	17.83
	593.000	15.153	25.75	4.177	6.09	4,843	8.06	90.54	5.50	18.75
	597,000	14.598	24.74	4,160	7.50	4,907	8.30	82.40	6.18	16.42
	602,000	15.014	25.02	4,363	7.27	4,717	7.86	. 72.90	5.76	16.16
	608,000	14,455	23.79	4,498	7.40	5,156	8.49	81.63	5.82	15.31
	633,000	14,897	24.03	4.707	7.58	5,059	8.16	74.51	6.38	15.87
	658,000	15.692	24.79	5.776	9.12	5,699	9.00	76.50	6.75	15.79
	684,000	16,924	26.19	6,004	9.29	6,239	9.62	77.40	7.26	16.54
	708,000	17.649	26.74	5,334	8.08	5,396	22.22	63.57	6.46	18.41
	732,000	17.252	23.57	5,142	7.02	5,302	7.24	69.38	5.04	16.32
	740.000	16,990	22.96	5,054	6,83	5,521	7.46	58.68	3.76	15.50
	748.000	16,123	21.33	5,389	7.10	5,346	70.7	59.90	4.43	14.24
	756.000	16.236	21.10	6,053	7.87	5,337	6.93	54.89	4.99	14.01
	770.000	16.183	21.0	6.010	7.7	5,729	7.3	57.8	4.2	14.0
	772.782	15.786	20.4	6.020	7.8	6.147	8.0	60.0	5.8	12.5
	778.000	15.903	20.4	6.345	8.2	6.261	8.0	63.0	4.9	12.4
	783.000	15.891	20.3	6.973	8.9	5,871	7.5	51.0	4.3	12.8
	789 000	16.470	20.9	7.838	6.6	5.789	7.3	46.0	3.5	13.6
	790.000	17.359	21.8	8.782	11.8	6.203	7.8	48.0	3.9	14.1
	706 160	17 208	7 16	8.470	10.7	6.385	8.0	51.0	3.6	13.7
	805,000	18 217	2 66	9 034	11.2	6.091	1.5	38.0	2.3	15.2
	000 001	TO OT	0 10	1000	0.0	10010	6.0	0.64	10	1.91
	000 000	027'61	0.67	11111	0.0	10000	i.r	0.91		10.1
	818,000	13,313	23.1	RRZ'I	0.3	0,26,0	1.1	40.0	1.0	0.01

	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province	19,372	31	1.6
City of Edmonton City of Calgary Small Cities Rural	4,240 2,880 2,395 9,857	4 1 5 21	.9 .3 2.0 2.2

# TABLE 37.-DEATHS AND DEATH RATES FORM PUERPERAL CONDITIONS, 1944

# 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
905	1.077 1.086 1.065 1.103 1.084 1.053 1.081	$\begin{array}{c} 3.11\\ 2.07\\ 2.96\\ 2.73\\ 2.59\\ 2.69\\ 2.43\\ 2.43\\ 2.67\\ 3.30\\ 3.47\\ 3.29\\ 3.25\\ 1.88\\ 2.56\\ 2.92\\ 3.32\\ 3.32\\ 3.06\\ 3.13\\ 2.97\end{array}$	1925           1926           1927           1928           1929           1930           1931           1932           1933           1934           1935           1936           1937           1938           1939           1940           1941           1942           1943	$\begin{array}{c} 1,042\\ 1,053\\ 1,065\\ 1,064\\ 1,042\\ 1,027\\ 1,075\\ 1,052\\ 1,053\\ 1,032\\ 1,055\\ 1,049\\ 1,019\\ 1,046\\ 1,046\\ 1,046\\ 1,033\\ 1,054\\ 1,058\\ 1,041\\ 1,060\\ \end{array}$	$\begin{array}{c} 3.18\\ 2.80\\ 2.94\\ 2.75\\ 2.71\\ 3.21\\ 3.25\\ 3.08\\ 3.01\\ 3.04\\ 2.81\\ 2.57\\ 2.38\\ 2.70\\ 2.85\\ 2.79\\ 2.71\\ 3.02\\ 2.96\\ 3.06\end{array}$

