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

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ANNUAL REPORT

OF THE

Department of Public Health

PROVINCE OF ALBERTA

INCLUDING

Vital Statistics Branch

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

PRINTED BY A. SHNITKA, KING'S PRINTER 1948





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Edmonton, December 22, 1947.

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 1946.

I have the honour to be, Sir,

Your obedient servant,

Wallace Warren Cross, Minister of Health. the Represent of these Seatth to the rest 1946.

December 22, 1947.

To the Honourable Dr. W. W. Cross, Minister of Health,

Administration Building, Edmonton, Alberta.

SIR:

I have the honour to submit herewith, the Twenty-Eighth 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. I have the bounds to subsuce honorests, the Twoney-Highelt Accused Benefit of the Theographics of Health.

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TWENTY-EIGHTH 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.
- 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.

- 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

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

REGULATIONS PASSED DURING THE YEAR

- O.C. 129-46—Regulations Governing Dairy Farms, Milk Plants, Fluid Milk and Table Cream amended.
- O.C. 193-46—Regulations Governing Nuisances and General Sanitation Nuisances.
- O.C. 1988-46—Regulations covering the Use of Hydrocyanic Gas amended.

LEGISLATION PASSED DURING THE YEAR

Alberta Health Insurance Act, 1946 (Chap. 3).

This is a new Act authorizing the setting up of health insurance districts which will furnish to the residents various medical and hospital services as the same are organized from time to time.

Section 3 provides for the appointment of a Director of Health Insurance and other necessary officers and clerks.

Section 4 sets out the services one or more of which may be furnished from time to time as conditions warrant. To prevent duplication exceptions are made in the case of medical, etc., services received under The Workmen's Compensation Act and the Tuber-culosis Act. In subsection (2) of Section 4 are set out the persons qualified to receive benefits under the Act, namely, adults who have paid the prescribed annual fee and who reside in a health insurance district and have resided twelve months in the Province, also the dependents of adults and persons (such as indigents) on whose behalf the fee has been paid and for whom a municipality is responsible. Who are adults is to be determined by Order in Council under paragraph (a) of section 2 and paragraph (d) of section 5 (1).

Section 5 confers on the Minister, with the approval of the Lieutenant Governor in Council, various powers connected with the administration of the Act including the appointment of an Advisory Committee, the making of agreements with municipalities, the fixing of an annual fee for adults and the age when residents become liable for the fee, the making of agreements with physicians, hospitals, etc., the making of agreements with the Government of Canada as to the application of the grants which may be made by that Government to the Province for health services, the appointment of referees, etc., to settle disputes, and various other matters of detail. In the same section, the Minister, with the approval of the Lieutenant Governor in Council, is authorized to make regulations dealing with matters of procedure in making and keeping a register of adults, etc.

Section 6 deals with the establishment of health insurance districts, the preparation of a scheme by the Director, the advertising of same, and its submission to a vote of the qualified residents of the district and the procedure to be adopted in taking the vote.

Section 7 gives the qualifications of voters and the form of the ballot and directions as to voting, etc., and provides that sixty per cent of those voting are required to vote for the scheme to ratify it. Subsection (9) of section 7 provides that where a scheme after ratification is expanded as by services being provided additional to those in the original scheme, this expansion of the scheme shall be submitted to the voters.

Section 8 provides for a vote being taken in an area proposed to be added to a health insurance district, which vote will require a sixty per cent vote in the area to authorize its addition.

By section 9 it is provided that where a scheme has been rejected by the voters, after the expiration of three months, any area may be detached or added and a second vote taken on the scheme.

Section 10 (1) declares who are entitled to vote at a vote taken under section 8 or 9 and subsection (2) provides an oath which may be administered to any person presenting himself as a voter at any vote taken under the Act.

Section 11 deals with the disestablishment of a district before and after a vote has been taken. Subsection (2) authorizes the Director with the approval of the Minister in certain circumstances to disestablish a district after it has been in operation for two years. Subsection (3) authorizes a vote after a district has been in operation for a year on the petition of twenty-five per cent of adults residing in the district and entitled to the benefits of the Act. A sixty per cent vote is required to disestablish the district under this subsection.

Section 12 provides the procedure to be taken after a scheme has been ratified by the voters. A census is to be taken at the instance of the Director of each municipality included in whole or in part in the health insurance district of all persons residing in each municipality who are entitled to the benefits of the Act under section 4, the census to distinguish between adults and others; on completion the appropriate portion of the census is to be sent to each municipality concerned, and the secretary of each is required to prepare a register of the adults and dependents in the municipality. Provision is also made for the amendment of the register from year to year.

Section 13 provides for the payment by the municipality to the Minister annually of a sum obtained by multiplying the number of adults whose names appear on the list and register by the amount of the annual fee fixed by the scheme, such payment to be after the first year in quarterly instalments and if they remain unpaid after they fall due, they become debts to the Minister recoverable by action. If paid when due, the municipality is to retain three per cent of the amount due as compensation for the service rendered. Subsection (4) of section 13 provides that adults entitled to the benefits of the Act become indebted to the municipality in which they reside for the annual fee as fixed under the Act, which, in the case of persons on the assessment roll, may be added to the taxes, and in all cases, the amount becomes a debt due to the municipality recoverable by action.

Section 14 deals with the setting up of an account in the Treasury Department for each health insurance district and with the investment of any surplus funds of the district.

Section 15 provides that the Director or any person appointed by him to make any investigation relating to the setting up or administration of a health insurance district shall have the powers given under The Public Inquiries Act set out in the section.

Section 16 enacts a penal clause as to giving false information to a municipality or to the Director or any other official of the district or as to withholding information on an investigation under the Act.

Section 17 provides penalties for failure to provide adequate services without lawful excuse by persons who have made agreements with the Minister for such services.

Section 18 protects such persons from civil action where failure to provide services is due to inability to obtain equipment, etc.

Subsection (2) of section 19 provides that where a scheme or other proposal is ratified by the voters, the cost of taking the vote shall be paid out of the funds of the health insurance district but otherwise out of the general organization grant.

This Act comes into force on Proclamation.

Public Health Act Amendment Act (Chap. 49).

Section 1 of this Act adds two new paragraphs to subsection (1) of section 7 of the Act and authorizes the Provincial Board of Health, with the approval of the Lieutenant Governor in Council, to make regulations relating to the matters contained in the new paragraphs, dealing with the fees and working conditions, etc., of student nurses.

Section 2 of this Act introduces a new section 15b which is intended to remedy a situation which exists or may exist in certain coal mining towns, where there is a practice of dumping coal dust, etc., in the neighbourhood of dwellings.

The purpose of the new section is to give the Provincial Board of Health authority to require the company to remove the material dump to a point where the residents of the dwellings will not be injuriously affected.

This Act came into force on March 27th, 1946.

Municipal Hospitals Act Amendment Act (Chap. 50).

Section 1 of this Act amends section 11 of the above Act which section deals with the scheme to be submitted to the voters by the Provisional Board of a municipal hospital district. The amendment adds a new clause (iii) to paragraph (a) of subsection (1) of the section. That paragraph sets out various provisions, one of which must be included in a scheme. The amendment adds another alternative which authorizes the scheme to include two or more of the plans set out in clauses (i) and (ii) and a statement to the effect that if the scheme is ratified by the voters the Board will determine from time to time the plan to be adopted, subject to the terms of any agreement which the Board may have made with the governing body of a hospital situate in the area of the hospital district.

Section 17 of the Act which is amended by section 2 of this Act deals with the poll for a hospital site, where the Board directs a vote to be taken. The amendment is intended to clarify the section by providing that the vote on the site shall be advertised at the same time as and as part of the hospital scheme.

Section 3 of this Act strikes out unnecessary words in section 18.

Section 4 of this Act amends section 26 of the Act in several respects. Subsection (5) now provides that if "a majority which is less than two-thirds of those voting vote in favour of the scheme" the Board may borrow a sufficient sum to defray the expenses. The amendment strikes out the words "a majority which is" in order to make it clear that the Board will have this power where those voting in favour of the scheme do not constitute a majority but also provides that the borrowing shall be subject to the approval of the Minister. Subsection (6) of section 26 is struck out and substituted by a new subsection (6). The effect of the change is to make it clear that a scheme or amended scheme which has not received the approval of two-thirds of the voters may, with the approval of the Minister, be re-submitted in its original or amended form although less than a majority of the voters had voted in support of the original scheme. The new subsection (8) added to section 26 enables the Minister, even after a favourable vote on the scheme, to disestablish the district when the Board so requests before the district has commenced operating a hospital or providing hospital services for the ratepayers.

Section 5 of this Act amends section 27 of the Act by the addition of the words "and may vary the number of members of the Board accordingly." That section authorizes the Minister, prior to the submission of an amended scheme to detach territory from the District. The amendment enables him to vary the number of Board members accordingly.

Section 6 of this Act adds a new section 27a to the Act. A Board has difficulty sometimes in procuring a site for the hospital, either because an agreement as to price cannot be reached or the owner of the land desired as a site declines to sell. The provisions contained in the new section appear in somewhat similar form in various Acts, such as The Public Works Act, The Town and Village Act, and The Municipal District Act. Provision is made for filing a plan of the land required, in the Land Titles Office which will vest title in the Board subject to payment of compensation. The Board is then required to serve notice on the owner of the compensation offered, and the owner, if dissatisfied with the offer, shall so state within thirty days and shall state the amount claimed, etc. The Board shall then consider the claim and notify the owner of its decision and if this is not acceptable, the claimant may have the matter brought to arbitration and the provisions of The Arbitration Act shall apply to the proceedings.

Section 28 of the Act, which is amended by section 7 of this Act, deals with the proceedings after disallowance or rejection of a hospital scheme and in particular provides for the distribution among the contributing councils of the expenses of the Board in taking the vote on the scheme, etc. The amendment to subsection (1) by inserting the words "or after" after the word "before," cures an omission in the Act and enables the Board to take the necessary proceedings upon disestablishment of the district before or after a vote is taken. Subsection (3) of section 28 which is also amended provides for the continued existence of a Board, after disestablishment of a district to enable it to clear up the distribution of expenses. The amendment extends this provision to cases coming under the new subsection (8) of section 26, that is, where the district is disestablished after the voters have approved the scheme.

Section 58 of the Act deals with the dissolution of an operating district upon application by the Board and the contributing councils. The amendment made by section 8 of this Act limits the right to make this application to districts which have been operating and providing hospital services for not less than six months.

Section 74 of the Act amended by Section 9 of this Act deals with cases where a minimum hospital tax is provided by a hospital scheme and provides that where a ratepayer is assessed in respect of more than one parcel of land in the hospital district, he can credit all the taxes on the minimum tax which shall be paid in the area of which he is a resident. The purpose of the amendment is to extend this privilege to ratepayers who do not reside in the hospital district who may select the area in which the minimum tax is to be paid and produce tax notices from other areas.

The Order in Council validated by section 10 of this Act provided, subject to validation, for the amendments made by section 4 of this Act relating to cases where a majority of the voters have not voted in favour of a scheme.

This Act came into force on March 27th, 1946.

Solemnization of Marriage Act Amendment Act (Chapter 66).

This Act adds a proviso to subsection (3) of section 14 of the Act. That subsection requires the production of a doctor's certificate to the effect that he has taken a specimen of blood for a syphilis test from the applicant for the license, etc. The amend-

ment authorizes the acceptance of the certificate of a Provincial District Nurse in lieu of the doctor's certificate in cases where the applicant lives in a remote district far from a physician.

This Act came into force on March 27th, 1946.

DEPARTMENT OF PUBLIC HEALTH

REVENUE AND EXPENDITURE FOR THE FISCAL YEAR ENDED MARCH 31st, 1947

	Salaries	Expenses	Revenue
601. Administration (General)	\$ 3,712.00	\$ 221.58	\$
602. Administration (General)	18,760.72	1,527.31	55.27
616. Administration (Chiropractic Act)			60.00
618. Administration (Postage)		2,358.10	
636. Administration (Election of Rep.			
Municipal Hospital Boards)		153.63	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
603. Grants to Approved Hospitals		629.634.85	2016011
603. Expenses Hospital Inspection	5,234.72	1,159.95	204.00
605. Communicable Diseases	2,604.98	37.836.15	1.364.90
605. Sanitary Engineering	9.297.01	4,060.36	3,147.25
606. Public Health Nursing	65,054.67	19,151.85	13,542.78
607. Vital Statistics	37,142.32	7,549.65	92,606.04
608. Municipal Hospitals	3,613.31	1,630.00	
609. Insulin	05 010 00	10,927.23	
610. Social Hygiene	25,613.80	. 16,366.49	******
611. Grants to Orphanges		4,712.50	
619. Grants to University Hospital		20,000.00	*******
621. Travelling Clinic	F 200 07	7 050 10	
622. Mental Hygiene 626. Grants to University Lab.	5,398.87	7.056.19	
	756.90	4.750.00	
		23,107.85	*******
	21,733.30	146,144.26 743,394.92	***************************************
	1,188.67	654.03	********
	1,986.29	2.879.39	100000
639. Public Health Education 640. Control of Insect Borne Diseases	4,108.78 5,353.59	6.735.98	*******
		53,716.54	innen
		33,710.34	
612-1.] Institution	ons		
613-2. Prov. Mental Institute, Oliver	293,091.40	145,558.17	112,632.83
612-2. Prov. Training School, Red Deer	115,581.26	50,890.14	60,815.68
612-3. Prov. Mental Hospital, Ponoka	433,438.29	253,559.31	220,998.38
612-4. Auxiliary Hospital, Claresholm	19.022.18	15,569.09	8,957.50
612-5. Auxiliary Hospital, Raymond	22,559.72	14.193.76	6,202.83
604. Tuberculosis Control and Central 604-C Alberta Sanatorium, Calgary	219,882.73	311,305.32	99,260.52
	\$1,315,135.51	\$2,536,804.60	\$ 619.847.98
Total Expenditure Public Health Department Less: Public Health Revenue			\$3,851,940.11 619,847.98
Net Expenditure, Department of Public Hea	lth		\$3,232,092.13

VITAL STATISTICS

Vital Statistics registered during the year were as follows:

Births	22,184	
Marriages	9,478	
Deaths		6,601

In all cases in which rates are shown, these are based on a population of 803,330. 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 1941 to 1946:

Year	No. of	Birth	No. of	Marriages	No. of	Death
	Births	Rate	Marriages	Rate	Deaths	Rate
1941 1942 1943 1944 1945	17,308 18,317 19,290 19,372 19,939 22,184	21.70 22.70 24.30 23.70 24.10 27.63	8.470 9.037 7.771 7.299 7.310 9.478	10.70 11.20 9.80 8.90 8.80 11.80	6,385 6,091 6,524 6,320 6,454 6,601	8.10 7.50 8.20 7.70 7.80 8.21

The birth rate for 1946 is 27.6 as compared with 24.1 for 1945. The marriage rate for 1946 is 11.8 as compared with 8.8 in 1945. The death rate for 1946 is 8.2 as compared with 7.8 in 1945.

General Health Conditions.

The deaths of 6,601 persons were registered in Alberta in 1946. Of this number, 4,049 were males and 2,552 females. There were 147 more deaths registered than in the previous year. There were 362 deaths from Pneumonia in 1946, a decrease of 5 as compared with the previous year, and 89 deaths from Influenza, an increase of 31 as compared with the previous year. Deaths from Pulmonary Tuberculosis numbered 233 in 1946 as compared with 200 the previous year. The chief cause of death is heart disease, 1,721 deaths having been registered as due to this cause, giving a rate of 214.3 per 100,000 population, as compared with the rate of 199.0 per 100,000 population for the previous year. Deaths from Cancer registered in 1946 number 860, a rate of 107.1 per 100,000 population, as compared with 830 deaths from this cause and a rate of 100.5 in 1945. Deaths from violence, excluding suicide number 450 as compared with 472 for 1945. The respective rates being 56.0 and 57.2.

The infantile mortality rate for 1946 is 43, the same rate as for the previous year. Special reference to the infantile death rate will be found in another section of this report.

The maternal mortality rate for 1946 is 1.44 as compared with 2.04 for 1945. Further reference to the maternal mortality rate will be found in another section of this report.

Nineteen deaths were reported as due to Whooping Cough in 1946, as compared with 43 deaths from this cause in 1945. Of these 19 deaths, 10 were infants under one year of age. While there was a material reduction in the number of deaths from this cause in 1946, I wish to again point out, that Whooping Cough is a serious disease. If all children, particular those under two years of age were immunized, deaths from this cause could be still further reduced. The vaccine required for this purpose is provided free of charge by the Department to physicians and local health authorities.

There were 5,449 cases of Measles, with 8 deaths and 357 cases of Rubella with no deaths reported in 1946. There was a marked increase in the incidence of measles in 1946 as compared with the previous year, when 1,472 cases were reported. Detailed information concerning cases of Measles and Rubella reported will be found in the report of the Communicable Disease Division.

The combined death rate (deaths per 100,000 population) for Diphtheria, Scarlet Fever, Measles and Whooping Cough is 4.3 as compared with 7.1, the rate for 1945.

There were 48 cases of Diphtheria, with 7 deaths reported in 1946 as compared with 53 cases, and 9 deaths during the previous year. Of the 48 cases reported in 1946, 24 were reported by cities, 6 by towns and villages, and 18 by rural districts. The death rate for Diphtheria in 1946 was .87 as compared with 1.1 for 1945. Since Diphtheria is an entirely preventable disease, there should not be a single death from this cause. The Department furnishes toxoid for the immunization of children, free of charge to physicians, local health authorities, and local school authorities. Protection should be provided in early childhood and such reinforcement of immunity given as may be found necessary during school life. If such a procedure were carried out in all sections of the Province, Diphtheria would practically disappear. There are still several areas

in the Province in which little has been done by local authorities to immunize pre-school and school children against Diphtheria.

In 1946, 1,625 children in outlying districts were immunized against Diphtheria by one of the Health Inspectors on the staff, part of whose time is devoted to this work.

No cases of Smallpox were reported in 1946. Surveys made by the Department indicate that there are many areas in the Province in which not more than one-third of the pre-school and school children have been vaccinated against Smallpox. From the standpoint of public health, this constitutes a dangerous situation. Should Smallpox develop in such a community, the disease would spread with great rapidity and should such an out-break be of the malignant type, the results would be tragic. Children should be vaccinated against Smallpox within the first six months of life. Vaccination should be repeated at the time the child enters school and need not again be done unless on exposure to the disease in afterlife. Smallpox vaccine is provided free of charge by the Department, to physicians, local boards of health, and local school authorities.

In 1946, 1,682 persons in outlying areas were vaccinated against Smallpox by the Health Inspector in charge of this work.

In 1946, 482 cases of Scarlet Fever with 1 death were reported, as compared with 1,358 cases and one death in 1945. As these statistics indicate, there was a marked decline in the number of cases of Scarlet Fever reported in 1946.

The following is a summary of the cases reported in 1946:

Under 1 year 1 to 4 years	11
5 to 14 years	245
15 to 19 years 20 years or over Age not stated	69 10
Total	482
	287 77
Cases reported by rural districts	118

There were 9 cases of Typhoid Fever and 4 cases of Paratyphoid Fever reported in 1946 as compared with 20 cases and 5 cases respectively in 1945. Not a single death from Typhoid Fever occurred in 1946. One death was reported as due to Paratyphoid Fever.

The supervision and control of Typhoid Carriers is a matter of vital importance to the public health, and the full co-operation of local health authorities is essential, not only in the investigation of sources of infection, but also in the supervision and control of Typhoid Carriers. Constant vigilance in the supervision of local water, milk and food supplies is essential. In this connection, it should be emphasized that the pasteurization of milk and milk products carried out under proper supervision, has proved an effective means of safe-guarding such products. Pasteurization provides protection not only against Typhoid Fever, but also against other milk borne diseases.

Division of Entomology.

This Division deals with epidemiological problems associated with insect-borne diseases. A considerable amount of the time of the Division was devoted to Sylvatic Plague, Spotted Fever, and Tularaemia investigations. A survey was also carried out in regard to the migration of rats in Western Canada and in the Western United States.

In connection with the survey, re Rocky Mountain Spotted Fever in 1946, 2,226 drag ticks were taken in 34 collections and 187 host ticks collected. There were no positive reports submitted on the specimens collected in 1946.

Five hundred and seventy-nine persons in the Redcliffe District, 368 persons in the Manyberries District and 84 persons in the Thelma District were vaccinated against Rocky Mountain Spotted Fever.

During the Sylvatic Plague survey, a total of 323 collections consisting of 3,061 animals, mostly ground squirrels were made. These animals yielded 5,729 fleas, and 57 tissue specimens. No positive reports for plague infection were submitted on these specimens.

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, through moving picture films, lectures and the distribution of literature.

The assistance of the Department of National Health and Welfare in providing the laboratory service which is essential in this work, is gratefully acknowledged. More detailed information regarding the work of the Division of Entomology will be found in the report of this Division.

Poliomyelitis.

In 1946, 78 cases of Poliomyelitis were reported, and 8 deaths occurred from this cause. The majority of the cases reported, occurred in the northern part 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 3 to the Junior Red Cross Hospital in Calgary.

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

Influenza and Pneumonia.

In 1946, 89 deaths occurred from Influenza as compared with 58 deaths from this cause in 1945. Three hundred and sixty-two deaths occurred from Pneumonia in 1946 as compared with 367 in 1945.

With early diagnosis and prompt treatment by physicians with the new drugs now available, a further reduction in the present death rate from Pneumonia can be effected.

Tuberculosis.

During 1946, 302 deaths were reported from Tuberculosis as compared with 263 deaths in 1945. Of these 302 deaths, 156 were deaths of Indians. The death rate for all forms of Tuberculosis in 1946 (including Indians) is 37. Excluding deaths of Indians, the death rate is 18 (per 100,000 population) as compared with 15.4 in 1945.

Diseases of the Heart and Circulatory System.

Diseases of the heart accounted for 1,721 deaths in 1946, as compared with 1,643 in 1945. These 1,721 deaths represent 26 per cent of the deaths from all causes reported for the year, giving a death rate of 214.3 (per 100,000 population) as compared with 199 in 1945.

Diseases of the arteries were reported as the cause of 102 deaths in 1946, as compared with 138 in 1945. There has, in recent years, been a steady increase in the number of deaths reported due to diseases of the heart and circulatory system. The ageing of our population, as mentioned in previous reports, is a factor in this increase. Among these deaths are many which could be classed as preventable. Periodic medical examinations of children, as well as adults, would reveal many of these heart conditions in the early stages, when effective measures might be taken to deal with them. Early recognition and the prompt attention of skilled physicians would prevent much disability due to diseases of the heart and would prolong many lives.

Cancer.

Eight hundred and sixty deaths were registered as due to Cancer in 1946, as compared with 830 during the previous year. The death rate from Cancer in 1946 is 107.1 (per 100,000 population) as compared with 100.5 in 1945. Cancer occupies second place in the list of causes of death, and in 1946 accounted for 13 per cent of the total deaths registered in the Province. Early recognition and prompt and effective treatment of Cancer by competent physicians, would save many lives.

The importance of educational work in regard to Cancer, cannot be over-emphasized. Educational work has been carried on by the Division of Cancer Services of the Department in co-operation with the Alberta Branch of the Canadian Society for the control of Cancer and the Alberta Division of the Canadian Medical Association.

The Diagnostic Clinics, one in Edmonton and the other in Calgary, were kept busy throughout the year. In addition to the free diagnostic services provided by these Clinics, free X-ray and radium treatment, as well as free 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 by the Department free of charge, where, in the opinion of the Cancer Clinic, admission of a patient to hospital is necessary in order to establish the diagnosis. Free hospitalization is provided for a period up to, but not exceeding, fourteen days.

The following is a brief summary of the work done by the Diagnostic Clinics in 1946:

Edmonton Clinic: Examinations of new patients Re-examinations		
CALGARY CLINIC: Examinations of new patients	876	2,916
Re-examinations	496	1,372
Total of both Clinics		4,288

Of the new patients examined at the Clinics, 49 per cent were found to be suffering from Cancer. There were 1,034 patients referred for X-ray diagnosis, 874 patients were given radium or X-ray treatment, and 1,025 patients were referred for surgical treatment.

Deaths Due to Violence.

Deaths reported as due to violence (excluding suicides) numbered 456 in 1946, as compared with 472 in 1945, representing 6.8 per cent of the total deaths registered in the Province for the year and giving a death rate of 56.7 (per 100,000 population) as compared with 57.2 in 1945.

There were 100 suicides in 1946, as compared with 76 in 1945.

Highway accidents accounted for 97 deaths, of which 90 were due to motor vehicle accidents. These statistics indicate that highway accidents constitute an important cause of death, to say nothing of the serious injuries suffered and the great expense involved in hospital and medical care for a large number of persons.

There were 31 deaths reported from drowning in 1946, as compared with 37 in 1945. There is a great need for a continued programme of education in this field. Each year, a number of deaths are reported as a result of the destruction of homes by fire, in some cases, with parents absent from the home and children left to their own devices. There were 18 deaths due to conflagration in 1946.

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

Suicides 100 Hunger or thirst	1
Homicides 6 Excessive cold	
Railway accidents excluding motor Excessive heat	
vehicles 15 Lightning	1
Motor vehicles accidents 90 Food poisoning	
Street Car and other transport ac- Accidental absorption	of poisonous
cidents 7 gas	
Water Transport 11 Acute accidental poison	
Air Transport 8 or liquids	
Accidents in mine and sand quarries 13 Conflagration	18
Agriculture and forestry	lagration ex-
Other accidents involving machinery 9 cepted	
Accidental mechanical suffocation 11 Accidents due to electr	ic currents 2
Accidental drowning 31 Other accidents	
Accidental injury by firearms 18 Legal executions	5
Accidental injury by cutting or	
placeing instruments	556
Accidental injury by fall or crushing 81	000
Injury by animals 3	

Infantile Mortality.

There were 945 deaths of children under one year of age registered in 1946, as compared with 862 such deaths in 1945, an increase of 83 deaths. The infantile mortality rate for 1946 is 43, the same rate as for 1945.

Of the 945 deaths of children under one year of age in 1946, 575 or 60.8 per cent occurred within the first month of life, of which number, 453 occurred within the first week and 272 on the first day of life. In the expansion of our preventive health services and through the organization of additional Full-Time District Health Units, lies the solution of this problem. In Districts in which Full-Time Rural Health Units have been in operation for a number of years, it is found that the infantile death rate falls to approximately the same level as that for the cities of the Province with full-time public health services. The Department proposes to increase the number of District Health Units in the Province as rapidly as the medical and nursing personnel required to provide this service can be recruited. An analysis of infantile deaths will be found in the report of the Bureau of Vital Statistics.

Maternal Mortality.

The maternal death rate (deaths per 100,000 living births) in 1946 is 1.44, as compared with 2.4 in 1945. The average maternal death rate for the past 5 years is 2.2. The rate for 1946 (1.44) is the lowest ever recorded. The next lowest rate, namely, 1.6 occurred in 1944.

The following are the chief causes of maternal deaths registered in 1946:

Abortion with mention of infection	2
Abortion without mention of infection	
Ectopic gestation	4
Haemorrhage of pregnancy, death prior to delivery	
Toxaemia of pregnancy, death prior to delivery	1
Other diseases and accidents of pregnancy, death prior to delivery Haemorrhage of childbirth and puerperium	2
Infection during childbirth and the puerperium	
Puerperal toxaemias following delivery	
Other accidents of childbirth	2
Other and unspecified conditions of childbirth and the puerperal	80
state	3
	-
Total	32

The progressive reduction in the maternal mortality rate in recent years is very gratifying. We can look forward with every confidence to further reductions in our maternal and infant death rates, as we go forward with the expansion of full-time preventive health services in the rural and urban districts. Of the births registered in the Province in 1946, 91.5 per cent occurred in approved hospitals.

Full-Time Rural Health Units.

The work of the eight Rural Health Units, namely, Red Deer, Foothills, Stettler, Rosebud, Lamont, Edmonton Rural, Holden and Two Hills, has been conducted along the same general lines as in recent years. Owing to the shortage of Medical Officers of Health, largely due to war service, and the impossibility of obtaining or finding suitable replacements, it has been necessary to continue the part-time service of local medical officers of health in six of the District Health Units. Frequent changes and shortages in the staff of public health nurses have created difficult problems for the District Boards of Health of the various Health Units. The eight Health Units established, with one public health nurse in charge of the service in each Unit, have continued to function. The continued shortage of public health nurses has made it impossible to increase the number of nurses in the latter Health Units. The activities of Full-Time District Health Units include the prevention and control of communicable diseases, child and maternal hygiene, mental hygiene, school hygiene, health education, the supervision of water and milk supplies, food inspection, general sanitation, records and statistics, etc.

Health Education.

Health Education 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. Thirty-two Departmental bulletins and pamphlets and approximately 130 publications issued by various organizations are distributed by the Department. More than 250,000 bulletins and pamphlets were distributed during the year and a large number of lectures were given by the Supervisor of health educational work.

Health educational services are also carried on by the various Divisions of the Department.

Nutrition.

As in previous years, there has been a great demand for literature on nutrition. Much of this material has been made available to the Department by the Nutrition Division of the Department of National Health and Welfare, and this material has been found of great value. An effort is being made to extend the educational service in this field and to assist the various Health Units in carrying on an effective nutrition programme.

Public Health Nursing.

There are 40 nurses on the staff of the Department (not including public health nurses serving in District 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 Redcliffe Districts, and one in charge of the Clinic serving the Drumheller District. One nurse serves the Municipal District of Norma and the Town of Vegreville. There are 35 District Nurses stationed in outlying districts remote from medical and hospital facilities.

There were 702 child hygiene clinics held in Edmonton, Calgary, Bowness, Medicine Hat, Redcliffe, Drumheller and Vegreville, with a total attendance of 25,241 infants and pre-school children.

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

Treatment Consultations Miscellaneous P. H. Consultations Antepartum Consultations Postpartum Consultations Infant and Pre-School Consultations Miscellaneous P. H. Home Visits Treatment Home Visits Communicable Disease Home Visits Maternal Welfare Home Visits Infant and Pre-school P.H. Home Visits Deliveries Abortions Cases sent to Hospital or Doctor Deaths (under 1 year) Deaths (Over 1 year) Cases Communicable Diseases Reported Pieces P.H. Literature Distributed	20,003 7,449 1,937 624 4,033 1,863 4,678 486 652 899 148 61 1,375 10 45 809 5,646
IMMUNIZATIONS:	
Diphtheria Toxoid Scarlet Fever Toxin Smallpox Vaccine Whooping Cough Vaccine Typhoid Fever Vaccine	4.641 6.979 2.093 3.747 34
	17,494

Many difficult problems have arisen due to the shortage of public health nurses, but excellent service has been given by the members of the public health nursing staff in their respective fields.

Travelling Clinics.

As it was not possible to obtain the medical, dental and nursing staff required to operate the travelling clinic, this service was not sent out in 1946. Social Hygiene.

Seven clinics were conducted by the Division of Social Hygiene, one in each of the three large cities and one each at High Prairie, McLennan, Peace River, and the Slave Lake District. In addition, a clinic is held in each of the Provincial Gaols at Lethbridge and Fort Saskatchewan. New cases under treatment in all clinics during 1946 were as follows:

Syphilis-209, Gonorrhoea-1,479, making a total of 1,688.

Education work in connection with venereal disease control was carried on along the same lines as in previous years. The employment of additional personnel has enabled the Division to expand the field work and to develop a more intensified follow-up programme.

Approximately 85 per cent of the alleged sources of infection have been traced and, where necessary, given treatment.

The feature of the work of the Social Hygiene Division in 1946 was a serological survey of the Indian and Metis population in the hinterland, in and around the Lesser Slave Lake area. As a result of this survey covering several thousand persons, 150 syphilitic persons were brought to light, about one-half of whom were Indians and the other half, Metis and Whites. In co-operation with the Indian Affairs Branch of the Department of National Health and Welfare, a plan was worked out under which arrangements were made for the intensified treatment of the above mentioned patients. A camp was established on the west shore of Lesser Slave Lake on the out-skirts of the Town of Grouard. Some 50 tents were used to house the patients and arrangements were made by the Indian Affairs Branch to provide transportation to the camp and food for the patients under treatment.

The medical supervision and nursing service required for the treatment of these patients was a contribution of the Social Hygiene Division of the Department. The co-operation of the patients in connection with the treatment was excellent.

This project demonstrated that such an activity has an important educational value. Before the camp had been in operation many days, persons who had been missed in the original survey began to come in voluntarily for blood tests. As a result of this influx, the project had to be continued for an additional two weeks in order to take care of these patients.

The Department sustained a very severe loss during the year in the death of Mrs. Hilda W. Tainton, who, for more than twenty years, was responsible for the investigation and follow-up of cases and contacts. Mrs. Tainton gave outstanding service to the Province and was recognized as one of the most efficient workers in this field, on the continent.

Provincial Laboratory.

The staff of the Provincial Laboratory made 176,417 examinations in 1946, an increase of 30,000 examinations as compared with the previous year. The rapidly expanding work of the Provincial Laboratory, has made the provision of increased laboratory accommodation an urgent matter. Additional temporary accommodation has been provided by the erection of huts opposite the Medical Building and plans are being made for the erection of a new Provincial Laboratory building.

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

The Provincial Laboratory serves as a centre for the distribution of vaccines and sera which are furnished by the Department for the prevention and treatment of communicable diseases.

The estimated value of the work done by the Laboratory in 1946 on the basis of minimum charges only, is \$258,559.10.

All public health laboratory service is provided free of charge excepting only, examinations involving highly specialized time consuming procedures.

Sanitary Engineering and Sanitation.

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

During the year, 2,248 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. Plumbing fixtures installed in the Province during the year under the inspection of Local Boards of Health and the Provincial Board of Health, have been as follows:

	Sinks	
Lavatory Basins.	Septic Tanks	
Baths and Showers	Miscellaneous Fixtures	110

Each year in this report, attention is directed to the responsibility of local municipal authorities, for the safety of public water supplies. Water from streams, irrigation ditches and other such sources is unsafe. Any municipal authority which permits the use of such water for human consumption is practically certain, sooner or later to experience a serious outbreak of water-borne disease.

It is also important to call the attention of municipal authorities to their responsibility for the control of milk supplies. Municipalities which permit the sale of unsafe milk are inviting serious trouble. It is encouraging to note that an increasing number of municipalities are passing by-laws under which pasteurization of their milk supplies is required.

There were 150 complaints and requests for investigations received from various municipalities and referred to the Sanitary Inspectors for attention. Twenty-eight inspections of lumber, tie, saw-mill and mining camps were made during the year. As we expand our district health unit services, the Sanitary Inspectors staff will be in a position to provide general sanitary inspection service for all towns, villages and rural areas, included in these health units.

Dental Hygiene.

Owing to the acute shortage of dentists, it has been impossible to provide dental services in outlying districts by means of Travelling Clinics. Every effort has been made to provide essential dental services in the various institutions, with the dental staff it has been possible to secure. A full-time dentist is to be appointed to the staff of the Provincial Mental Institute, at Oliver as soon as one can be secured.

A report of the dental work of the various institutions will be found in the reports of these institutions.

Hospital Inspection.

In 1946, 100 approved hospitals received the Government Grant under the provisions of the Hospitals Act, 92 private hospitals (largely Nursing Homes and Baby Shelters) were licensed under The Private Hospitals Act.

The total number of operations reported by hospitals in 1946 was 58,080.

On the basis of returns received from 100 approved hospitals, the total bed capacity, including cribs was, 5,125 and the total bed complement 5,365. There were in addition, 1,015 bassinets.

On the basis of a population of 803,330 (1946 census), there was one hospital bed available (including cribs and bassinets) for every 126 of our population, or 7.9 beds per 1,000 population. Excluding bassinets, there was one hospital bed available for every 131 of our population, or 6.7 beds per 1,000 population.

Construction of additions to the following hospitals were undertaken in 1946: Holy Cross Hospital, Calgary; Providence Hospital, Camrose; Royal Alexandra Hospital, Edmonton—wing for chronic and incurable cases; Battle River Hospital, Notikewin; General Hospital (Maternity Pavilion), Medicine Hat; St. Joseph's Hospital, Edmonton—new hospital for chronic and incurable cases; Consort Municipal Hospital.

There were 38 municipal hospitals in operation in 1946 providing accommodation for 1,334 patients. During the year, 37,571 patients received treatment through these 38 municipal hospitals.

The acute shortage of nurses to which reference was made in previous years, has continued, and has resulted in very difficult staff problems for the hospitals, especially the smaller hospitals.

The steady rise in the costs of hospital construction, equipment and supplies have also been difficult problems for hospital boards. Great credit is due to the various hospital authorities for the manner in which they have discharged their responsibilities under these difficult conditions.

Division of Tuberculosis Control.

The number of treatment beds available for Tuberculosis in 1946 is the same as for 1945, namely 500. Patient days for all sanatoria for 1946 total 131,010, as compared with 143,351 in 1945.

During the year, the Tuberculosis Division provided diagnostic service for 98,633 people, including those examined by the Mobile X-ray units.

There were 1,051 new cases of Tuberculosis reported in 1946. Of these, 46.3 per cent were considered active, 51.7 per cent inactive, and 1.9 per cent non-pulmonary.

Excluding Indian patients, 868 new cases of active and inactive pulmonary Tuberculosis were reported and classified as follows:

Minimal	453	52 %
Moderately advanced	242	28.9%
Far advanced	80	9.2%
Pleurisy	8	9 %
Primary	85	9.8%

There were 399 new patients admitted to the sanatoria in 1946. Medical examinations totalling 5,905 were made by the medical staff of the Tuberculosis Division in 1946. Seven Tuberculosis clinic centres were in operation.

At the request of the Indian Affairs Branch of the Federal Government, 1,063 school children were X-rayed and those who showed abnormal X-ray films were examined. By this means, 36 new cases of Tuberculosis were found. The Department has co-operated in every way possible with the Indian Affairs Branch of the Federal Government in making diagnostic and treatment services available to Indian patients, and the Department has been reimbursed by the Federal Authorities for these services. With the two mobile X-ray units operating, the number of X-ray examinations in 1946 was 102,710. The Department wishes to express its sincere appreciation to the Alberta Tuberculosis Association for their generous assistance in making these two completely equipped mobile x-ray units available. They have proved of great value in the campaign against Tuberculosis.

The Alberta Tuberculosis Association has carried on its programme of rehabilitation as in previous years. Through the assistance extended by the Association, a number of persons have received training both in academic and vocational work and many have subsequently obtained remunerative employment. This is a most constructive programme, the benefits of which are becoming more and more apparent.

Mental Health Division.

On January 1st, 1946, there were 3,169 patients in all the Mental Institutions and on December 31st, 3,142 patients, a decrease of 27 patients. The rate of hospitalized mental patients to general population has increased from 156 per 100,000 population in 1921 to 391 in 1946.

There were 504 patients with psychoses, 63 patients without psychoses, and 45 mental defectives admitted to the Provincial Mental Hospital, at Ponoka; 328 patients with psychoses, 97 patients without psychoses and 1 mental defective discharged; 74 deaths occurred during the year of which number, 48 were deaths of male patients and 26 of female patients.

There were 70 patients transferred from the Mental Hospital at Ponoka to other mental institutions, including 31 male patients and 19 female patients transferred to the Provincial Mental Institute, Oliver, 12 female patients transferred to the Claresholm Auxiliary Mental Hospital, and 2 male patients and 6 female patients transferred to the Provincial Training School for Mental Defectives at Red Deer.

There were 1,210 patients in the Provincial Mental Institute at Oliver at the beginning of 1946 and the same number in this Institution at the end of the year. During the year, 74 patients with psychoses, 25 patients without psychoses and 4 mental defectives were admitted; 55 with psychoses were discharged; 54 deaths of patients with psychoses occurred during the year. Of the 103 patients admitted to Oliver in 1946, 52 were patients transferred from the Provincial Mental Hospital at Ponoka and the Provincial Training School at Red Deer.

In the Auxiliary Mental Hospital at Claresholm, there were 96 female patients on January 1st, 1946 and 96 at the end of the

year. During the year, 13 patients were admitted, 1 discharged, 6 transferred to other hospitals and 2 deaths occurred.

In the Auxiliary Mental Hospital at Raymond, there were 117 female patients in residence on January 1st, 1946 and 114 at the end of the year. During the year, 1 patient was admitted who was transferred from the Provincial Mental Hospital at Ponoka. No patients were discharged and 4 deaths occurred.

During the year, 32 patients were admitted to the Training School for Mental Defectives, at Red Deer, 21 were discharged, 5 transferred, and 3 deaths occurred. There were 269 patients in residence at the beginning of the year and 272 at the end of the year. A survey in regard to the provision of additional accommodation for psychotic patients and mental defectives, and the most effective way of taking care of this need, is being carried out.

The construction of additional buildings at Ponoka, Oliver and

Red Deer is planned to get underway in the spring of 1947.

Guidance Clinics.

Guidance Clinics were conducted at the following centres in 1946: Edmonton, Calgary, Lamont, Wainwright, Red Deer, High River, and the Edmonton Rural Health Unit.

Patients are referred to the Guidance Clinics by local authorities, 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. The Department plans on the extension of this service through the organization of Travelling Guidance Clinics providing the additional staff of psychiatrists, psychologists and trained social workers can be recruited, and expects to set-up the first Travelling Guidance Clinic in 1947 to serve the southern part of the Province, with headquarters in Calgary. It is estimated that 5 such units will be required to make this service available throughout the Province.

This Province has pioneered in the field of mental health, this service having been first organized in 1929. The establishment of the Travelling Guidance Clinics will enable us to develop an effective, preventive, mental programme.

Our staff of psychiatrists and social workers have given outstanding service throughout the difficult war years and during the

post-war period.

During the year, 86 Guidance Clinics were conducted, 300 new cases were presented and 800 follow-up cases have been dealt with. Since the inception of this service in 1929, 6,000 cases have been examined.

Eugenics Board.

The work of the Eugenics Board is carred on under authority of The Sexual Sterilization Act. Seven meetings of the Board were held in 1946. During the year, 107 cases were presented to the Board. Since The Sexual Sterilization Act was proclaimed in 1929, 2,273 cases have been presented to the Board. During 1946, 24 male cases and 31 female cases were sterilized. The total number of cases operated on to the end of December, 1946, is 1,059—423 male and 636 female. All operations are performed at the Provincial Mental Hospital at Ponoka.

The Department wishes to express its appreciation of the careful 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 the duties for which they are responsible.

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, Dr. E. L. Pope, Dr. E. G. Mason and Mrs. J. W. Field, visited the following Institutions during the second week of September, 1946; 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 prepared by the Board on their visits to these Institutions. The Department desires to express to the members of the Board of Visitors, its sincere appreciation of the splendid service they have rendered.

General Administration.

A statement of revenue and expenditure for the year ending March 31st, 1947, will be found on page 14 of this report. An analysis of this statement shows that the total expenditure for all activities of the Department was \$3,851,940.11. The total revenue was \$619,847.98. The net expenditure of the Department was \$3,232,092.13. The sum of \$1,363,463.00 was expended for the maintenance and operation of the mental institutions coming under the administration of the Department. The sum of \$531,188.00 was expended in the maintenance and operation of the Central Alberta Sanatorium at Calgary, in providing hospital accommodation for tuberculosis patients in Edmonton and other hospitals, and in providing other diagnostic and treatment services for tuberculosis patients. The sum of \$629,634.85 was expended in grants to approved hospitals. The sum of \$743,394.92 was expended in providing free maternity hospitalization; \$167,877.50 was expended in providing cancer diagnostic and treatment services; \$84,206.52 in providing public health and district nursing services; \$53,716.54 in grants to full-time district health units; \$41,980.29 in venereal disease prevention and control. Expenditures for the various other activities of the Department are listed in the above mentioned statement of revenue and expenditure.

In concluding this summary of the activities of the Department for the year, 1946, I desire to express my sincere appreciation of the fine co-operation and excellent service rendered by the Directors and members of the staff of all Divisions including the Superintendents of our Provincial Institutions and the members of institutional staffs.

Respectfully submitted,

Malcolm R. Bow, B.A., M.D., C.M., D.P.H.,

Deputy Minister of Health.

Communicable Disease Division

(A. Somerville, B.A., M.D., D.P.H., Director)

The Communicable Disease Division is responsible for the control procedures for all communicable diseases excepting tuberculosis and venereal diseases—each of which operate as separate divisions of the Department of Health. Current reports are issued each week to local health officers and to the Dominion Bureau of Vital Statistics. In the unorganized parts of the Province this division is responsible for communicable disease control and carries out this responsibility sometimes with the help of Provincial District Nurses, sometimes by using medical doctors in the vicinity and sometimes by direct action from this divison. In these outlyng portions of the Province an inoculating programme is carried out by the Provincial Nurses and by a special Provincial Health Inspector. The report of the latter indicates that the following work was done:

Number inoculated against Shallon Sumber vaccinated against Shallpox	1,625 694 1,682 539
Diphtheria Reaction Tests	
Places Visited	67
Lectures Given	24

A special inoculating programme for protection against Rocky Mountain Spotted Fever is carried out in the south-eastern corner of the Province, a more detailed report of which can be found in the report of the Provincial Entomologist.

Typhoid Fever (Cases 9, Deaths 0)

The nine cases of typhoid reported this year were all isolated cases except two which appeared in Banff Park. Most of our cases now come from carriers directly through food and single cases usually make it very difficult to find the carrier. Two of this year's cases had been drinking river water at a time which suggests that as the source of infection. One of these was a few miles below Edmonton and the other a few miles below Drumheller. A third case had also been drinking river water from the river at Bow Island. Two cases aparently got their infection outside the Province. Another case was that of a young boy whose father was found to be a carrier—the only one found this year and it was cleared up by the removal of the gallbladder. The source of infection in the other three cases was not identified.

This is the first year in the history of the Province that there have been no deaths from Typhoid.

There were four cases of Paratyphoid B reported, one of whom has remained as a carrier and one died.

There are 18 known typhoid carriers in the Province and two Paratyphoid B carriers as at December 31, 1946.

Pulmonary Tuberculosis (Cases 1,076, Deaths 233)

The tuberculosis death rate in Alberta is steadily improving but it is still the most serious communicable disease in the Province. Because of the travelling x-ray units operated by the Department of Health and the other activities of the Tuberculosis Division more cases are being found. These cases are spread over the entire Province with a slightly higher incidence in the northern part. Further information is available in the report of the Tuberculosis Division.

WHOOPING COUGH

(Cases 308, Deaths 19)

The year 1946 was one of low incidence in Alberta and the rate this year is the lowest in the history of the Province. This low rate is very unusual as this is the first time in the history of the Province that the case rate for whooping cough has remained below 100 cases per 100,000 for three years in succession. It has on several occasions been below for two years but never before for three years. Thirteen out of the nineteen deaths were among Indians. That is 70 per cent of the deaths were among 2.5 per cent of Alberta's population.

MEASLES

(Cases 5,449, Deaths 8)

The year 1946 was very definitely an epidemic year for measles although the death rate did not go up as much as the number of cases. Measles is always a serious disease for babies.

ACUTE ANTERIOR POLIOMYELITIS

(Cases 78, Deaths 8)

The year 1946 was another epidemic year in Alberta though the epidemic was a relatively small one. The cases were widely scattered over the entire province.

One of these cases was an Indian. This is the first time in the history of this Province that a case of polio has been reported in an Indian. According to the report of the Indian agent this was a full blooded Indian living in the ordinary Indian way. To consider why Indians do not usually get polio is an interesting speculation.

SCARLET FEVER

(Cases 482, Deaths 1)

The number of cases this year gives the lowest case rate in the history of the Province. With only a single death we also have the lowest mortality rate ever recorded. In fact, the mortality rate has been falling since 1937.

SMALLPOX

(Cases 0, Deaths 0)

Three years without any cases of smallpox and probably no true cases for the past seven years is certainly a good record. It is however almost certainly mainly a question of luck as the vaccination rate is not high except in the cities and in the rural health units.

DIPHTHERIA

(Cases 48, Deaths 7)

For a disease which is highly preventable 48 cases is far too many. This is about the average for the past five years though the deaths are slightly below the average of that period. Six diphtheria carriers were discovered.

TABLE 1

COMMUNICABLE DISEASE CASES AS REPORTED FOR 1945 AND 1946

	1945	1946		1945	1946
Actinomycosis	3		Rocky Mtn. Spotted Fever Rubella	632	357
Acute Anterior Poliomyelitis	19	78	Scarlet Fever	1,358	482
Chickenpox	3.120	2.159	Smallpox		
Diphtheria		48	Tetanus	4500	
Diphtheria Carriers	12	6	T.B. Meningitis		
Encephalitis	2	9	Tuberculosis—Pulmonary	1,032	1,041
Erysipelas	8	6	Tuberculosis, Non-pulmonary	32	35
Measles		5,449	Trachoma	3	
Meningococcal Meningitis		10	Tularaemia		2177
Mumps		2,093	Typhoid Fever	37	9
Ophalmia Neonatorum			Undulant Fever	13	49
Paratyphoid Fever		4	Whooping Cough	694	308

TABLE 2

TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR 1945 AND 1946

	1945	1946		1945	1946
Acute Autoriou Dellamoralitie	1949	1310	Dougtumbald	1040	1
Acute Anterior Poliomyelitis	1010	0	Paratyphoid	2000	1
Chickenpox	2		Pneumonia (all forms)	367	362
Diphtheria	9	7	Rubella		
Dysentery		1	Scarlet Fever	1	1
Encephalitis Lethargica	8	4	Smallpox		-
Erysipelas	2		Tuberculosis, Pulmonary	200	233
Influenza (all forms)	58	89	Tuberculosis (all other forms)	63	69
Measles	6	8	Typhoid Fever	2	
Meningococcal Meningitis	- 3	1111	Undulant Fever		1
Mumps	****	1000	Wheoping Cough	43	19

TABLE 3

DEATHS DUE TO COMMUNICABLE DISEASES IN THE CITIES OF EDMONTON AND CALGARY FOR 1945 AND 1946

	Edmo	onton	Calg	ary
	1945	1946	1945	1946
Acute Anterior Poliomyelitis		1000	1111	2
Chickenpox	1010	1000	1111	****
Diphtheria	1000		****	1
Phaemballtie	1		4111	1
Erysipelas	1	1	***	1
Influence (all famus)	****		1	
Influenza(all forms)	1	6	1	3
Measles		. 1	1	
Meningococcal Meningitis	1111		2	
Mumps		400	***	0.4
Pneumonia (all forms)	42	47	40	34
Scarlet Fever	****		4444	
Smallpox	00	22		40
Tuberculosis, Pulmonary	28	tirtir.	13	19
Tuberculosis (all other forms)	2	9	3	3
Typhoid Fever	1			2000
Whooping Cough	1		****	1010

TABLE 4

DEATHS DUE TO COMMUNICABLE DISEASES IN THE SMALLER CITIES, TOWNS, VILLAGES AND RURAL DISTRICTS FOR THE YEARS 1945 AND 1946

	1945	1946		1945	1946
Acute Anterior Poliomyelitis		6	Mumps	1	
Chickenpox	2		Pneumonia (all forms)	285	281
Diphtheria	9	6	Scarlet Fever	1	1
Dysentery	4		Smallpox		
Encephalitis	7	2	Tuberculosis, Pulmonary	159	192
Erysipelas	1	4	Tuberculosis (all other forms)	58	57
Influenza (all forms)	56	80 .	Typhoid Fever	1	
Measles	5	7	Undulant Fever	****	
Meningococcal Meningitis	1	****	Whooping Cough	42	19

TABLE 5 DEATHS DUE TO COMMUNICABLE DISEASES AMONG INDIANS IN THE PROVINCE FOR 1945 AND 1946

1945 1946 1945 1946 1945 1946	PRO	ATMC	FOR	1949 MMD	1540			
Diphtheria		1945	1946				1945	1946
Scarlet Fever	Acute Anterior Poliomyelitis							
Tuberculosis, Pulmonary 102 113		3	2					91
Table Tabl		****	+40.00					
Measles							-	
TABLE 6 TABL		-					,	43
TABLE 6 TAB		1	3					
Acute Anterior Pollomyelitis 78 8 9.7 1.0 10.1	Meningococcal Miningitis		0.00	Whooping	Cougn		36	13
Acute Anterior Pollomyelitis 78 8 9.7 1.0 10.1 Cerebro-Spinal Meningitis 10 1.2 Chickenpox 2.159 268.0 Diphtheria 48 7 5.9 0.9 14.6 Diphtheria Carriers 6 0.7 <			TABI	LE 6				
Acute Anterior Pollomyelitis 78 8 9.7 1.0 10.1 Cerebro-Spinal Meningitis 10 1.2 Chickenpox 2.159 268.0 Diphtheria 48 7 5.9 0.9 14.6 Diphtheria Carriers 6 0.7 <						>		
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N.R.-Not reported or incompletely reported.

INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES FOR THE 10-YEAR PERIOD 1936-1946

DIPHTHERIA

		2011 11111				
		Donulation	Total	Total	Morbidity Rate	Mortality Rate
		Population	Cases	Deaths	6.0	1.0
1936		772,782	47	9	3.86	1.28
1937		778,000	30	10	9.40	2.3
1938		783,000	74	18	4.5	0.9
1939		789,000	36 52	12	6.42	1.5
1940		795,000 796,169	31	6	3.9	0.8
1941			58	11	7.3	1.4
1942		805,152 792,000		11	5.8	1.4
1943			46	5	7.2	0.6
1944		818,000 826,000	57 53	9	6.4	1.1
1945 1946		803,330	48	7	5.9	0.9
		TYPHOID	FEVER			
1936		772,782	111	20	14.4	2.6
1937		778,000	34	4	4.37	.51
1938		783,000	77	11	9.8	1.40
1939		789,000	44	6	5.6	.70
1940		795.000	36	3	4.5	.40
1941		796,169	33	5	4.1	.60
1942		805,152	18	1	2.3	.10
1943		792,000	11	1	1.4	0.1
1944		818,000	101	8	12.4	1.0
1945		826,000	20	2	2.4	0.2
1946		803,330	9	1000	1.1	****
			nor roll	TET TETT		
		E ANTERIOR			2.3	0.1
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1937		778,000	169	13	13.4	1.9
1938		783,000	105	15	3.0	0.6
1939		789,000	24	5 4	5.0	0.0
1940		795,000	107	8	20.9	1.0
1941		796,169	167		1.0	
1942		805,152 792,000	24		3.0	400
1943		818.000	107	1	13.3	0.1
1944		826,000	19		2.3	
1946		803.330	78	8	9.70	1.00
1040						
		WHOOPING				
1936		772,782	1,793	73	232.0	9.0
1937		778,000	658	49	84.57	6.3
1938		783,000	310	30	39.6	3.8
1939		789,000	2,080	33	263.6	4.2
1940		795,000	1.158	55	45.7	7.0
1941		796.169	364	23	19.8	
1942		805,152	1.131	12	141.0	1.5
1943		792,000	1,520	12	191.0 94.5	5.7
1944		818,000	757	42	84.4	5.2
1945		826,000	694	43 19	38.3	2.3
1946		803,330	308	19	30.0	2.0
		SCARLET	FEVER			
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1938	***************************************	783,000	1,452	25	185.0	3.2
1939		789,000	1,113	19	141.0	2.4
1940		795,000	779	9	98.0	0.8
1941		796,169	792	6	101.0	1.4
1942		805,152	2,265	11	286.0	0.9
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1937		778,000	57	1	7.3	0.1
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CLASS OF COMMUNICABLE DISEASES REPORTED IN 1946

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Health Education

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

The programme of the Division of Health Education has expanded during the past year to an almost unmanageable extent—to a point, in fact, where it has been impossible with the present staff limitations to do a satisfactory job in every field. This is a good and promising sign—a sign which indicates the awakening of the public to the vital need for more "education for health." It is expected that the staff situation will be improved in the coming year with the addition of a full-time assistant to the supervisor. There will then be two health educators to handle the volume of work rather than one full time person assisted by another on a half-time basis only, as has been the case during the past two years.

One example of the expansion of service is that shown in the. circulation of health films. The film library of the division now contains approximately 85 films, 72 of which are owned by the division and 11 of which are on extended loan from the National Film Board. These are all in constant demand for public showing by public health personnel as well as school and community groups throughout the province. They are also kept in circulation in the National Film Board's rural circuits, the latter alone providing a coverage of approximately 50,000 persons for health film showings. Direction of the film library is in itself a large job. It entails constant previewing of new films in order that the Alberta public may be provided with the most effective health films possible. It also requires a continuous channelling and re-channelling of films from the Health Education office to every part of the province, while the demand upon the library has increased to the extent that it has become necessary to require persons or organizations desiring films to reserve them two weeks ahead of time.

The radio information service has likewise expanded. Radio health spots for daily use are now sent out every week to nine radio stations in the province while the weekly fifteen minute programmes have been continued as in other years. The latter, however, instead of being broadcast by one radio station only, as previously, are now carried by stations in the north, south and central sections of the province. An effort has also been made to increase their popular appeal by use of dramatized and dialogued script in place of the former uninterrupted fifteen minute talks.

The literature and information service has continued on a gradually increasing scale. Bulletins circulated to the public include 144 different publications and, in all, approximately 173,000 copies of these were distributed during the past year. To keep this material up-to-date is in itself no mean part of the Division's work.

The lecture service has been continued also, although the increasing demand from other fields has necessitated its limitation. It has not been possible to fill all single requests for health talks but several itineraries were arranged in the central portion of the province and a total of 80 talks, usually accompanied by film show-

ings, were given during the year. These covered a total audience of approximately 10,538 persons.

The Edmonton Exhibition again monopolized a considerable portion of the Division's attention during the latter part of June and the first part of July. Aside from the work entailed in the preparation of posters and exhibits illustrating the services of each of the Department's fourteen divisions, the staff of the Health Education Division remained on duty throughout the entire week of the Exhibition, explaining the exhibits and showing films on health. It was estimated that from 300 to 500 persons per day passed through the Health Exhibit Room, asking questions, examing the displays and viewing the films.

In addition to the above concentrated effort at education through exhibits, the Division has endeavored to keep channelling effective display and poster material to the public health personnel in all

parts of the province throughout the year.

Articles on health and health services available in the province were again prepared at intervals during the year for various magazines and bulletins. A monthly article was supplied for publication in the Alberta Teachers' Association Magazine and in order that the rest of the Dominion should be kept cognizant of public health advancement in Alberta, regular news items have been sent to the Canadian Public Health Journal. A forty-eight page illustrated booklet on the services available to the public through the Department of Health was also prepared and plans have been made for a wide distribution of it both inside and outside the boundaries of the province.

A large stride was made, too, in the expansion and perfection of the filing system within the division. This was a particularly urgent need as, for sometime in the past, a constant stream of health material from all over the world has poured into the Health Education Office. In addition there is a continuous daily in-coming stream of heterogeneous material which must be culled and filed, as well as a total of no less than fifty publications from various states and provinces which arrive regularly, either monthly or weekly, in the offices of the Health Education Division, all to be filed and many containing articles worthy of indexing.

In conclusion, the Division would like to express thanks to all those both within and without the Department who have aided in the futherance of its programme. Of the outside agencies which have given assistance, special thanks have been merited by the National Film Board of Canada for its assistance in the distribution of health films and to the Publicity Bureau of the Provincial Government for its aid in the production and distribution of radio programmes.

Report of the Provincial Laboratory

(R. M. Shaw, Director)

Contrary to expectations that work in the laboratory would diminish with the cessation of hostilities and the conclusion of demobilization, the number of specimens received and examined considerably increased. Examinations made numbered 176, 417 compared with 146, 593 in 1945, an increase of 20 per cent.

The greatest advances were made in surgical pathology 20 per cent, routine bacteriology and the various tests for venereal disease control. With respect to the latter, some tests formerly done only when asked for by the physician are now made routinely as a result of a request from the Dominion Council of Venereal Disease Control endorsed by the Dominion Council of Health. Such tests include a special Kahn procedure to estimate quantitatively the reactivity of positive sera and quantitative complement-fixation tests on cerebrospinal fluids. Since these laboratory examinations offered more aid in the diagnosis of difficult cases and in the evaluation of the effects of treatment, all Provincial Laboratories agreed to give the service routinely.

The advances in medical science frequently make it necessary for laboratories to extend their services in order that the new discoveries may be used to the greatest advantage. As examples, may be cited the need frequently to determine whether a particular infection is likely to respond to treatment with one or other of the new antibiotics penicillin or streptomycin. Further, when such drugs are being used, it may be desirable to know the blood levels reached and maintained during their administration. Such tests come within the scope of the bacteriologist and are being asked for more and more frequently.

The discovery, in 1940, of the Rh factor in human red blood cells and the demonstration of its importance as a cause of reaction in blood transfusions and of certain abnormalities of pregnancy and of the newborn, have shown the need for more extensive blood testing and the necessity for more careful selection of blood donors for transfusions particularly for girls and young women. Since October, 1946, the Provincial Laboratory has undertaken to give service in this respect and now performs five hundred tests per month although only 622 tests were made in the last three months of the year under report.

The usual investigations were made with respect to acute infections and a new Table No. 9 gives some indication of the work done on typhoid fever and related diseases.

The large number of students who entered the university subsequent to demobilization brought about a state of overcrowding in the lower floors of the east wing of the Medical Building and made it necessary to seek new quarters for a part of the staff of the Provincial Laboratory. An army hut was secured and established on the south side of 89th Avenue immediately in front of the Medical Building. This was occupied in October, 1946, and gave three thousand square feet of floor space. Into it were moved the routine clinical and part of the public health section of bacteriology, the section doing serological tests for syphilis, the section on mycology and of course the ancillary services for wash-up and sterilization. Such a move entailed the securing of new expensive equipment, much of which duplicated that used in the main building but which could not be transferred because it was still required in the teaching services and to serve the section of the laboratory still remaining in the old location. The Department of Veterans' Affairs kindly loaned some equipment until new became available.

The division of the laboratory into two parts required an increase in staff and created some administrative difficulties but on the whole was beneficial and permitted the maintenance of a satisfactory service to the public as well as easing the overcrowding in the teaching departments.

In May, 1946, the Dominion Department of Health called the second meeting of Directors of Provincial Laboratories in Ottawa. Dr. Gibbons, Chief of the Laboratory of Hygiene, occupied the chair. The aim of these meetings is to bring about a standardization of methods and uniformity of reporting results by Provincial Laboratories across Canada. The Dominion Department also is desirous to co-operate much more fully than in the past through the Laboratory of Hygiene. During the past three years reagents for serological tests for syphilis have been prepared and distributed without charge to all Provincial Laboratories. Co-operation in the typing of freshly isolated strains of streptococci and diphtheria bacilli is also offered and accepted. Some steps have also been made in providing diagnostic aid in virus diseases, problems which as yet most Provincial Laboratories have no facilities, staff or equipment to undertake.

During the spring of 1946 we were considerably disturbed by the resignation of an unusually high percentage of our technical staff. Some of these members had five to nine years' continuous service and equivalently experienced personnel were not available for replacement. New members selected from among recent graduates of the University have laboured diligently and have made great headway in filling the vacancies made by last year's resignations.

It is a pleasure to record that all members, both new and old, have given cheerful and faithful service throughout the year.

TABLE 1

TABL	E 1			
WORK PERFORMED IN THE PROVINCIAL	LABORATO	RY DURIN	G THE Y	EAR 1946
WOULD IN THE THOUSAND	Total, 1945	Total, 1946	Increase	Decrease
Coutum Fyaminations	579	768	189	- Cube
Sputum Examinations Diphtheria and Haemolytic Streptococci	2.292	1.788	103	504
Typhoid Fever	640	881	241	
Milk	1,003	912	1111	91
Water	2,487	3,188	701	
Guinea Pig Inoculations	899	911	12 869	1000
Miscellaneous Examinations Plasma Cultures	4.816 873	5,685 150	009	723
Mother's Milk	1	100		1
Urinalysis	61	34	****	27
Medico-Legal Examinations (Blood, seminal,				
etc.)	8	9	1	1000
Cerebro-Spinal Fluids for the Wassermann	0.000	2.007	204	
Test Bloods for Quantitative Kahn test	2,803	3,097 1,556	294 1.556	****
Bloods for the Wassermann Test	7.839	9.221	1,382	1000
Bloods for the Standard Kahn Test	7,639	8,697	1,058	2000
Bloods for the Presumptive Kahn Test	77,739	99.009	21,270	
Smears for the Gonococcus	21,469	17,577	E 200	3,892
Van Den Bergh Determinations	385	5,289 288	5,289	97
Bloods for Rh factor	300	622	622	31
Pathological Histological Material	7,394	9,321	1,927	
Blood Smear Examinations	159	154		5
Post-mortem Examinations	273	280	7	
Ascheim Zondek Examinations		383	76	
Comparative Series	10	41	31	1010
Cerebro-Spinal Fluid Examinations (Colloidal	2,928	3.284	356	
Gold, Pandy) Bacteriological Examinations (P.M.)	50	89	39	****
B. abortus Examinations	626	881	255	1000
B. tularensis Examinations	626	881	255	
Cattle Blood Examinations	2,687	1,421		1,266
Total	146,593	176,417		
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		HROUGHOU	UT THE Y	EAR 1946
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768 1,788 881 3,437

Total

TABLE 5

NUMBER OF BLOOD AND CEREBRO-SPINAL FLUID EXAMINATIONS BY SEROLOGICAL TESTS FOR THE DIAGNOSIS OF SYPHILIS DURING THE YEAR 1946

Bloods Examined: Presumptive Kahn Standard Kahn	
Quantitative Kahn	1,556
Wassermann (Kolmer)	9,221
Cerebro-spinal fluids examined by Wassermann (Kolmer) test	
Bloods and cerebro-spinal fluids unsuitable for examination (N.S.C., Haem., Accidentally broken)	1,259
Bloods broken and leaked in transit	259
Bloods and cerebro-spinal fluids "Positive" to reaction	3.215
Bloods and cerebro-spinal fluids "Negative" to reaction	
Bloods and cerebro-spinal fluids giving "Doubtful Please Repeat" r	e- 1.000
Bloods giving "Please Repeat" reaction	
Bloods giving "Report as is"	
Bloods giving "N.S.Q. Please Repeat"	
Number of bloods and cerebro-spinal fluids examined in 1945	
Number of bloods and cerebro-spinal fluids examined in 1946	
Increase in number of specimens examined	
Increase in per cent	26.77%

TABLE 6

NUMBER OF BLOOD AND CEREBRO-SPINAL FLUID EXAMINATIONS BY SEROLOGICAL TESTS FOR THE DIAGNOSIS OF SYPHILIS, BY THE MONTH, DURING THE YEAR 1946

	Presumptive	Standard	Quantitative	Blood	C.S.F.	(N.S.Q., A.C.,
	Kahn Test	Kahn Test	Kahn Test	Wasserm'n	Wasserm'n	Haem.)
January	8,895	838		866	293	111
February	O PEA	821		900	276	99
March	10 720	818		889	262	113
April	8.614	724		796	237	76
May	9 100	614		674	255	95
June	0.794	857	70	905	261	130
July	7 074	731	247	761	288	123
August	7 010	662	257	696	232	98
September		643	292	670	335	58
October	7 190	581	243	595	223	67
November	0.000	727	223	752	269	140
December	0.075	681	224	717	226	149
		-	-	-	-	
Total	99,009	8,697	1,556	9,221	3,097	1,259

TABLE 7

NUMBER OF PREMARITAL BLOODS SUBMITTED FOR SEROLOGICAL TESTS FOR SYPHILIS DURING THE YEAR 1946

	Negative	Positive	Doubtful Please Repeat	Please Repeat	N.S.Q. Please Repeat	Report as is	Unsuit- able	Total
January	650	2		3	3	1	20	679
February		2		7			9	674
March	812	2		3	3		9	829
April	847	3		6	3		12	871
May	1.263	10		5			1	1,279
June	1,887	4		17	5		26	1,939
July	1.753	4	1	12	4	2	23	1,799
August	1,501	6	1	13	4		20	1,545
September	1.187	8	1	2	2		10	1,210
October	1,860	7	5	5	4	1	6	1,888
November	1.602	5	3	9	2		24	1,645
December	1,321	4	2	11	2		51	1,391
Total	15,339	57	13	93	32	4	211	15,749

TABLE 8 REPORT OF WORK DONE FOR THE MILITARY AUTHORITIES DURING THE YEAR 1946

	Airforce	Army	Navy	U.S.	Total
Milks	29	45		1010	74
Waters—Bact.	136	26	1		163
Smears—G.C.	2	51			53
T.B. Examinations	26	63	3	****	92
Widals	4	10		1111	14
Urines	1		1	2	4
Misc. Bact.	59	83		1	143
Throat Swabs	9	112	7		128
Wassermanns:					
Bloods	83	830	9	****	922
C.S.F.	10	152	****	2000	162
Kahns:					
Presumptive	3.576	23,903	215	4	27,698
Standard	82	813	9	****	904
Total	4.017	26,088	245	7	30,357

TABLE 9

BACTERIOLOGICAL EXAMINATIONS FOR EVIDENCE OF TYPHOID FEVER, DYSENTERY AND RELATED INFECTIONS

Source Stools	. 1	(1)Other Salmonella 33 2	Shigella (Dysentery bacilli) 22	Negative 395 10 12	Total 480 11 17
Culture of blood submitted for Agglutination purposes Duodenal drainage	5 2	$\frac{2}{1}$ $\frac{2}{20}$	21	903 2	910 5
* S. typhi-murium. (1) Details of Salmonella the 20 cases: S. typhi-murium S. oranienberg S. oregon S. madelia S. paratyphi B. S. thompson Not further identified Total cases	7 2 1 1 2 2 1 1 6	dysenter Sh. parac Sh. Sonr		oacillus)	us) 13 3 5

TABLE 10

SERA AND VACCINE DISTRIBUTED JANUARY 1946 TO DECEMBER 1946

Smallpox Vaccine:		Dick Test:	
1 point	2.385	10 persons	819
10 points	5,805	Tetanus Toxoid:	
100 points	16	1 person	76
Diphtheria Antitoxin, in syringe:		Tetanus Antitoxin:	
1,000 units	599	1,500 units	427
5,000 units	23	5,000 units	28
20,000 units	338	10,000 units	31
Diphtheria Toxoid:		Pertussis Vaccine:	
1 person	4,681	1 person	3.877
3 c.c.	433	6 persons	505
6 c.c.	910	Staphyloccus Toxoid:	
Diphtheria Toxoid and Pertussis		2 c.c. vial	268
(combined):			
1 person	7,491	Gas Gangrene Antitoxin:	
6 persons	2,000	4,000 units	82
Schick Test:		10,000 units	161
25 persons	467	Typhoid-Paratyphoid Vaccine:	
Scarlet Fever Antitoxin:		1 person	337
3,000 units, syringe	288	10 c.c.	761
9,000 units, vial	115	Other Vaccines:	
9,000 units, syringe	120	Autogenous, 25 c.c. bottle	23
Scarlet Fever Toxin:		Stock Vaccine, 25 c.c. bottle	3
1 person	3,303	Rocky Mountain Spotted Fever,	- 00
6 persons	2,370	30 c.c. bottle	83
Scarlet Fever Toxin:		65 c.c. bottle	6
Strength "A"—30 doses (large)	33	Diluted Diphtheria Toxoid:	
Strength "B"—30 doses (large)		Small	2
Strength "C"—30 doses (large)	36		
Strength "D"—30 doses (large)	64		
Strength "E"-30 doses (large)	126		

TABLE 11

AMOUNT OF AUTOGENOUS AND OTHER VACCINE PREPARED AND DISTRIBUTED DURING THE YEAR 1946

	Total, 1945	Total, 1946	Increase	Decrease
Autogenous Vaccine (25 c.c. quantity) Stock Vaccine (25 c.c. quantity)	22 12	23 3	1	9
Total	34	26		

TABLE 12

COMMERCIAL VALUE OF WORK IF MINIMUM CHARGE WERE MADE-1946

Sputum Examinations	768	\$ 1.00	\$ 768.00
Diphtheria and Haemolytic Streptococci	1.788	1.00	1,788.00
Typhoid Fever	881	1.00	881.00
Milk	912	3.00	2,736.00
Water	3.188	10.00	31,880.00
Guinea pig inoculations	911	3.00	2,733.00
Miscellaneous	5,685	3.00	17.055.00
Plasma cultures	150	.25	37.50
Urinalysis	34	1.00	34.00
Medico-Legal (Blood, seminal, etc.)	9	5.00	45.00
Cerebro-Spinal Fluids for Wassermann Test	3.097	1.00	3,097.00
Bloods for Wassermann Test	9.221	1.00	9,221.00
Bloods for the Quantitative Kahn Test	1.556		
Bloods for Standard Kahn Test	8.697	1.00	8,697.00
Bloods for Presumptive Kahn Test	99.009	1.00	99,009.00
Bloods for Rh factor	622	.50	311.00
Smears for the Gonococcus	17.577	1.00	17,577.00
Cultures for Gonococcus	5,289	1.00	5,289.00
Van Den Bergh Determination	288	1.00	288.00
Pathological Histological Material	9,321	5.00	46,605.00
Blood Smear Examinations	154	2.00	308.00
Ascheim Zondek Tests	383	5.00	1,915.00
Comparative Series	41	3.00	123.00
Cerebro-Spinal Fluid Examinations (Colloidal			
Gold, Pandy)	3.284	2.00	6,568.00
Bacteriological Examinations (P.M.)	89	5.00	445.00
B. abortus Examinations	881	.50	440.50
B. tularensis Examinations	881	.50	440.50
Cattle Blood Examinations	1.421	.10	142.10
Autogenous Vaccine	23	5.00	115.00
Stock Vaccine	3	3.50	10.50
Total			\$258,559.10

The tissues and exudates of 170 patients were examined for the presence of fungi, and in 39 of them pathogenic fungi were demonstrated.

Division of Entomology

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

General Introduction.

The following information is a summary of the Third Annual Report of the Division of Entomology and the Ninth Annual Report of the Rocky Mountain Spotted Fever and Sylvatic Plague Survey, for the year ending December 31, 1946.

During the 1946 survey season a considerable amount of work was done and some new investigations were undertaken. During the spotted fever survey 34 collections were made consisting of 187 host and 2,226 drag ticks. The host ticks were taken from 447 animals, of which 436 were shot and 11 trapped. No spotted fever positives were found.

A total of 1,031 persons were vaccinated against spotted fever. Of these 579 were from Redcliff, 368 from Manyberries, 84 from Thelma and Elkwater.

During the course of the plague survey 323 collections were made consisting of 3,061 animals of which 1,083 were shot and 1,218 were trapped. These animals yielded 5,729 fleas and 57 tissue specimens. No positives for plague were found in the flea and tissue specimens. The plague positives found in 1945 had already extended the known plague area eastward to the Saskatchewan border.

A considerable amount of tularaemia investigational work was under-taken but no new information was obtained.

Considerable progress was made in the study of rat migration, distribution and invasion of western Canada and it is expected that this report will be published early in 1947.

A preliminary investigation into the probable occurrence of *Haplosporangium parvum*, a fungus disease of small rodents transmittable to man, was under-taken in conjunction with Dr. E. S. Keeping of the Provincial Laboratory aided by a grant of monies from the Medical Section of the National Research Council of Canada. During the course of this investigation a total of 272 small rodents, mainly mice, were trapped. From these, 14 collections of material were found to be positive. The infection was found to be present at Lethbridge, Red Deer, Athabasca, Peace River and Grande Prairie.

An investigation was under-taken in co-operation with Dr. Norman Topping, United States Public Health Service, Bethesda, Maryland, into the possibility of sheep acting as a spotted fever reservoir. A total of 150 blood samples were taken from groups of sheep, ranging in age from week-old lambs to three year old ewes in the spotted fever areas in the Manyberries district, for laboratory examination. A similar number of bloods for check purposes were taken from comparable groups of sheep in the Scandia district, which is free from spotted fever. The experiment is not complete as yet but important information is indicated.

Laboratory space and facilities were obtained for this division in the Terrace Building and the laboratory was established there during October. The establishment of the laboratory is of immeasurable value to this division as it will allow many investigations to be under-taken which have been hereto impossible. Laboratory equipment is being obtained and by 1947 the division should have a well equipped laboratory. It should be pointed out, however, that the acquisition of the laboratory now makes it imperative that a technician be hired, particularly a person qualified in bacteriology so that the investigational work can proceed without hindrance.

A number of scientific papers were prepared and published during the year.

Personnel.

Mr. H. B. Hall, B.Sc., 3rd year Medical Student, University of Alberta was Officer-in-Charge of Crew No. 1. Mr. G. J. Nicholson, B.Sc., 2nd year Medical Student was Officer-in-Charge of Crew No. 2. Mr. D. W. McMillan, 2nd year Medical Student was assistant on Crew No. 1. Mr. R. F. Scott, 1st year Medical Student was assistant on Crew No. 2 from May to July when he resigned due to ill health. He was replaced by W. Goresky, 1st year Medical Student.

All of these men have a keen interest in the field work and rendered good and effective service.

Public Health Nursing Division

(JEAN S. CLARK, R.N., B.S., M.P.H., Director)

Despite the fact that the past year has been a difficult one for the Nursing Division from the point of view of staff fluctuation, it has been one of slow but steady progress in the matter of general organization. Expansion of the service has not, of course, been possible as it has been a virtually impossible task to keep those districts already established, staffed. This can be readily understood when it is realized that 1946 saw the peak of staff shortage since the establishment of the Division. It is to be hoped that there will be more easing of the situation in the coming year.

Staff.

The most momentous staff change during the year was that of the Director. Miss Helen McArthur who had held the post since July 1944, left Alberta in October to become the first National Director of Nursing Services for the Canadian Red Cross Society, while Miss Jean Clark, formerly the Assistant Director, returned from Johns Hopkins University, where she had been taking her Master's Degree in Public Health, to become the new Director of the Division.

Of special moment also was the attainment of their twenty-fifth year of service by four of the members of the nursing staff, Miss M. Lavell, Miss B. Emerson, Miss A. Conroy, and Miss O. Watherston. It was with regret, however, that the retiring resignations of the latter three nurses were accepted before the end of the year. Mrs. I. Hawkes, Secretary of the Division, also observed the anniversary of her twenty-fifth year of service to the Department.

Other staff changes included three leaves of absence, 9 resignations and twelve appointments.

Organized Centres.

As has already been mentioned, the problem of personnel shortage has prevented the opening of new districts during the past year, though requests for the service were received from several areas. On the other hand, due to changing needs and shifting populations, it was found expedient to close the Pendryl district and to move the nurse formerly stationed at Warburg to Breton.

The list of organized centres is now as follows:

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

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

In addition, the office of the Public Health Nursing Division continued to provide supervision for the one-nurse Health Units in the Province. These include:

Health District	Location
McLennan-High Prairie	McLennan
Athabasca Pembina	Wootlook
Wheatland	Strathmore

Brooks	Brooks
McLeod-Pincher Creek	Granum
Rocky Mountain	
Wainwright	
Spirit River	Spirit Divor

Staff Education.

The value of staff education, as well as the fact that more personalized efforts in this area would be desirable is fully recognized by the nursing office. Because of the present heavy demands upon the administrative personnel, no appreciable expansion of activities in this field has been possible though the program of former years has been continued.

As a means of keeping the nurses in the field up to date on administrative procedures of the Division as well as on new drugs and new developments in medical science which might be applicable to their work, the nursing office has continued to prepare and send out to all staff members a quarterly news letter of approximately fifteen mimeographed pages. With the same object in view, the annual staff Conference was again held in the week following Easter and in addition to general discussion of common problems, topics such as Immunization, Insect Control, Infant Feeding, Tuberculosis Control, School Examinations and Problems in Sanitation, were discussed by guest speakers.

Some advance was possible in the matter of reference material and guides for the district nurses. A concerted effort was made to institute standard libraries in all of the districts and there is now in preparation a Manual for Public Health Nurses outlining the personnel policies of the Division and a general program for the nurse in the field.

Supervision.

Twenty-six areas were paid one or more supervisory visits during the year, while, as always, considerable supervision and guidance was given in office conferences at such times as the various nurses have had occasion to visit the nursing office. A degree of supervision was also possible through the monthly reports submitted by each nurse. Situations continue to arise, however, which indicate that a closer contact on the part of the nursing office with both the nurses and the local nurses home committees is essential. It is hoped that this need may be met at least in some measure, by a full time assistant to the Director in the coming year. Certainly, at present the Director's time is crowded to capacity with administrative duties and even one visit per year to each area has not been possible.

Program in Rural Areas.

Due to the inauguration of a new report form, comparison between the work done by the district nurses during the past year and the work done in former years is not possible. However, generally speaking, it can be safely assumed that the volume of work as shown in Table 1 at the conclusion of this report, has not decreased.

Once again, the amount of fees collected in the districts, more than covered the total cost of the drugs and equipment supplied by the Division. This is shown in the following statement:

1	Balance			S	867.89	

A point of interest which we might note here is the fact that desire for the service is not diminishing with the inclusion of district nursing areas in organized Municipalities. Rather, as this has happened, the service has been continued at the request of the districts concerned and their respective Municipalities have been billed on a population basis for services rendered. Revenue stemming from this source in 1946 amounted to \$4,265.00.

Program in Urban Areas.

The nurses of the Child Welfare Clinics have continued to carry on a full prevention program in child health as shown in Table 2 at the conclusion of this report. In addition to that shown, however, a considerable volume of work has been carried on in other fields. The nurses at Drumheller and Vegreville have carried on the school programs in their respective towns and surrounding areas, while the nurse at Medicine Hat has assisted with the school program in that area. Miss Wilson of Drumheller has also assisted regularly with monthly chest X-ray clinics held under the direction of the Central Alberta Sanatorium. In the past year, there were twelve such clinics with 291 persons receiving appointments.

Miss Hagerman of Medicine Hat assisted with seven Rocky Mountain Spotted Fever Immunization clinics tnd has, in addition, to her preventive program, held regular weekly Venereal Disease Clinics. Miss Lavell in Calgary, has continued to carry the responsibility of inspecting Provincial baby shelters and private hospitals in that City. In 1946, she made 311 inspections of baby shelters and paid 65 visits to private hospitals.

Miscellaneous.

Office.—Added to their usual duties of administration and supervision, the Director and her assistant inevitably become involved with a number of miscellaneous activities which, though not directly concerned with their work, are inescapable and time consuming. The Edmonton Exhibition is one of these and during the week of its duration this year, they were on duty with the Department Exhibit every day. Lecturing to outside groups is another, and during 1946, amongst a variety of such activities, the Director spoke to the senior students of the city hospitals and directed two adult education series of 6 lectures each.

The services of the Alberta Maternity Fund maintained by the Provincial I.O.D.E., Alberta Women's Institutes and U.F.W.A., were continued, and in response to requests from district nurses forty-one layettes were sent out to needy mothers by the nursing office.

Field.

In the field, the nurses have, as usual, been instrumental in facilitating the services of all divisions of the Department as well as those of various other provincial and national organizations. An example of this is their co-operation with the Venereal Disease Division. This year, in addition to the usual treatment of incidental cases, three of the district nurses assisted for a week with the program of mass testing and treatment of the Indian population of the Grouard and Slave Lake areas which was conducted by the Venereal Disease Division in co-operation with the Dominion Government during the month of August at Grouard.

The nursing office and the staff in the field again co-operated with the University of Alberta and with various Schools of Nursing in the provision of field work for students. Twenty-two public health nurses obtained two weeks field experience in 1946 in both district nursing and child welfare programs, while student nurses from five Training Schools as well as trainees from the Canadian Vocational Training School have attended Child Welfare Clinics in Edmonton, Calgary, Medicine Hat and Vegreville for periods of observation ranging from one day to one month each.

Conclusion.

In conclusion, the Public Health Nursing Division would like to express its appreciation to all those who have aided in the furtherance of its work—to Dr. Cross and to Dr. Bow who have given generously of their sympathetic attention to the problems of the Division, to the staffs of other divisions and departments, and to allied social welfare groups in the Province. In rural areas, special commendation must go to the members of the medical profession, members of the nurses home committees and teachers of the local schools who have assisted the nurses in the field.

Lastly, the nursing office wishes to pay tribute to the members of the field staff for the splendid manner in which they have carried on with their duties in spite of the frequent difficulties which have faced them.

TABLE 1
REPORT OF DISTRICT NURSING CENTRES (EXCLUSIVE OF WORK DONE IN SCHOOLS)

IN SCHOOLS)	
36 Districts	1946
Treatment Consultations	20.003
Miscellaneous P.H. Consultations	7,449
Antepartum Consultations	1,937
Postpartum Consultations	624
Infant and Pre-school Consultations	4.033
Treatment Home Visits	4.678
Miscellaneous P.H. Home Visits	1.863
Communicable Disease Home Visits	486
Maternal Welfare Home Visits	652
	899
Infant & Pre-school P.H. Home Visits	148
Deliveries	
Abortions	61
Cases sent to Hospital or Doctor	1,375
Deaths (under 1 year)	10
Deaths (over 1 year)	45
Cases Communicable Diseases Reported	809
Pieces P.H. Literature Distributed	5,646
Fees collected \$	9,385.46
Immunizations:	
Diphtheria Toxoid	4.641
Scarlet Fever Toxin	6.979
Smallpox Vaccine	2.093
Whooping Cough Vaccine	3.747
Typhoid Fever Vaccine	34
Total number of doses	17,494
	-

⁶ doses Staphloccccus Toxoid.

⁶ Patch Tests.

TABLE 2 REPORT OF CHILD WELFARE CLINICS, 1946 (EXCLUSIVE OF WORK DONE IN SCHOOLS)

	IN SCI	HOOLS)			
Clinics, 1946	Edmonton	Calgary	Vegreville	Drumheller	Medicine Hat
Baby Clinic:					
No. of Names on roll	3.736	3.757	64	381	1.601
New cases admitted	1.881	1.422	39	179	438
Old cases re-admitted			1110		2
Referred to family doctor		20	4	12	64
Discharged			44		4
Deaths		6	1		1
Transferred to PreS. Clinic			11	122	102
No. in attendance	6.857	7.572	207	2.091	3.061
Breast Fed	1,431	1.342	64		707
Bottle Fed	a management	3,999	116		1.595
Other Feeding		2.231	27		759
Pre-School Clinic:			-		
No. of names on roll	1.237	4.741	17		1.000
New cases admitted	328	743	3		63
Old cases re-admitted	93				
Referred to family doctor	21	33	1	-	14
Discharged			17		
Deaths					
No. in attendance	1.310	2.732	227		943 .
Home Visits:	,	-,,,,			
Baby Visits	1.236				326
Pre-school visits	249				92
Pre-natal visits					38
Special visits		376			244
Summary:		-			
Total no. home visits	1.485	5,432	41	76	700
Total no. clinics held	200	250	44	71	137
Total no. in attendance	8.167	10,545	434	2.091	4.004
Average attendance			9.86	29.45	48.4
Total no. seen by doctor	1.150	3.393			
No. letters written on work	66	8.407	14		
Immunization-Total no. children		.,			
completing Inoculation:					
Diphtheria		- 11	96	46	236
Scarlet Fever			29	17	211
Whooping Cough			88	44	40
Typhoid Fever			1	3	6
Diph. & Wh. Cough combined	1			149	174
Total no. doses given (differen	t				
sera)			791	1.502	2.115
No. vaccinated Smallpox		6	87	190	334
		The same			

SCHOOL WORK (INCLUDING THAT DONE BY BOTH DISTRICT NURSES AND

32 Districts CHILD WELFARE CLINIC STAFFS)	1010
	1946
School Health Program:	
1. No. of visits to Schools	432
2. No. individual inspections	5.231
3. No. with suspected defects	2.791
(a) Defective vision	727
(b) Defective hearing	80
(c) Diseased Tonsils	1.366
(d) Unsound Teeth	2.077
(e) Eye diseases	4
(f) Ear diseases	
(g) Enlarged Cervical Glands	
(h) Enlarged Thyroid Glands	164
(i) Malnutrition	536
(j) Nervous disorders	185
(k) Faulty Posture	260
(1) Orthopaedic Defects	260
(m) Ringworm	
(n) Impetigo	7
	67
	100
	199
(q) Other skin conditions	
(r) No. exclusions—suspect communicable disease	115
4. No. correction of defects 5. Classroom Talks	419
6. Sanitary Inspection of Schools	154
	181
	287
	336
5. 140. school follow-up Home Visits	158
mmunization;	
1. Total number of doses of the following:	
(a) Diphtheria Toxoid	2,611
(b) Scarlet Fever Toxin	2,188
(c) Smanpox vaccine	1.005
(u) whooping Cough vaccine	1.003
(e) Typhoid Fever Vaccine	4
Total	6,811
2. Mantoux Tests and Patch Tests	1.047
3. Schick Tests	1,347
	92

Hospitals Division

(Dr. A. Somerville, D.P.H., Director)

Since 1945 there has been an increase of five in the number of approved hospitals operating in the province. Of these, three were newly constructed municipal hospitals built and operating under The Municipal Hospitals Act. They were: Mayerthorpe, Oyen and Ponoka. The other two hospitals were in operation previously but were added to the approved hospital list during 1946. They were: Miners' Union at Cadomin and the General at Daysland. In addition to the three new municipal hospitals opened, five other hospitals were municipalized under the Act. They were: Berwyn, Empress, Lacombe, Macleod, and Rocky Mountain House.

This increase in the number of approved hospitals resulted in an increase of 100 adult beds and 30 bassinets. There was an increase of 17,487 patients under care during the year which resulted in an increase of 117,669 patient days.

In spite of an increase of 100 nurses of all kinds over 1945, the shortage of nursing staff continues to be a problem of major importance. Ward aids are still being used extensively in practically all hospitals but in smaller rural hospitals particularly.

Approved Hospitals.

As outlined in the opening paragraph, there was an increase of five approved hospitals in 1946. On December 31st, 1946, there were 101 hospitals on the approved list, compared to 96 as on December 31st, 1945. These hospitals are divided as follows:

	1946	1945
Catholic	29	29
Protestant	6	7
Municipal	46	38
Municipally operated	10	12
Community	2	3
Industrial	5	4
Service Groups	2	2
University	1	1
	-	-
	101	96

Private Hospitals.

There was no change in the total number of hospitals operating under the Private Hospitals Act during the year 1946. Thirty-five such hospitals were in operation on December 31st, 1946.

Baby Shelters.

Baby shelters are licensed under The Private Hospitals Act and there were 57 operating during the year 1946, the same number as were in operation during the year 1945. In future, there will be no report made by this Division on this phase of the work as baby shelters were placed under the jurisdiction of the Department of Public Welfare in 1947.

Statistics.

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—Operating expenditure.

*Excluding Central Alberta Sanatorium.

No. 7—Operating revenue. No. 8—Costs and earnings per patient day with percentage of costs.

For convenient reference the statistical totals appearing in the above mentioned statements are condensed in the following tables. The totals for the year 1945 are also shown so that a comparison can

be made.				
HOSPITAL	BEDS			
C:	apacity	1946 Complement	Capacity	1945 Complement
Adult beds	4676	4822	4588	4720
Cribs	464	543	452	502
Bassinets	892	1015	863	956
	6032	6380	5903	6178
Beds per thousand population (ex-	6.4	6.7	6.1	6.2
Patients accommodated per bed per year	0.4	25.3	0.1	21.9
PATIENT				
PATIENT	DAIS		1946	1945
Adults and Children			05,820	1,309.466
Newborn			10.878 16.698	189,563 1,499,029
All Patients			10,000	1,400,000
PATIENTS UNDER CARE	DURI	NG THE YE	AR	
			1946	1945
Adults and Children			140,634	125,666
Average stay Newborn			9.0 20.761	9.3 18,242
Average stay			10.1	10.4
Total Patients			161,395	143,908
Average stay			9.2 4.423	9.4
Average in Hospital Daily Percentage of Population in Hospital D	aily		.55	.50
Percentage of Population Admitted Per	Year		20.9	17.4
STAF	TEN.			
SIAF	F		1946	1945
Administration: Executive			106	103
Clerical			266	243
Professional:				
Salaried Doctors Internes			30 61	31 21
Internes Technicians			117	116
Nurses:				
Total Graduate			1,953	1,854 829
Student			781	739
Probationers			224	221
Affiliates Distitians:			21	65
Graduate			20	17
Student			6	6
Orderlies and Ward Helpers			565	368
Other Employees			1,418	1,348
Total Staff			4,542	3,742
ANADOMI	ETICE		-	A COLUMN
General ANAESTH			30.882	33,131
Spinal			10,219	9,403
INFECTIONS DEVELO	PED IN	HOSPITAL		
34 11 1			47	86
Surgical			110	122
Obstetrical			110	95
COMMUNICABLE DISEA	SEC I	HOSPITALIZI	ED.	
Tuberculosis*			561	585
Typhoid			32	35
Others			1,382	1,608

BIRTHS (EXCLUDING INDIANS) IN APPRO	OVED H	OSPITAI	S	
		1946	1945	
Total No. Live Births		20.168	17.128	
Live Births—Male		10.327	8.721	
Live Births—Females		9.841	8,407	
Total No. Stillborn		351	307	
Percentage of Births in Hospitals to total births in P				
(excluding Indians)		95.9%	93.8%	
(excidency manus)				
DEATHS IN HOSPITAL				
Total (Excluding still births)		3.356	3,241	
Within 10 days after Surgery		193	252	
Within 48 hours after Admission		899	784	
From Communicable Diseases		58	49	
Maternal		56	29	
Maternal per 1,000 Live Births		2.77	1.63	
EXAMINATIONS DONE				
Post Mortem		906	709	
Laboratory		424,643	397,802	
X-Ray		111,104	90,275	
NURSES TRAINING				
No. of Schools		11*	11	
No. of Graduates		0.00		
*Includes Mental Institute, Ponoka.				
includes melital monthly rollows				
FINANCIAL				
	1946		1945	
Total Operating Revenue	\$7,608.2		.710,085.66	
Total Operating Cost	\$7,762,3		,272,273.73	
Revenue Per Patient Day		\$4.70	\$4.48	
Cost		\$4.80	\$4.18	
Salaries and Wages		4.4%		
Supplies		4.5%	diamen	
Purchased Services		4.2%	3120000	
Balance *		6.9%		
*Includes: Insurance, depreciation, repairs and change, and miscellaneous.	replacem	ents, in	terest and	ex-

TABLE No. 1

		Total	1.107 1.298 1.298 1.055 1.055 1.004
Patients Under Care During Year	p	4	600 283 284 284 284 284 284 284 6,017 6,017 184 184 184 184 184 184 184 184 184 184
	3.5	i letoT	335 609 222 228 228 288 288 365 365 374 382 374 374 374 374 374 375 375 375 375 375 375 375 375 375 375
Durin	5	i	252 288 288 288 288 288 288 288 288 288
er Care	1	Newborn	28 88 88 88 88 88 88 88 88 88 88 88 88 8
s Und	-		252 252 252 253 253 253 253 253 253 253
Patient	N	Adults and Children	445 317 527 116 253 210 253 210 32458 6 3.458 6 3.458 6 427 427 427 427 427 427 427 427 427 427
	1	a	8 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Cribs)		Others	
		Incurables	2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Classification (Beds,		SuoigetnoO SeesesiQ	388
ation		Tuberculosis	268814 445 600 8488245 8 606888 448 190 04 14 14 14 14 14 14 14 14 14 14 14 14 14
ssific		Obstetrics	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Clas		General Med. and Surgery	200 200 200 200 333 333 333 333 333 333
ent		Total	8824 881 882 882 882 882 882 882 882 882 882
Bed Complement	Number	Bassinets	7.881 1.888 1.488 1.488 1.488 1.888
Con	Nur	Cribs	a augu-suantitis a-ungunuu nag-nag-
Bec		Adult	292 292 292 292 293 293 293 293 293 293
i		Total	335 335 335 335 335 335 335 335 335 335
acity	- La	Bassinets	L480844L8L800 0 L8484L840 L408 4 8E
Bed Capacity	Number	Cribs	טובט מ בטרטרט בוטטט טובטטבט בטבט
Bed	Z	HubA	250 260 270 260 260 260 260 260 260 260 260 260 26
Hospitals		Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal Bentley, Municipal Bervyn, R. A. P. Bonnyville, St. Louis Brooks, Municipal Brooks, Municipal Calgary, Isolation Calgary, Junior Red Cross Calgary, Junior Red Cross Calgary, Junior Red Cross Calgary, Little Bow Municipal Cardston, Municipal Cardston, Municipal Cardston, Municipal Cardston, Municipal Cardston, Municipal Cardston, Municipal Caresholm, Municipal Coronation, Municipal Coleman, Miners' Union Coleman, Miners' Union Consort, Municipal Didsbury, Municipal Didsbury, Municipal Eckville, Municipal

340 340 341 341 341 341 341 341 341 341
282 282 283 290 291 291 291 291 201 201 201 201 201 201 201 201 201 20
25.455 2
350 350 350 350 350 350 350 350 350 350
377 1.2128 388 288 288 288 288 288 288 288 288 288
25.75 2.822 2.822 2.822 2.822 2.823 2.008 2.
2,24,25,24,25,24,25,24,25,24,25,24,25,24,25,24,25,24,25,24,25,24,25,24,25,24,25,24,25,25,25,25,25,25,25,25,25,25,25,25,25,
18: 2: 11: 12: 4: 11: 11: 12: 11: 11: 12: 11: 12: 12: 12
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5 5
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286 28 28 28 28 28 28 28 28 28 28 28 28 28
56.88 22 22 22 22 22 22 22 22 22 22 22 22 2
100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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525 526 527 528 528 528 528 528 538 538 538 538 538 538 538 53
25 25 25 25 25 25 25 25 25 25 25 25 25 2
288 08 1 10r0 40400 0rEL 8 40088 88480808 44101010400800
872 U U U 40 U 4-80U
214 411 186 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Edmonton, General, T.B. Division Edmonton, Royal Alexandra Edmonton, Royal Alexandra Edmonton, Isolation Edmonton, University of Alberta: (a) D.V.A. (b) Orthopaedic (c) Polio (d) T.B. Division Edson, St. John's Empress, Municipal Fairview, Community Ft. Wermillon, St. Theresa Gralahad, St. Joseph's Ft. Smith, General Ft. Vermillon, St. Theresa Grande Prairie, Municipal Hardisty, St. Anne's High River, Municipal Hardisty, St. Anne's High River, Municipal Grimshaw, Battle River High River, Municipal Hardisty, St. Anne's High River, Municipal Jasper, Seton Killam, General Lacombe and District, Community Lac Is Bische, St. Catherine's Lethbridge, Isolation Magrath, Municipal Magrath, Municipal Mayerthorpe, Municipal Mayerthorpe, Municipal Mayerthorpe, Municipal Mayerthorpe, Municipal Mayerthorpe, Municipal Medicine Hat, General Mordeg, General Mordeg, General Nordeg, St. Minicipal Peace River, Municipal Peace River, Municipal Peaces River, Municipal Peaces River, Municipal Peaces River, St. Vincent's Penoka, Municipal Radway, St. Joseph's Raymond, Municipal

TABLE No. 1-Continued

		Total	2.781 456 456 456 456 11.891 11.588 673 673 673 673 673 673 861 673 861 673 861 673 863 873 873 873 873 873 873 873 873 873 87	31,395	3,933	57,462	5,428	52.034
	EL.		664 307 307 337 337 337 337 337 347 357 457 457 457 457 457 457 457 457 457 4	92,255 161,395	2,143	90,112 157,462	547	89,565 152,034
ear	-	Total	235 235 207 2200 2200 2245 1776 136 136 136 136 136 136 136 136 136 13				81	
ng Y	M.		-	69.140	1.790	67,350	4,881	62,469
e Duri	[H		277 277 278 278 278 278 278 278 278 278	10,135	294	9,841	100	9,841
er Car	M.	Иемроги	194 250 38 38 1136 1146 1175 1176 1176 1176 1176 1176 1176 117	10,626	299	10,327		10,327
nu s	- in		273 222 222 222 340 304 978 859 294 1.497 1.497 1.99 364 465 269 364 465 1.024 1.024	82,120	1,849	80,271	547	79.724
Patients Under Care During Year	M.	Children Adults and	923 168 168 168 219 222 275 277 251 251 252 330 346 856 856	58,514 8	1.491	57,023 8	4,881	52,142 7
- (s	1	Others	j. i	204		ion	7	
Cribs)		Incurables		6.9		Division		
(Beds,		Contagious		238	year	T.B.		
		Tuberculosis	111112111111111111	216	of ye	and		
ificat		Opstetrics	144 100 100 100 100 100 100 100 100 100	930	end	Polio,		
lent Classification		General Med. and Surgery	23 20 20 20 20 20 20 20 20 20 20 20 20 20	380 3,441	ital at			
		Total	2822822822888258828288	6,380	Patients in hospital	Orthopaedic,		
Bed Complement	per	Bassinets	10000000000000000000000000000000000000	543 1,015	ents			
d Cor	Number	Cribs	⊕ないのいなるようななながらなる≒ないよれたも	543	Pati	Less D.V.A.,		
Be		Adult	210212222222222222222222222222222222222	4,822	Less	Less		
		Total	347323234449993344933344933334493333333333	892 6,032				
acity	er	Bassinets	01 0447488888884 601 01 01 01 01 01 01 01 01 01 01 01 01 0	892	· A			
Bed Capacity	Number	Cribs	иниамичичи фина и ами	464	Valle			
Bed	4	HubA	02112833333331102120	4.676	Turner Valley.			
		Hospitals	Red Deer, Municipal Rimbey, St. Paul's Rocky Mountain House, Municipal Spirit River, George McDougall Spirit River, Holy Cross St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Trochu, St. Mary's Turner Valley, Oilfields General Vermillon, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Wayne, General Westlock, Immaculata Westlock, Immaculata Westlock, Immaculata Westlock, Immaculata Westlock, Immaculata	Total	Estimated for: Canmore. Coleman.			

TABLE No. 2

Total
Adults
28
116
36
9
16
D =
464
100
*
623
63
177
53
29
70

DEPARTMENT OF PUBLIC HEALTH

TABLE No. 2-Continued

STATE OF STATE OF SAME STATE STATE				PA	PATIENT DAYS	rs				
Homitals	Total of	all	Patients, 1946	Total P	Total Patients Discharged and Died	harged	Average Stay	ge Stay of Patients charged and Died	ents Dis-	Aver. No. Patients in
	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total	Daily
Edmonton, Royal Alexandra	125,692	22,773			22,218	146,293		5.6	10.3	406.7
	88.12	8,415	12,195	10,716	8,401	10,716	325.0	11.8	325.0	33.4
(a) D.V.A. (b) Orthopaedic	88,022		88,022		FI	87.671			19.0	241.1
	3,328			5,023		5,023				12.7
Edson, St. John's File Doint Municipal	8,026			8,153		9,865				26.6
Empress, Municipal	6,038			5,673	648	6,321	000	11.0	000	18.3
	3,360	1,	000	3,342		3,925				16.2
Ft. Smith, General	5,517			5,517		5,732	-			15.7
Galahad, St. Joseph's	5.032			4.943		5,807				16.1
Grande Prairie, Municipal Grimshaw Battle River	11,643	ri .		11,442	24	13,968				00 m
Hanna, Municipal	9.256	1,726	10,982	9,256	1,726	10,982	9.6			30.1
High Prairie, Providence	17,010	1		17,675	-	19,654				19.9
High River, Municipal	13,060			12,604	-	14,550				41.1
Islay, Municipal	3,422	-		3.417		3,719				10.2
Jasper, Seton	3,723			3,539		3,858				11.1
Lacombe and District, Community	9.707	67		9,468	6	12.090				12.5
Lac la Biche, St. Catherine's		-		6,557		8,038				222
Lamont, Public	19,349	1,		19,093	-	20,627				57.
Lethbridge, St. Michael's	30,642	NO.		30,576		36.182			8.9	
Lethbridge, Galt	32,847	40		34,237		38,711			10.3	102
Lloydminster, Municipal	17,232	N		19,364		21,604			11.5	550
Magrath, Municipal	2,365	426	2.791	2,322	425	2,747		10.0	7.00	7.6
Mannville, Municipal	4,372	-		4,347		5.414			7.7	14

Mayerthorpe, Municipal	477	382	859	425	350	775	00 G	10.0	9.1	2.3
Hat,	9 047	Not	M	2 884	605	4.489	Not 6 7	Reported	7.11	12.2
Mundare, General McLennan, Sacred Heart	9,042	1,526	10,568	8,909	1,490	10,399	-010	9.00	1-0	28.9
Myrnam, Municipal	3,626	327		3,588	362	3.441	6.6	10.9	6.9	9.7
Olds, General	6,159	1,580		6,159	1,580	7,739	9.4	9.5	9.5	21.2
Oyen, Municipal		No	田	-	040 -	10000	Not	Reported	100	200
Peace River, Municipal	8,649	1,040	9,689	8,578	1,052	7.463	0.6	9.7	9.9	19.2
	1.901	524	2,425	1,860	524	2,384	6.0	1111	9.9	6.6
	5,822	1,333	7,155	5,754	1,329	7,083	4.00	10.5	1 00	19.6
Radway, St. Joseph's	4.022	1,132	5,154	3,963	1,134	4.134	7.1	0 m	7.6	11.4
Red Deer, Municipal	19,022	4,026	23,048	18,883	4,114	22,997	0.0	11:00	4.00	63.1
Rimbey, St. Paul's	3,589	168	4,483	3,686	920	4,606	20 40	21.2	0.0	2.00
Rocky Mountain House, Municipal	2,623	754	3.456	2.702	754	3,456	2.4	000	6.5	100
Snick Lake, George McDougan	4.164	484	4.648	4,030	495	4,525	6.7	6.0	8.1	12.7
St. Paul. St. Theresa	10,356	2,760	13,116	10,312	2.641	12,953	6.4	00:00	6.9	6.00
Stettler, Municipal	13,826	2,220	16,046	13,135	2,141	15,276	00 0	9.6	9.7	943.9
Taber, Municipal	7,315	1,750	9,065	7,315	1,750	9,065	9 49	10.5	7.0	16.8
Trochu, St. Mary's	9,819	1,320	6.072	3.886	1.106	4.992	7.7	10.2	8.1	13.8
Vegrecille General	17.810	2,391	20,201	17,995	2,375	20,370	00.	9.9	8.0	10 0
Vermilion, Municipal	10,478	1,800	12,278	10,225	1,760	11,985	t= 0	10.7	0.0	33.6
Viking, Municipal	5,367	888	6,335	1,457	1,038	0,430	9 10	9.6	7.1	6.8
Vilna, Our Lady's	1,692	036	5 257	6.342	1.177	7.519	10.5	11.7	10.6	14.4
Vulcan, municipal	6.605	1,369	7.974	6,399	1,364	7,763	8.2	11.2	8.4	21.8
Wayne, General	4,083		4,526	4,209	449	4,658	6.9	10.2	7.1	12.4
Westlock, Immaculata	11,844	2,470	14,314	11.741	2,467	14.208	0 10	200	6.26	40.2
Wetaskiwin, Community Willingdon, General	5,265		6,286	5,125	1,002	6,127	6.8	9.1	7.0	17.2
Total	1,405,820	210,878	1.616,698	1,375,428	208,238	1,583,666	- 0.6	10.3	9.2	4,423.4
Less D.V.A., Orthopaedic, Polio and T.B. Division cases	173,754		173,754	187,275	1	187,275				
	1,232,066	210,878	1,442,944	1.188,153	208,238	1,396,391				

Estimated for: Canmore, Coleman, Turner Valley

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Hospital	Executive	Clerical	Salarled	Internes	Technicians	Graduate	Student	Probationers	Affilliates	Graduate	Student	Orderlies and Ward Helpers	Employees Employees	TetoT	Medical Staff No. of	Doctors	Training School Affiliation	with other Institutions	Graduated during the
Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Barsano, Municipal Bentley, Municipal Bentley, Municipal Bentley, Municipal Bennyville, K. H. P. Bonnyville, K. H. P. Bonnyville, St. Louis Brooks, Municipal Calgary, General Calgary, General Calgary, Holy Cross Calgary, Holy Cross Canrose, St. Mary's Canrose, Municipal Carcel, Municipal Carcel, Municipal Coleman, Miners' Union Coleman, Miners' Union Coleman, Municipal Coleman, Municipal Coronation, Municipal Coronation, Municipal Daysland, Providence	000000		1 1		1		108 119 119 119 119 119 119 119 119 119 11					8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11222444444988881114481448144814481481	85271117284883888888888888888888888888888888888	YAY SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	18 18 1 1 1 1 1 1 1 1		NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	

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TABLE No. 3-Continued

		Graduated during the year	111111111111111111111111111111111111111	275
		Affiliation with other Institutions	NNNNNNNNNKKNNNNNNNNNNNNNNNNNNNNNNNNNNNN	-
		Training Ioodo2	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	
		No. of Doctors	0 0 4 00 10 10	688
		Medical	Yes Noo Noo Noo Noo Noo Noo Noo Noo Noo Noo	
		Total	22222222222222222222222222222222222222	4542
	Others	Employees All other	N-4	1418
	Oth	Orderlies and Ward Helpers	0 0140 40H 000F 0	565
	Dietitians	Student		9
	Dieti	Graduate		20
		Affiliates	[8 []]]]]]]]]]	21
FF	ses	Probationers		224
STAFF	Nurses	Student	11:::::::::::::::::::::::::::::::::::::	781
		Graduate	400000400-00004-000	927
	al	Technicians		1117
	Professional	Interns	11111111111111111	19
	Pro	Salaried	7	30
	ılstr'n	Clerical	- - - - -	266
	Administr'n	Ехеспиле	H 044 04 HHHHHH	106
		Hospital	Smoky Lake, George McDougall Spirit River, Holy Cross St. Paul. St. Theresa Stettler, Municipal Taber, Municipal Trochu, St. Mary's Turner Valley, Oilfields General Vegreville, General Vermillon, Municipal Viking, Municipal Viking, Municipal Vilina, Our Lady's Vilina, Our Lady's Vilina, Our Lady's Vilina, Municipal Wahnwright, Municipal Wastlock, Immaculata Westlock, Immaculata Westlock, Immaculata Westlock, Immaculata Westlock, Community	Total

Estimated for Canmore, Coleman and Turner Valley.

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cal		Lemale	257 256 191	108	140	587	193	1303	1059		672	357	237	69	06	100	124	06	296	229	1390	1545
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		Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's	Bassano, Municipal Beaverlodge, Municipal	Bentley, Community Berwyn, R. A. P.	Bonnyville, K. H. P. Bonnyville, St. Louis	Brooks, Municipal	. 0,			. 6	Canmore, Canmore Cardston, Municipal	Carmangay, Little Bow Municipal	Cereal, Esler	Cold Lake, John Neil	Coleman, Miners' Union	Coronation, General	Daysland, Providence Desmarais St Martin's	Didsbury, Municipal	Eckville, Municipal	Edmonton, Beulah Rescue Home	-
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ė:	inve	Female	2 4 6 8 8 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15
Non-	Opera	Male	1310 49 112 1212 1213 1213 1213 1213 1213 1213	25
	or	Lemale	920 1971 1971 1971 1972 1973 1973 1974 1975 1975 1975 1975 1975 1975 1975 1975	32
Te:	Minor	Male	2940 2022 2022 2022 2022 2022 2022 2022	122
Surgical	-	Eemale	427 1056 1105 1105 1105 1105 1105 1105 1105	37
	Major	Male	1108 1108 1100 1100 1100 1100 1100 1100	223
- Too		Female	310 2577 2	229
Medical		Male	2315 2946 2946 2946 2946 2946 2946 2946 2946	178
		Hospitals	Edmonton, Isolation Edmonton, University of Alberta Edson, St. John's Elk Point, Municipal Empress, Cottage Fairview, Community Ft. McMurray, St. Gabriel's Ft. Smith, General Ft. Vermillon, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Grimshaw, Battle River Handisty, St. Anne's High Prairie, Providence High River, Municipal Innistall, Municipal Innistall, Municipal Innistall, Municipal Islay, Municipal Killam, General Lechbridge, Isolation Lethbridge, St. Michael's General Lethbridge, St. Michael's Lethbridge, St. Michael's Lethbridge, Galt Lethbridge, St. Municipal Mazielod Municipal Mazielod Municipal Mazielod Municipal Mayerthorpe, Municipal Mundare, General	Myrnam, Municipal Nordegg, General

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Olds, Municipal Oyen, Municipal Oyen, Municipal Pincher Creek, St. Vincent's Pronoka, Municipal Provost, Municipal Radway, St. Joseph's Raymond, Municipal Raymond, Municipal Red Deer, Municipal Rimbey, St. Paul's Rocky Mountain House, Municipal Rimbey, St. Paul's Rocky Mountain House, Municipal Spirit River, Holy Cross Community St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Taber, Municipal Trochu, St. Mary's Turner Valley, Oliffields General Vegreville, General Vegreville, General Viking, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Wayne, General Wayne, General Washe, General Westlock, Immaculata Wetaskiwin, Community	Total

Estimated for Canmore, Claresholm, Coleman, Eckville and Turner Valley.

TABLE No. 5

Deaths		Within 48 to study Admission	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	əle	From Communical Diseases	
		From	
	3	From Cancer	
		Premature	0 0 1 0 40 888 r-1 0 81 1 0 81
	Obstetrical	Stillborn	- 1° 1911 98 148 10 98 891 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Obste	Newborn	1 1 1 1 1 1 1 1 1 1
		Mothers	[
pado	trical	Newborn	
Develo	Obstetrical	Mothers	
Infections Developed in Hospitals		Surgical	
Infect		Medical	111111111111111111111111111111111111111
	İ	Total Operations	209 4129 1129 1129 1168 1171 68 168 168 171 399 34 5474 1104 1104 1104 1104 1104 1104 22 22 22 39 39 39 39 39 39 39 39 39 39 39 39 39
Operations		General	142 342 307 105 307 105 307 105 508 46 424 424 508 10 10 10 10 10 10 10 10 10 10 10 10 10
	ures	Closed	223 642 113 113 114 115 115 116 117 117 118 118 118 118 119 119 119 119 119 119
	Fractures	Open	
		snoitstuqmA	48882 2882448188 31 4 8 121 122 211
Surgical		Curettages	22 231 231 231 231 231 111 111 110 110 110 110 110 110 110 1
	Is:	Gynaecologic not including Curettages	22 22 22 23 68 68 68 68 68 68 68 68 68 68 68 68 68
		IsnimobdA	34 411 36 112 333 333 333 341 444 444 143 1585 260 260 260 260 260 260 260 260 260 260
Hospitals		Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal Bentley, Municipal Bentley, Municipal Bennyville, K. H. P. Bonnyville, K. Louis Brooks, Municipal Cadomin, General Calgary, General Calgary, Holy Cross Calgary, Holy Cross Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Municipal Caronangay, Little Bow Municipal Cold Lake, John Neil Cold Lake, John Neil Colorat, Municipal Daysland, Providence Daysland, Providence Dossmarals, St. Martin's Didbury, Municipal Eckville, Municipal Eckville, Municipal Eckville, Municipal Eckmonton, Beulah Rescue Home Edmonton, Beulah Rescue

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nonton, Royal Alexandra on St. John's Point, Municipal rress, Cottage View, Community McMurray, St. Gabriel's Smith, General Vermilion, St. Theresa ahad, St. Joseph's nea, Municipal mshaw, Battle River na, Municipal disty, St. Anne's h Prairie, Providence h River, Municipal stail, Municipal cont, Public hbridge, St. Michael's hbridge, St. Michael's hbridge, Galt chort, Public hbridge, St. Michael's hbridge, Galt chort, Public hbridge, Galt chort, St. Municipal cleed, Municipal dicine Hat, General chen Municipal cher Greek, St. Vincent noka, Municipal cher Greek, St. Joseph's ymond, Municipal divay, St. Joseph's ymond, Municipal divay, St. Joseph's ymond, Municipal nbey, St. Paul's chy Mountain House cky Mountain House cky Mountain House chy Lake, George McD rift River, Holy Cross C Paul, St. Theresa
Edmonton, Royal Alexandra Edson, University of Alberta Edson, University of Alberta Edson, University of Alberta Erik Point, Municipal Fr. WcMurray, St. Gabriel's Fr. Smith, General Fr. Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Hardisty, St. Anne's High River, Municipal Islay, Municipal Maspert, Galt Lethbridge, St. Michael's Lethbridge, St. Michael's Lethbridge, St. Michael's Lethbridge, Galt Lethbridge, St. Michael's Lethbridge, St. Municipal Magrath, Municipal Magrath, Municipal Magrath, Municipal Machenan, Sacred Heart Myrnam, Municipal Medicine Hat, General Olds, General
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TABLE No. 5-Continued

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		Within 48 Hours of Admission	H- 42000-110-	889
	ole	From Communical Diseases		58
	-	Anaesthetics	THILTHITITE	20
hs		From Cancer	NP 400 10 10	458
Deaths	-	Premature	4-00000000	257
	al la	Stillborn		351
	Obstetrical		N	Q
	Obst	Newborn		56 255
		Mothers		
pado	Obstetrical	straini		69
Devel	Obste	Mothers	-1111111111111	41
Infections Developed in Hospitals		Surgical		110
Infect	Medical		01	47
	Total Operations		460 460 249 886 129 129 129 187 187 1702 1732 86	28080
		General	285 364 179 36 67 67 67 117 85 85 45 36 45 36 45 45 36 45 45 45 45 45 45 46 46 46 46 46 46 46 46 46 46 46 46 46	
su	ures	Closed	221 221 231 232 24 252 253 254 255 255 255 255 255 255 255 255 255	3191 35991
eratio	Fractures	Open	2001 1000 100	572
al Op	s	Amputation	81161 1441110	496
Surgical Operations		Curettages	242 242 244 244 244 244 244 244 244 244	2164
	81	Gynaecolog not includin Curettages	2322 1 1 108	3525
	Igoi	IsnimobdA	1112 60 47 1150 1150 1160 36 2772 34 272 34 34 34 36 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	12141
		Hospitals	Stettler, Municipal Taber, Municipal Trochu, St. Mary's Trumer Valley, Oilfields General Vegreville, General Vina, Our Lady's Vulcan, Municipal Vilna, Our Lady's Vulcan, Municipal Wanwright, Municipal Wanwright, Municipal Washec, General Westlock, Immaculata Westlock, Immaculata Wetlesklwin, Community	Total

Estimated for Canmore, Claresholm, Eckville & Turner Valley.

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		DE	DEATHS										
	Withir from Ope	Within 10 days from Surgical Operation	Total ex	l excluding			bla	su	su				
Hospitals	Number	Percentage to Total Operations	Male	Lemale	General Ar	Spinal Anae	H səisqotuA	Laboratory	X-Ray Examinatio	Blood taken	Bacteriolog Examinatio Sterilized Dressings	Pasteurized Milk Suppl	Water Supp Tested Bacteriolog
Athabasca, Municipal		100	6	t- 0	180	18	1	9599	126	60 60	63	No	Yes
		18	16	0 17	360	200	11	808	380	i	4	Yes	Yes
Bassano, Municipal Beaverlodge, Municipal	٠.	27.	410	*10	81	225	1	7	41	64	₩ 0	No	Yes
Bentley, Municipal	11	11	91-	63 64	153	10		364	131	4	7 4	No	Yes
Bonnyville, K. H. P.			12	10	69	0.00		2404	392	400	63	No No	Yes
Brooks, Municipal	4	1.01	125	11	147	200		89	311	99	9	oN o	Yes
Cadomin, General	30	155	243	153	4272	783	178	49251	5083	209	67	Yes	Yes
	23	.41	182	105	2590	992	165	38342	4511	131	16	Yes	Yes
Calgary, Junior Red Cross			13	63		1 1		000	750	8	215	Yes	Yes
-	61	.24	63.0	18	642	151	1	3600	389	110	4	Yes	Yes
Cardston Municipal		25	20	9	191	107			595		4	Yes	Yes
Carmangay, Little Bow Municipal			47 11	10.4	117	11	23	950	197	1	4	No No	No
Castor, Our Lady of the Rosary Cereal, Municipal			262	103	31	27	1	300	25		4	No	No
olm, Munic			10	9	196	17		1007	243	-	90	No	Ves
Cold Lake, John Neil	1		130	200	87		1	264	342		100	Yes	Yes
Municipal	1	16.	100	1001	106	13	1	****	15	1		oN o	°ZZ
Coronation, Municipal	-		50.0	200	72	14	1	217	164	00		No	Yes
Daysland, Providence		-	0	2 62	3	-		140				No	No
Didsbury, Municipal		110	6	00	184	4	19			000		Yes	Yes
~	00	.27	322	24	122	278	0-			00	4	No	Yes
Eckville, Municipal Edmonton, Beulah Home	-	-	000	101	-	2	- 15					Yes	Yes
Edmonton, General	00 1	63 6	06	75	1303	1002	95	32419	13419	2538	12	Yes	Yes
Edmonton, Misericordia	CT	000	100	10	CEOT	707	200	Orean	TOTAL	-	-	-	

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		Water Supp Tested Bacteriolog	Yes
		Pasteurized Milk Suppl	Yes Yes NO NO NO NO NO NO NO NO NO NO
		Bacteriolog Examinatio Sterilized Dressings	Not Reg
		Blood taker	284 287 287 150 150 150 18 8 8 8 8 8 8 8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10
	su	X-Ray	12228 34311 457 600 129 69 69 74 78 78 437 1051 1660 197 1051 167 1188 150 137 137 137 137 137 137 137 137 137 137
	su	Examination Examination	96547 70262 760 3000 760 50 172 172 172 172 173 1746 5008 500 857 19259
	plə	H səlsqotuA	Not B
	Spinal Anaes- thetics Given		1309 1309 1309 1309 106 106 106 106 106 106 106 106 106 106
General Anaes- thetics Given			4725 180 180 180 180 180 180 180 180 180 180
	excluding Ilbirths	Kemale	188 888 888 888 888 888 888 888 888 888
DEATHS	Total e	Male	N 23 25 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
DE	Within 10 days from Surgical Operation	Percentage to Total Operations	1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.28
	Withir from Ope	Number	
		Hospitals	Edmonton, Royal Alexandra Edmonton, University Edson, St. John's Elk Point, Municipal Empress, Cottage Fairview, Community Ft. McMurray, St. Gabriel's Ft. Smith, General Ft. Smith, General Ft. Swith, General Ft. Swith, General Grande Prairie, Municipal Grimshaw, Battle River Hanna, Municipal Innisfall, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Jasper, Seton Killam, General Jasper, Seton Killam, General Lac La Biche, St. Catherine's Lerbbridge, St. Michael's Lethbridge, Galt Licydminster, Municipal Magrath, Municipal Macleod, Municipal Macleod, Municipal Mannville, Municipal Mannville, Municipal Mannville, Municipal Mannville, Municipal Mannville, Municipal Municipal Mundare, General Mundare, General Mundare, General Mundare, General Municipal Municipal Municipal Municipal Municipal Municipal

KARES AND	
Y Y S S S S S S S S S S S S S S S S S S	-
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486 23 242 2420 2420 2420 2420 2420 2420 24	111104
627 53 1008 819 1008 3231 860 220 1801 290 1623 299 1623 177 177 177 177 177 18 177 177 177 177	424643
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ported 10 12 14 15 16 16 16 16 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1338
Not 811 212 212 213 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2018
136 136 136 136 136 136 136 136 136 136	SE.
	193
Nordegg, General Olds, Municipal Oyen, Municipal Peace River, Municipal Pencker Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's Raymond, Municipal Raymond, Municipal Raymond, Municipal Raymond, Municipal Rimbey, St. Paul's Rocky Mount'n House, Municipal Spirit River, Holy Cross St. Paul, St. Theresa Stettler, Municipal Trochu, St. Mary's Turner Valley, Olifields Gen. Vegreville, General Vermillon, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Wayne, General Washwright, Municipal Wayne, General Westlock, Immaculata Wetaskiwin, Community	Total

Estimated for: Canmore, Claresholm, Coleman, Eckville, and Turner Valley.

TABLE No. 6-OPERATING EXPENDITURE

	CONCROSSOR NEWSCHOOMEDENGTEONETARNINGERAIN
Total Expenditure	\$ 32,717.00 164,297.29 41,779.52 28,009.20 17,682.63 17,882.69 37,829.77 661,796.52 28,466.57 555,942.33 64,669.39 36,359.53 87,891.76 23,139.40 42,013.77 11,063.60 11,063.60 11,063.60 42,440.72 20,480.66 462,440.72 33,5527.83 44,634.54 20,989.55 916,968.02 1,079.931.17 33,527.83 44,634.54
Miscel- laneous E	\$ 1,362.26 19,173.80 18.20 4,000.00 25.00 343.01 161.30 Not Reported 12,532.11 15,532.11 15,532.11 15,832.44 863.11 452.98 1882.44 863.11 452.98 11,882.44 863.11 452.98 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.44 11,882.45 11,882.43 11,882.
Interest and Exchange	\$ 125.31 8.56 268.23 7.48 3.360.00 2,576.41 63.282.86 3,951.84 2,908.77 467.42 467.42 4.156.07 4.581.00 18,717.50 28,30.35 24.68
Repairs and Replace- ments	\$ 2,428.67 246.28 665.06 665.06 665.06 6623.63 11,762.65 3,122.45 399.73 11,762.65 3,122.45 39.73 15,428.88 4,321.36 3,243.01 676.36 3,343.01 676.36 3,54.98 6907.99 6907.90 6907.90 6907.90 6907.90 6907.90 6907.90 6907.90 6907.90 6907.90 6907.90 6
Deprecia-	\$ 17,746.95 1,700.00 1,682.98 1,565.00 1,080.00 1,080.00 1,080.00 1,080.00 2,810.00 2,472.28 6,693.90 2,472.28 2,872.31 1,279.70 1,279.70 2,892.83 19,577.37 17,945.26 2,805.10 1,118.13
Insurance	\$ 1,303.89 1,363.89 1,363.89 131.14 224.89 131.14 224.36 162.75 228.60 225.47 3,569.25 3,75.42 3,75.42 111.34 113.50 24.17 264.17 1610.50 2,356.62 1,189.03
Purchased Services	\$ 3,584.5 1,152.05 1,045.88 1,045.88 1,045.88 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,024.28 1,145.32 1,145.32 1,146.36 821.47 1,472.69 1,405.80 1,40
Supplies	\$ 12,091.06 55,108.85 7,720.73 8,127.17 9,127.17 5,549.33 15,349.13 15,249.45 16,374.64 209,388.77 15,296.83 19,458.09 14,900.28 35,685.67 16,374.64 4,861.68 8,730.83 4,765.50 7,591.62 3,383.53 8,819.37 11,86.00 14,786.03 311,459.07 311,450.03 11,86.37
Salaries and Wages	\$ 15.819.32 82.622.91 11.600.00 12.920.41 8.077.35 4.712.15 8.077.35 4.712.15 8.077.35 13.304.84 252.99.00 14.860.92 13.701.24 38.469.59 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 13.711.37 6.922.61 17.078.30 17.078.30 17.078.30 17.078.30 17.078.30 17.078.30 17.078.30 17.078.30 18.078.30 18.078.30 18.078.30 18.078.30 18.078.30 18.078.30 18.078.30 19
Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Barsano, Municipal Beaverlodge, Municipal Bentley, Community Benyn, R. A. P. Bonnyville, K. H. P. Bonnyville, St. Louis Brooks, Municipal Cadgary, General Calgary, General Calgary, Junior Red Gross Calgary, Junior Red Gross Cannore, Canmore Hospital Camnore, Canmore Hospital Cardston, Municipal Cardston, Municipal Cardston, Municipal Cardston, Municipal Cardston, Municipal Cold Lake, John Neil Coloman, Miners' Union Coleman, Miners' Union Consort, Municipal Cornortion, Municipal Edmonton, Beulah Rescue Home Edmonton, General Edmonton, General Edmonton, General Edmonton, General Edmonton, General Edmonton, Royal Alexandra Edmonton, Royal Alexandra Edmonton, St. John's Elk Point, Municipal Empress, Cottage

22,534,39 25,596,77 15,747,62 25,922,96 25,922,96 26,612,89 26,315,70 26,315,70 46,677,11 22,586,32 37,418,27 34,582,95 97,418,27 174,331,74 174,331,74 174,331,74 174,331,74 174,331,74 174,331,74 174,331,74 18,795,25	19,084,22 13,327,95 13,327,95 13,410,58 20,460,46 49,483,53 37,665,46 16,665,46 16,665,46 13,680,00 32,188,36 25,477,15 13,588,10 22,600,37 74,840,10 13,588,10 22,600,37 74,840,10 13,588,10 22,600,37 74,840,10 13,588,10 22,600,37 74,840,10 13,588,10 22,680,10 13,588
15.00 45.00 7.524.98 933.90 88.14 919.05 117.03 126.41 922.98 1.667.25 321.57	217.80 17.80 17.80 17.80 1.523.97 20.00 40.00 401.60 401.60 119.79 245.91 245.91 245.91 245.91 245.91 245.91 245.91 245.91 245.91 245.91 245.91
2.77.50 2.75 11.09 686.50 2.270.87 773.33 15.75 3.740.00 1.126.84 57.26 101.16 105.96.42	324.49 31.91 342.09 528.00 270.00 2,820.94 409.95 1,922.13 1,480.05 449.54 1,120.96 861.76 12.55 640.00
1,154.76 1,183.47 1,183.47 1,183.47 1,200.30 1,200.30 1,530.04 1,628.91 1,530.04 1,628.91 1,205.03 1,205.03 1,205.03 1,205.03 1,205.03 1,855.47 1,855.47 1,855.47	84.61 469.42 3.750.01 614.04 305.94 1.104.16 7.618.20 1.246.57 1.77.19 393.64 7.76.11 7.76.11 991.64 4.884.52 5.745.85 3.643.20 7.613.45 3.643.20 7
1,350.00 150.00 348.00 4,999.72 1,578.40 3,629.95 1,946.70 2,100.00 129.16 3,693.71 880.00 880.00 1,857.24 1,857.24 1,857.24 1,25.29	820.82 1,380.62 5,279.53 1,193.53 2,433.07 4,420.38 4,655.09 2,192.89 2,192.89 1,388.78 2,166.40 1,885.46 1,385.46 1,300.00
116.34 17.82 17.82 17.82 335.32 371.10 378.00 243.80 173.63 570.00 292.69 175.00 10.95 1.0.95 1.0.95 1.0.95 1.0.95 1.0.95 1.0.95 1.0.95	28.00 124.97 1,505.75 1,505.75 1,505.75 16.40 127.05 16.40 120.80 249.30 249.30 249.30 249.30 249.30 249.30 249.30 249.30 227.27 658.24 52.05 1173.00 227.27 658.53 313.00
1,512.46 218.03 1,174.11 2,756.20 1,519.80 3,970.11 4,314.65 4,847.55 1,268.65 7,308.65 1,302.10 2,136.98 1,231.0 1,302.10 2,136.98 1,231.0 1,	8,567.65 1,070.63 8,567.65 1,075.88 3,742.05 1,072.50 2,072.88 1,243.13 1,243.13 1,267.17 1,055.21 1,094.03 2,238.82 1,456.49 4,776.47
8,620.04 1,828.77 16,7316.14 4,256.55 19,822.35 17,7319.19 21,245.02 12,935.08 5,063.09 8,024.61 12,835.08 5,063.09 8,024.61 12,866.15 42,776.45 79,371.66 79,371.66	6.569.09 8.567.87 79.972.56 6.883.80 18.428.41 11.159.15 9.560.17 8.952.90 11.876.73 6.410.67 6.756.12 5.605.89 5.006.10 11.007.79 11.304.88 26.43.28 26.43.
9,780,79 3,324,00 5,827,75 6,025,877,55 6,025,877,55 6,025,877,01 28,662,26 32,066,26 17,195,26 17,225,85 7,225,87 7,225	10,237.27 9,696.64 74,430.97 11,527.00 14,996.20 20,435.61 10,056.50 17,018.62 5,113.40 19,055.50 14,373.01 14,373.01 14,373.01 14,373.01 11,453.58 6,270.19 12,508.63 7,412.00 20,651.30 30,542.14 20,908.89 12,048.80
Fairview, Community Ft. McMurray, St. Gabriel's Fort Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Grimshaw, Battle River Handisty, St. Anne's High Prairie Providence High River, Municipal Innisfall, Municipal Jasper, Seton Killam, General Lacombe and District, Community Lac B Biche, St. Catherine's Lac la Biche, St. Catherine's Lethbridge, Isolation Lethbridge, Isolation Lethbridge, St. Michael's Lethbridge, St. Michael's Lethbridge, Galt Lloydminster, Municipal	Magrath, Municipal Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, Isolation Municipal Medicine Hat, Isolation Municipal McLennan, Sacred Heart Myrnam, Municipal Nordegg, General Olyen, Municipal Peace River, Municipal Provost, Municipal Provost, Municipal Radway, St. Joseph's Radway, St. Joseph's Radway, St. Joseph's Radway, St. Paul's Red Deer, Municipal Rimbey, St. Paul's Rocky Mountain House Smoky Lake, George McDougall Spirit River, Holy Cross Community St. Paul, St. Theresa Stettler, Municipal Trochu, St. Mary's Turner Valley, Ollfields General

TABLE No. 6-OPERATING EXPENDITURE-Continued

Total	66,756.07 40,690.84 25,699.34 16,399.12 25,614.40 35,458.96 21,758.96 55,643.31 60,210.08 27,219.51	\$7,762,342.26
Miscel- laneous	4,368.04 84.80 307.14 274.50 680.24 480.00 621.97 642.78 115.68	\$ 157,071.64
Interest and Exchange	422.56 1.037.06 461.33 192.50 147.67 6.574.52 18.17	\$ 211,965.53
Repairs and Replace- ments	1,614.89 2,785.98 472.53 1,299.35 1,213.52 1,146.01 2,770.86 518.98	\$ 384,868.08
Deprecia- tion	7.869.69 2.230.49 767.40 1.377.53 2.983.09 1.516.60 1.764.03 7.755.03 7.15.15	\$ 286,052.22
Insurance	1,455.89 468.55 235.55 118.81 191.10 294.67 558.69 132.97	\$ 62,423.50
Purchased Services	3,550,37 2,255,01 2,255,01 1,565,92 1,565,92 1,629,66 1,525,30 2,841,132 3,471,25 544,55	\$ 329,837.96
Supplies	25,400 14 13,853.51 9,996.39 4,553.30 6,772.57 14,363.30 6,216.67 21,04.80 23,362.33 11,371.94	\$3,454,288.48 \$2,685,296.68
Salaries and Wages	22, 497.05 11, 695.09 1, 695.09 7, 660.80 15, 772.66 10, 657.46 22, 692.51 22, 692.51 22, 192.51	\$3,454,288.48
Hospitals	Vegreville, General Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal Wayne, General Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Total

Not Reported-Total Expenditure Estimated for: Canmore, Coleman, Ft. McMurray, Mayerthorpe, Medicine Hat Isolation, Ponoka, Red Deer, and Turner Valley.

TABLE No. 7—OPERATING REVENUE

Total	\$ 29,462.17 164,466.98 48,447.10 24,533.89 22,715.80 21,105.60 14,982.00 14,982.00 14,982.00 14,982.00 16,669.39 10,260.14 10,260.14 10,260.14 10,688.23 10,688.23 10,688.23 10,688.23 11,732.64 11,732.64 11,8428.13 11,842
Other	\$ 190.05 3.897.87 7.860.00 3.897.87 3.23.75 3.376.00 1.370.62 9.904.98 43.365.06 6.258.05 7.190.00 20.00 20.00 20.00 22.00 20.00 25.00 42.902.33 11.812.88 453.21 937.25 808.28 1.960.72 664442 169.016.56 8.395.05 73.654.21
Out-Patient Earnings	\$ 41,686.05 8.00 1,018.15 12.25 584.70 3,259.00 1,442.75 2,242.45
Grants	\$ 16.596.27 6.882.30 11.473.82 11.473.82 11.473.82 11.384.20 6.4701.80 3.390.30 11.4481.95 11.147.80 11.4481.95 11.147.80 11.144.83 21.304.33 8.772.71 8.915.30 7.775.06 7.775
Net	\$ 12,435.85 34,922.75 9,154.20 11,760.67 10,283.25 9,637.10 27,175.07 38,801.15 37,175.07 38,801.15 11,82.25 492,036.01 21,591.03 71,760.30 14,607.52 18,687.43 3,568.80 17,77.10 6,338.24 10,467.18 10,467.18 10,467.18 11,399.34 5,777.10 6,338.24 10,467.18 10,467.18 10,467.18 10,467.18 10,668.50 11,135.00 242.71,32.00 252.71,32.00
Deductions	\$ 11.847.70 4.151.25 10.034.71 173.50 10.034.71 173.50 37.412.07 795.72 347.25 352.50 3,415.93 3,667.84 90.120.96 88.531.65 56.389.80 3,606.78 2,038.46
Gross	\$ 13,021.90 127,654.98 39,074.00 19,188.91 10,283.25 11,760.67 10,283.25 9,637.10 347,246.60 347,246.60 347,246.00 347,246.00 1,825.25 52,348.08 14,031.05 4,607.52 18,687.43 3,568.08 23,502.08 10,667.18 10,667.18 10,667.18 2,293.74 60,084.43 10,667.18 2,188.63 10,667.18
Special	\$ 30,962,62 80,962,62 80,962,62 80,962,63 1,424,66 1,424,66 1,391,45 11,391,45 11,391,45 11,391,45 11,391,45 11,391,45 11,391,45 11,391,45 11,391,45 11,391,45 11,391,45 11,391,45 11,410,33 11,410,
Day Rate Services	\$ 11,508.40 96,692.36 31,044.00 17,764.25 4,020.60 6,675.18 8,245.65 8,245.65 8,245.65 8,245.65 11,20.90 35,407.46 20,323.45 11,576.80 11,576.80 11,576.80 11,776.90 11,773.10 11,773.10 11,773.10 11,773.10 11,773.10 11,773.10 11,773.10 11,773.10 11,773.10 11,773.10 11,773.10 11,773.10 12,888.00 12,888.00 12,888.00 13,634.85 14,749.05 16,033.18 11,73.10 11,73.
Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Basano, Municipal Beaverlodge, Municipal Bentey, Municipal Berwyn, R. A. P. Bonnyville, K. H. P. Bonnyville, St. Louis the Scalgary, Municipal Calgary, Holy Cross Calgary, Holy Cross Calgary, Junior Red Rosary Cardston, Municipal Coleman, Miners' Union Concoration, Municipal Edmonton, General Edmonton, General Edmonton, Misericordia Edmonton, Municipal Edson, St. John's Edson, St. John's Elle Point, Municipal Edson, St. John's Elle Point, Municipal Edson, St. John's Elle Point, Municipal Edson, St. John's Eller Point, Municipal Edson, Municipal Edson, St. John's Eller Point, Municipal

TABLE No. 7-OPERATING REVENUE-Continued

Hospitals	Day Rate Services	Special	Gross	Deductions	Net	Grants	Out-Patient Earnings	Other	Total
McMurray, St. Gabriel's				244444444					23,918.01
Fort Vermilion, St. Theresa	2,875.60	546.75	3,422.35	125.00	3,297.35	600.45		2,180.00	6,077.80
Grande Prairie, Municipal		7,694.35	30,007.45		30,007.45	29,277.55	2,079.10	5.366.59	66,730.69
imshaw, Battle River		483.15	4,545.05	582.85	3,962.20	8,488.92	148.65	15,716.44	28,316.21
nna, Municipal	15,856.45	6,726.22	10 050 90	100 00	22,582.67	29,542.63		2,025.45	54,150.75
h Prairie, Providence		408	54.936.18	23	31.481.58	6.567.75	2.072.35	15.092.16	55.213.34
th River, Municipal	26,741.88	2,609.80	29,351.68		28.360.18	33,960.77		4.268.98	66,589.93
visfail, Municipal		745.60	15,031.75		15,031.75	21,254.25		339.04	36,625.04
ty, Municipal		500	3,184.90	000000	3,184.00	14,021.80	125.75	281.14	17,612.69
Jam Canaral		024	11,970.37		34 063 97	3,470.80	Contraction	3,810.66	17,989.46
combe and District, Community	33.034.41	7.973.00	41.007.41		41.007.41	5.481.90	420.00		46.917.67
Lac la Biche, St. Catherine's		080	18.199.25	-	17.088.40	4.969.25		12,400.00	34.669.65
Lamont, Public		23,653.52	80,501.92	5,051.66	75,450.26	9,680.50		11,262.07	
hbridge, Isolation	-		342.45		342.45	80.55	***************************************		423.00
Lethbridge, St. Michael's General	-	58,669.32	163,769.97	6,937.33	156,832.64	15,391.35		2,298.00	174,521.99
abridge, Galt		000	145,266.45	6,561.33	138,705.12	33,489.30		2,519.48	174,713.90
Macland Minicipal	19 491 90	9,889.00	19 421 98	1 500 00	90,1580,10	0,304.30	2,236.50	1,018.90	90,306.29
Magrath, Municipal		1 922 85	6.608.45	200.00	6.408.45	13,363,25	929 91	321 43	20,326.04
anville, Municipal		764.00	9,581.25	121.44	9,459.81	10,709.22		676.04	20,845.07
yerthorpe, Municipal			The section of the se	- Annahaman	- AND ADDRESS OF THE PARTY OF T	- Accessory		COLUMN TO THE PARTY OF THE PART	13,010.66
licine Hat, General	100,630.16	39,224.90	139,855.06	7,445.79	132,409.27	27,049.90	- Control of the Cont	3,831.51	163,290.68
ndere General		478	16 238 28	1 219 05	15 019 93	5 801 95		9 998 15	22,007.
ennan. Sacred Heart	27.391.56	11.066.39	38,457.95	11.061.40	27,396.55	4.918.10	39.44	15,403.09	47.757.
mam, Municipal		718	11,412.45	- Table Control	11,412.45	18,092.06	and the same of th	29.33	29,533.
s, General	8,292.26	6,020.88	14,313.14	338.24	13,974.90	24,702.40	***************************************		38,677.30
degg, General						The second second	The same of the sa	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	25,715.03
en, Municipal		418	1.719.25		1,719.25	10,455.11	The second second	The state of the s	12,174.36
ce River, Municipal	17,871.00	9.287.94	27,158.94	-	27,158.94	19,603.80	400.00	1,261.65	48,424.39
cher Creek, St. Vincent's		614	20,849.11	6,850.90	12,388.21	6,181.35		17.320.00	43,505.56
vost. Municipal	9.684.95	729	12,414,60		12.414.60	18 911 35	789.10		32,115.05
lway, St. Joseph's	-	3,587.89	14,715.89	859.50	13,856.39	2,292.75	1,223.63	437.37	. 17,810.14
Raymond, Municipal	4,844.45	020	7,895.40	100.00	7,795.40	16,722.65	528.30	77.50	25,123.85
Rimbey, St. Paul's	18.190.73		18,190.73	37	18.153.13	2.020.95		149.95	20.324.03
Dooks Mountain House Municipal	5 778 75	1.024.25	6.803.00	125.00	6.678.00	8.671.10	971 50	505 00	18 195 60

27.841.88 22.958.80 46.468.83 53.434.70 48.751.64 25.156.67 22.205.00 69.965.51 40.061.02 14.385.56 30.158.25 37.788.47 27.219.51	\$7,608,291.01
4,453.00 395.49 2,713.10 6,000.00 169.09 718.89 5,728.39 3,48.90 10.00 10.794.44 178.80 12,147.89	\$ 596,992.73
714.14 1,120.00 262.78 725.41 1,397.85 552.25 205.05	67,425.31
5.011.44 1.930.50 30.693.38 28.665.30 19.507.57 2.569.50 35.688.55 19.872.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 16.887.95 17.835.20	\$1,718,338.38
22.830.44 16,575.30 15,775.45 23,659.77 29,244.07 19,874.07 27,156.96 20,091.40 6,913.51 8,119.75 17,428.62 21,613.49 47,421.43 50,983.21 7,236.42	\$5,021,871.38
806.00 1,500.00 1,750.00 409.54 5,012.10 3,539.42 800.00 3,539.42	\$ 453,959.63
22.830.44 17.381.30 17.275.45 25.409.77 20.283.61 32.169.06 20.374.82 9.091.40 7.399.21 8.119.75 17.428.62 22.113.49 52.760.85 51.760.85	\$5,475,831.01
18 025 94 3,780.60 4,501.50 2,452.02 7,200.17 4,588.46 8,909.36 3,876.97 4,722.25 4,770.87 13,807.10 6,976.72	\$1,558,268.74
4,804.50 13,600.70 12,773.95 22,957.75 22,957.75 23,259.70 15,695.15 16,497.85 8,615.78 8,615.78 5,412.80 7,397.50 12,887.75 16,882.25 38,953.75 31,789.35	\$3,917,562.27
Smoky Lake, George McDougall Spirit River, Holy Cross Community St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Trochu, St. Mary's Truner Valley, Oliffelds General Vegreville, General Vermilion, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Wayne, General Wayne, General Westlock, Immaculata Wetaskiwin, Community	Total

Not Reporting-Estimated for: Canmore, Coleman, Ft. McMurray, Mayerthorpe, Medicine Hat Isolation, Nordegg, Ponoka, Red Deer, and Turner Valley.

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Per Phile Per		Operating		Percent	Percentage of Cost		
\$ 4.17	Hospitals	Per Patient Per Day Exclusive of Capital and Reserve	Salaries and Wages	Supplies	Purchased	Balance*	Revenue per Patient per Day
\$ 4.17 \$ 5.43 \$ 35.9 \$ 5.4 \$ 4.5 \$ 4							
4.83 46.1 31.5 2.2 2.8 5.0.0 4.84 4.85 46.1 31.5 5.9 3.3 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0			48.3	36.9	4.0	9.4	
4.83 46.15 32.5 12.0 9.3 4.4 4.85 4.85 4.85 4.85 4.8 4.8 4.8 4.86 4.86 4.86 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	neral Springs	5.66	50.3	22.0	200	14.0	5.00
5.23 45.7 31.5 5.9 16.9 4.85 45.2 44.9 5.9 16.9 4.86 42.7 42.8 43.8 1.8 1.8 4.86 42.7 42.8 42.8 26.5 1.8 4.86 42.7 42.8 33.9 2.7 31.8 4.86 42.7 42.8 33.9 2.7 31.8 10.27 48.6 40.9 4.7 10.8 4.86 46.7 20.1 2.7 26.9 4.87 40.9 40.9 4.1 14.7 4.96 44.1 34.7 38.1 40.6 4.1 4.96 44.1 34.7 8.2 6.3 15.9 4.96 44.1 34.7 8.2 6.3 15.9 4.96 44.1 34.7 8.2 6.3 15.9 4.96 44.1 34.7 8.2 6.3 15.9 4.17 55.0 36.4 40.9 15.9 15.9 4.17 56.6 50.0 56.0 15.9 47.7 4.17 50.7 37.9 47.7 20.1 4.17 40.9 38.9 40.9	St. Joseph's	500	51.5	20.0	0.2	00.00	4 49
4.59 4.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	Bassano, Municipal	4.83	40.1	0.25.0	12.0	16.0	6.69
4.82 4.82 4.83 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	Beaverlodge, Municipal	12.0	90.0	0.10	2.0	26.5	5.41
4.86 4.86 4.27 4.28 34.8 11.8 11.8 11.8 11.8 11.8 11.8 11.8 1	Bentley, Municipal	4.00	45.54	28.3	100	9.1	4.81
4.27 42.8 35.9 2.7 28.6 4.27 42.8 35.9 2.7 28.6 4.27 42.8 35.9 2.7 28.6 4.27 42.8 35.9 2.7 28.6 4.27 42.8 35.9 2.1 28.6 4.7 17.6 4.4 4.1 36.1 30.0 1.6 1.6 19.9 4.7 17.6 35.7 32.4 4.1 34.7 36.4 4.1 36.1 37.6 4.24 4.1 37.7 37.6 4.24 4.1 37.7 37.6 4.24 4.1 37.7 37.6 4.24 4.1 37.7 37.6 4.24 4.1 37.7 37.6 4.24 4.1 37.7 37.6 6.2 3.1 32.2 32.4 4.1 32.2 32.2 32.4 4.1 32.2 32.2 32.4 4.1 32.2 32.3 32.4 4.1 32.2 32.3 32.4 4.1 4.6 5.3 32.3 32.1 32.2 32.3 32.1 32.2 32.3 32.1 32.2 32.1 32.1	Berwyn, Ratepayers Association of Peace	20-1-	49.6	34.8	000	13.8	4.75
5.02 Not Reported 4.86 46.1 20.1 6.3 Not Reported 4.86 46.1 20.1 6.3 26.0 17.6 6.3 11.0 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.0 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.6	Bonnyville, Katherine H. Prittie	4.00	49.8	35.9	2.7	28.6	4.18
Not Reported 4.86 46.1 31.6 4.7 Not Reported 4.5.7 36.1 20.1 6.3 26.0 26.0 25.2 26.0 26.0 25.2 26.0 26.0 25.2 26.0 25.0 26.0 25.0 25.0 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	Bonnyville, St. Louis	502	39.2	41.2	2.8	16.8	5.60
4.86 46.1 31.6 4.7 17.6 17.6 10.27 46.7 36.1 20.1 6.3 26.9 26.9 20.1 6.3 26.9 26.9 20.1 6.3 20.1 6.3 26.9 20.1 6.3 20.1 5.6 3.1 20.0 1.6 19.9 1.6 1.6 19.9 1.6 1.6 19.9 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	Brooks, Municipal					Not Reported	
10.27 46.7 20.1 6.3 26.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25	Cadomin, Ceretai			31.6		17.6	3.54
5.23 45.4 36.1 2.5 2.6 26.0 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	Calgary, General	10.27	46.7	20.1	6.3	26.9	8.40
261 3.19 61.3 30.0 5.6 3.1 1.6 19.9 4.1 14.7 4.1 14.1 1	Calgary, Isolation	1000	45.4	36.1			5.20
2.61 37.6 40.9 1.6 19.9 4.39	Calgary, Holy Cross	2.19	613	30.0			3.19
4.39 4.06 4.06 4.06 4.06 4.11 4.11 4.19 4.11 4.11 4.11 4.11 4.11	-	01.0	37.6	40.9	1.6	19.9	2.59
8.04	Calgary, Salvation Army Grace	10.7	40.6	40.6	4.1	14.7	4.03
4.96 44.1 34.7 5.3 15.9 5.46 55.11 34.7 5.3 15.9 5.46 55.11 34.7 8.2 6.0 6.0 1.6 6.0 1.6 5.5 5.0 1.6 5.0 1.6 5.0 1.6 5.5 5.0 1.6 5.0 1.6 5.5 5.0 1.6 5.5 5.0 1.6 5.0 1	Camrose, St. Mary s	8 04		T.	Not Rer		3.56
5.46 51.1 34.7 8.2 6.0 4.54 49.0 31.1 4.0 15.9 4.54 6.67 53.0 36.4 9.0 1.6 3.81 54.0 18.0 2.1 15.9 4.72 56.6 30.5 2.1 10.2 5.71 Not Reported 1.179 14.2 37.9 6.4 4.7 5.07 33.7 39.2 27.3 13.8 5.31 33.9 42.6 2.3 13.2 5.31 42.9 37.3 3.5 5.31 42.9 37.3 3.6 5.32 4.14 46.6 33.6 4.9 5.40 49.7 33.9 4.9 5.40 49.7 33.9 5.40 49.7 33.9 5.40 49.7 33.9	Cannote Campion	4.96			5.3		4.81
4.54 49.0 31.1 4.0 15.9 1.6 5.3 5.4 49.0 31.1 4.0 15.9 1.6 5.3 5.4 5.6 5.0 18.0 2.7 10.2 25.8 11.79 14.2 56.6 16.0 15.0 6.4 4.7 5.0 17.9 14.2 24.3 5.0 17.9 14.2 24.3 5.0 17.9 14.5 5.3 35.0 49.7 35.3 5.0 45.6 5.3 38.9 32.4 45.6 5.3 38.9 37.9 6.2 24.0 5.13 5.1 38.9 37.9 6.2 24.0 5.1 38.9 37.9 6.2 24.0 5.1 38.9 37.3 5.0 45.6 5.1 38.9 37.3 5.0 5.1 3.0 4.0 10.4 47.8 32.1 4.9 10.4 47.8 32.1 4.9 10.4 47.8 32.1 4.9 10.4 4.9 5.5 5.0 4.9 10.4 4.9 5.5 5.1 32.1 5.5 5.1 32.1 5.5 5.1 32.1 5.5 5.	Carmanday 1 ittle Rour Municipal	5.46	51.1	34.7	8.2	6.0	5.10
6.67 53.0 36.4 9.0 1.6 3.81 54.0 18.0 2.1 10.2 25.8 3.5.1 11.79 14.2 16.0 1.5 68.3 11.79 14.2 5.07 35.7 35.2 24.3 25.5 15.0 38.9 32.4 4.6 5.3 38.9 37.3 35.0 49.7 35.0 38.6 5.13 40.5 5.13 40.5 5.13 40.5 5.13 40.5 5.13 40.5 5.13 40.5 5.13 32.0 4.6 15.5 5.10 4.6 15.5 5.10 4.6 15.5	Caston Our Lady of the Rosary	4.54	49.0	31.1	4.0	15.9	4.60
3.81 54.0 18.0 2.1 25.8 4.72 56.6 30.5 2.7 10.2 11.79 14.2 16.0 2.7 10.2 11.79 14.2 16.0 2.7 10.2 4.35 5.10 37.9 6.4 4.7 5.07 35.7 39.2 4.7 4.7 5.07 37.9 6.4 4.7 5.07 37.9 4.7 20.4 4.89 32.4 4.6 22.3 10.8 5.31 34.5 35.3 6.2 24.0 5.31 42.9 37.3 4.6 2.4 5.13 42.9 37.3 3.6 2.3 11.6 5.42 49.5 33.9 2.5 14.1 5.42 49.5 33.9 4.9 10.4 4.14 46.6 38.6 4.9 10.4 5.42 49.7 32.0 4.9 10.4 5.55 4.9 10.4 15.5	Ceresi Municipal	19.9	53.0	36.4	0.6	1.6	5.52
5.71 Not Reported 10.2 1.79 14.2 16.0 1.5 4.75 51.0 1.79 14.2 37.9 1.76 37.6 24.3 1.76 37.6 24.3 1.76 37.6 24.3 1.89 49.7 35.3 1.9 42.9 1.16 38.6 1.16 42.9 1.16 38.6 1.16 42.9 1.16 38.6 1.16 42.9 1.16 42.9 1.17 47.8 1.17 47.8 1.18 47.8 1.19 14.1 1.10 47.8 1.10 47.8 1.10 47.8 1.10 47.8 1.10 47.8 1.10 4.10 4.10 4.10 115.5	Claresholm, Municipal	3.81	54.0	18.0	25.1	25.8	4.01
5.71 Not Reported 1.179 14.2 15.0 I.5 68.3 1.16 4.7 35.7 35.2 27.3 20.4 1.76 33.7 35.7 24.3 27.3 25.5 1.76 33.9 32.4 3.2 25.5 1.8 4.8 32.1 32.2 1.9 14.1 46.6 33.9 4.9 114.1 4.14 46.6 33.9 4.9 10.4 4.14 46.6 33.9 4.9 10.4	Cold Lake, John Neil	4.72		30.5		10.2	4.35
11.79 14.2 14.0 6.4 4.7 20.4 24.3 5.0 35.2 25.5 24.3 25.3 25.3 25.3 25.3 25.3 25.3 25.3 25	Coleman, Miners' Union	5.71		eported		ported	10.01
5.07 35.7 39.2 4.7 20.4 1.76 37.6 24.3 27.3 10.8 4.89 49.7 31.9 4.6 13.8 4.89 49.7 31.9 4.6 25.5 5.31 38.9 37.3 6.2 24.0 5.13 42.9 37.3 6.2 24.0 5.13 42.9 37.3 3.2 11.6 5.42 49.5 33.9 2.5 14.1 4.14 47.8 32.1 4.9 10.4 4.11 47.8 32.1 4.9 10.4	Consort, Municipal	11.79	14.2	16.0	0.1	00.0	60.07
1.76 37.4 24.3 27.3 10.8 4.6 6.53 38.9 37.4 35.3 6.2 24.0 38.9 37.3 37.3 37.3 37.4 37.3 37.4 37.3 37.4 37.3 37.4 42.9 37.3 37.9 4.9 10.4 47.8 32.1 4.1 47.8 32.1 6.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	Coronation, Municipal	4.35	0.10	0000	500	20.4	31.5
6.53 6.53 6.53 6.53 6.53 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	Daysland, Providence	10.0	200.1	0.00	97.5	10.5	68
4.89 4.89 4.89 4.89 4.89 4.15 5.31 3.60 3.60 3.60 4.14 4.14 4.14 4.14 4.14 4.15 5.42 4.14 4.16		1.10	28.0	39.4	200	25.55	6.21
5.31 34.5 35.3 6.2 24.0 3.60 38.9 45.6 2.3 13.2 5.13 42.9 37.3 3.2 11.6 4.14 46.6 38.6 3.6 16.2 5.42 49.5 33.9 2.5 14.1 4.11 47.8 32.1 4.9 10.4	Didsbury, Municipal	4 89	49.7	31.9	4.6	13.8	4.90
Second S	Drumbeller, Municipal	1000	34.5	200	6.2	24.0	5.51
Behalf According	ECKVIIIe, MUNICIPAL	3.60	38.9	45.6		13.2	3.76
Misericordia 3.6 16.2 Royal Alexandra 2.5 14.1 Royal Alexandra 2.5 14.1 Royal Alexandra 2.5 14.1 The state of Alberta 4.6 15.5 The state and		5.13	42.9	37.3	3.5	11.6	4.40
Royal Alexandra 2.5 14.1		4.14	46.6	38.6	3.6	16.2	5.29
5.60 49.7 35.0 4.9 10.4 10.4 11 47.8 32.1 4.6 15.5	Royal Alexandra	5.42	49.5	33.9	2.5	14.1	5.25
4.11 47.8 32.1 4.6 15.5		2.60	49.7	35.0	4.9	10.4	6.13
DE COMM S		4.11	47.8	32.1	4.6	15.5	3.46

2.86 3.95 4.29 6.09	3.56	4.70	4.93	2.91	4.42	4.72	4.44	5.72	4.27	4.61	2.36	4.80	20.01	6.11	7.28	3.85	15.14	5.16	4.51	6.83	4 99	4.99	6.20	5.57	4.48	6.00	3.31	4.53	5.11	8.05	20.50	3.33	5.37	20.5
13.5	3.7 Not Reported 7.4 12.8	5.8			-												-	320	7.5 51.0	.6	21.	100	10.	Reported	12.	34.8	Reported	20.	11.	24.	120	0	1.0 18.2	-02
	.,,,					-					-									_				N			2							
43.3 52.9 38.2 Reported	d 31.	33.2	35.6	34.6	32.9	0.35 0.30	2000	36.9	50.00	43.8	19.7	35.6	40.0	40.0	34.4	40.1		450		30	500	38	2000	Reported	36.		Ranortad	nepot ted	37.	29.	23.0	40.	24.7	.12
	Not Reporte 57.5	46.9	40.9	46.0	49.7	47.8	31.9	29.7	25.4	45.9	66.5	46.1	43.7	200.2	23.6	45.4	10.000	42.6	21.5	56.8	33.50	49.1	49.6	Not	44.6	26.3	Not	50.1	46.3	41.1	47.9	47.1	46.1	0.00
3.81 3.80 6.52	4.13	3.88	5.42	10.00	4.28	3.66	5.57	5.74	3.77	4.65	14.72	5.44	4.66	3,56	9000	3.91	15.68	0.99	4.68	8.31	9.64	0.00	3.63	5.64	4.49	4.62	2 02	5.06	4.29	8.78	0.00	4.04	5.00	4.04
Elk Point, Municipal Empress, Cottage Fairview, Community Ft. McMurray, St. Gabriel's	Ft. Smith, General Fort Vermilion, St. Theresa	Grande Prairie, Municipal	Grimshaw, Battle River Hanna, Municipal	Hardisty, St. Anne's	High Francie, Frovuence High River Municipal	Innisfail, Municipal	Islay, Municipal	Killam, General	Lacombe and District, Community	Lact a birthe, St. Camerine 8	ation	Lethbridge, St. Michael's	Lethbridge, Galt	lpal .	Macleod, Municipal	Mannville, Municipal	Mayerthorpe, Municipal	Medicine Hat, General	Mundare, General	Myram Municipal		Olds, General	Peace River, Multiplating	Function Municipal		Radway, St. Joseph's	Raymond, Municipal	Red Deer, Municipal	Rulloy, St. Faus Rocky Mountain House Municipal	Smoky Lake, George McDougall	Spirit River, Holy Cross Community	St. Paul, St. Theresa	Taber, Municipal	Trochu, St. Mary's

TABLE No. 8—Continued

	Operating		Percenta	Percentage of Cost		
Hospitals	Per Patient Per Day Exclusive of Capital and Reserve	Salaries and Wages	Supplies	Purchased Services	Balance*	Revenue per Patient per Day
Turner Valley, Oilfields General Vegreville, General Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Valcan, Municipal Wayne, General Wayne, General Westlock, Immaculata Westlock, Immaculata Westlock, Community	4.09 6.09 6.09 6.09 6.09 6.09 6.09 6.09 6	Not Re 455.4 455.4 455.4 455.5 455.6 450.1 450.1 450.1	ported 38.0 34.0 34.0 38.8 27.7 28.5 37.9 38.8 41.7	Not Rep 231 231 251 251 251	26.2 14.9 7.1 26.5 26.5 21.3 10.6 15.4 9.3	4888484448484 58884844488 5888888888888
Total	\$ 4.80	44.4	34.5	4.2	16.9	\$ 4.70

Not Reported-Estimated for: Canmore, Coleman, Ft. McMurray, Mayerthorpe, Medicine Hat Isolation, Ponoka, Red Deer, and Turner Valley. **Balance includes Insurance, Depreciation, Repairs and Replacements, Interest and Exchange, and Miscellaneous.

Division of Social Hygiene

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

I have the honor to submit the twenty-seventh annual report of the Division of Social Hygiene for the year ending December 31st, 1946.

The routine work of the Division was continued at the same high pitch that was attained during the war years. A piece of pioneer work was undertaken in connection with syphilis amongst Indians and Breeds. For some time we had felt that there were foci of infection in the hinterland beyond the Lesser Slave Lake and this opinion was supported by the experience of our nursing staff in the north, so we began to do a serological survey. It was necessarily slow as our nurses had to travel sometimes by pack horse and occasionally by airplane to remote areas. However some thousands were examined and a total of one hundred and fifty odd syphilitic patients brought to light. Some of these were Indians and some were Breeds. There were a few Whites as well but the Indians constituted about fifty percent of the group, the Whites and Breeds constituting the other fifty percent.

The treatment project was started in co-operation with the Department of Indian Affairs. Subsequently the medical services for the Indian Affairs were taken over by Department of National Health and the final project was in co-operation with the Department of National Health. Both Dr. Layton and Dr. Moore took an active interest in the project.

The Camp was established on the West shore of the Lesser Slave Lake, on the outskirts of the town of Grouard. The camp site was a beautiful one and consisted of some fifty odd tents of one sort or another, mostly bell tents, which were requisitioned by the Department of Indian Affairs from the Department of Militia and Defence. The site was chosen for the following reasons:

- 1. It is the centre of Indian activities in the north and the site of an important Roman Catholic Mission to Indians.
- 2. There are no licensed premises within twenty miles of the camp.
- 3. A water supply was available but water of course had to be carted in horse drawn tanks.
- 4. The camp was definitely off the main highway and a degree of privacy was made possible.

Dr. Rentiers remained in medical charge throughout the entire project and was assisted by a staff of ten nurses. Mrs. Tainton looked after the business end and remained to the end of the project. The camp was operated September 1st to 30th.

It is characteristic of the Indian that he will not move without his family and the total number of persons provided for was in excess of three hundred, although only one hundred and fifty-eight of them were actually under treatment. However, all their other ills had to be looked after too, so a general medical clinic was held every day for the purpose of looking after minor ailments. The Indian will not do any work if he thinks the Government ought to do it for him and these Indians, having been told that the Government was giving them this treatment, were disinclined to cut wood or in other ways fend for themselves during the period of the project. With a different approach this could be obviated.

The food was all provided and rationed out to each family twice daily. Each family did its own cooking. The unattached individuals looked after themselves by grouping together.

The co-operation insofar as treatment was concerned was excellent. The patients even submitted to the spinal puncture without any question. They were brought together, the males in one group and females in another, and given a couple of lectures at the beginning of the project. These talks were satisfactorily interpreted in Cree for the benefit of those who did not understand English. In addition to explaining the treatment a good deal of educational material was introduced.

The treatment consisted of 2,400,000 units of penicillin given at the rate of 30,000 units every three hours during the day. The night dose, given at 8:00 p.m. consisted of 120,000 units in solve-cillin. This carried the patient over until 8:00 the following morning. In addition each patient was given ten intravenous injections of an arsenical and at least one or two intramuscular injections of bismuth. Our object was to give five intramuscular injections of bismuth but in some instances this was found undesirable owing to the great number of intramuscular injections of penicillin. However in every instance enough bismuth was given for its synergistic effect.

It is interesting to note that of the one hundred odd cerebrospinal fluid examinations there were only three Grade 4 spinal fluids and two Grade 3's. All the others were negative. We are planning to provide malaria pyrexia therapy for all five.

We feel that this project has demonstrated how important a factor such bringing together of these persons can be from the educational point of view. The camp had not been in operation many days before others who had been missed in the original survey began to come in voluntarily for a blood test and in this way the number of patients was added to and the project had to be continued for an additional two weeks to take care of these. In some instances small babies, some born since the original survey and some in whom the nurses could not do a vena puncture, were examined during the project and in few instances had to be treated.

We feel further that the people of this territory have been impressed by our desire to give them the best treatment and care possible and further work in the future should be made very much easier in this vast area. One of our Public Health nurses is stationed at Lesser Slave Lake and a certain amout of follow-up work will be possible and any Indians and Breeds who have been missed can report to her for a serological test.

We were impressed with the observations that since the establishment of the treatment camp at Grouard the profound ignorance of the subject has largely disappeared amongst the Indians and this has lead to many persons who were missed on the primary surveys coming in voluntarily to the Public Health Nurse in the District for serological examinations. I regret to have to report the loss, through death, of Mrs. Hilda W. Tainton. She had served the Department well for over twenty years and had developed an epidemiological technique which was in some ways unique and which had attracted international attention through its efficiency.

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

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

	-	der yr.	1- yr	-	5-1 yr:	-	15- yr		20 y & o		Age	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)							40	55	517	141			753
Syphilis (congenital)	1	1									1000		2
Acquired-Primary				4000			3	1	19	8			31
Acquired-Secondary								2	3	3			8
Acquired-Latent							2	2	10	6		1000	20
Acquired—Tertiary													
(Cardiovascular)										****			4010
Acquired—Tertiary													
(Neurosyphilis)				wite		****							Acres
Acquired-Tertiary (other)		****				++++					****	9999	
Type Undetermined		4000				1919		40.00		****	****		4
	-	-	-		-	-	-	-	-		-	-	
Totals	1	1					45	60	549	158	1000		814
	-	_	-		-	-	-	-	-	-	-	-	-
													01
Number of cases of syphili-	s—N	lale	38, 1	em:	ale 2	5							61
Number of cases of gonorrh	noea	-Ma	ale 5	57, 1	Fema	le 19	96						753

Number and results of Kahn and Wassermann tests: 4,700 of which 601 were positive. Number and results of Cerebrospinal Fluid tests: 139 of which 16 were positive. Number of results of Bacteriological tests for gonococci: 8,232 of which 883 were positive. Number and results of Cultures: 5,466 of which 465 were positive.

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

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

	Un 1	der yr.	1- yr:	_	5-1 yr		15- yr		20 y & o		Age	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)				1		3	15	32	359	136	****	****	546
Syphilis (congenital)			1000	****			****	2000	1		4000	****	94
Acquired-Primary			****					2	22	9	1	1000	34
Acquired-Secondary		****		****				1000	6	9	****		11
Acquired-Latent		4100	4000					1	21	11			33
Acquired—Tertiary													
(Cardiovascular)		****					****			****	****		4000
Acquired—Tertiary													
(Neurosyphilis)		****		0.000				100	2000		4101	400	
Acquired-Tertiary (other)						1000	1000				****	11.0	****
Type Undetermined		1000					10.00	9111					
The state of the s	-	_	-	-	-	-	-	-	-		-	-	004
Totals				1		3	15	35	404	165	1	9444	624
	-	-	-	-	_	-	-	-	-	-	-		-
													. 78
Number of cases of syphilis	-M	ale 4	16, F	emal	e 32	*****	ountro.						
Number of cases of gonorri	hoes	-Ma	de 3	74. F	rema	le 17	72						. 546

Number and results of Kahn and Wassermann tests: 3,521 of which 849 were positive. Number and results of Cerebrospinal Fluid tests: 47 of which 6 were positive. Number and results of Bacteriological tests for gonococci: 4,286 of which 523 were positive.

HIGH PRAIRIE CLINIC-High Prairie, Alberta

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

	-	der yr.	1- yr	-	5- yr		15- yr	27.	20 y			not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)					4,010		2	7	64	8			81
Syphilis (congenital)				440	1111		*****	1000	****	1111	2111	100	****
Acquired-Primary	1000			1010			4400	3	5		2111	-	8
Acquired-Secondary							****	1		1			2
Acquired—Latent Acquired—Tertiary			****	,	****	****	4010		2	****		1010	2
(Cardiovascular) Acquired—Tertiary	1411	****	****	1019	****		****	****				****	
(Neurosyphilis)		300	10.00		****				11.11	1000	2000	****	101
Acquired—Tertiary (other)			4411	10.00	,,,,,,	****	****	****	400				1111
Type Undetermined				2010	1011					1111		****	
	-	-	-	-	-	-	-			-	-	-	
Totals		40.00		****			2	11	71	9	7111		93
	-	-	-	-	-	-	-	-	-	2	-	-	-
Number of cases of syphili	s: M	lale	7. Fe	emal	e 5								. 12
Number of cases of gonorri						15							. 81

Number and results of Kahn and Wassermann tests: 620 of which 25 were positive. Number and results of Cerebrospinal Fluid tests: 25 of which none were positive. Number and results of Bacteriological tests for gonococci: 140 of which 50 were positive.

McLENNAN CLINIC-McLennan, Alberta

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

	-	der yr.	1- yr		5- yr		15- yr	-	20 y			not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)			*****	****			****		18	3			21
Syphilis (congenital)			****			****	****		****	1111	****	1011	
Acquired—Primary	****	****		2000			****			2			2
Acquired—Secondary	****	****		****	****		2000		1	1			2
Acquired—Latent Acquired—Tertiary				***	****	****				****	****		****
(Cardiovascular)		****	****	****	****	****	****	****	****	****		****	****
(Neurosyphilis)	****	****	****		10114		****			****	11111		
Type Undetermined	*****		1110.	1010	****	****	****		****	1111	****		****
Type Undetermined	****		****		****	****	****	1000	1111	****	****	9111	10,00
Totals								-	19	6		-	25
	-	-	-	-	_	-	-	-	-	-		-	-
Number of cases of syphilis Number of cases of gonorr	: Ma	ale 1	, Fe	male 8. F	3	e 3							0.1
Number and results of Kal													

Number and results of Kahn and Wassermann tests: 142 of which 8 were positive. Number and results of Cerebrospinal Fluid tests: 2 of which 0 were positive. Number and results of Bacteriological tests for gonococci: 50 of which 30 were positive.

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 nations

	-	der yr.	1-	-	5- yr	270	15- yr		20 y & ov			not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms) Syphilis (congenital)	2		2	****		1		8	3	9			20 4
Acquired—Primary						-			6	1	****		7
Acquired—Secondary	****	1011		****				1		2	2000		3
Acquired—Latent Acquired—Tertiary	*****		*****	****			****	0.00		****	****	****	
(Neurosyphilis) Acquired—Tertiary	****		****	8144	***	****			1			****	1
(Cardiovascular)		1000				100	****	1000		4000		-	400
Acquired—Tertiary (other)	1000		****	****	****		****	1	1	1			3
ype Undetermined	****	****	****	****	****	****	-			*****	*****	****	
Totals	2					1	****	11	11	13	_	-	38
	-	-	-	-	-	-	-	-	-	_	-	_	_
Number of cases of syphilis	: M	ale 1	0, F	emal	e 8								. 18
Number of cases of gonorrh	oea:	Mal	0 3 1	Fem	ole 1	7							- 00
Number and results of Kal	n s	nd I	Vaces		n +0		700					******	20
Number and results of Kal Number and results of Cere	hua.		v disse	sima	n te	sts:	192	or v	vnich	64	were	po	sitive.

PROVINCIAL GAOL-Fort Saskatchewan, Alberta

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

	-	der yr.	1- yr	_	5-1 yr		15- yr		20 y			not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)			. 1070	****	4000	cone:	****	8	3	16			27
Syphilis (congenital)											- inter-	1000	Geo.
Acquired-Primary								1	****		****		1
Acquired-Secondary				****	****				2		****	1910	1
Acquired-Latent		4744										4	4
Acquired—Tertiary													
(Cardiovascular)							****				bette	-	
Acquired—Tertiary													
(Neurosyphilis)									4111		****		400
Acquired—Tertiary (other)													
Type Undetermined													
Type officerimined	_	_		-	-	-	_		_		-	-	
Totals				1010				9	. 5	16		4	34
Totals	-						-	_	_		_	_	_
Number of cases of syphilis:	Ma	le 2,	Fem	ale :	5								. 7
Number of cases of gonorr													97

Number and results of Kahn and Wassermann tests: 1,034 of which 79 were positive. Number and results of Cerebrospinal Fluid tests: 5 of which 0 were positive. Number and results of Bacteriological tests for gonococci: 2,498 of which 92 were positive.

PROVINCIAL GAOL-Lethbridge, Alberta

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

		der yr.	1- yr:		5-1 yr		15- yr		20 y		Age	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)					****				2		1111	2010	2
Syphilis (congenital)	2		1000					****			2010	1000	
Acquired—Primary				****	1111		20.00		*****	****		4144	
Acquired—Secondary		****				-1			4				4
Acquired—Latent Acquired—Tertiary		****				****	****		5	****			5
(Cardiovascular) Acquired—Tertiary	****	0111	1000	****		****	****	****	****	****	****	****	
(Neurosyphilis)	****										1011	1000	
Acquired—Tertiary (other)	2000	****		****	1111		****		1	****	2117		1
Type Undetermined			****	****			1111	****	9	-	10.00	****	9
	-	-	-	-	-	-	-	-	17	-	-	-	17
Totals						_			17		-		17

Number of cases of syphilis: Male 15. Number of cases of gonorrhoea: Male 2.

Number of prisoners examined: 1.014.

Number and results of Kahn and Wassermann tests: 956 of which 72 were positive.

COMBINED REPORTS OF CLINICS ON THE LESSER SLAVE LAKE—SLAVE LAKE, SMITH, KINUSO, FAUST, CANYON CREEK, DRIFTPILE AND GROUARD

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

	Un 1	der yr.	1- yr		5-1 yr		15- yr		20 y & o			not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)					1	2	1	6	7	12	100		29
Syphilis (congenital)	2000					1	Second		1010			2010	1
Acquired-Primary								3					3
Acquired-Secondary		****						****		1			1
Acquired—Latent Acquired—Tertiary			****	****					1.				1
(Cardiovascular) Acquired—Tertiary	3414	4141		900		****	****		****		****	****	****
(Neurosyphilis)							****	1111					No.
Acquired-Tertiary (other)						40.0			****				
Type Undetermined		4011							3	5		****	8
And the second second second second second	-	-	-	_	-	-	-	-	-	_	-	-	name of the last
Totals					1	3	1	9	11	18			43
	-	-	-	-	-	-	-	-	-	-	-	-	
Number of cases of syphilis Number of cases of gonorrh													. 14

Number and results of Kahn and Wassermann tests: 543 of which 15 were positive.

Number and results of Cerebrospinal Fluid tests: None.

Number and results of Bacteriological tests for gonococci: 75 of which 12 were positive.

PRIVATE PHYSICIANS REPORTING CASES

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

	-	nder 1-4 yr. yrs.					15-19 yrs.					Age not stated	
	M.	F.	M.	F.	M.	F.	M.	F.	M	. F.	M.	F.	Totals
Gonorrhoea (all forms)	2	3		5	- 1	4	33	65	419	148	76	50	806
Syphilis (congenital)	3			1	2		1111		3	1	1		11
Acquired-Primary							4	1	39	25	3	4	76
Acquired-Secondary								4	10	9	5 8	3	31
Acquired—Latent							- 2	1	19	24	8	3	57
Acquired—Tertiary							- 53	- 7		100	3.7		
(Cardiovascular)	- min								1	5	1	1	8
Acquired—Tertiary												-70	
(Neurosyphilis)									10	5	3	4	22
Acquired-Tertiary (other)									8	3	3		14
Type Undetermined					1				21	16	9	3	50
	-	_	_	-	-	-	-				_	_	
Totas	5	3	1010	6	4	4	39	71	530	236	109	68	1075
	-	-	-	-	_	-	-	_	_		_	_	
Number of cases of syphilis	: Ma	le 1:	6, F	ema.	le 113	3							269
Number of cases of gonorr	hoea	: M:	ale 5	31.	Fema	le 2	275						. 806
Number of doctors in the pro-	ovin	ce re	ceivi	ng c	consu	Itati	ve se	rvic	e				. 284
Number of doses of arsenie													
Number of doses of bismut													11,731
Minimister of closes of biggets													17.640

RECAPITULATION

NEW PATIENTS ADMITTED TO THE VARIOUS CLINICS OF THE DIVISION OF SOCIAL HYGIENE IN 1946

Sex	Syphilis	Gonorrhoea	Totals
Males Females	123 86	1032 447	1155 533
Totals	209	1479	1688

CASES REPORTED BY DOCTORS AND MILITARY AUTHORITIES

Syphilis Private Gonorrhoea	Physicians 269 806		Forces 25 39	Total 294 945
Totals	1075	10	64	1239
Total number of cases of syphil Total number of cases of gonorrh	lis reported i oea reported	n Alberta in Alberta		503 2424 2927
Total number of new cases of sy forces personnel Total number of new cases of				
armed forces personnel	gonormoea r	eported in 2	diberta exclusive of	2285
				2763

ALLEGED CONTACTS AND SOURCES OF VENEREAL INFECTIONS

For the Period January 1st, 1946-December 31st, 1946

Location of Sources or Contacts	Number of Sources of Infection Reported	Number of Sources of Infection Located	Percentage of Sources of Infection Located
Edmonton	505	467	92%
Calgary Lethbridge	310 51	246 29	79% 57%
Medicine Hat	29	22	79%
Rest of Province	485	416	86%
		-	
Alberta Totals Only	1380	1180	86%
Sources of Infection or Contacts re-			
ported outside of Alberta	92	40	43%
Total	1472	1220	83%
	-	-	-

Unit Forwarding Information	Number of	Sources of	Sources
	Sources of	Number of	of Infection
	Infection	Infection	Located
	Reported	Located	Percentage
Army and R.C.N.V.R. R.C.A.F. U.S. Forces Private Doctors and Clinics	157	131	83%
	46	41	89%
	19	18	94%
	1199	997	83%
Other Provinces in Canada (Undesignated)	51	33	66%
Totals	1472	1220	83%

Inadequate information on cases in Alberta, 200. Sourses of infection that could not be located by authorities outside of Alberta, 52.

DETAILS OF INFORMATION OBTAINED ON THE FACILITATION PROCESS

How Informant met Source of Infection or Contact		Approx.	Where Informant met Source of Infection or Contact		Approx.
Picks up	716 182	49% 12%	Resturant or Beer Parlor Dance Hall	257 187	17%
Friend Marital Partner	109 55	7% 4%	Street Friend	233 93	16% 6% 5%
House of Prostitution	18	.06%	Hotel Marital Partner	70 55	4%
No data available	383	26%	Recreation, Private Party	66 14	1%
			House of Prostitution House or Room Taxi	83	.06%
			No data available	388	26%

DETAILS OF INFORMATION OBTAINED ON THE CONTACT INVESTIGATION

Place of Exposure Rooming House Private House Hotel Outdoors Car Train ,boat or Auto Camp House of Prostitution No data available	246 176 126 3 14	Approx. 18% 20% 17% 12% 9% .09% .02% 23%	Occupation of Source of Infection or Contact Waitress Housewife Prostitute or Streetwalker Domestic, Hotel or Hospital Maid Factory or Plant Worker Clerk, Salesman, Steno and Teacher	102	Approx. 19% 6% 8% 9% 10%
No data available			Service Personnel Unemployed No data available	26 11 579	2% .07% 39%

Sanitary Engineering Division

(D. R. Stanley, B.Sc. (C.E.), Provincial Sanitary Engineer)

The present post-war prosperity with its attendant labor and material shortages has prolonged many of the division's sanitation problems which cropped up during the war years. In particular these problems arose in the fields of milk supply, housing, restaurants, water supply and sewerage.

The milk supply problem especially for smaller communities was due to the fact that farmers were not interested in this business because it was not as profitable as other types of farming. As a result, some communities found themselves entirely without a milk supply. At best some communities had to accept milk supplies from very questionable sources. The milk situation for these smaller communities seemed to improve somewhat during 1946.

Another phase of milk supply, that of protection by pasteurization progressed quite favourably in that many towns and villages have passed compulsory pasteurization By-Laws as authorized in 1945 amendments to The Public Health Act. One of the difficulties that has arisen is that pasteurizing equipment is difficult to obtain and communities passing a pasteurization By-Law cannot therefore immediately get their milk pasteurized. The following is a list of communities that had pasteurization By-laws approved by Provincial Board of Health in 1946.

Towns of: Bassano, Olds, Vegreville, St. Paul.

Every indication points to many more communities passing such By-Laws in 1947.

The housing situation has come to the attention of the division many times during 1946 in the form of complaints from various sources to the effect that families were having to live under very crowded and unsanitary conditions. In ordinary times the division could have such dwellings declared unfit for human habitation by a Medical Officer of Health but due to the shortage of housing such action was not considered wise in most cases. Another year should see the housing situation greatly improved.

The general public has suddenly taken a very great interest in restaurant sanitation. This has been evidenced by the numerous complaints and suggestions received by the division regarding restaurant sanitation. One of the big problems is to get local boards of health interested in enforcing Provincial Health Regulations in areas under their control. The situation however in this regard is satisfactory in cities or health units where full-time staffs are employed. Another great problem in restaurant sanitation has been educating the food handlers in proper sanitary methods. This problem was attacked in Calgary by running a food handlers course. However it was difficult to get those concerned to attend the course. The tremendous turn-over of staff in restaurants has also complicated the problems. When staff becomes more available and more food handlers courses are organized, this phase of restaurant sanitation should improve.

The water supply and sewage disposal problems in the Province in 1946, became much more acute because of the tremendous building program. Also many hotels, businesses and even private homes modernized their premises by installing pressure water and sewage disposal systems. These problems are being solved as quickly as material becomes available for the construction of proper community waterworks and sewerage systems. The activity in the waterworks and sewerage field in 1946, was unprecedented in the Province of Alberta. This activity is especially notable in that it concerned so many small towns and villages. A waterworks and sewerage system was constructed in the Town of Innisfail in 1946. The Town of Morinville constructed a sewerage system and there was also some waterworks and sewerage construction at Westlock, Raymond and Vermilion.

The following Certificates were issued by the Provincial Board of Health during the year 1946 covering waterworks, sewerage and hospital construction.

- City of Calgary, Certificate No. 523-46. Proposed Water and Sewer Construction. Estimated cast, \$40,000.00.
- City of Edmonton, Certificate No. 524-46. Proposed Hospital Construction. Estimated cost, \$19,216.42.
- Village of Consort, Certificate No. 525-46. Proposed Hospital Construction. Estimated cost, \$50,000.00.
- Village of Killam, Certificate No. 526-46. Proposed Addition to existing Hospital. Estimated cost, \$56,377.85.
- Town of Ponoka, Certificate No. 527-46. Proposed Hospital Construction. Estimated cost, \$75,000.00.
- Village of Oyen, Certificate No. 528-46. Proposed Hospital Construction. Estimated cost, \$50,000.00.
- Village of Two Hills, Certificate No. 529-46. Proposed Hospital Construction. Estimated cost, \$70,000.00.
- City of Calgary, Certificate No. 530-46. Proposed Sewer Connections. Estimated cost, \$35,685.00.
- City of Lethbridge, Certificate No. 531-46. Proposed Storm Sewer Extensions. Estimated cost, \$80,500.00.
- City of Calgary, Certificate No. 532-46. Proposed Sewer and Water Connections and Sewers. Estimated cost, \$84,554.55.
- Town of Morinville, Certificate No. 533-46. Proposed Sewerage Construction. Estimated cost, \$2,000.00.
- Town of Vulcan, Certificate No. 534-46. Proposed Water and Sewerage Construction. Estimated cost, \$173,753.00.
- Village of Penhold, Certificate No. 535-46. Proposed Water and Sewerage Construction. Estimated cost, no cost.
- Village of Westlock, Certificate No. 536-46. Proposed Sewerage Construction. Estimated cost, \$30,000.00.
- Village of Barrhead, Certificate No. 537-46. Proposed Waterworks and Sewerage. Estimated cost, \$84,890.00.
- Town of Wainwright, Certificate No. 538-46. Proposed Waterworks and Sewerage Construction. Estimated cost, \$194,000.00.
- Village of Barons, Certificate No. 539-46. Proposed Waterworks Construction. Estimated cost, \$50,400.00.
- Village of Grimshaw, Certificate No. 504-46. Proposed Waterworks Construction. Estimated cost, \$25,000.00.
- Town of Nanton, Certificate No. 541-46. Proposed Waterworks Construction. Estimated cost, \$73,144.00.
- Town of Gleichen, Certificate 542-46. Proposed Waterworks Construction. Estimated cost, \$35,300.00.
- Village of Fairview, Certificate No. 543-46. Proposed Waterworks Construction. Estimated cost, \$50,000.00.

- Village of Elnora, Certificate No. 544-46. Proposed Hospital Construction. Estimated cost, \$45,000.00.
- Hamlet of Mercoal, Certificate No. 545-46. Proposed Sewerage Construction.
- Town of Three Hills, Certificate No. 546-46. Proposed Hospital Construction. Estimated cost, \$88,000.00
- Village of Legal, Certificate No. 547-46. Proposed Waterworks and Sewerage Construction. Estimated cost, \$49,000.00.
- District of Crows Nest Pass, Certificate No. 548-46. Proposed Hospital Construction. Estimated cost, \$235,000.00.
- Town of Hardisty, Certificate No. 549-46. Proposed Waterworks and Sewerage Construction. Estimated cost, \$62,000.00.
- City of Edmonton, Certificate No. 550-46. Proposed Sewerage Construction. Estimated cost, \$277,080.00.
- Town of Granum, Certificate No. 551-46. Proposed Waterworks and Sewerage Construction. Estimated cost, \$45,916.00.
- Town of Vegreville, Certificate No. 552-46. Proposed Waterworks and Sewerage Extension Schemes. Estimated cost, \$89,500.00.
- Town of Bow Island, Certificate No. 553-46. Proposed Waterworks System. Estimated cost, \$67,440.00.

During the year reports of 1,525 Bacteriological analyses, 677 Chemical analyses, 8 milk analyses, 38 ice analyses reached the Division. In the case of contaminated waters, the persons concerned were advised as to the procedure to follow in order to restore the quality of the water to a safe condition.

The Sanitary Inspector of the Division in the year 1946, investigated 150 complaints and requests, some of which entailed holding meetings with local boards of health, councils and other bodies. During the winter 28 logging camps were visited, some as a result of complaints and some as routine inspections.

Plumbing work done throughout the Province directly under the supervision of the Division's Plumbing Inspector in 1946 has been as follows:

Water closets 708, Lavatory Basins 851, Laundry Tubs 58, Baths and Showers 535, Sinks 560, Septic Tanks 252, Miscellaneous Fixtures 60.

Inspection fees collected for this work by the Provincial Plumbing Inspector in 1946, amounted to \$2,928. The previous high for collection was in 1945 when fees totalled \$2,008.

Besides the above the following work was carried out in Calgary, Edmonton, Lethbridge, Medicine Hat, Drumheller, Red Deer, Wetaskiwin, High River, Brooks, Claresholm, Hanna, Grande Prairie, Banff, Jasper and Waterton, where the work was done under the supervision of local Plumbing Inspectors:

Water Closets 6,575, Laundry Tubs 219, Sinks 5,476, Lavatory Basins 5,911, Baths and Showers 4,764, Septic Tanks 20, Miscellaneous Fixtures 718.

As a result of the above installations 406 outside toilets were eliminated.

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 1946.

It will be noted that the total number of new cases is 2,258, compared with 1,794 in 1945, 1,726 in 1944, 1,670 in 1943, 1,186 in 1942 and 1,142 in 1941.

Of these new cases, 1,146 were found to be non-malignant and therefore did not require treatment under the Cancer Clinic.

A summary of the anatomical distribution of the cancerous lesions in order of frequency is attached herewith, 1,112 in number.

The total number of surgical operations authorized for 1946 was as follows:

Edmonton 857
Calgary 433

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

Edmonton Calgary	909
	1,025
The total number of cases referred to hospitals	:
Edmonton Calgary	914
	1,034

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

Edmonton	565 309
	-
	874

The total number of cases referred for X-ray examinations:

Edmonton 807
Calgary 227

1.034

The total number of miscellaneous examinations and treatments authorized by the Edmonton Cancer Clinic was 146.

The total number of cases referred to Dr. H. Orr, Edmonton Clinic, for biopsies and treatment was 161.

The total number of cases referred to Drs. Ellis, Tucker and Conroy, Edmonton Clinic, for cystoscopics and examinations was 88.

The total number of cases referred to Dr. H. Jamieson, Edmonton Clinic, complete blood counts, gastric analysis, etc., was 183.

Since the opening of the Clinics in 1941, the total number of cases examined, exclusive of re-examinations is 9,776. Of these 5,174 were diagnosed as cancer, or 52.8 per cent.

A second clinic each week was established at the Edmonton Cancer Clinic beginning April 1, 1946. This clinic is held each Friday morning, 9 a.m. to 12 a.m.

1946 ANATOMICAL DISTRIBUTION OF CANCEROUS LESIONS IN ORDER OF FREQUENCY

Skin 111 Breast 92 Skin 100 Stomach 48 Cervix 41 Lip 32 Colon 35 Stomach 30 32 Cervix 31 Colon 29 Rectum 29 Bladder 25 Lung 23 Prostate 20 Bladder and Kidney 21 Lung 25 Bladder and Kidney 22 Kidney 11 Uterus 19 Mouth 11 Uterus 19 Mouth 11 Brain 14 Rectum 11 Brain 14 Rectum 11 Prostate 12 Prostate 12 Prostate 12 Prostate 12 Prostate	EDMONTON		CALGARY	
Stomach	Skin	111	Breast	109
Lip 47 Lip 32 Colon 35 Stomach 30 Cervix 31 Colon 29 Rectum 29 Bladder 25 Lung 23 Prostate 20 Bladder and Kidney 22 Kidney 11 Uterus 19 Mouth 11 Brain 14 Rectum 11 Brain 14 Rectum 11 Prostate 13 Uterus 11 Malignant Lymphoma 11 Abdomen 10 Hodgkin's 11 Hodgkin's 7 Leukemia 10 Lung 7 Mouth 10 Parotid 6 Oesophagus 10 Larynx 5 Testicle 5 Pancreas 5 Bone 4 Ovary 4 Miscellaneous 63 Testicle 4 Oesophagus 3 3	Breast	92	Skin	100
Colon 35 Stomach 30 Cervix 31 Colon 29 Rectum 29 Bladder 25 Lung 23 Prostate 20 Bladder and Kidney 22 Kidney 11 Uterus 19 Mouth 11 Brain 14 Rectum 11 Prostate 13 Uterus 11 Malignant Lymphoma 11 Abdomen 10 Hodgkin's 11 Hodgkin's 7 Leukemia 10 Lung 7 Mouth 10 Lung 7 Mouth 10 Lung 7 Mouth 10 Larynx 5 Testicle 5 Pancreas 5 Bone 4 Ovary 4 Miscellaneous 63 Testicle 4 Groin 3 3 Eye 3 3 Groin <td< td=""><td>Stomach</td><td>48</td><td>Cervix</td><td>41</td></td<>	Stomach	48	Cervix	41
Colon 35 Stomach 30 Cervix 31 Colon 29 Rectum 29 Bladder 25 Lung 23 Prostate 20 Bladder and Kidney 22 Kidney 11 Uterus 19 Mouth 11 Brain 14 Rectum 11 Prostate 13 Uterus 11 Malignant Lymphoma 11 Abdomen 10 Hodgkin's 11 Hodgkin's 7 Leukemia 10 Lung 7 Mouth 10 Parotid 6 Oesophagus 10 Larynx 5 Testicle 5 Pancreas 5 Bone 4 Ovary 4 Miscellaneous 63 Testicle 4 Oesophagus 3 3 Eye 3 3 Groin 3 3 Eye 2	Lip	47	Lip	32
Cervix 31 Colon 29 Rectum 29 Bladder 25 Lung 23 Prostate 20 Bladder and Kidney 22 Kidney 11 Uterus 19 Mouth 11 Brain 14 Rectum 11 Brain 14 Rectum 11 Moith 11 Abdomen 10 Hodgkin's 11 Hodgkin's 7 Leukemia 10 Lung 7 Mouth 10 Parotid 6 Oesophagus 10 Larynx 5 Testicle 5 Pancreas 5 Bone 4 Ovary 4 Miscellaneous 63 Testicle 4 Oesophagus 3 Eye 3 Groin 3 Bone 2 Finger 2 2 Leukemia 2 2 Nock 2 <td>Colon</td> <td>35</td> <td>Stomach</td> <td></td>	Colon	35	Stomach	
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Lung 23 Prostate 20 Bladder and Kidney 22 Kidney 11 Uterus 19 Mouth 11 Brain 14 Rectum 11 Prostate 13 Uterus 11 Malignant Lymphoma 11 Abdomen 10 Hodgkin's 11 Hodgkin's 7 Leukemia 10 Lung 7 Mouth 10 Parotid 6 Oesophagus 10 Larynx 5 Testicle 5 Pancreas 5 Bone 4 Ovary 4 Miscellaneous 63 Testicle 4 Oesophagus 3 3 Bone 2 2 Finger 2 2 Leukemia 2 2 Neck 2 2 Neck 2 2 Neck 2 2 Chest 1	Rectum		Diadden	25
Bladder and Kidney	Lung	23	Prostate	
Uterus 19 Mouth 11 Brain 14 Rectum 11 Prostate 13 Uterus 11 Malignant Lymphoma 11 Abdomen 10 Hodgkin's 11 Hodgkin's 7 Leukemia 10 Lung 7 Mouth 10 Parotid 6 Oesophagus 10 Larynx 5 Testicle 5 Pancreas 5 Bone 4 Ovary 4 Miscellaneous 63 Testicle 4 Oesophagus 3 Eye 3 Groin 3 Bone 2 Finger 2 2 Leukemia 2 2 Neck 2 2 Thyroid 2 2 Thyroid 2 2 Thyroid 2 1 Legs 1 1 Vulva 1 <td>Bladder and Kidney</td> <td>22</td> <td>TF: 4</td> <td></td>	Bladder and Kidney	22	TF: 4	
Brain 14 Rectum 11 Prostate 13 Uterus 11 Malignant Lymphoma 11 Abdomen 10 Hodgkin's 11 Hodgkin's 7 Leukemia 10 Lung 7 Mouth 10 Parotid 6 Oesophagus 10 Larynx 5 Testicle 5 Pancreas 5 Bone 4 Ovary 4 Miscellaneous 63 Testicle 4 Oesophagus 3 3 3 Eye 3 3 Groin 3 3 Bone 2 2 Finger 2 2 Leukemia 2 2 Thyroid 2 2 Thyroid 2 2 Thyroid 2 2 Nose 1 1 Penis 1 1 Vulva	Uterus	19	Mouth	
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Malignant Lymphoma 11 Abdomen 10 Hodgkin's 11 Hodgkin's 7 Leukemia 10 Lung 7 Mouth 10 Parotid 6 Oesophagus 10 Larynx 5 Testicle 5 Pancreas 5 Bone 4 Ovary 4 Miscellaneous 63 Testicle 4 Oesophagus 3 3 Eye 3 3 Groin 3 3 Bone 2 2 Finger 2 2 Leukemia 2 2 Neck 2 2 Shoulder 2 2 Chest 1 1 Legs 1 1 Nose 1 1 Penis 1 1 Vulva 1 1		13	TTAnman	
Hodgkin's	Malignant Lymphoma	11	Abdomon	
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Bone 4 Ovary 4 4 Miscellaneous 63 Testicle 4 Oceophagus 3 Eye 3 Groin 3 Bone 2 Finger 2 Leukemia 2 Neck 2 Shoulder 2 Thyroid 2 Chest 1 Legs 1 Nose 1 Penis 1 Vulva 1	77141-1-	5	Donosoo	5
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Mental Health Division

(RANDALL R. MacLean, M.D., General Medical Superintendent of Provincial Mental Institutions and Director of Mental Hygiene Clinics)

Included in the activities of this Branch is the work carried out in connection with the operation of the following Institutions:

Provincial Mental Hospital, Ponoka.

Auxiliary Mental Hospital, Raymond.

Auxiliary Mental Hospital, Claresholm.

Provincial Mental Institute, Edmonton.

Provincial Training School for Mental Defectives, Red Deer.

The programme of Mental Hygiene or Guidance Clinics is carried out in connection with this Department also.

Closely allied to the work of the aforementioned Departments is that of the Eugenics Board and the sterilization programme.

PROVINCIAL MENTAL HOSPITAL, PONOKA

Patient Population Changes.

There were 1,367 patients—768 male and 599 female cases in residence on January 1st, 1946. On December 31st, 1946, there were 1,404 patients in residence—799 males and 765 females representing an over all increase of some 37 patients. During the year fifty patients—31 males and 19 females were transferred to the Provincial Mental Institute, Edmonton. Twelve female patients were transferred to the Claresholm Auxiliary Mental Hospital. Two male and six female patients were transferred to the Red Deer Training School. Transfers to this Hospital from the latter institutions were as follows: Three female patients from the Provincial Mental Institute, six female patients from the Claresholm Auxiliary Hospital; and five male and four female patients from the Red Deer Training School. The transfers to the Hospital were necessary in order that the patients concerned might be given active psychiatric or medical or surgical treatment not possible in the auxiliary hospitals.

The percentage of elderly patients admitted, male and female, suffering from senility or the effects of cerebral arteriosclerosis was quite high as it has been in recent years.

A number of adult defectives were also admitted to this Hospital during the year.

During the year two medical officers joined the staff, improving conditions in that respect. There was improvement also in the male staff situation, but the countryside shortage of female nurses and female help generally was felt by this Hospital.

Admission of Patients.

The total number of admissions for the year, exclusive of transfers to this Hospital from other institutions, was 594—309 males and 285 females. This would represent twenty-four more admiss-

sions than the year 1945. Some 140 patients were admitted on a Voluntary basis; 151 were admitted by Medical Certification; 298 were committed by Warrant of the Attorney General, and five admitted under The Mental Defectives' Act. Accommodation for patients was taxed to the limit throughout the year.

Separation of Patients.

Separations for the year totalled 634—327 males and 307 females. The discharge rate was approximately 81 per cent of the admission rate. There were 70 transfers—33 males and 37 females.

There were 74 deaths—48 males and 26 females. The death rate based on the total number of patients under treatment would be approximately 4 per cent. The commonest causes of death were those associated with cardio-vascular diseases and respiratory diseases, including tuberculosis.

General Health.

The general health of the patients was good throughout the year. There were no epidemics. The improvement in the Medical Staff numbers made it possible for the patients to be observed and examined with greater frequency and efficiency.

Routine Chest X-Ray examinations were carried out as formerly. All patients suspected of having tuberculosis were isolated for repeated examinations and observation. Those found to have active tuberculosis were placed in a ward for such cases. All patients were X-rayed before being given shock treatments.

Treatment of the Patients.

All newly admitted patients were carefully examined and observed and active treatment was prescribed according to the indications for it. Routine Blood Tests, Urinalysis, X-Ray Examinations of the Chest, and Spinal Fluid Tests were done on all newly admitted patients.

Psychotherapy.

It was possible to do more Psychotherapy this year than formerly because of the increase in the number of Medical Officers.

Shock Therapy.

Over 300 patients were given courses of this form of treatment in the nature of Electro-Shock and Insulin Therapy. The results obtained were very gratifying and compared favourably with the results obtained in other Psychiatric Hospitals. Treatment by combining Electro-Shock and Insulin Shock was carried out in selected cases with some success.

Fever Therapy.

During the year, some 150 courses of treatment were given to the syphilitic patients newly admitted and those resident in the Institution. Penicillin was used extensively by the prescribed methods. In all, some 2,000 treatments were given to the syphilitic patients during the year. The results of the treatments administered were satisfactory.

Hydrotherapy and Physiotherapy.

These forms of treatment, which include Prolonged Baths, Wet Packs, Medicated Baths, Showers, Massage, Light Treatments, Electric Cabinet Treatments and others, were also used extensively throughout the year. The total number of such treatments given for their sedative tonic or eliminative effects reached the thousands.

Occupational Therapy.

Opportunities for Occupational Therapy were afforded the majority of the patients from the Hospital. Some 560 of the 612 patients admitted during the year attended Occupational Therapy Classes. Certain Occupational Studios are set aside for the patients on the continued treatment wards. By rotating these patients through these studios it is possible to keep a closer check on the course of their mental conditions.

Recreational Activities.

The staff of the Occupational Department supervise the Recreational Programme. During the year card parties, garden parties, dances, baseball tournaments, curling, sleigh rides, skating party and two Sports Days were held for the patients. Picture shows were held during the cooler months and physical training classes were conducted under the supervision of a member of the Occupational Therapy Staff. This Department also supervises the patient's Library which now contains many hundreds of volumes of the best and latest books.

Beauty Parlor.

During the year, nearly a thousand patients were given various forms of treatment and attention in the Beauty Parlour. In all, over 8,000 treatments, consisting of Shampoos, Finger Waves, Permanents, and Manicures, were given.

Religious Services.

Religious services of all major denominations were held regularly throughout the year, including many Communion Services. Many pastoral visits were made to the patients by the Parish Priest and the Clergyman.

Social Service Department and Mental Hygiene Guidance Clinic.

Guidance Clinics were held in Edmonton, Calgary, Lamont, Wainwright, Red Deer, High River, and in the Edmonton Rural Health District. The psychiatric work of the Clinics was done by psychiatrists from the Mental Hospitals. Some 86 Clinics were held as compared with 60 in 1945. Over 300 new cases were examined during the year and approximately 800 follow-up examinations and interviews were made. Since the initiation of the Clinics in 1929, approximately 5,000 cases have been handled.

Included in the work of the Social Service Department is the obtaining of field reports in connection with Hospital cases. The social workers also make home visits to obtain information of value in handling cases for discharge or discharged. The social workers are also responsible for intelligence tests of patients in a hospital and those seen in the Clinics.

Surgical Service.

The two Honorary Surgeons performed 78 operations. The patients convalesced satisfactorily.

Dental Department.

On November 1st a full-time dentist was appointed to the Institution, enabling it to resume its former routine of having all newly admitted cases carefully examined and treated. It also permitted of the reinstatement of the ordinary routine whereby all patients visit the dentist at regular intervals or receive emergency care where indicated.

Despite the fact that there was no resident dentist for such a long period during the year, over 1,200 treatments were given the patients.

X-Ray Department.

Regular Chest X-Ray examinations of the patients and the staff were made and all patients undergoing Shock Treatments were X-Rayed prior to the initial treatment, and re-rayed subsequently where there was any indication for it. A total number of 2,511 X-Rays were taken during the year 1946; 1,643 of which were Chests.

Laboratory Service.

In all, over 3,500 tests were done in the Laboratory, including Urinalyses, Blood Wassermanns, Cerebral Spinal Fluid examinations, Bacterial examinations, Blood Chemistry, Gastric Analyses, and Basal Metabolic Rate determinations.

The Laboratory Technician also assisted in the Post-Mortem examinations and the preparation of the specimens.

Nurses' Training School.

The fourteenth annual graduation exercises were held on May 31st, 1946, when the eleventh class of General and Psychiatric Nurses, ten in number, received their diplomas. In addition, six Graduate Nurses received their Certificates in Psychiatric Nursing.

One male attendant graduated, having completed his three year course. The War interfered with the training of male attendants. During the year, forty student nurses were in various stages of their training.

During the spring term, twenty-three B.Sc. in Nursing students from the University of Alberta were assigned two weeks' field work at this Hospital. They received orientation lectures and other instructions on the functions of the mental hospital.

Department of Building Maintenance.

This Department, operating under the jurisdiction of the Department of Health, completed a heavy programme of maintenance, renovation and alteration in the Institution as a whole. New roofs were placed on several wards and on all the corridors of the Hospital and the reservoirs. Several verandahs were glassed in making them useful for sleeping purposes. A considerable amount of new linoleum was laid on the floors—much of the worn out linoleum was replaced. The air conditioning systems for certain male and female wards were completed and functioned satisfactorily.

Fire Protection.

Monthly fire practises, using the fighting equipment and evacuating the wards of the patients were held. Meetings to discuss methods of fire fighting were also conducted. Two inspections from the Fire Commissioners were made during the year and their recommendations given careful consideration. Suitable fire engines were placed on the stock and poultry farms, additional fire extinguishers and a portable hose reel were added to the equipment.

Staff Changes.

Two Medical Officers were added to the Medical Staff during the year, which brought considerable relief to the acute shortage which existed during the War.

Business Office.

The work of the Business Office increased during the year, corresponding to the high rate of admissions of patients. Maintenance accounts were dealt with to better advantage than in previous years.

Farm.

Poultry, egg, hog and milk production was satisfactory and met with the demands of the Institution.

Cannery.

Over 21,000 No. 10 cans of garden products and fruit, both domestic and imported, were processed during the season. Of this amount, some 3,000 cans were delivered to the other Provincial Institutions.

Print Shop.

This Department was able to take care of the printing of essential forms and book-binding during the year.

Garden Compartments.

This Department provided a good supply of vegetables such as carrots, beets, parsnips, cabbage, and others, and small fruits such as strawberries and raspberries. Ripe tomatoes, flowers and potted plants were supplied to the Hospital wards in numerable quantities from the greenhouse.

Stores Department.

Hospital supplies were well cared for in this Department. Certain shortages of materials were noticed, this being due as beforementioned, to difficulties in obtaining them.

Laundry.

The laundry functioned satisfactorily despite difficulties in obtaining adequate supplies of soap and other items, difficulties experienced by all laundries at present.

Carpenter Shop.

This Department took care of repairs and maintenance of Hospital equipment, chiefly furniture, quite satisfactorily during the year. Over 3,000 articles were given attention during the year.

Tailor Shop.

The Tailor Shop operated satisfactorily despite current shortage of textiles.

Department of Housekeeping.

Inventories were kept up to date. Much Hospital property was salvaged through the efforts of this Department.

Linen Room.

This Department which sorts, folds, mends, and distributes the linen to the various wards, handles approximately 25,000 pieces each week.

Sewing Room.

This Department which manufactures Nurses' uniforms, patients' clothing and gowns, and many other articles, made over 17,000 such items during the year.

Dietary Department.

A good general and balanced diet was provided for the patients with liberal facilities for special diets for those requiring them. The Dietitian assisted in training the nursing students.

Department of the Chief Engineer.

This Department, providing heat, light and water, functioned with the utmost satisfaction to the Institution as a whole.

TABLE No. 1 MOVEMENT OF PATIENT POPULATION DURING 1946

In residence December 31, 1945 On leave or otherwise absent	Male	Female	Total	Male 768 53	Female 599 19	Total 1367 72
First Admissions: (a) Voluntary (b) Certificates (c) Warrant (d) M.D. Act Re-Admissions: (a) Voluntary	62 55 124 1	45 52 90 2	107 107 214 3			
(b) Certificates (c) Warrant (d) M.D. Act Transfers	16 37 5	28 47 2 13	44 84 2 18	314	298	612
Separations: Discharges:				1135	916	2051
(a) Ås recovered (b) As improved (c) As unimproved (d) As without psychosis Transfers Deaths On leave or elopement prior to December 31, 1945:	52 77 21 50 33 48	49 103 26 48 37 26	101 180 47 98 70 74			
Discharged	46	18	64	327	307	634
On leave or otherwise absent				808	609	1417
In residence December 31, 1946				799	605	1404

TABLE No. 2

	TABLE No. 2			
PSY	CHIATRIC DIAGNOSIS OF PATIENT POPULATION IN RESIDI	ENCE,	DEC, 1,	1946
	Psychoses		Female	
0.1	Psychoses with syphilitic meningoencephalitis (general paresis).	56	11	67
01	Psychoses with other forms of syphilis of the central nervous			
02	system:			
	021 Meningo-vascular type	4	5	9
	022 With intracranial gumma	1		1
03	Psychoses with epidemic encephalitis	2	2	4
04	Psychoses with other infectious diseases	2	****	2
05	Alcoholic psychoses	1 2	4165	1 2
	052Delirium tremens 053 Koreakow's psychosis	2	400	2
	054 Acute hallucinosis	6	4000	6
07	Traumatic psychoses	2	****	2
	175 Traumatic delirium	4	****	4
08	Psychoses with cerebral arteriosclerosis	37	23	60
09	Psychoses with other disturbances of circulation:		,	3
	091 With cerebral embolism	2	1	1
	992 With cardo-renal disease Psychoses with convulsive disorders	3		3
10	101 Frilentle deterioration	11	21	31
	102 Epileptic clouded states	4	3	7
11	Capilla perchases:			
	111 Simple deterioration	26	18	44
	112 Presbyophrenic type 113 Delirious and confused	1 2	1	3
	114 Depressed and agitated		2	2
	115 Paranoid types	8	4	12
	116 Undefined	4444	1	1
12	Involutional melancholia:	5	11	16
	121 Melancholia Psychoses due to other metabolic, etc., diseases:		**	10
13	Psychoses due to other metabolic, etc., diseases.	1		1
	136 Diabetes	2		2
15	Psychoses associated with organic changes of the nervous system:			
276	151 Huntington's Chorea	4	1	5
	152 Disseminated sclerosis 153 Vascular accident	1	1	2
	154 Subarachnoid haemorrhage	1	101	1
16	Develoneuroses	1		1
-	169 Pevehaethenia		3	3 2
	163 Neurasthenia 164 Hypochrondriasis	1	2	1
				1115
17	Manic-depressive psychoses: 171 Manic type	24	34	58
	179 Depressive type	8	32	40
	172 Miyed types		4	5
	176 Stuporous type		1 - 112	
18	Dementia Praecox (Schizophrenia); 181 Simple type	3	18	21
	182 Hebenhrenic tyne	23	19	42
	183 Catatonic type	224	202 79	426 244
	184 Paranoid type	164		277
19	Paranoia and Paranoid conditions:	14	4	18
	191 Paranoia 192 Paranoid conditions	36	28	64
21	Psychoses with mental deficiency		35	94
22	Undiagnosed psychoses		9	9
23	Without nevchoses	2		2
20	231 Enilepsy	0	2	10
	224 Mental deficiency	99	24	59
	235 Disorder of personality	1000		-
	Totals	799	605	1404

SHOWING THE PSYCHOSES IN THOSE ADMITTED DURING 1946

	SHOWING THE PSYCHOSES IN THOSE ADMITTED DUF	RING	1946	
	Psychoses	Male	Female	Total
01	Psychoses with syphilitic meningoencephalitis (general paresis) Psychoses with other forms of syphilis of the central nervous	12	2	14
	system: 021 Meningo-vascular type	2		2
	024 Taboparesis	1	110	1
03	Psychoses with epidemic encephalitis	1	2	3
04	Psychoses with other infectious diseases	1	2000	1
05	- second poly entered		****	4
	052 Delirium tremens 054 Acute hallucinosis	3	2 3	5
	055 Chronic hallucinosis	1		1
06	Psychoses due to drugs or other exogenous poisons		1	1
07	Traumatic psychoses	3		3
	175 Traumatic delirium	****	4114	****
08	Psychoses with cerebral arteriosclerosis	27	17	44
09	Psychoses with other disturbances of circulation	1	1	2
10	Psychoses with convulsive disorders:	4	5	9
	101 Epileptic deterioration 102 Epileptic clouded states	1		1
11	Senile psychoses:	4	4	8
	111 Simple deterioration	13	12	25
	114 Depressed and agitated	1		1
10	115 Paranoid types	4	3	7
12	Involutional melancholia 121 Melancholia	3	- 7	10
13	Psychoses due to other metabolic, etc. diseases	2	4	6
	134 Chronic nephritis	1	7110	1
100	135 Organic brain disease	1		1
15	Psychoses associated with organic changes of the nervous system			
	151 Huntington's Chorea 154 Subarachnoid haemorrhage	1		1
16	Psychoneuroses:	1		1
	161 Hysteria	2	1	3
	162 Psychasthenia		2 3	2 3
	163 Neurasthenia 164 Hypochondriasis		3	3
	165 Reactive depression	2	7	3 9
	166 Anxiety state	1		1
17	Manic-depressive psychoses: 171 Manic type	Mindle	- 23	
	171 Manic type 172 Depressive type	17 22	21 24	38 46
	174 Hypomanie	2	3	5
	177 Circular type		1	1
18	Dementia Praecox (Schizophrenia)	1	****	1
	181 Simple type 182 Hebephrenic type	1	3	3
	183 Catatonic type	63	84	147
	184 Paranoid type 185 Undefined	31	10	41
19	Paranoia and Paranoid conditions	3	4	7
	192 Paranoid conditions	6	5	11
20	Psychoses with psychopathic personality	2		2
21	Psychoses with mental deficiency	4	5	9
22	Undiagnosed psychoses	4	7	11
23	Without psychoses	5	4	9
	231 Epitepsy	1	3	4
	232 Alcoholism 233 Drug addiction	5	1	6
	234 Mental deliciency	14	31	1 45
			1	1
	237 Tabes Dorsalis	3	1	4
	242 Neurosyphins	16	7	6 23
	243 Unronic Encephalitis	2	2	4
	244 Senile chorea 245 Migraine	1	****	1
24	Primary behaviour disorders	2	9	2
			2	
	Totals	314 -	298	612

TABLE No. 3 NATIVITIES OF PATIENTS ADMITTED DURING 1946

Nativities	Male	Femal	e Total	Nativities	Male	Female	e Total
Canada	183	168	351	Sweden	3	3	6
England	22	18	40	China	9	1111	9
Scotland	10	13	23	Denmark	2	1	3
Ireland	4	4	8	Italy	2	1	3
United States	32	40	72	Jugoslavia	2		2
Austria	4	3	7	Lithuania	1	4111	1
Russia	6	6	12	Bessarabia	1		1
Poland	9	9	18	Sicily	1	999	1
Czecho-Slovakia	2	6	8	Esthonia	1417	2	2
Finland	1	****	1	Belgium	1	2111	1
Ukrania	1	5	6	Galacia	1		1
France	1	10.00	1	Holland	0.00	2	1
Germany	5	6	11	South Africa	****	1	1
Hungary	8	6	14	Malaya	****	1	1
Norway	3	3	6		314	298	612

TABLE No. 4
AGES OF PATIENTS ADMITTED DURING 1946

	Adr	nissi	ions	Re-a	dmi	ssions	7	ls	
Ages	M.	F.	T.	M.	F.	T.	M.	F.	T.
		9	2	1		1	1	2	3
Under 15 years	10	16	26	A	1	5	14	17	31
15 to 19 years	-	-	52	0	12	21	35	38	73
20 to 24 years	26	26		3		17	37	38	75
25 to 29 years	33	35	68	4	13				76
30 to 34 years	29	24	53	9	14	23	38	38	
35 to 39 years	21	18	39	4	10	14	25	28	53
	26	14	40	13	15	28	39	29	68
40 to 44 years	18	18	36	9	6	15	27	24	51
45 to 49 years	16	8	24	-4	8	12	20	16	36
50 to 54 years	18	11	29	7	11	18	25	22	47
55 to 59 years	10	10	21	3	6	9	14	16	30
60 to 64 years	11	10		- 0	6	0	17	13	30
65 to 69 years	16	-1	23	0	0	0		17	39
70 and over	20	10	30	2	- 7	9	22	11	93
	-	-		-	-				
Total	242	189	431	72	109	181	314	298	612

DISCHARGES, CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSES AND CONDITION ON DISCHARGE FOR THE YEAR 1946 TABLE No. 5

	E	-	11		01	200	101	-	10	75	1		1		1	19	-	00	7	9		1	14						+	-	22	47	100	-		109	23	-
-1-1-	Totals	4	4		-				03	¢4	200		1			10		00	000	000		1	1		*****	1000					17	25	000	-		62 3	6	4
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	Unimproved	4	63			4 =	4								1					-		-	1000		-							0	1			9	00	
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	Improved	4	63			-	-								-	6	,	6	-	(0)			9		-	-			-		1	13	000	1		43	1	23
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		i	1				-		4	63			1			-		-	-	-		-	10			2000			1		16	18	000			33	4.	1
	Recovered	i				1	-		61	03			1			-		1					1			-					10	10	-			13	-	-
	Reco	M.	-						61	1												,	-										001				·F	
	,	2																					4		-				1	-	,					20		
				syphilis		tic	ases			-		exo-				rosis	of of							etc.,					-							*********		
						onconholitie	dise					other				arteriosclerosis	disturbances		rders					metabolic, etc.,			organic								nia):			
			men esis)	ns o	system	onco	tions					or ot				rteri	sturb		diso	states			-	etab		ww		System	11118						phre			***************************************
		90	litic l par	for		min	infe		ns	siso	Chronic hallucinosis				dum!		7		Isive	ed st		ation	olla		- Charles	gro	-	- 3	delillo	hose	2000				chizo			open contract
		Psychoses	syphi	other	ole rvo	enide	ther	Ses	remer	Acute hallucinosis	alluci	o dru		:sesc	delir	ereb	othe		onvil	loud		erior	ancho	oth		new	associated Wi	101	11 11	DEVE	2	Depressive type		- ed	X (S	Catatonic type	type	- secondary
		Psy	s (ge	ith	ral r	ith c	ith	vcho	im th	hall	ic hi	ue to	sons	sycho	attis	ith c	rith		ith e	tic c	ses:	det	mela	le to	40	16 to	the y	ohn	Coc	Sive	Manic type	Sive	Hypomanic	Circular type	aeco	nic		nea
			es w	es w	cen	00 a	es w	ic ps	eliri	cute	hron	es d	i poi	tic p	raum	es w	es u	tion	es w	pillep	ycho	mple	onal	es du	20 00	an sa	ES AS	Though.	POLITO	Pures	anic	epres	vpon	reul	a Pr	atato	Paranoid	Undefined
			Psychoses with syphilitic men encephalitis (general paresis)	Psychoses with other forms of	of the central nervous	Developes with enidemi	Psychoses with other infectious diseases	Alcoholic psychoses	052 Delirium tremens	054 A	055 C	Psychoses due to drugs	genous poisons	Traumatic psychoses:	075 Traumatis delirium	Psychoses with cerebral	Psychoses with other	circulation	Psychoses with convulsive disorders	102 Epileptic clouded	Senile psychoses:	111 Simple deterioration	Involutional melancholia	Psychoses due to other	diseases	Personness due to new growin	rsychoses associated Wi	154 Cubonochnoid homometric	Pevchoneuroses	Manic-depressive psychoses	171 M				Dementia Praecox (Schizophrenia)			182 0
					0					-	-		50	F)	Ps		Ci			Ser	-	H	Psy			4	-	Pev	Mar		1		1		-	-	1
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Paranoid conditions sees with psychopath sees with psychopath sees with mental derignosed psychoses are psychoses psychoses. Epilepsy Alcoholism Mental deficiency Disorder of person Psychopathic processing Chronic encephalitis Neurosyphilis Chronic encephalitis Py behaviour disorde Simple maladjustme	
Paranoid of Paranoid of Sees with passes pas	CITO
Paranoia and paranoid conditions 192 Paranoid conditions Psychoses with psychopathic Psychoses with mental defici Vindiagnosed psychoses 231 Epilepsy 232 Alcoholism 233 Drug addiction 234 Mental deficiency 235 Disorder of personality 235 Psychopathic personality 237 Tabes Dorsalis 237 Tabes Dorsalis 242 Neurosyphilis 243 Chronic encephalitis 243 Maraine Primary behaviour disorders 241 Simple maladjustment	-
19. Paranoia and paranoid co 192 Paranoid conditions 20. Psychoses with psychopath 21. Psychoses with mental de 22. Undiagnosed psychoses 23. Without psychoses 23. Epilepsy 23.2 Alcoholism 23.3 Drug addiction 23.4 Mental deficiency 23.5 Disorder of persons 23.5 Disorder of persons 23.6 Psychopathic persons 23.7 Tabes Dorsalis 24.2 Neurosyphilis 24.2 Neurosyphilis 24.3 Chronic encephalitt 24.5 Migraine 24.5 Migraine 24.5 Migraine 24.5 Simple maladjustm	
23. 23. 24.	

TABLE No. 6

Duder Over Total T. M. F. T. M. F. T. M. F. T. 1 7 4 11	1 1 2 1 3 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	4 1 2 2 3 3 47 12 19 6 1 2 2 3 3 47 12 19 6 1 2 2 3 3 47 180 6 1 2 3 4 9 61 74 135 6 1 2 3 1 1 1 1 1 1 2 3 1 4 1 2 3 1 4 1 2 3 1 4 1 2 3 1 4 1 2 3 1 4 1 2 3 1 4 1 2 3 1 2 1 2 3 1 2 1 2 3 1 2 2 2 2 2 2 2 2 2 2 2 2 3 1 2 2 2 2 4 2 3 4 2 2 5 6 1 5 6
Under 18 months M. F. T		11
SHOWING DURATION OF Under 9 months 12 months M. F. T. M. F. T.		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Under 9 months M. F. T.		1
DURING 1946 Under 6 months M. F. T.		11 11 11 11 11 11 11 11 11 11 11 11 11
DISCHARGES Under 3 months M. F. T. 5 1 6	21 6 11 6 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 9 12 15 24 39 20 34 54 4 3 7 45 37 92 117 132 249
Psychoses 01. With syphilitic meningo-encehpalitis 02. With other forms of syphilis of the	central nervous system 3. With epidemic encephalitis 4. With other infectious diseases 5. Alcoholc psychoses 6. Due to drugs or other exogenous toxins 7. Traumatic psychoses 8. With cerebral arteriosclerosis 9. With other disturbances of circulation 10. With convulsive disorders 11. Senile psychoses 12. Involutional psychoses 13. Psychoses due to other metabolic, etc.,	· · · · · · · · · · · · · · · · · · ·

TABLE No. 7

RECORD OF DEATHS DURING 1946

			RECO	ORD OF	DEA	THS DURING 1946
Register			Tim	e in Hos	pital	
No.	Sex.	Age.	Years.	Months.	. Days	s. Cause of Death
13039	M	69		Senior	20	Broncho-pneumonia.
10746	M	90	4	7	29	Senility.
12838	M	20		****	7	Lobar-pneumonia.
13060	M	81	****		10	Cerebral hemorrhage, fractured skull.
11747	M	73	2	6	18	Coronary Occlusion.
13090	M	38	40.00		1	Coronary Occlusion. Delirium Tremens.
12733	M	80		9	6	Generalized Arteriosclerosis.
13092	M	60			14	Uremia due to Nephritis.
7877	F	27	9	7 6	24	Pulmonary Tuberculosis.
12848	M	72	****	6		Senility—Senile Psychosis.
13068	M	76			28	Lobar pneumonia.
5961	F	78	12	1	21	Myocarditis.
11447	M	89	3	3	19	Gerenalized Arteriosclerosis, fracture of left
						femur.
236	F	67	33	10	27	Hypertension, Myocarditis.
12609	M	26		5	10	Epilepsy, Brain Tumour.
13158	F	25			8	Exhaustoin, due to Schizophrenia, catatonic
						excitement.
13107	M	82			31	Senility.
2952	M	64	22	9	26	Chronic Nephritis.
289	M	66	10	5	1	Generalized Arteriosclerosis.
13063	M	45		2	8	General Paresis of the Insane.
11226	F	62	3		20	Generalized Arteriosclerosis, Epilepsy.
12567	M	41	1	1	26	General Paresis of the Insane.
12289	F	48	1	8	21	General Paresis of the Insane.
13205	M	68			19	Generalized Arteriosclerosis.
13194	M	68	4111	1	12	General Paresis of the Insane.
12342	M	68	1	8	8	Intercranial lesion with Cerebral Arterio-
16046	TAT	00		0	0	sclerosis.
13197	F	28		1	11	Tumour (Malignant) of Cervical Glands.
13186	M	31		2		
13160	M	35	****	2	11	General Paresis of the Insane.
	F	75		10	16	Mentally depressed, suicide by hanging.
12813		62	5	5	14	Myocarditis. Acute Peritonitis.
10541	M	72		7	12	
12940	M		5		8	Septicemia, Septic Infection of Right Knee.
9078	F	22	11	8	0	Brain Tumour, Non-malignant.
6845	M	46	11	0	16	Tuberculosis of Lungs and Bones.
13162	M	70	****	3	16	Exhaustion, Senile Psychosis.
12700	M	65	1	- 4	7	Generalized Arteriosclerosis.
227	F	50	34	1	7	Epilepsy.
6882	F	43	11 16	6	19	Inanition.
4678	F	61	16	7	3	Uterine Carcinoma.
11331	F	82	3		9	Chronic Myocarditis.
13166	F	72	OF	4	17	Generalized Arteriosclerosis.
2305	F	68	25	8	83	Chronic Myocarditis.
5041	F	53	15		16	Pulmonary Tuberculosis.
13161	M	73		4	28	Generalized Arteriosclerosis.
11908	F	82	2	8	5	Senility.
12428	M	70	1		23	Broncho-pneumonia.
8513	M	59	9	3 .	4	General Paresis of the Insane.
12567	M	63	1	6	21	Toxic Absorption from Gangrene, Right Iliac
4572	M	70	17		17	Artery Embolism.
						Encephalo Malacia due to Cerebral Arterio-
13392	M	30		1	10	sclerosis.
					_	General Paresis of the Insane, Tertian
11462	F	79	3	10	7	Malarie (Therapeutic).
	Sign	9	100			Generalized Arteriosclerosis.
6127	F	53	9		6	Carcinoma of the Cervix.
13442	F	39	4404		21	Septic Broncho-pneumonia.
357	F	70	33	6	23	Senility.
12126	F'	73	1	6	227	Carcinoma of the Cervix.
13241	M	63	****	5	24	Lobar Pneumonia, Cerebral Arteriosclerosis.
13464	M	73	10.00		13	Congestive Heart Failure, Aortic Valvular
4649	F	48	16	11	17	Disease.
						Haemorrhage from Gastric Ulcer.
10722	M	77	5	6	3	Chronic Myocarditis.
9081	M	36	8	6	4	Bilateral Pulmonary Tuberculosis
13336	M	66		4	28	Coronary Occlusion.
1667	F	81	27	4	10	Toxic Exhaustion (decubitus ulcers).
13474	M	81		2	12	Coronary Occlusion.
12765	M	75	1	5	27	Cerebral Haemorrhage with left Hemiplegia.
11048	M	74	5		18	Chronic Myocarditis.
13012	M	70	1	1	26	Chronic Myocarditis.
13515	M	59	100	1	19	Subarachnoid Haemorrhage, Arteriosclerosis.
2675	M	71	23	7		Chronic Myocarditis.
	M	49	20	2	22	General Paresis of the Insane.
		51	1	9	18	Taboparesis.
13847	M		-		11	
13847 12615	M					
13847 12615 13588	M	77		3		Hypostatis Pneumonia.
13847 12615 13588 7908	M F	77 70		3	8	Hypostatis Pneumonia.
13847 12615 13588 7908 13605	M F F	77 70 50	****		8 7	Hypostatis Pneumonia. Lobar Pneumonia.
13847 12615 13588 7908 13605 13248	M F	77 70 50 57			8	Hypostatis Pneumonia.

TABLE No. 8

	TABLE No. 5	DIACI	TORTE	1046
C	CLASSIFICATION OF DEATHS ACCORDING TO PSYCHIATRIC	DIAGI	NOSIS,	1940
	Psychoses	Male	Female	Total
01	Peychoses with sypilite meningoencephalitis (general paresis)	8	1	9
02	Psychoses with other forms of syphilis of the central nervous system: 023 Taboparesis	1		1
03	Psychoses with epidemic encephalitis			
04	Psychoses with other infectious diseases			
05	Alcoholic psychoses	1	****	1
06	Psychoses due to drugs or other exogenous poisons			
07	Traumatic psychoses			
08	Psychoses with cerebral arteriosclerosis	9	2	11
09	Psychoses with other disturbances of circulation	1		1
10	Developes with compuleive disorders:			
10	101 Epileptic deterioration		3	3
11	Capila nevelopee:	- 8	- 4	12
	111 Simple deterioration	2	-	2
	113 Delirious and confused 114 Depressed and agitated	1	****	1
	115 Paranoid types	2	****	2
12	Involutional melancholia		1	1
13	Psychoses due to other metabolic, etc., diseases:			1
14	Psychoses due to new growth			
15	Psychoses associated with organic changes of the nervous system			
16	Psychoneuroses			
17	Manie depressive psychoses:			
	171 Manic type	1	3	3
200	172 Depressive type			
18	Dementia Praecox (Schizophrenia): 182 Hebephrenic type	1		1
	183 Catatonic type	2	6	8
	184 Paranoid type	2		2
19	Paranoia and Paranoid conditions: 192 Paranoid conditions	2	2	4
20	Psychoses with psychopathic personality			
21	Psychoses with mental deficiency		2	2
22	Undiagnosed psychoses	1		1
23	Without psychoses:			
	231 Epilepsy	1 2	1	3
	234 Mental deficiency 240 Senility	1		1
	241 Organic brain disease	1		1
	244 Senile chorea		1	1
24	Primary behavior disorders	****	des.	****
	Totals	48	26	74
		-		

AUXILIARY MENTAL HOSPITAL, RAYMOND

There was little or no change in the population of this Institution also designed for Continued Care of Female Cases.

Opportunities for Occupational and Recreational Therapy were afforded the patients in keeping with their capabilities. Dances, picnics, and a Sports Day were held and patients were given an opportunity to attend the picture shows in the Town of Raymond.

Gardens and Grounds.

The vegetable crop was not sufficient for the needs of the Institution due to the poor season. There was, however, a good yield of tomatoes.

The general health of the patients was good throughout the year.

TABLE 1

MOVEMENT OF PATIENT POPULATION DURING 1946

	Male	Female	Total	Male		Tota
n Residence January 1st, 1946				****	117	117
(a) Voluntary		E2165	2005			
(b) Certificates		1	1			
(c) Warrant		****	-			
(d) Order			****			
(e) Transfers						
	-	-	-		1	1
				name.	-	
					118	118
Re-Admissions:						
(a) Voluntary		4444	50.00			
(b) Certificates			2011			
(c) Warrant		****	4101			
(d) Order		****				
(e) Transfers		****	4000			
Discharges During the year:						
(a) As recovered			****			
			4010			

(4) Manuelauned to other bornitale						
			1			
100 00						
A 14h Photo-b						
		4	4			
(h) Deaths					4	4
				-	-	-
n Residence December 31, 1946					114	114

TABLE 2

SHOWING THE PSYCHOSES IN THOSE ADMITTED IN 1946

-	SHOWING THE ISTORES IN THOSE IN	emale
	choses	Ciliani
02	Psychoses with other forms of Syphilis of the central nervous system: 021 Meningo-Vascular (cerebral)	1
05	Alcoholic Psychoses: 054 Acute hallucinosis	1
08	Psychoses with Cerebral Arteriosclerosis	4
10	Psychoses with Convulsive disorders: 101 Epileptic deterioration 103 Other epileptic types (arteriosclerosis)	1 1
11	Psychoses Senile: 111 Simple deterioration 115 Paranoid types	3
17	Manic depressive Psychoses: 171 Manic type 172 Depressive type 173 Circular type	3
18	Dementia Praecox (Schizophrenia): 182 Hebephrenic type 183 Catatonic type 184 Paranoid type	21
19	Paranoia and Paranoid conditions: 192 Paranoid conditions	11
21	Psychoses with mental deficiency	11
22	Undiagnosed Psychoses	1
23	Without Psychoses: 234 Mental deficiency: 234a Idiot 234b Imbecile 234d Unspecified	3 5 9
	235 Disorders of personality due to epidemic encephalitis	. 2

TABLE 3

RECORD OF DEATHS DURING THE YEAR 1946

Register No.	Sex	Age		in Hosp Months		Cause of Death
9420	F	60	7	1	13	Congestive heart failure.
2649	F	55	22	10	29	Cerebral haemorrhage.
11607	F	81	3	1	27	Pneumonia from Generalized Arterioscler- osis with Hypertension.
11781B	F	81	1	1	23	Coronary Thromsbosi with Generalized Arteriosclerosis.

AUXILIARY MENTAL HOSPITAL, CLARESHOLM

There was very little change in patient population which is kept constant at 100 females.

Occupational and Recreational activities in keeping with the patients' propensities were carried on as before. There were parties, picnics, a Sports Day and opportunities afforded for attending the movies in the Town of Claresholm.

Gardens and Grounds.

A good crop of vegetables were grown—sufficient to meet the needs of the Institution.

The Institution is designed for Continued Care of Female patients. Their general health was good throughout the year.

	T	ABLE 1				year.	
	MOVEMENT OF PATIENT	POPULAT		URING e Total			
In Residence Admissions:	January 1st, 1946					96	96
(a) Volun	tary		****	- my			
(b) Certif	icate		1	1			
(c) Warra	int		3111	****			
(e) Transf	ers		12	12			
Re-Admission							
	tary icate		****	****			
	nt						
(d) Order							
(e) Transi	fers		1010	4111		13	13
		-					-10
					****	109	109
Discharged d	luring the year:						
(a) As Re	ecovered nproved		****				
(c) As U	nimproved		1	1			
(d) As W	ithout Psychoses						
	ferred to other hospitals		6	6			
(g) Depor	ted to other countries			****			
	S		2	2			
		-	-		****	9	9
						100	100
	TAB	LE 2				100	100
SHO	TAB		IN RE	SIDENC		100000	100
	WING THE PSYCHOSES OF I	PATIENTS			E IN	1946 Fem	ale
04 Psyc	WING THE PSYCHOSES OF I	PATIENTS diseases			E IN	1946 Fem	ale
04 Psyc 08 Psyc 10 Psyc	choses with other infectious choses with cerebral arterio	diseases sclerosis			E IN	1946 Fem	ale
04 Psyc 08 Psyc 10 Psyc 101	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration	diseases sclerosis			E IN	1946 Fem	ale
04 Psyc 08 Psyc 10 Psyc 101 11 Seni	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration	PATIENTS diseases sclerosis s:			E IN	1946 Fem	ale 1 5
04 Psyd 08 Psyd 10 Psyd 101 11 Seni 111	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration lile Psychoses : Simple deterioration	PATIENTS diseases sclerosis 's:			CE IN	1946 Fem	ale 1 5 2
04 Psyc 08 Psyc 10 Psyc 101 11 Seni 111 115	choses with other infectious choses with cerebral arterio- choses with convulsive disorder Epileptic deterioration lie Psychoses : Simple deterioration Paranoid types	PATIENTS diseases sclerosis s:			E IN	1946 Fem	ale 1 5
04 Psyc 08 Psyc 10 Psyc 101 11 Seni 111 115 12 Invo	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration le Psychoses : Simple deterioration Paranoid types plutional melancholia; Melancholia	PATIENTS diseases sclerosis s:			E IN	1946 Fem	ale 1 5 2
04 Psyc 08 Psyc 10 Psyc 101 11 Seni 111 115 12 Invo	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration lile Psychoses : Simple deterioration Paranoid types olutional melancholia: Melancholia choneuroses:	PATIENTS diseases sclerosis s:			E IN	1946 Fem	ale 15 2 2 2 2
04 Psyc 08 Psyc 10 Psyc 101 11 Seni 111 115 12 Invo 121 16 Psyc 163	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration le Psychoses: Simple deterioration Paranoid types clutional melancholia: Melancholia choneuroses: Ueurasthenia	PATIENTS diseases sclerosis s:			E IN	1946 Fem	ale 1 5 2 2
04 Psyc 08 Psyc 10 Psyc 101 11 Seni 111 115 12 Inve 121 16 Psyc 163 17 Man	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration le Psychoses: Simple deterioration Paranoid types olutional melancholia: Melancholia choneuroses: Ueurasthenia cic-depressive psychoses: Depressive type	PATIENTS diseases sclerosis s:			CE IN	1946 Fem	ale 15 2 2 2 2
04 Psyc 08 Psyc 10 Psyc 101 11 Seni 111 115 12 Invo 121 16 Psyc 163 17 Man 172 18 Den	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration let Psychoses: Simple deterioration Paranoid types clutional melancholia; Melancholia choneuroses: Ueurasthenia cic-depressive psychoses: Depressive type lentia Praecox (Schizophrenia)	PATIENTS diseases sclerosis s:			CE IN	1946 Fem	aale 15 2 2 2 4 1
04 Psyd 08 Psyd 10 Psyd 101 11 Seni 111 115 12 Invo 121 16 Psyd 163 17 Man 172 18 Deni 181	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration le Psychoses: Simple deterioration Paranoid types chutional melancholia: Melancholia choneuroses: Ueurasthenia lic-depressive psychoses: Depressive type lentia Praecox (Schizophrenia) Simple type	PATIENTS diseases sclerosis s:			CE IN	1946 Fem	aale 15 2 2 2 2 1 1
04 Psyc 08 Psyc 10 Psyc 101 11 Seni 111 115 12 Invo 121 16 Psyc 163 17 Man 172 18 Den 181 182 183	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration lie Psychoses: Simple deterioration Paranoid types solutional melancholia: Melancholia choneuroses: Ueurasthenia dic-depressive psychoses: Depressive type mentia Praecox (Schizophrenia) Simple type Hebephrenic type Catatonic type	PATIENTS diseases sclerosis s:			CE IN	1946 Fem	aale 15 2 2 2 2 4 1 1 1 2 5
04 Psyc 08 Psyc 10 Psyc 1011 111 Seni 111 115 12 Inve 121 16 Psyc 163 17 Man 172 18 Den 181 182 183 184	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration le Psychoses: Simple deterioration Paranoid types oblutional melancholia: Melancholia choneuroses: Ueurasthenia dic-depressive psychoses: Depressive type mentia Praecox (Schizophrenia) Simple type Hebephrenic type Catatonic type Paranoid type Paranoid type	PATIENTS diseases sclerosis s:			CE IN	1946 Fem	aale 15 2 2 2 4 1 1 2 5
04 Psyc 08 Psyc 10 Psyc 101 11 Seni 111 115 12 Invo 121 16 Psyc 163 17 Man 172 18 Deni 181 182 183 184 19 Para	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration lile Psychoses: Simple deterioration Paranoid types clutional melancholia: Melancholia choneuroses: Ueurasthenia cic-depressive psychoses: Depressive type centia Praecox (Schizophrenia) Simple type Hebephrenic type Catatonic type Paranoid type anoia and paranoid conditions:	PATIENTS diseases sclerosis 's:			CE IN	1946 Fem	aale 1 5 2 2 4 1 1 2 5 1 1 5
04 Psyc 08 Psyc 10 Psyc 1011 111 Seni 111 115 12 Inve 121 16 Psyc 163 17 Man 172 18 Den 181 182 183 184	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration lile Psychoses: Simple deterioration Paranoid types clutional melancholia: Melancholia choneuroses: Ueurasthenia cic-depressive psychoses: Depressive type centia Praecox (Schizophrenia) Simple type Hebephrenic type Catatonic type Paranoid type anoia and paranoid conditions:	PATIENTS diseases sclerosis 's:			CE IN	1946 Fem	aale 1 5 2 2 2 1 1 1 2 5 1 1
04 Psyc 08 Psyc 10 Psyc 101 11 Seni 111 115 12 Invo 121 16 Psyc 163 17 Man 172 18 Den 181 182 183 184 19 Para 191 192 21 Psyc	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration le Psychoses: Simple deterioration Paranoid types choses choneuroses: Ueurasthenia dic-depressive psychoses: Depressive type centia Praecox (Schizophrenia) Simple type Hebephrenic type Catatonic type Paranoid type anoia and paranoid conditions choses with mental deficiency choses with mental deficiency	PATIENTS diseases sclerosis s:			CE IN	1946 Fem	aale 1 5 5 2 2 2 2 2 4 4 1 1 2 5 5 1 1 8 8
04 Psyc 08 Psyc 10 Psyc 101 Psyc 101 11 Seni 111 115 12 Invo 121 16 Psyc 163 17 Man 172 18 Den 181 182 183 184 19 Parr 191 192 21 Psyc 23 With	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration lile Psychoses: Simple deterioration Paranoid types clutional melancholia: Melancholia choneuroses: Ueurasthenia choneuroses: Depressive psychoses: Depressive type centia Praccox (Schizophrenia) Simple type Hebephrenic type Paranoid type Paranoid type Paranoid conditions: Paranoid conditions choses with mental deficiency chout Psychoses:	PATIENTS diseases sclerosis s:			CE IN	1946 Fem	aale 1 5 5 2 2 2 2 2 2 4 4 1 1 1 2 2 5 1 1 5 5 1 1 8 8 0 0
04 Psyc 08 Psyc 10 Psyc 101 Psyc 101 11 Seni 111 115 12 Invo 121 16 Psyc 163 17 Man 172 18 Den 181 182 183 184 19 Parr 191 192 21 Psyc 23 With	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration le Psychoses: Simple deterioration Paranoid types choses choneuroses: Ueurasthenia dic-depressive psychoses: Depressive type centia Praecox (Schizophrenia) Simple type Hebephrenic type Catatonic type Paranoid type anoia and paranoid conditions choses with mental deficiency choses with mental deficiency	PATIENTS diseases sclerosis s:			CE IN	1946 Fem	1 5 2 2 2 2 4 1 1 1 2 5 1 1 1 1 8 0 0
04 Psyc 08 Psyc 10 Psyc 101 Psyc 101 11 Seni 111 115 12 Invo 121 16 Psyc 163 17 Man 172 18 Den 181 182 183 184 19 Parr 191 192 21 Psyc 23 Witt	choses with other infectious choses with cerebral arterio choses with convulsive disorder Epileptic deterioration lile Psychoses: Simple deterioration Paranoid types clutional melancholia: Melancholia choneuroses: Ueurasthenia choneuroses: Depressive psychoses: Depressive type centia Praccox (Schizophrenia) Simple type Hebephrenic type Paranoid type Paranoid type Paranoid conditions: Paranoid conditions choses with mental deficiency chout Psychoses:	PATIENTS diseases sclerosis s:			CE IN	1946 Fem	aale 1 5 2 2 4 1 1 2 5 1 8 0 0

Register No. Sex Age 5151 F 48 11714 F 84 RECORD OF DEATHS DURING 1946 Time in Hospital Years Months Days Cause of Death Failure of Compensation. Senile Psychoses due to Asthenia.

PROVINCIAL MENTAL INSTITUTE, EDMONTON

There were 1,210 patients, 995 males and 215 females in the Hospital on January 1st, 1946. There were 1,239 patients, 1,000 males and 239 females, in the Hospital on December 31st, 1946. There was an increase in the population of some 29 patients during the year. Since this Institution was designed for Continued Treatment almost exclusively, only 45 new cases were received, the balance being made up of transfers from other Provincial Institutions, chiefly the Provincial Mental Hospital, Ponoka. There were 58 discharges and 54 deaths.

Such forms of treatment as are indicated in an Institution of this character were administered during the year.

Occupational Therapy, Psycho-Therapy, and Shock Treatments.

Occupational Therapy, Psycho-therapy and Shock Treatments were given to various patients throughout the Institution. Recreational activities were carried out on a seasonal basis. There is still a shortage of staff due to the war, which limits these activities.

General Health.

The general health of the patients was good. Tuberculosis patients were segregated. Frequent X-Ray examinations are made on suspected and incipient cases. Active immunization against Typhoid was carried on throughout the year.

The Farm.

The farm supplied an adequate quantity of milk during the year. Crop conditions were better than 1945, and a greater supply of vegetables was available.

Accommodation.

Accommodation has been taxed to the limit. A small unit for defectives is under construction at present.

Training of Attendants.

Lecture courses were given the attendants during the year.

Guidance Clinic and Police Court Work.

The Superintendent made regular visits to Edmonton for the purpose of examining police court cases, many of which were referred to the Institution for a period of observation while on remand. The value of this service to the Police Court authorities has proven inestimable. The Assistant Superintendent regularly attended the Guidance Clinics held in that City. This service also proved most valuable in the Community.

TABLE No. 1

MOVEMENT OF POPULATION			- m-4-1
D	Males I	remale	s Total
Patients on books January 1st, 1946: In Hospital	995	215	1210
On Probation	13	7	20
Elopements	5	3	8
On Special Parole	6	4	10
Total	1019	229	1248
Admissions During Year:	30	15	45
First Admissions Re-admissions	6	10	6
Transfers		20	52
Total		35	103
10001		_	-
Total Received During Year:	32	20	52
Transfers Re-admissions	6	20	6
Warrant		7	19
Voluntary	4	1	5
Certificates	8	2	10
Mental Defectives Act	6	5	11
Total	68	35	103
Discharged During Year:	11 17 17 17	1	
Recovered	5	2	7
Improved		8	27
Unimproved		7 3	21
Transfers Died		5	54
Total	87	25	112
Patients on Books End of Year:			1000
In Hospital		231	1210
On Probation		7	15
Elopements On Special Parole		1	12
On Special Patole			
Total	1000	239	1239
Total admitted since opening	1857	307	2164
Total discharged since eneming	546	47	593
Total discharged since opening			

TABLE No. 2

PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION OF PATIENTS

Psychiatric:	Males	Females	Total
Patients insane Epileptics (not insane) Mental Deficiency (not insane) All other types (not insane)	16 103	192 8 37 2	1071 24 140 4
Total	1000	239	1239

TABLE No. 3

NATIVITY OF PATIENTS IN RESIDENCE

	Males	Females	Tota	d	Males	Female	es Total
Australia	1	1000	1	Japan	2	1	3
Austria	72	9	81	Norway	27	. 3	30
Belgium	4		4	Poland	48	23	71
Canada	336	120	456	Rumania	0	2	11
China	7		7	Russia	20	13	52
Denmark	9		9	Scotland	99	9	41
England	102	12	114	Sweden	99	1	24
Finland	4	1	5	Switzerland	77	1	8
France	10		10	U.S.A.	127	23	150
Germany	31	5	36	Wales	8	1	9
Holland	3	1	4	Other Countries	20	8	47
Hungary	7	3	10	Unascertained	17		17
Ireland	24	3	27	- minimum	-	****	
Italy	12		12	Total	1000	239	1239

ADMISSION AND	Inder 15 years	M. F.				****				-	1			1		-	*****		-	1		-			2	-		5 3
	ars	H.	-				1000				-				-						-			00	77.	-	1	18
PRINCIPAL PSY	15 to 19	M. F. T.		100 mm mm				-		-	-	-		1			*****		0		61	-		N.C	14	-	1	23
CHOSES	61		1 1	-	-	1		1	1	1	-	1	1	9110	-	****	1*	10	97		10	1		101	70	-	1	34
	25 to 29	Œ,				1				1	64	-			-		- 0	000	3		9	-	*	# 64	0	-	1	47
	2	[iii						1			00						1	101	7	1	64					1	1	34
	to 3	[i4	Ç4		-4		4									-		2.1	10	1	-	1		-			i	33
	CIPAL PSYCHOSES	PSYCHOSES 9 20 to 24 25 to 29 30 to 34 35 to 3	PSYCHOSES 9 20 to 24 25 to 29 30 to 34 35 to 3 T. M. F. T. M. F. T. M. F. T. M. F.	PSYCHOSES 9 20 to 24 25 to 29 30 to 34 35 to 3 T. M. F. T. M. F. T. M. F. T. M. F.	PSYCHOSES 9	PSYCHOSES 9	PSYCHOSES 9	PSYCHOSES 9 20 to 24 25 to 29 30 to 34 35 to 3 T. M. F. T. M. T. M. F. T. M. F. T. M. F. T. M. F. T. M	PSYCHOSES 9 20 to 24 25 to 29 30 to 34 35 to 3 T. M. F. T. M. T. M. F. T. M. F. T. M. F. T. M. F. T. M	PSYCHOSES 9																		

AGE AT ADMISSION AND PRINCIPAL PSYCHOSES

	TABLE No. 5	0.0									
INCREASE OF PATIENTS DURING		THE YEAR, 1	BY P	PRINCIPAL PSYCHOSES	PSYCE	IOSES					
	Total		14	First Admission	ion	Re-/	Re-Admission	lon		Transfer	5.
Psychoses	Ei,	T.	M.	Esq.	H	M.	E.	H	M.	E	
General Paresis	1	0.1		1	1			1	-		
With other forms of Syphilis		-			-		-	-	-	-	
With Epidemic Encephalitis		*****	-	-			1011	1		1	
With other Infectious Diseases			-		1	I		1	-	1	
Due to Drugs atc.											
		1			1						
Cerebral Arteriosclerosis	-	00	23		2	1				-	
ances of Circ.			-			-			-	-	
With Epilepsy 19		1.0	o		đ	-	-	1	.00	1	
Involutional		70	,								
	-	-		1	1					NI	
Due to New Growth			-				1	-	100		
em		010		-	-1-	-		1			
Manie Danzassiva	- 00	NI		6	- ex	.01	1	67	-	11	
		37	4	14	00			i i i	21	00	
Paranoid Conditions		ca :				-		1	1.	1	
Psychopathic Personality			1,	1.		1	1		-		
With Mental Deficiency	0	e -	1	1	73	-			-	4	
Without Psychoses:											
	100	000	-		. 0	-		-	73		
233	10	20	4 00	NO	13.	-			67	10	
		-			-			-	-	1	
		1			1			1	ij	11	
1 22	1 123	103	38	15	455	9		9	32	20	

DECREASE OF PATIENTS DURING THE YEAR, BY PRINCIPAL PSYCHOSES

						Disc	Discharged	P									
		Total	Re	Recovered	pa	Improved	oved		nim	Unimproved	1	Trar	Transfer		Ď	Death	
	Psychoses	M. F. T.	M.	Ei,	T.	M. I	F. T		M. I	F. T.		M. E	F. T.		M.	H	H
01	1. General Paresis	3 1 4					-										00
02																	
03.																	
04	With other infectious Diseases																
0.5	Alcoholic		-								-						1.0
06.	Due to Drugs etc.		4140				1			-					-	-	-
07	Tranmatic		4000	*****			-			*							
000		*	1000				****		+	T					-	-	100
800		-					****		-	100					0	1	9
100				****	1000		-										
91		4 4				-									63	-	00
11		12 2 14				01	61		-	-					6		6
12		1 1		-	1												
13	Due to Other Metabolic D																
14	Due to New Growth	****	-														
10			-			100									17		
16				****											-		-
110		100		-		NI	100								91		
101		0 .	NI	100	10					2					71	-	00
100		0	.0	-	er.				00						100	-	00
100						1						-			מו		10
20.			****			1000	*****										
21		1 1 2							1	1						-	-
23		1 1				-											
23	Without Psychoses:											-	****	4			
	231																
			000	-		-				-			1000		-	-	,
		1	1000						4	NEG			-		and a	-	-
	356	17 1 07		-		, .	-		-4				20	~	9		-
	000	10				-	95								-	****	-
	FI	1	1	1	1	•									1	1	1
	Total	87 25 112	0	03	-	13	8 27		14	7 21			63	~	69	ın	54

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		Life hs Days	12 26	19	21	180	0	180	200	14		10	77	4		7		15			10	12	24											200			00
		Hospital Life Months	97	11			001	[-1	01-	1	10	10	-1-	6	00	70	01	4	ac	4	P	4	9	6	611	1	2	161	9	90	ne	111		10	1	2	
	LIFE	Years	11	312	13	10	9	11	100	20	10	00+	7		64					10	286	4	9	9	22	900	182	*	10	31	60	0 4	12	322	26	28	10
	HOSPITAL LIFE	Age	59	43	86	91	80	74	400	44	70	96	87	80	89	78	81	84	200	200	6.4	40	22	57	40	69	54	26	20	63	202	37	44	09	69	191	21
TABLE No. 7	CAUSE OF DEATH, BY PRINCIPAL PSYCHOSES, WITH AGE AT DEATH AND DURATION OF HOSP	Cause of Death	Coronary Occlusion Pulmonary Tuberculosis		Bronchopneumonia (Terminal)	Cerebral hemorrhage	Chronic Myocarditis	Coronary Occlusion	Senile dementia	Coronary Thrombosis	Papillary Carcinoma of bladder		General homographed		Coronary Occlusion							Coronary Occiusion	Acute Bacterial Endocarditis		Acute Pancreatitis	Bronchopneumonia	Carcinoma of the Stomach			Coronary Occlusion	Occlusion	Multiple tractures of the Skull	Pulmonary Tuberculosis	Cerebral Hemorrhage	Coronary Occlusion	(unresolved)	Perforated Gastric Ulcer with Hemorrhage
	VCHOS	H	6.0	-	9					2		6									00		1.5	70										10			
	AL PS	Total F.	1		-															17.00	1		-	,													
	LINCIP.	M.	6.3	-	110					0		6								-	01		1.0	7.0										10			
	CAUSE OF DEATH, BY PRI	Psvchoses	01. General Paresis		08. Cerebral Arteriosclerosis					10. With Epilepsy		11. Senile									17. Manic Depressive			18. Schizophrenia										19. Paranoia and Paranoid Conditions			
			0		00					1		-								-	-		,	-										-			

	3
	HOSPITAL
	OF
	WITH AGE AT DEATH AND DURATION OF HOSPITAL
	AND
inued	AT DEATH
-Conti	AGE !
No. 7	WITH
TABLE No. 7-	CAUSE OF DEATH, BY PRINCIPAL PSYCHOSES, W.
	PRINCIPAL
	BY
	DEATH,
	OF
	CAUSE

		Days	18		10	24	21	0:	22	
	Hospital Life	Months	64	ගෙන	-	62	47	D 4	0.0	
LIFE		Years	=	10	17	13	040	000		
TAL	Age	Years	34	16	65	13	34	73	66	
CAUSE OF DEATH, BY PRINCIPAL PSYCHOSES, WITH AGE AT DEATH AND DURATION OF HOSPITAL LIFE		Cause of Death	Pulmonary Tuberculosis	Idiopathic Epilepsy Chronic myocarditis with Degeneration	Bronchopneumonia	Bronchopneumonia Miliary Tuberculosis	ry Hemorrhag	Pulmonary Tuberculosis		
YCHOS		Τ.	-	-11-						7
AL PS	Total		1	-						M
PRINCIP!	To	M. I	1	9					1	40
CAUSE OF DEATH, BY F		Psychoses	21. With Mental Deficiency 23. Without Psychosis:	234					236	E E
			NN							

PROVINCIAL TRAINING SCHOOL FOR MENTAL DEFECTIVES, RED DEER

There were 269 patients, 143 males and 128 females in residence on January 1st, 1946. There were 272 patients, 148 males and 124 females in residence on December 31st, 1946. There was an increase of three in the population, however, the facilities of the Institution were taxed to the limit. There were 29 discharges, 12 males and 17 females.

The training programme of the children was carried out to the fullest extent possible.

Recreational Activities.

The patients engaged in seasonal outdoor sports. Parties, picnics, movies and hikes were held as well. There were C.G.I.T., Scout and Girls Club activities also.

Occupational Activities.

Vocational Classes for boys and girls were conducted. There were Carpentry and Farm Instruction Classes for the boys and Dress Making and Fancy Work Classes for the girls.

General Health.

The general health of the patients was remarkably good.

Construction and Maintenance.

Work was commenced for replacement of the tank house of the water tower. The root house was improved. General items of maintenance were attended to.

Farm and Gardens.

Good crops were raised on the farm and ample supplies of vegetables were raised. Some vegetables were shipped to the Provincial Mental Hospital, Ponoka for canning for this Institution. Milk production was increased.

Laundry and Linen Room.

These Departments functioned satisfactorily despite the increasing demands upon the equipment.

Guidance Clinic and Extra Institutional Activities.

The Superintendent conducted the Guidance Clinics when held in the Health Unit in Red Deer, and also saw cases at the request of the R.C.M.P. A number of out-patients were seen at the Institution, and advice and instructions given to the parents.

Table 1 MOVEMENT OF FEEBLE-MINDED POPULATION

				Male	Female	Total
Defectives on books of institution at January 1 In Provincial Training School, Red Deer.	st. 1946 Alberta	i: 1		143	126	269
ADMISSIONS: 1. First admissions, voluntary	Male F					
2. Re-admissions 3. Transfers from P.M.H., Ponoka		1	1			
Total number of admissions				17	15	32
Total number of defectives on the book OUTGOING:	s durin	g 1946		160	141	301
1. Paroles	6	15	21			
2. Transfers	3	2	5			
3. Deaths	3		3			
5. Deaths		-	_			
Total number of outgoing				12	17	29
Defectives on books of the Institution a	t Dec.	31st, 1	946	148	124	272

TABLE 2

MENTAL STATUS OF FIRST ADMISSIONS, RE-ADMISSIONS AND TRANSFERS

	First A	dmi	ssion	s Re-a	dmi	ssions	Tra	ansfe	ers	T	otals	8
Mental Status	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Idiot	2	2	4				one.	100	1000	2	2	4
Imbecile	7	3	10		1	1		200		1	4	11
Moron	7	7	14	1	1	2		1	_	-	-	-
Totals	16	12	28	1	2	3		1	1	17	15	32

TABLE 3

NATIVITY OF INCOMING PATIENTS AND OF THEIR PARENTS

MALLEL OF	Male Fe	atient		Mal	Parents e Patie Female		Fen Male	Paren nale Par Female	ts tients e Total
British Columbia		-	1			6		5	
Alberta	16	12	28	2	4	0	4		1
Saskatchewan		1	1	****		****	1		1
Manitoba				1		1	1	9	1
Ontario		****	in or	1	1	2	3	3	0
Quebec			-	1	1	2			****
New Brunswick					1	1			
Canada		-	****			777	2	1	9
Newfoundland			2127		1	1		****	*****
England		****	****	1		1 0	1		1
France		week.	****	1	1	4	*****	7	9
Germany		1000			1010	****	1	1	1
Russia		41.11	****	1	1000	1	1		1
Poland		44.64	****	1	1	2 2		****	****
Scotland			4000	1	1	2	9		100
United States	4444			2	3	5	2	3	5
Unascertained				5	3	8	9	4	5
	-			17	177				0.0
Totals	17	15	32	17	17	34	15	15	30

TABLE 4a

AGE OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS

			Idio	t	In	abec	ile	1	More	n		Fotal	S
1	Age Group	M.	F.	T.	M.	F.	T.	M.	F.	T.	M	F.	T.
5- 9 10-14		2		2	4 2	2	6 3	5 2	5	5 7	6		11 12
15-19 20-24			1	1	1		1	1	2	3 2	2	9	5
25-29 40-44			1	1		1	1			****		1	1
	Totals	2	2	4	7	4	11	8	9	17	17	15	32

TABLE 4b

AGE OF TOTAL POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS

			Idio	t	In	bec	ile	1	More	on	7	otal	s
1	Age Group	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
5- 9		1	5	6	7	5	12	5	1	6	13	11	24
10-14		11	3	14	15	4	19	10	15	25	36	22	58
15-19		13	7	20	15	10	25	10	8	18	38	25	63
20-24		11	4	15	16	7	23	2	7	9	29	18	47
25-29		3	8	11	10	6	16	1	2	- 3	14	16	30
30-34		7	5	12	2	6	8	1	2	3	10	13	23
35-39	***************************************		5	5	4	6	10	1		1	5	11	16
40-44		1	3	4		4	4				1	7	8
45-49	************************************		1	1	2		2	****			2	1	3
		-	-	-		-	-	-	_	_	_	_	_
	Totals	47	41	88	71	48	119	30	35	65	148	124	272

TABLE 5

OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

A-PAROLES

	In	abec	ile	1	More	on	Years in
Age Group	M.	F.	T.	M.	F.	T.	Residence
5- 9				1		1	0/5
10-14	1		1				2/2
15-19				1		1	13/2
					1	1	3/5
					1	1	13/0
					1	1	13/1
		1	1				0/11
				1		1	5/3 5/3 5/3
				1		1	5/3
	1		122		1	1	5/3
	1	1000	1				0/2
		1	1				4/11
20-24					1	1	5/3
					1	1	5/6
					1	1	10/8
					1	1	5/3
					1	1	10/0
					1	1	/3
25-29					1	1	14/9
				1		1	17/3
35-9		1	1		****		9/5
Totals	2	3	5	5	11	16	145/4

OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

B-TRANSFERS

	Im	beci	le	M	Ioro	n	Years in
Age Group	M.	F.	T.	M.	F.	T.	Residence
15-19				1	1010	1	1/10
20-24		1	1				13/6
					1	1	4/1
25-29				1		1	19/7
Total		2	2	2	1	3	39/7

OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

C-DEATHS

	C-DE	LYTTIO						
	Age	I	diot		N	foro	n	Year in
Cause of Death	Group	M.	F.	T.	M.	F.	T.	Residence
Broncho-pneumonia, severe entro- colitis Broncho-pneumonia, Tracheitis Toxaemia, accidental burns		1 1		1	1		1	15/6 3/2 4/2
Totals	181	2	-	2	1	-	1	22/0

TABLE 6

SOME OF THE TYPES IN RESIDENCE

	I	diot		Iml	oec	ile	More	on	Te	otal	
Classification	M.	F.	T.	M.	F.	T.	M. F.	T.	M.	F. T.	Percentage
Infirmary Type:				o na							
(a) Physically Helpless	15	5 18	34	9	8	17	1	1	25 2	26 51	18.75
(b) Mentally Helpless	28	3 18	46	17	5	22	2	2	47 2	3 70	25.73
M.D. and Epileptic		1 10	24	9	2	11	6 6	12	29 1	8 47	17.28
M.D. and Psychopathic				2		2			2	. 2	
M.D. and Psychotic		. 1	1				1	1		2 2	.73 .73
Mongols and Mongoloid			5	11	6	17	1	1	15	8 23	8.45
	-			-	-	-		-			
Totals	60	49	109	48	21	69	10 7	17	118 7	7 195	71.67

TABLE 7

A					ADMISSION	25.1	- Panasi	e Total
	Male	Femal				Mai	e rema	e rotai
Applications dated:				Applica	ations dated:			
	15	14	29	1944		25	21	46
1928 to 1938	5	8	13	1945		29	19	48
1939	71	7	18	1946		22	19	41
1940	13	13	26			-	-	-
1941	15	14	29		Totals	150	132	282
1942	15	17	32					

TABLE 8 KNOWN DEFECTIVES

		Male	Female	Sex not Designated	Total
Deported 1996 to 1	1934	70	65	1	142
Reported 1926 to 1		9	1	1	17
	936	19	7		26
	0.00	19	14		33
	938	16	16	1	33
	939	15	19		34
	940	14	12		26
î	941	9	9		18
i	942	27	15	1	43
i	943	16	7	2	25
î	944	14	21	2	37
i	945	22	. 11	1	34
1	946	24	20	3	47
		-	market .	-	-
		274	223	18	515
		-			-

GUIDANCE CLINICS

These Clinics, designed for examination, diagnosis, and where possible, treatment, were held regularly in Edmonton and Calgary, and somewhat irregularly at Lamont, Red Deer, Stettler, High River and Rural Edmonton, with occasional examinations elsewhere during the year. There has been increasing demand for the Service of the Clinic personnel, indicating the appreciation of the Service, and the prospects for continued success in this Branch of the Department.

Up to the end of 1946 some 6,000 new cases had been examined since the inception of the Clinics in 1929. Innumerable cases were seen more than once in the process of their treatment, or the periodic guidance to relatives.

Eugenics Board.

During the year the Eugenics Board held seven meetings, one of which was at the Provincial Training School, Red Deer, and one at the Provincial Mental Institute, Edmonton. Some 107 cases were presented to the Board for their consideration.

Fifty-five cases, 24 males and 31 females, underwent sterilization operations in accordance with the recommendations during the year.

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

Place	No. of Clinics	New	Follow-ups Interviews	Case Load Total	Total New Cases Since 1929
Edmonton Edmonton Rural Calgary High River	48* 10 16 1	151 52 80 6	651 2 356 5	802 54 436 11	1855 52† 1589 94
Red Deer Other Clinics	3 3	11 14	2	13 14	142 1920
Totals	85	325	1025	1348	5818

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

†Edmonton Rural Clinic includes cases from Sturgeon and Clover Bar Health Districts. In previous years, these have been included in Other Clinics.

Lethbridge, Medicine Hat and Drumheller statistics have not been itemized in this report, as no clinics have been held at these points in 1946. Cases seen prior to 1946 are included in the total shown under Other Clinics.

TABLE 2
AGE AND SEX CLASSIFICATION OF NEW CASES, 1946

	Edi	mon	ton	Ca	algar	у	Oth	er C	Clinics		Tota	ls	Per	rcent	ages
Age Group	M.	F.	T.	M.	F.	T.	M	F	т.	M	. F	. T.	M.	F.	T.
0- 4	6	7	13	3	3	6	4	2	6	13	12	25	7.2	8.2	7.7
5- 9	16	8	24	19	5	24	26	11	37	61	24	85	34.2	16.3	26.2
10-14	22	10	32	18	14	32	16	13	29	56	37	93	31.5	25.2	28.6
15-19	16	19	35		1	1	8	5	13	24	25	49	13.5	17.0	15.1
20-24	7	9	16	1	2	3	1	1	2	9	12	21	5.1	8.2	6.4
25-29	2	6	8		2	2		2	2	2	10	12	1.1	6.8	3.7
30-34	2	2	4		1	1	1	2	3	3	5	8	1.7	3.4	2.5
35-39	2	1	3	1	2	3				3	3	6	1.7	2.0	1.8
40-44	3	4	7	2	1	3				5	5	10	2.8	3.4	3.1
45-49		4	4	1		1				1	4	5	.6	2.7	1.5
50 and over		4	4		4	4	1	1	2	1	9	10	.6	6.1	3.1
Age unknown		1	1								1	1	0.0	.7	.3
Totals	76	75	151	45	35	80	57	37	94	178	147	325	-	100.0	0

TABLE 3

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

	Edi	mon	ton	C	alga	ry	Othe	r Cl	inics		Tota	als
Intelligence Quotient	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
0-25	2	1	3					1	1	2	2	4
26-50	7	7	14	5	3	8	4	3	7	16	13	29
51-75	12	16	28	10	9	19	18	18	36	40	43	83
Undetermined	6	7	13	1		1	2	2	4	9	9	18
	-	-	-		-	-	-	-	_	-	-	
Totals	27	31	58	16	12	28	14	24	48	67	67	134

TABLE 4a

CLASSIFICATION OF NEW CLINIC CASES—PRE-SCHOOL GROUP

a (I month to o r				Other	
Nature of Case	Edmonton	Calgary	Edmonton	Clinics	Totals
Mental Deficiency: General Retardation	4	8	4	4	31
Epilepsy Other Conditions		1 7	2		13
Totals		16	-6	4	46

TABLE 4b

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

Nature of Case	Edmonton	Calgary	Edmonton	Clinics	Totals
Mental Deficiency: General Retardation	24	19	19	18	80
Behaviour Problem Epilepsy	3	****	2	1	7
Physical Defect Other Conditions	9			9	2 15
Backward in School Behaviour Problem	93	10	11	2	46
Sex Delinquency Epilepsy	1 2		1		4
Other Conditions		13	-	4	41
Totals	. 83	47	42	32	204

TABLE 4c

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

Nature of Case	Edmonton	Calgary	Edmonton	Other Clinics	Totals
Mental Deficiency: General Retardation	. 7			1	8
Epilepsy Physical Defects		1			2
Epilepsy Psychosis:		7	1	3	20
Other than G.P.I. Psychoneurosis Arteriosclerosis	. 11	4 2	2	1	17 3
Other Conditions		3	1_	1	19
Totals		17	4	6	75
Table 4a		16	6	4	46
Table 4b	-	47	42	32	204
Grand Totals	. 151	80	52	42	325

TABLE 5

AGENCIES REFERRING NEW CLINIC CASES, 1946

Edmonton	Calgary	Edmonton	Clinics	Totals
31	8		2	41
	29	52	10	133
0.5	9			34
. 2	16			18
26	7		3	36
. 1				1
1				
. 8	4			12
4	1		26	28
. 6	2		1	9
. 9	4	1000		13
	-	-	-	-
. 151	80	52	42	325
	31 342 25 26 1 1 8 1 8 1 6 9	31 8 4 29 29 25 9 26 7 1	31 8 4 52 52 52 52 52 52 52 52 52 52 52 52 52	31 8 2 2 42 29 52 10 25 9

TABLE 6

MAJOR RECOMMENDATIONS MADE IN REGARD TO NEW CLINIC CASES, 1946

Major Recommendati	ons Edmont	on Calgary	Edmonton	Other Clinics	Totals	
Admission to Provincial Menta Provincial Mental Institute Admission to Provincial Train	17	10		1	28	
other similar Institutions		12	1	1	33	
Treatment by own Doctor or or Treatment given, including dir	other Clinics 8 ect treatment	5	3		16	
for Epilepsy	23	1	8	3	35	
Modified School Programme.	r School life 17 Special Class.	11	5	16	49	
or Vocational Training	20	6	15	13	54	
More Social Contacts, wider	e, Discipline 4	9	7	2	22	
establishment of self-confid	ence 9	2	7	1	19	
Return to Clinic, further exan	nination 11	12	2	3	28	
Placement under careful super	vision 5	5			10	
Other Recommendations		7	4	2	31	
Totals	151	80	52	42	325	

TABLE 7 SUMMARY OF WORK OF GUIDANCE CLINICS SINCE 1936

Year	No. of Clinics	New Cases	Follow-ups, Interviews	Total Case Load	Total New Cases Extmined
Total New Cases from 1929 to 1936					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	67	267	972	1239	5240
1945	60	253	695	948	5493
1946	85	325	1023	1348	5818

TABLE 7a SUMMARY OF NUMBER OF MENTAL DEFECTIVES EXAMINED BY YEARS

	Year	I.Q.: 0 to 25 Probably Idiots	I.Q.: 26 to 50 Probably Imbeciles I.Q.: 51 to 75 Probably Morons	I.Q. Unknown but Mental Deficiency Indicated	Totals		Percentage of New Cases	Cumulative
	M. F.	M. F.	M. F.	M. F.	M. F.	T.	32.0%	799*
1937 1938 1939 1940 1941 1942 1943 1945 1946	5 2 4 1 5 3 3 4 3 2 6 8 6 12 6 5 6 6 2 2	16 14 17 9 19 24 20 14 23 16 18 15 17 11 16 19 15 11 16 13	55 38 51 41 46 46 39 19 43 25 34 16 15 14 26 30 32 24 40 43	16 15 13 8 3 2 3 7 10 7 4 5 9 9	76 54 72 51 70 73 78 52 82 51 61 41 41 44 58 61 57 46 67 67	130 123 143 130 133 102 85 119 103	31.3% 30.3% 35.5% 36.5% 38.7% 32.9% 40.1% 44.6% 40.6%	929 1052 1195 1325 1458 1560 1645 1764 1867 2001

^{*}Includes estimated number of Mental Defectives examined previous to 1936 (32% of total new cases).

M—Males, F—Females, T—Totals.

The Eugenics Board

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

The Eugenics Board held seven meetings during 1946, for the consideration of cases for sexual sterilization. Five of these meetings were held at the Provincial Mental Hospital, Ponoka; one at the Provincial Mental Institute, Edmonton; and one at the Provincial Training School, Red Deer. The dates and places of meeting were:

- 21 February, 1946—Provincial Mental Hospital.
- 21 February, 1946-Provincial Mental Institute
- 18 April, 1946—Provincial Mental Hospital.
- 27 June, 1946—Provincial Mental Hospital.
- 10 September, 1946—Provincial Mental Hospital.
- 11 September, 1946—Provincial Training School.
- 28 November, 1946—Provincial Mental Hospital.

Cases Presented.

Fifty-four male cases and fifty-three female cases were presented to the Board during the year, or a total of one hundred and seven cases. Of these, one male case was deferred, and one male case re-presented, the previous decision being upheld. Fifty-two male cases and all the female cases presented were passed, some subject to the consent of the patient, or parent, or both.

Twenty-three of the one hundred and six new cases presented, or approximately 22 per cent, had been examined previously at one of the Guidance Clinics. This number is made up of nine male and fourteen female cases.

The total number of cases presented and passed by the Board to 31 December, 1946, was 2,273, made up of 1,145 male cases, and 1,128 female cases. Total cases operated on to the end of 1946 was 1,059, made up of 423 male, and 636 female cases.

Operations-VTDF.

There were fifty-five operations performed during the year, twenty-four on male and thirty-one on female cases. All but three of the cases operated on were considered by the Board in either 1945 or 1946. The three cases considered previous to 1945 were all female. There were eight more sterilization operations performed in 1946 than in 1945.

In fourteen of the thirty-one female cases operated on the appendix was removed. In two of the twenty-four male cases operated on hernias were repaired.

All the operations were performed by either Dr. J. W. Richardson of Calgary, or by Dr. J. Ross Vant or Dr. R. H. Horner of Edmonton. One female case was operated on in the General Hospital, Calgary. All the other operations were performed at the Provincial Mental Hospital, Ponoka.

Follow-up Work.

This was again at a minimum due to the continued shortage of staff. It is hoped that 1947 will see sufficient increase in staff to allow much more to be done in securing information on cases returned to the community.

Visiting Board.

The Eugenics Board, acting as a Visiting Board, made a tour of the Provincial Institutions in September. The Provincial Mental Institute, the Provincial Mental Hospital, the Provincial Training School, the Central Alberta Sanatorium and the Auxiliary Mental Hospitals at Claresholm and Raymond, were visited and inspections carried out.

Staff Changes.

Mrs. L. M. Storey (Miss K. Colgrove), continued as Acting Secretary to the Eugenics Board, to the middle of July, 1946. At this time she resigned from the Provincial Health Service. Mr. E. J. Kibblewhite, who had been on leave-of-absence with the Armed Forces, received his discharge in May, 1946, and returned to the Health Department. He resumed duties as Secretary to the Board when Mrs. Storey resigned.

During the year Miss Gladys Jones became secretary to Dr. R. R. MacLean and discontinued her work as Clinic and Eugenics Board stenographer. Her loss was much regretted. Fortunately, Mrs. A. M. James agreed to return for a limited time and worked for the last half of the year. She has given excellent service.

Appreciation.

The Eugenics Board takes this opportunity again to express its thanks and appreciation to Dr. R. R. MacLean, General Superintendent of Provincias Mental Institutions; to Dr. W. J. McAlister, Medical Superintendent of the Provincial Mental Institute; to Dr. D. L. McCullough, Medical Superintendent of the Provincial Training School, and to their respective Staffs, for the cheerful assistance which has been shown them in their visits to the Institutions.

A tabular summary of the Eugenics Board work to the end of December, 1946, is attached. One or two small errors in the table prepared with the Report for 1945 have been corrected.

CASES PRESENTED AND PASSED (To December 31, 1946)

		Yearly Totals			Cumulative Total		
		Male	Female	Totals	Male	Female	Totals
1929		1	3	4	1	3	4
1930		6	36	42	7	39	46
1931		25	63	88	32	102	134
1932		20	43	63	52	145	197
1933	THE CONTRACT OF THE PARTY OF TH	35	56	91	87	201	288
1934		132	82	214	219	283	502
1935		122	97	220	342	380	722
1936		103	88	191	445	468	913
1937		115	87	202	560	555	1115
1000		9.4	84	168	644	639	1283
1939		104	74	178	748	713	1461
1939		52	61	114	801	774	1575
1940	THE PARTY OF THE P	68	50	118	869	824	1693
1941		47	51	98	916	875	1791
1942		67	63	130	983	838	1921
1943		56	73	129	1020	1011	2050
1944		54			1000	1075	2169
1945			64	118	1145	1110	2100
1946		52	53	103	1145	1128	2213

OPERATIONS ONLY

(To December 31, 1946)

	Yearly Totals			Cun	Totals	
	Male	Female	Totals	Male	Female	Totals
1929	 1	2	3	1	2	3
1930	 G	30	36	7	32	39
1931	19	51	64	20	83	103
1932	15	34	49	35	117	152
1933	12	41	54	49	158	206
1934	AG	59	105	94	217	311
1935	 99	54	87	127	271	398
1936	 26	42	78	163	313	476
1937	 57	48	105	220	361	581
1938	96	37	63	246	398	644
1939	 18	29	47	264	427	691
1940	 14	23	37	278	450	728
1941	37	40	77	315	490	805
1049	 24	28	52	339	518	857
1042	 20	31	60	368	549	917
1044	 40	27	40	381	576	057
1045	 18	29	47	399	605	1004
1945			21	400		1050
1946	 24	31	99	420	636	1009

Division of Tuberculosis Control

Dr. A. H. Baker, B.A., M.B., Medical Superintendent and Director

The opening of the Charles Camsell Indian Hospital in Edmonton was the outstanding advance in anti-tuberculosis work in Alberta during 1946. This step, on the part of the Indian Affairs' Branch of the Department of National Health and Welfare, has made available to the Indians a tuberculosis service comparable to that provided other residents. For the first time, we can now say that free diagnosis and free treatment for tuberculosis are available to all residents.

The program of this Division is the Prevention of Tuberculosis. To this end, free clinics and mobile X-ray surveys have provided diagnostic facilities to many, and a follow-up service to ex-patients; sanatorium treatment has been given to many needing it; assistance has been given the Alberta Tuberculosis Association in its splendid rehabilitation efforts; educational work has been carried on by talks, radio addresses, instruction to nurses and medical students; free laboratory services and X-ray film interpretation have been provided many physicians and general hospitals.

A detailed statistical section will be found at the end of this report.

Diagnostic Clinics.

These are regularly operated in Calgary and Edmonton by sanatorium physicians as in previous years, but the pre-war practice of sending examining physicians to outside clinics has yet to be resumed. Not only are new patients examined, but discharged sanatorium patients are re-checked and advised. At points not reached by physicians, X-ray services have again been supplied to all known or suspected cases of tuberculosis, and to contacts of known cases. These films have been made by local hospitals, and sent to Calgary or Edmonton for interpretation. Throughout the year a grand total of 98,633 persons received physical examinations and/or X-ray examinations at the hands of the physicians of the Division in Edmonton and Calgary. This is about 16,000 less than last year, due to a decrease in those attending mobile X-ray clinics. The mobile units operated at 66 points throughout the year.

New Cases of Tuberculosis.

There were found, through all agencies, 1,051 new cases, an increase of 82 over last year. New cases of active pulmonary tuberculosis numbered 487, of active non-pulmonary tuberculosis 20, while inactive cases made up the remainder, i.e., 544.

X-Ray Survey of Calgary.

Plans were made to X-ray the entire city of Calgary during the fall and winter of 1946-47. This was a community effort. His Worship, Mayor Watson, launched the campaign by calling a meeting of citizens representative of the entire city, and at which general approval of the undertaking was voiced and a central survey committee appointed. The hearty co-operation of His

Worship, Mayor Watson and of the city administration, made possible a successful survey.

It was agreed that Mr. F. E. Spooner, general chairman of the survey, and Mr. C. Robert Dickey, Secretary of the Alberta Tuberculosis Association, would provide publicity, clinic facilities, and all details involved in getting the general public to attend, while the medical staff of Central Alberta Sanatorium would provide

the X-ray examinations, interpret the films, send out the reports, and re-ray and examine all persons needing the same.

The survey was a success. Acknowledgment is made of the great contribution made by hundreds and even thousands of women and men who conducted the house to house canvass, and subsequently assisted with much clerical work.

While the survey was not completed in 1946, it may be stated that it was concluded in April. The following are the final figures:

Number X-rayed	68,796
Films suggesting Active Tuberculosis	70
Films suggesting Inactive Tuberculosis	603
Number of normal films	63,348
Number of films considered abnormal	4,938

Pneumothorax Out-Patient Treatment.

For the convenience of ex-patients, these treatments are provided not only in Calgary and Edmonton, but at Lethbridge, Medicine Hat, Drumheller, Red Deer, Stettler, Lacombe and Lamont.

Twenty-two persons received 512 treatments at points other than Calgary and Edmonton.

Work Among the Indians.

With the opening of the Charles Camsell Indian Hospital, Indian patients in Provincial sanatorium beds were transferred. During the first part of the year, this Division X-rayed 3,076 persons for the Indian Affairs' Branch, while later in the year the latter conducted 4,077 examinations. All told, over 7,000 Indians received this diagnostic service. This represents a real advance in preventing tuberculosis, since many of those found to suffer from tuberculosis are now under sanatorium care. We wish Dr. Meltzer, Medical Director, and his staff great success in their efforts to reduce the toll of tuberculosis among the Indians.

Services Rendered to Hospitals and Physicians.

- 1. Laboratory: 857 tests were carried out on specimens sent in.
- 2. Tuberculin for Diagnosis: Tuberculin dilations have been supplied to 11 hospitals, 13 clinics and 7 practising physicians. Patch tests have also been supplied.
- Interpretation of X-ray films: 4,689 X-ray films have been sent in for interpretation to Calgary and Edmonton offices.

An idea of the extent of the X-ray service in the Province may be gained, when it is pointed out that over 300 films of nonsanatorium persons were interpretated every day of the year, excluding Sundays and holidays.

The Alberta Tuberculosis Association.

This voluntary organization, through the Christmas Seal Sale, has extended its assistance to patients by greater service in the occupational therapy and rehabilitation fields. It provides a handicraft teacher in Edmonton, and, in Calgary, a young man who devotes his time to rehabilitation and occupational therapy. It

bears the expense of all supplies. A number of ex-patients have been re-trained and placed in suitable positions.

A full time organizer of mobile X-ray clinics has been provided. This has proved of great value this last year, since improved local organization has resulted in larger clinics.

In its educational policy, this Association has provided two scholarships for physicians to assist them in post graduate work. Two members of the staff availed themselves of this opportunity. It is already apparent that the quality of work of the Division has been improved, and it is sincerely hoped that similar provision may be made from year to year so that the medical standards may be kept on the highest level.

Books and medical periodicals have been placed in the nurses' libraries to assist them in maintaining an up-to-date and efficient service.

These are some of the avenues through which the Alberta Tuberculosis Association has been supplementing the work of the Division. Grateful acknowledgement is made of the ever ready assistance given by Mr. C. Robert Dickey, Secretary of the Association.

Educational Work.

Tuberculosis exhibits were on display at the Calgary Stampede and Edmonton Exhibition and at smaller fairs. These were made possible by the Alberta Tuberculosis Association, which also provided the services of a nurse in charge.

Sanatorium physicians gave courses in Tuberculosis to some training schools in Calgary and Edmonton.

In Edmonton, the clinics for medical students are still conducted by Dr. G. R. Davison. It is believed that these are an important part in our educational program, since medical students are given an opportunity to gain some experience in the diagnosis and treatment of tuberculosis.

Radio talks have been prepared in co-operation with the section of Health Education of the Department of Health. Dr. Baker addressed the annual meeting of the Montana Tuberculosis Association in Helena in September on "The Operation of Mobile X-ray Units in Alberta." Other addresses were given by the medical staff to various groups in Edmonton and Calgary.

Institutional Activities.

Sanatorium work has had its difficulties and these have been largely due to a lack of nursing and domestic staff. Costs have increased due to high commodity prices and to necessary salary adjustment.

Sanatorium beds were decreased in Edmonton in September, since it was felt that the tuberculosis section of the University Hospital was urgently needed for poliomyelitis patients.

Medical Personnel.

Dr. W. J. Downs, who had been on military leave, returned to the staff in Edmonton.

Dr. J. C. McPherson, a former staff member, re-joined the Edmonton staff.

Dr. T. A. Wright, on discharge from the Army, joined the staff of Central Alberta Sanatorium.

Dr. P. Shragge resigned to pursue further study.

Dr. Huxley Johnson replaced Dr. Schragge.

Thus for the first time since the onset of the war, the medical staff was complete.

Medical and Surgical Work.

This has been carried on to greater advantage with the help of increased staff. All patients' records are periodically reviewed and staff opinions obtained as to the proper treatment. Collapse therapy still continues to be used in as wide a field as possible.

Administration Section (Fiscal Year Ending March 31st, 1947)

The total sanatorium patient days in the Province, numbered 131,010, a decrease of 12,103 over 1945, due to closing of the University Hospital section and to staff shortage.

The gross operative cost of Central Alberta Sanatorium	58,081.93
Net cost Gross per patient day cost	227,172.37 4.031 3.21
Net per patient day cost Hospital costs, Edmonton and elsewhere	
COST OF CLINIC SERVICE	
Treatment-Out-patient Pneumothorax Mobile Units	\$ 3,605.00 19,473.72
Other Diagnostic Services Total Clinic costs	7,548.50 30.627.22
Gross cost under Tuberculosis Act	523,580.01

On the basis of population of 803,330 the per capita cost for Tuberculosis Control was \$0.65.

The total number of meals served at Central Alberta Sanatorium was 334,646. The cost of food per meal was \$0.2036, an increase of \$0.028 over that of last year.

Acknowledgments.

Through the kindly interest of Dr. and Mrs. G. R. Johnson of Calgary and several friends, the Sanatorium was presented with a beautiful silver Tea Service and Tray on March 11. This gift, as an expression of confidence in the work being done, is much appreciated, and will serve for many years as a stimulus to greater effort. In passing, may I say that the Sanatorium opened in 1920 and operated for five years under Dr. Johnson's spervision as Director of Medical Services for Alberta of the Department of Soldiers' Civil Re-establishment, and that since that time he has contined as a true friend and wise counsellor in an unofficial capacity.

A second event of unusual interest, took place in February, when Mrs. J. H. Woods personally presented two new movie projectors and screen to the sanatorium. The late Honourary Lt.-Col. J. H. Woods bequeathed to the Medical Superintendent of the Sanatorium the sum of \$1,000.00 to be spent in the interests of the patients. After consideration and consultation with Mrs. Woods, it was agreed that this gift to patients should take the form of better movie service—as made possible by new equipment. We were honoured February 11 when Mrs. Woods personally presented this equipment, and her daughter, Mrs. D. J. McDonald, expressed to the assembly her mother's wish that the gift would bring increased pleasure to the patients.

It is a pleasure to acknowledge the continued interest and help of the Honourable, the Minister, Dr. W. W. Cross and his deputy, Dr. M. R. Bow.

To the members of the medical staff, both in Calgary and Edmonton, I wish to express my appreciation for their loyal, unselfish and efficient services. A similar tribute and recognition is due every other staff member who has contributed to the success of the work.

Throughout another year we have secured the co-operation of the Superintendents and their staffs of the three Edmonton Hospitals providing sanatorium accommodation. To Dr. A. R. Anderson, Dr. A. McGugan, and to the Sister Superior of the General Hospital, the Division of Tuberculosis wishes to express its thanks.

To the Alberta Tuberculosis Association, to the Medical Officers of Health, the Public Health Nurses, the practising physicians, and to the many other individuals and organizations, all of whom have contributed to the progress of Anti-tuberculosis work in 1946, may I, on behalf of the Division of Tuberculosis, express its appreciation.

Donations and Entertainment.

CENTRAL ALBERTA SANATORIUM

CENTRAL ALBERTA SANATORIUM

ENTERTAINMENT—Canadian Red Cross Society, concert; Ukrainian Concert Party. concert; Cribbage Tournament; Billiard Tournament; Picture Shows.

DONATIONS—Children's Hospital Aid Society, gifts; Mrs. J. McKirdy, holly; Leyden's Funeral Home, cigarettes; Pon Yee, books; Alberta Tuberculosis Association, books; Ashdown's Hardware, 2 garden chairs; Coleman Junior Red Cross, cribbage boards and cards; Ladies' Auxiliary, socks; Thursday Night Knitting Club, pocket books; Mr. L. R. Philpott, magazines; Dr. A. J. Palmer, donation to Comfort and Entertainment Fund. Dr. W. Merritt, donation to Comfort and Entertainment Fund; Mrs. J. H. Woods, cheque; Allan's Greenhouse, Bowness, flowers; Canadian Red Cross, parcels; Ontario Loundry, cigarettes and candy; Lakeside Social Workers, Lacombe, scrap books; Mr. M. Quail, book; W.B.L., subscription to "Coronet"; Women's Auxiliary, B.E.S.L., Drumheller, parcels; Ladies' Auxiliary Canadian Legion No. 4, Lethbridge, cigarettes; Highway Women's Institute, Red Deer, parcels; The Devon and Cornwall Sewing Group, parcels; United Church Group, parcels; Anglican Women's Auxiliary, parcels; Catholic Women's League, parcels; Sisters of St. Famille, parcels; Salvation Army, parcels; Canadian Legion, parcels; Department of Veterans' Affairs, parcels; Masonic Order, gifts.

EDMONTON GENERAL HOSPITAL

ENTERTAINMENT—R.C.M.P. Group; Jack Toulson; Welsh Choir, Violin Selections; Ukrainian Youth Carol Singers; Lutheran Church Singers; Ukrainian Orthodox Church Choir; Hallowe'en Party; Four Card Parties; Valentine Bingo Party; Movies; Cameron Orchestra.

DONATIONS—I.O.D.E. Chapters, library books and magazines; War Services Council, magazines; Mr. E. Berg of Yellowknife, money; Bonne Amie Club, gifts; Ukrainian Club, gifts; Woolworth's Club, gifts; Lutheran Club, gifts; Mrs. J. McKenzie, gifts; Mr. Sawchuk, money; Mrs. Patzig, money; Crystal Spring Happy Gang, money; Ramsay Florists, flowers; Red Cross, magazines; Drs. Davison, McPherson, Aylesworth, books; Alberta Tuberculosis Association, Public Library.

ROYAL ALEXANDRA HOSPITAL

ENTERTAINMENT-Bingo Party; Picture Shows.

DONATIONS—Dr. Bell, magazine subscriptions; Dr. J. B. MacKay, magazine subscriptions; Central United Church Ladies' Aid, magazine subscriptions; Miss. M. F. Fraser, magazine subscriptions; Wimodausis Society, flowers. 1 th - 1 th

CLINIC REPORT

50	New Cases of T.B.				No. of		
Place	Pulmon- ary				Exa	minat	ions
Place %	Active	Inactive	Active	Inactive	New Exams.	Review Exams.	Total
Calgary 44 Central Alberta Sanatorium 51 Drumheller 12 Lethbridge 6 Medicine Hat 11 Red Deer 5 Edmonton 208	10 43 3 5 3 113	24 124 7 12 15 16 206	3	1	143 957 135 142 92 103 1169	211 939 89 155 132 95 1350	354 1896 224 297 224 198 2519
Total	177	404	5	1	2741	2971	5712
TRAVELLING CLINICS:		3			191	_ 2	193
Grand Total	177	407	5	1	2932	2973	5905

TUBERCULIN SURVEYS BY PUBLIC HEALTH NURSES.

	No. T	'ested	X-rayed	New Cases
By Public Health Nurses and Teachers.	No. Tested	Positive	X-rayed	Cases
Salvation Army Children's Home, Calgary Buffalo	149	29	22	
Normal School, Calgary Drumheller	119	11	112	Mobile 1
Coffee Counters Ltd., Calgary	1865	64	64	Clinic
Big Prairie Strathmore	50	0	2	Clinic
Stettler	98	9	4	
Medicine Hat (Kinsmen Survey)	442	10	8	1
			66	The same
Total	2750	130	284	2

SURVEYS OF INDIAN SCHOOLS BY INDIAN AFFAIRS' BRANCH

		New Cases Pulmonary Tuberculosis			
Agency	No. X-rayed	Active	Inactive		
Blackfoot (Old Sun, Crowfoot)	204	4	2		
Bloods (St. Mary's, St. Paul's)	287	8	4		
Saddle Lake (Blue Quill)	119	1	5		
Hobbema (Ermineskin) Edmonton (Edmonton Residential School,	147	6	1		
St. Albert)	216	2	1		
Stoneys (Indian Residential)	81	2			
Sarcee	9				
		_			
	1063	23	13		
SURVEYS OF	RESERVES				
Blackfoot	696	7	16		
Onion Lake (Cold Lake, Frog Lake,	000				
Keheewin)	439	17	11		
Hobbema	970	18	27		
Edmonton (Winterburn)	104	1	2		
Saddle Lake	349	6	6		
Stoneys (Morley)	435	8	7		
Stoneys (Nordegg)	21	400 1	1		
		77			
	3014	57	70		

Dr. Meltzer reported that 181 Indians suffering from some form of Tuberculosis were admitted to the Charles Camsell Indian Hospital. Of these 98 were newly discovered cases of Tuberculosis, classified as follows:

Pulmonary Tuberculosis, active	68
Pulmonary Tuberculosis, inactive	15
Non-Pulmonary Tuberculosis, active	14
Non-Pulmonary Tuberculosis, inactive	1

			s Pulmonary reulosis
Mental Hospital:	No. X-rayed	Active	Inactive
Ponoka Patients Staff	843 499	2	2 1
	1342	- 2	3

SUMMARY-CLINICS AND SURVEYS

			New Cas	es Tubere	culosis	
	No. Sessions	Pulm	ionary			
			Inactive	Active	Inactive	& Surveyed
Stationary Clinics	. 337	177	407	5	1	5712
Travelling Clinics	. 1	****	3	1111		193
School, Kinsmen Surveys	. 9	1	1			2750
Indian Surveys	. 14	80	83			4077
Mental Hospital C.A.S. Staff and Edmontor		2	3			1342
		1				738
Mobile Unit Surveys	. 66	191	828			87,898
		450		-	-	-
		452	1325	5	1	102,710

The Indian Affairs' Branch carried out 4.077 of the above examination. The remainder, 98,633, was the work of the Tuberculosis Division.

In the following classification of new cases of tuberculosis, there are included only those in whom the diagnosis has been confirmed; not all those found by Mobile Units have as yet been reviewed.

SOURCES OF DISCOVERY OF NEW	CASES	OF TUBE	RCULOSIS	
	1945	%	1946	%
Clinics	682	70.4	590	56.14
Referred for Admission by family physicians	109	11.2	120	11.42
School Surveys			2	.19
Mental Hospital	7	.7	5	.48
Indian Surveys	32	3.3	163	15.5
Referred by D.V.A.	108	11.1	139	13.23
Provincial Laboratory	21	2.2	17	1.62
Other sources	10	1.0	14	1.33
Central Alberta Sanatorium Staff			1	.09
		-		-
	969		1051	

CLASSIFICATION OF 1,051 NEW CASES OF TUBERCULOS	IS
Active Pulmonary Tuberculosis Inactive pulmonary tuberculosis Non-pulmonary tuberculosis	487 544 20
	1051

CLASSIFICATION OF 868 NEW CASES OF ACTIVE AND INACTIVE PULMONARY TUBERCULOSIS (Indians not included—163)

		%
Minimal	453	52
Moderately advanced	242	28.9
Far advanced	80	9.2
Primary	85	9.8
Tuberculous pleurisy with effusion	7	.8
Tuberculous pleurisy without effusion	1	.1
	-	
	868	
		%
Non-residents diagnosed as having tuberculosis Cases advised to have Sanatorium care (exclusive of	17	1.6
Indians)	345	
Accepted for treatment	302	87.5
Admitted	299	86.6
Clinic cases advised to have Sanatorium care	139	
Accepted	101	72.7
Admitted	100	71.2

EXAMINATION OF CONTACTS OF NEW CASES OF TUBERCULOSIS Number known contacts 2260 Number checked 936 41.41%

One hundred and fifty-nine persons reported to Central Alberta Sataorium for X-ray in 1946 who were not referred by general practitioners or who were not contacts. These films were interpreted immediately and reported verbally. The patient was examined if the appearance of the X-ray film indicated that this was necessary. In this group two tuberculosis cases were discovered, one of which was active and the patient was admitted for tereatment.

TUBERCULIN MAILING LIST, 1946

Clinics and Health Units:	
Calgary Clinic	City Hall, Calgary.
University Outdoor Clinic	Edinonton-
va -t - 3f C MaCallum	Stettier.
Dt II Ciamone	Edmonton Rural Realth One.
Mice M Murray	Red Deer nearm our.
Decelud Health Linit	Diusbui y.
on vyivi vy aldb Timit	TWO HIUS.
Mice U O Mann	Nursing mission, Leutoridae,
Madiant Officer of Health	High River.
Mice M Burton	Rocky Mountain nouse.
Classes Box Health Unit	Edmonton.
Mice C Hutchings	Strathmore.
Mrs. J. Danforth	Black Diamond.
Hospitals:	
Edmonton General Hospital	Edmonton.
Colonel Belcher Hospital	Caigary.
Dr. R. C. Riley	Holy Cross Hospital, Calgary.
The incomplete Hognital	Edmonton.
Poval Alexandra Hospital	Edmonton.
Dwymhaller Hespital	Drommener.
No. 10 Repair Depot. R.C.A.F.	Cargary.
Military Hospital—Currie	Calgary.
Suffield Military Hospital Taber Municipal Hospital	Suffield.
Taber Municipal Hospital	Taber.
Miscellaneous:	
	Mometh
Dr. A. Magid	Dinches Creek
Dr. J. McCrimmon	Colgory
Dr. E. C. Scharf	Tabor
Dr. H. J. Muth	Pad Door
Drs. Parsons and Parsons	Medicine Hat
Dr. B. C. Armstrong Dr. M. S. Miller	Colgary
Dr. M. S. Miller	Cargary.
a saul to the chance flow heattless	of No 2 slutu five battles of No

In addition to the above, five bottles of No. 2, sixty-five bottles of No. 3, and one bottle of No. 4 as well as 1.039 Patch Tests, were mailed to doctors, nurses and hospitals not on the regular mailing list.

LABORATORY WORK REFERRED BY PRACTISING PHYSICIA	INS
Sputum	602
Urinalysis	13
Z.N. of Urine	43
Blood Counts G.P. Inoculation	170
G.P. Inoculation Other examinations, Pleural fluid, Stomach Washings & Swabs	15
Office examinations, Fieural Haid, Diomach Washings & Division	
	857

STATISTICAL SECTION OF SANATORIA

Patients under treatment Jan. 1, 1946	Central 912 Alberta 9 Sanatorium	Edmonton Edmonton El General Hospital	Royal Se Alexandra Hospital	P N University	386 Total
	-				
Patients treated	387	319	61	26	793
Discharged and died	211	201	26	15	453
			-	-	
	176	118	35	11	340
Transferred in	6	21	8	5	40
				-	
	182	139	43	16	380
Transferred out	7	10	6	16	39
Remaining under treatment, Dec. 31, 1946	-	-			-
	175	129	37		341
Patient days	-	-	-	-	-
	73.573	44,917	12,230	3,371	134,091

8,125

114

600

DIAGNOSIS ON ADMISSION OF 407 PATIENTS ADMITTED-1946

DIAGNOSIS ON ADMISSION OF 40				0.	
	Central All Sanatori		Edmonton Sanatoria		Total
No disease			277		
For diagnosis			24		24
Non-Tuberculous	12		2		14
Pleural Effusion	2				2
Tuberculosis, Inactive	5		8		13
Childhood Tuberculosis Tuberculous Pleurisy	3				3
Non-Pulmonary Tuberculosis	4		2		6
Pulmonary Tuberculosis:					
Minimal	28		58		86
Moderately advanced	62		72		134 120
Far advanced	55		65		4
Miliary					
	171		236		407
	-		22		-
No. with sputum positive on admission	100		97		
Sputum positive later	5		8		
Sputum persistently negative	66		131		4610
	171		236		407
Of the above noted re-admissions were	34		43		77
Of the above noted re-admissions were					_
OPERATING RO		TS			
	H	g	6	University Hospital	
	Tag	252	ala	al al	
	Ette	Port	pit	vel	7
	H D	in	les	ni	Total
	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	DH	P
Summary of Pneumothorax Cases:					
Under treatment Jan. 1, 1946	156	96	17	15	284
Started during 1946	43	42	8	1	94 61
Under treatment on Admission	17	37	7	****	61
	216	175	32	16	439
Cases discontinued	59	55	3	11	128
Number transferred out of Province		4	1		5
Number transferred to other sections of					
Division	8	26	8	5	47
	67	75	12	16	180
The destroyers Dec. 21 1040	149	90	20	10	259
Under treatment Dec. 31, 1946	15	22	4		41
Refills:					
Resident	2,354	2.051	384	114	4,903
Out patient	1,943	1,093	216		3,222
				-	

In addition to the above, 512 pneumothorax refills were given to 22 Ex-sanatorium patients at the following places: Drumheller, Lethbridge, Medicine Hat, Innisfail, Lacombe, Lamont and Stettler.

Total..

4,297

3,114

dison a conv. a crives	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
THORACOPLASTIES:					
1st Stage	- 8	****	****	****	8 9
2nd Stage	3		****		3
4th Stage	1				1
	_	_		-	
(8 cases)	21				21
Pheumolysis Phrenicopraxis:	42	9			51
Successful	31				31
Unsuccessful	2	6	1111		8
Intravenous injections	229		7		236
Intramuscular injections	21	141	****	****	21
Aspirations from pleural space Other aspirations	649 14	141			790 18
Intercostal drainage	1	4			5
Bronchoscopic Examination	2	1		011	3
Lipiodol instillations	1	5			6
Pelvic Examination Theroscopies	9	2	40.0	22.2	9 3
Intracavity pressure	1				1
Removal Fish Hook from hand	1				î
Resuturing portion thoro wound	1	****			1
Curretting of Granuloma of Great Toe	1		****	1111	1
Excision ingrown toe nail	2	****		1111	2
Cauterization of papaloma in ear	î	1000			1
Incision and drainage rectal abscess	1	****	****		î
Lumbar puncture	5	9			14
Vital capacity	4	22			26
Introduction intra-pleural trochar & canula Basal metabolism	12	3			4
Plaster sheels	16	7			15
Monaldi drainage		4			4
Cystoscopy			2		2
Electro cardiogram		44.64	1		1
RADIOGRAPHS MADE:		000			
Spine	3,189	659	181	42	4.071
Pelvis	13	4	1	****	45 17
Knee	4	3		****	7
Skull	1	110			1
Sinuses Teeth	2	.2			4
Shoulder	21	14 2	5	7000	40
Wrist	2	-			5 2
Hand	2	2			4
Ribs Ankles	1		-		1
Feet	3	4444	****		3
Sacrum and coceyx	3		****		3
Kidney	2	****		-1111	1 2
Pyelogram	3		****		3
Abdomen G. I. Tract	4	1	1		6
Gall Bladder	6 2	****		1111	6
Leg	-	1	1		3
Hip		2		****	1 2
	-	_	- 100 m		
	3,297	699	189	42	4.227
FLUOROSCOPIC EXAMINATION:					
Pneumothorax cases	4.954	2 220	004	1.00	0
G. I. Tract	4,254	3,279	604	140	8,277
					24
	4.260	3,296	605	140	8,301
Films 16 lerred for Interpretation	2.055	0.004	-	-	-
Provident management	2,055	2,634			4,689

LABORATORY REPORTS

Sputum Examinations:		Central Alberta	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
Positive Negative Urine Examinations Blood Examinations:		1,26 2,10 2,99	2 1,079	190 332 943	44 117 261	2,159 3,630 4,624
Blood Counts Sedimentations Blood Sugar Non-protein nitrogen		75		35 145 5	9 41 2	671 1,547 73 3
Bleeding and clotting Blood typing Calcium Miscellaneous:		1 1	6 1	2		16 17 3
Pleural fluid Gastric lavage Gastric analysis Guinea Pig Inoculation			4 8	- 1	2	150 109 15 232
Spinal fluid Grams stains Cultures		9	3 9 9 31			12 99 31
Other examinations Wassermann Reports Positive Negative		16	3 13	1007		156 16 367
		8,26	3 3,538	1,653	476	13,930
Patients treated	IOTHERA	PY REPO 2,61	7 41			68 2,917
	DENTAL	REPORT				
Patients examined Patients treated Prophylactic Treatments Number of Fillings Number of Extractions Number of Dentures Dentures Repaired and Adjusted Number of Bridges		12 50 14 2 5	6 268 22 7 160 4 83 0 1	62 104 22 71 11		608 578 172 738 238 21 59
I.—CLASSIFICATION OF DISCHA		ATIENTS:				
On A	dmission.		Over		n Discha	
1. No Disease	1	or less :		AA. (Q. I.	U. D.
2. Observation 3. Non-Tuberculous 4. Tuberculosis Inactive	21 17 5	10 10 3	11 7 2		1 6 3	10
	44	24	20	1	1 29	14
5. Childhood Tuberculosis 6. Adult Type Pulmonary Tuber- culosis Clinical:	9	3	- 6		2 6	1
Minimal Moderately advanced Far advanced Positive:	85 64 8	12 8 3	73 56 5	1 1		4 1 7 5 2 4
Minimal Moderately advanced Far advanced Miliary	5 88 135 5	1 1 21 1	4 87 114 4	22	5 39	6 7 18 63 2 3
7. Tuberculous Pleurisy 8. Non-Pulmonary Tuberculosis	3 7	1	3 6		2 1 2	2 3
Total Active Tuberculosis	409	51	358	1 73		42 86
Total Treated Total Untreated		75	378	1 7	2 210	24 72 32 14
Grand Total	453	75	378	1 76	3 234	56 86

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. "AA" Apparently Arrested, "Q" Quiescent, "I" Improved, "U" Unimproved, and "D" Died.

NOTE: Only those in residence over 31 days are classed as "Treated".

II -CLASSIFICATION ON .	ADMISSION OF 45	3 DISCHARGED	PATIENTS:
-------------------------	-----------------	--------------	-----------

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
No Disease	1	0.1	21
Observation		21	17
Non-Tuberculous	13	4	5
Tuberculosis, Inactive	5		5 5
Childhood Tuberculosis	181	213	394
Pulmonary Tuberculosis, Active	3	210	3
Tuberculous Pleurisy	3	4	7
Non-Pulmonary Tuberculosis			-
	211	242	453
			1111
No Disease	1	6	7
Bronchogenic Carcinoma	1 1 4	6	7 1 5
Bronchogenic Carcinoma	1 1 4 2	6	7 1 5 2
Bronchogenic Carcinoma Pleurisy Post-pneumonic Debility	1 1 4 2 1	6	7 1 5 2 1
Bronchogenic Carcinoma	1 4 2 1 1	6 1	7 1 5 2 1 4
Bronchogenic Carcinoma Pleurisy Post-pneumonic Debility Pneumonoconiosis Pneumonitis Silicosis	1 4 2 1 1 4	6 1 3 2	7 1 5 2 1 4 6
Bronchogenic Carcinoma Pleurisy Post-pneumonic Debility Pneumonoconiosis Pneumonitis Silicosis Tuberculosis, Inactive	1 4 2 1 1 4 5	6 1 3 2 3	7 1 5 2 1 4 6 8
Bronchogenic Carcinoma Pleurisy Post-pneumonic Debility Pneumonoconiosis Pneumonitis Silicosis Tuberculosis, Inactive Pulmonary Sensis	1 4 2 1 1 4 5	6 1 3 2 3 3	7 1 5 2 1 4 6 8 3
Bronchogenic Carcinoma Pleurisy Post-pneumonic Debility Pneumonoconiosis Pneumonitis Silicosis Tuberculosis, Inactive Pulmonary Sepsis Empyema	1 4 2 1 1 4 5	6 1 3 2 3 3 2 3	7 1 5 2 1 4 6 8 3 2 2
Bronchogenic Carcinoma Pleurisy Post-pneumonic Debility Pneumonoconiosis Pneumonitis Silicosis Tuberculosis, Inactive Pulmonary Sepsis Empyema Pulmonary Fibrosis		6 1 3 2 3 3 2 2 1	7 1 5 2 1 4 6 8 3 2 2 1
Bronchogenic Carcinoma Pleurisy Post-pneumonic Debility Pneumonoconiosis Pneumonitis Silicosis Tuberculosis, Inactive Pulmonary Sepsis Empyema Pulmonary Fibrosis Bronchiectasis		6 1 3 2 3 3 2 2 1	7 1 5 2 1 4 6 8 8 3 2 2 2 1
Bronchogenic Carcinoma Pleurisy Post-pneumonic Debility Pneumonoconiosis Pneumonitis Silicosis Tuberculosis, Inactive Pulmonary Sepsis Empyema Pulmonary Fibrosis		6 1 3 2 3 3 2 2 1 1	7 1 5 2 1 4 6 8 3 2 2 2 1

IV.—CLASSIFICATION ON DISCHARGE OF 358 "TREATED" CASES OF ACTIVE TUBERCULOSIS AND TUBERCULOUS PLEURISY:

	On Discharge			
On Admission:	Number	Improved	Not Improved	Died
Minimal	77	74	3	
Moderately Advanced	143	124	7	12
Far Advanced	119	52	13	54
Childhood Tuberculosis	6	5	1	*****
Miliary	4	****	2	2
Non-Pulmonary Tuberculosis	6	1	2	2
Tuberculosis Pleurisy	3	3	****	1111
	050	250	90	71
	338	209	20	-11
	358	259	28	-11

V.-SEX:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Male Female	117 94	126 116	243 210
	211	242	453
VI.—SOCIAL STATUS:	-	-	-
Single	99	120	219
Married Widowed	102 8	111	8
Divorced or Separated	2	. 5	7
Separated		_	_
	211	242	453

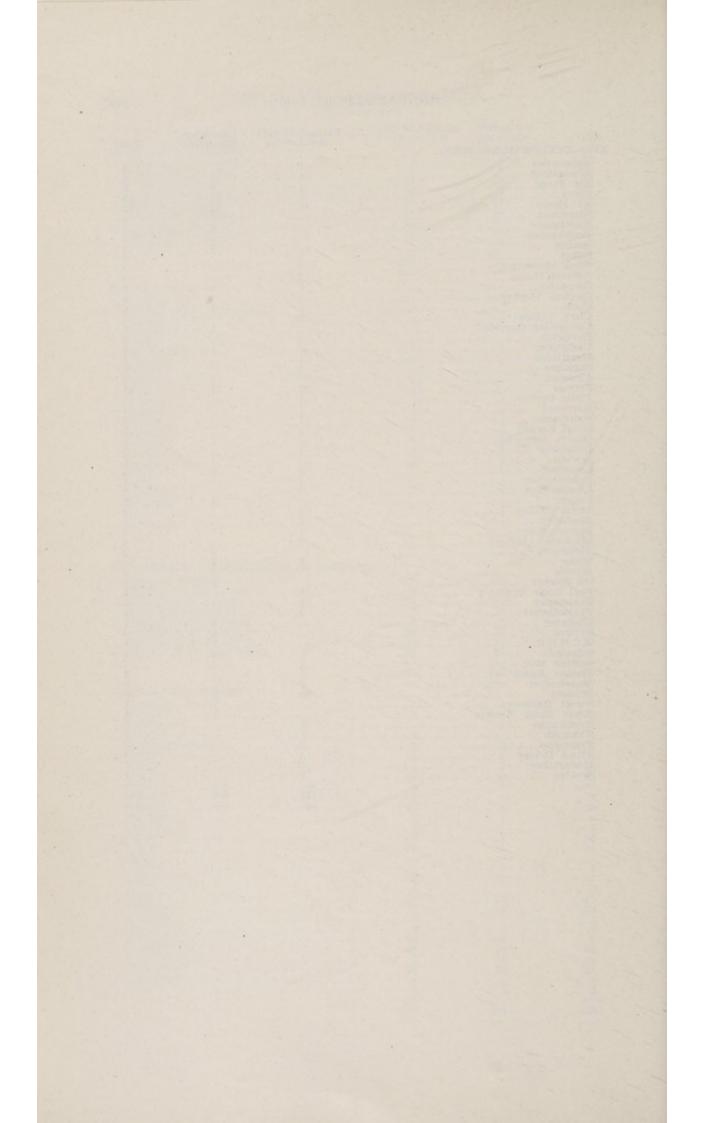
VIII OCCUPATIONS WOMEN.	Central Alberta Sanatorium	Edmonton Sanatoria	Total
XIII.—OCCUPATIONS—WOMEN:	10	19	29
At Home Bookkeeper	10	19	1
Aircraft Repair		1	1
Chambermald	1		1
Clerical Worker	6	7	6 9
Clerk (Store)	î	i	2
Domestic	4	3	7
Housewife	47	- 60	107
Janitress Laundry Worker	2		2
Nurse (Student)	3	1	4
Nurse (Graduate)	4	2	6
Postmistress RRetired	1	1	1
Student	5	13	18
Stenographer	1	4	5
Seamstress	2	1 2	1 4
Teacher Ward Maid	. 2	-	2
Ward Aide		1	1
Waitress	1		1
	94	116	210
XIV.—RESIDENCE OF DISCHARGED PATH CITIES:			- 00
Edmonton	14 66	74	88 66
Calgary Lethbridge	11		11
Medicine Hat	7		7
Drumheller	2		2 5
Red Deer Wetaskiwin	4	1 3	3
WELGSKIWIII		_	-
	104	78	182
TOWNS:			
Brooks	3		3
Camrose	1	1	2
Cardston	1	9	5
- Coleman Grande Prairie	3 2	1	3
Innisfail	2		2
Macleod	1		1
Ponoka	1 3	3	4 3
Vegreville Rocky Mountain House	1		1
Athabasca		7	7
Daysland		1	1
Ft. Saskatchewan	440	3	3
Hardisty Lacombe	****	. 2	2
Lloydminster		3	3
Morinville		1	2
Peace River	****	2	2
Stettler	1111	1	1
St. Paul		4	2 1 4 4 4
Tofield		4	4
Vegreville Wainwright		2	2
Hamirigue	_	-	
	18	43	61
	-		

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
VILLAGES:			9
Black Diamond	2	4444	2
Bentley Barrhead	1	2	2
Bawlf	616	1	1
Berwyn	****	3	3 1
Bonnyville	e141	1 2	2
Bowden Bruderheim	011	1	1
Elnora		1	1
Fahler	100	1	1
Hay Lakes	4111	1 2	1 2
High Prairie	4114	ĩ	ī
Holden Legal	****	î	1
Myrnam		3	3
Mundare		1	1 3
Ohaton	0	1	1
Radway	101	î	1
Seba Beach		1	1
Smoky Lake		3	3
Sylvan Lake	1	1	2
Turner Valley	1	î	1
Provost Viking	1		1
Westlock		1	1
	_	91	39
	8	31	
	77.4		
INDIANS:			9
Cardston	1		3
Gleichen Fort McMurray	1	1	î
Upper Hay River	****	2	2
Edmonton	****	1	1
Hobbema	1111	1	1
Kinuso	****	1	
	4	6	10
	_	_	-
ENLARGED MUNICIPAL DISTRICTS:			
No.			a constant
5	1		1 1
9	1	****	î
16 26	î		1
30	3	****	3
40	4		4
44	2	101	2 2 1
47	1	1111	1
49 53	2		6
55	5	1	
57	1	1715	1
61	600	2	2 2
62		2	1
64	2	î	3
66		1	1
67	1	1111	1
71	1	****	1 2
73 74	1	1	2
81	î	1	2
82	2	2	2 4
83	1	1	2
86	1	1	2
88	1	1 5	2 2 2 6
90	1	4	4
91	1111	i	1
92	****	3	
93		2	2
94	2	5	3 2 2 5
		_	9
	39	35	74
127	_	-	_

IMPROVEMENT DISTRICTS:	Central Alberta Sanatorium	Edmonton Sanatoria	Total
No.			
10	4	1	5
11	1 2	1000	1 2
22	1	****	ĩ
28	5	2000	5
42 46	1 2	4114	2
65	ĩ	****	ī
69	3		3
75 76		6 2	6 2
77		2	2
78		1	1
79 85	1	1	î
87		1	1
101	-3	3	6
102	****	3	3
105	****	3	3
107	***	1 3	1 3
124	1919	5	5
125		3	3
128	1	1	1
134	î	100	î
137	1		1
138	1010	1 2	1 2
143	2	2	4
145 146		1 3	1 2
Special Area	1	3	1
	-		
	30	47	77
Non-residents	8	2	10
		_	-
SUMMARY OF RESIDENCE OF DISCHARG		mo.	****
Cities	104 18	78 43	182 61
Villages	8	31	39
Indian Reserves	4	6 2	10
Non-Residents Enlarged Municipal Districts	8 39	35	10 74
Improved Districts	30	47	77
	911	242	453
	211		455
IX.—RELIGION:			
Agnostic		2	2
Atheist	1		1
Buddhist Christian Reform	1		1
Baptist	11	3	14
Church of England	44	23	67
Jewish Greek Catholic	3 3	27	30
Greek Orthodox	3	15	18
Latter Day Saints	3	28	4 45
Lutheran Mennonite	1	20	1
Methodist	1	2	3
Nazarene Pentecostal	1 2		1 2
Presbyterian	21	9	30
Roman Catholic	42	78	120
Salvation Army Seventh Day Adventist	1		1
United	44	51	95
Undenominational	10	2	12
	211	242	453
	_	_	_

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
XAGE ON ADMISSION:		The state of the s	
From 1 to 9 years	3 2	7 7	10
From 10 to 14 years From 15 to 19 years	16	37	53
From 20 to 29 years	94	73	167
From 30 to 39 years	46 21	38 40	84 61
From 40 to 49 years From 50 to 59 years	20	27	47
From 60 to 69 years	8	11	19
From 70 and over	1	2	3
	211	242	453
	-	-	-
XI.—NATIVITY:			DF 4
Alberta	113	141 33	254 72
Canada (other Provinces)	39	6	9
Belgium	1	1	2
China	4	9	4 3
Czecho-Slovakia	10	9	19
Finland	1	411	1 2
Hungary Holland	2	****	1
Norway	2	4	6
Poland	5	19	24 5
Russia	2	3 2	3
Roumania Scotland		2	10
Sweden	4	6 7	10 18
United States	11 3	i	4
Wales		2	2
Lithuania		1	1
Germany		1	î
Denmark		1	1
	211	242	453
		-	
XII.—LENGTH OF RESIDENCE IN ALBER	TA:		
Born in Alberta	109	140	249
Alberta 1 year or less Alberta 1 to 5 years		8	20
Alberta 6 to 9 years		4	9
Alberta 10 to 14 years	6	8 28	14 53
Alberta 15 to 19 years Alberta 20 to 40 years		15	39
Alberta 30 or more years		35	60
	211	242	453
			-
XIII.—RACIAL ORIGIN:			
Austrian	3	4	7
Belgian Bohemian	1	1	1
Chinese	4	100	4
Czechoslovakian	3	3 2	6 3
Dutch		5	12
English		39	83
French Finnish	8	12	20 5
Greek	10	5	15
German	3 3	1	3
Jewish Hungarian		7	12
Indian	. 19	15	34
Irish Italian		1	1
Lithuanian	. 3	34	37
Metis	. 1	1	2
Negro Norwegian	8	12 14	23 22
Polish	. 1		1
Roumanian	. 2	4	6
Russian Scottish	42	19	61
Swedish	. 7	14	21
Ukrainian Unknown	. 15	43	58
Welsh	. 2	3	5
			450
	211	242	453

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
V.—OCCUPATIONS—MEN:			
Apprentice	1	1011	1
Accountant	4	100	5
Air Force	1	15	16
Army	1	12	13
At Home	1	1	1
Attendant Auctioneer		î	î
Bookkeeper		1	î
Barber		1	1
Baker	1		1
Bank Messenger	1		1
Cabinet Maker	1		1
Carpenter	4	3	7
Clerical Worker	5	444	5
Cook	3	3	6
Clerk (Store)	3	1111	3
Caternillar Operator		1	1
Physician	2		2
Dispatcher	****	1	1
Electrician	1		1 2
Engineer	2		1
Fireman	90	1	64
Farmer	20	44	04
Flour Packer	1	1010	1
Gardener	1		1
Hairdresser			3
Hotel Keeper	3	1	1
Health Inspector	1	1	1
Instructor		1	î
Jeweller	9	6	15
Labourer Laundryman	1		1
Lumberman	2		2
Logger		1	1
Metal Worker	2		2
Machinist	1		1
Manufacturer	1		1
Mechanic (Motor)	2	1000	2
Merchant		2	2
Miner	8	7	15
Marine		1	1
Oil Worker		1	1
Pool Room Operator	1		1
Postmaster	1	****	1
Projectionist	1	477	1
Plasterer		1	1
Retired		4	4
R.C.N.V.R.		1	1
Salesman	6	3	9
Section Man	1	1	2
Station Agent	1		1
Storekeeper	1	0	16
Student	10	6	1
Street Railway	****	1	1
Sheet Metal Worker	-	1	1
Technician	1		1
Tinsmith	1 2		1
Trainman Truck Driver	5		5
Undertaker	1		1
Welder	i		1
II CIACL	-		
	117	126	243
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ANNUAL REPORT

OF THE

Vital Statistics Branch

OF THE

DEPARTMENT OF PUBLIC HEALTH PROVINCE OF ALBERTA

1946

ENORSH TALEKNA

Vital Statistics Branch

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DEPARTMENT OF DOUBLE STREET

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VITAL STATISTICS BRANCH

(Arthur Packford, Deputy Registrar General)

This is the 42nd Annual Report of the Vital Statistics of the Province of Alberta and is for the year 1946. This report shows a considerable increase in the birth and marriage rates and a slight increase in the death rate. The infant mortality rate is the same as the previous year, and there is a very substantial decrease in the maternal mortality rate.

The birth rate is the highest of the five Western Provinces, but is lower than the four Eastern Provinces, and is the highest in the Province since 1921.

The upswing in the marriage rate followed the end of the War, and was general in all countries. The rate is exactly the same as in 1940, which was the highest marriage rate in the Province since 1913.

The death rates from epidemic and contagious diseases show a considerable decline in whooping cough. Scarlet fever is the same as the previous year, a decline in diphtheria, but an increase in tuberculosis and influenza. There was also an increase in the death rates for diseases of the heart and cancer. There was a slight increase in the total of violent and accidental deaths.

POPULATION

The census taken by the Dominion Bureau of Statistics in June, 1946, shows the population as 803,330. All rates in this Report have, therefore, been based on this figure.

BIRTHS

There were 22,184 live births registered during the year. The birth rate was 27.6 per 1,000 population. There were 2,245 more births than in the previous year, and the increase in the birth rate was 3.5. Of the total births, 11,302 were males and 10,882 were females, the ratio being 1,036 males to each 1,000 females. The average for the previous ten years was 1,046 males to each 1,000 females. Twin births numbered 273 and there were 3 triplet births. Illegitimate births numbered 1,218, an increase of 168 from the previous year, the rate being 5.5 per 100 births.

The number of children born to residents of cities and towns of 1,000 population or over was 8,873, and to residents of the rural districts 12,154. Indian births numbered 1,157. The births to residents only in the four large cities were as follows: Edmonton, 3,431; Calgary, 2,559; Lethbridge, 483; and Medicine Hat, 356. The actual number of births in each of these cities was: Edmonton, 5,375; Calgary, 3,688; Lethbridge, 846; and Medicine Hat, 772.

For purposes of comparison the following are the birth rates for Canada, the Provinces, Great Britain, and certain other countries for the year 1946:

	BIRTH	RATES	
Canada	26.9	Eire	22.6
Prince Edward Island	29.7	Australia	23.7
	29.3	New Zealand	25.2
Nova Scotia	33.9	United States of America	23.3
New Brunswick	30.7		20.6
Quebec			18.1
Ontario	23.8	Belgium	22.0
Manitoba	25.9	Czechosiovakia	
Saskatchewan	25.7	Netherlands	30.2
A T PATTERNO A	27.6	Norway	22.5
	22.5	Sweden	19.6
British Columbia			22.6
England and Wales	19.1		25.0
Scotland	20.3	Portugal	20.0
Mouth own Incland	99 €		

MARRIAGES

Marriages registered during the year numbered 9,478, being 2,168 more than in the previous year, and is 1,502 more than the average for the preceding five years, and constitutes a rate of 11.8, the rate for the previous year being 8.8. There were 138 brides of 16 years and under, 2,030 were between the ages of 17 and 19, and 4,326 were between the ages of 20 and 24. There were 145 grooms and 69 brides over 60 years of age. Of these, 36 grooms and 16 brides were over 70, and 17 grooms and 3 brides were over 75.

The number of marriages in the four large cities were as follows: Edmonton, 2,593; Calgary, 1,997; Lethbridge, 392; and Medicine Hat, 345.

The following are the marriage rates for Canada, the Provinces and certain other countries for the year 1946:

MA	ARRIAC	GE RATES	
Canada	10.9	Eire	5.9
Prince Edward Island	8.9	Australia	10.7
Nova Scotia	10.7	New Zealand	12.3
New Brunswick	12.2	United States of America	16.3
Quebec	10.1	France	12.7
Ontario	11.2	Belgium	10.8
Manitoba	11.8	Czechcslovakia	9.8
Saskatchewan	9.9	Netherlands	11.4
ALBERTA	11.8	Norway	9.3
British Columbia	11.7	Sweden	9.3
England and Wales	8.9	Italy	9.1
Scotland	8.9	Portugal	7.6

DIVORCES

7.3

Northern Ireland

Divorces granted by decree absolute in the Province during the year numbered 974, this being 399 more than the previous year and 541 more than the average for the five preceding years; 494 divorces were granted to husbands and 480 to wives. In addition to the divorces, 12 decrees of nullity were issued.

DEATHS

Total deaths during the year numbered 6,601, including 461 Indians, of which number 4,049 were males and 2,552 were females. There were 147 more deaths than in the previous year, the rates being 8.2 and 7.8 respectively. At the time of death, 506 males and 389 females were over 80 years of age. There were no deaths of centenarians recorded.

The number of deaths of residents of the four large cities were as follows: Edmonton, 1,022; Calgary, 996; Lethbridge, 154; and Medicine Hat, 133.

The chief cause of death, diseases of the heart, again shows an increase, the number of deaths being 1,721 compared with 1,643 for the previous year, and the rates being 214 and 199, respectively, per 100,000 population. Diseases of the arteries accounted for 102 deaths as compared with 138 for 1945, the rates being 12 and 14.

Deaths from cancer show an increase of 30, the number being 860 as compared with 830 the previous year, the rates being 107 and 100.

Deaths from pneumonia again showed a slight decrease, the numbers being 362 and 367 and the rates 45 and 44.

Deaths from all forms of tuberculosis increased from 263 to 302. There were 233 deaths due to pulmonary tuberculosis as compared with 200 in 1945, the respective rates being 29 and 25.

There were 89 deaths from influenza as compared with the previous year's total of 58.

Violent deaths (excluding suicides) numbered 456 compared with 472 the previous year. Auto accidents caused 90 deaths, 21 more than the previous year's total of 69. Railways accidents accounted for 15 deaths, 7 more than the previous year. Aeroplane accidents caused 8 deaths, 9 less than the previous year. Agriculture and Forestry accidents caused 2 more deaths than the previous year, the total being 35. Deaths by suicide numbered 100, an increase of 24, and homicides numbered 6 compared with 12 the previous year.

The following table shows the death rates for Canada, the Provinces, and certain other countries for 1946:

DEATH RATES

Canada	9.4	Eire	13.9
Prince Edward Island	9.3	Australia	10.0
Nova Scotia	9.9	New Zealand	9.7
New Brunswick	10.1	United States of America	10.0
Quebec	9.3	France	13.4
Ontario	9.7	Belgium	13.4
Manitoba	9.0	Czechoslovakia	13.7
Saskatchewan	7.7	Netherlands	8.5
ALBERTA	8.2	Norway	9.2
British Columbia	10.1	Sweden	10.5
England and Wales	11.5	Italy	12.0
Scotland	13.1	Portugal	14.7
Northern Ireland	12.5		

MATERNAL MORTALITY

There was a very substantial decrease in maternal mortality, the number of deaths being 32 as compared with 48 for the previous year, the rate being 1.4 per 1,000 live births. The rate for 1945 was 2.4. This is the lowest maternal mortality rate in Canada for 1946, and the lowest in the history of the Province. The rates for Canada, the Provinces, and certain other countries are as follows:

MATERNAL MORTALITY RATES PER 1,000 BIRTHS

Canada	1.8	ALBERTA	1.4
Prince Edward Island	2.1	British Columbia	1.7
Nova Scotia		Scotland	2.3
	200	Eire	1.8
New Brunswick			1.9
Quebec	2.1	Australia	1.5
Ontario	1.6	Netherlands	1.0
Manitoba	1.7	Portugal	6.7
Saskatchewan	1.7		

INFANT DEATHS

Deaths of children under one year of age numbered 945, as compared with 862 for the previous year. The rate, however, is the same, being 43 per 1,000 live births. The following are the infantile mortality rates for Canada, the Provinces and certain other countries for 1946:

INFANT MORTALITY RATES PER 1,000 BIRTHS

Canada	47	Northern Ireland	54
Contract of the contract of th	35	Eire	63
Prince Edward Island	45-0		29
Nova Scotia	46	Australia	
New Brunswick	66	New Zealand	25
Quebec	55	United States of America	34
O-tt-	37	France	67
Ontario			71
Manitoba	47	Belgium	*00
Saskatchewan	47	Czechoslovakia	108
ALBERTA	43	Netherlands	38
Daltick Columbia	38	Sweden	26
British Columbia		¥1. 1	84
England and Wales	43	Italy	
Scotland	54	Portugal	119

Stillbirths numbered 363, being 51 more than 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.

The Province is divided into 17 census divisions. These divisions are further subdivided into organized municipal areas. These municipal areas, which were each originally within the boundaries of a single census division, have been reorganized by the Provincial authorities into larger units, and now, in many cases, part of the new municipality or improvement district is in one census division and part in another.

The following table shows the census divisions divided into municipalities, improvement districts, cities, towns and villages, with the 1946 and 1941 division population figures. The table is arranged to show the population of each of the former municipal districts, improvement districts or parts of districts included in the new units. Each new unit in the table is underlined. The former area or areas which make up the new unit are listed directly beneath.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946

Division and Subdivision	T	otal	Division and Subdivision	Total	
	1946	1941		1946	1941
ALBERTA	803,330	796,169	Division No. 1—Continued:		
Rural					
Urban	354,396	306,586	Division No. 2	60,982	.58,563
	- 22 222	Carrier !	Rural	29,651	29,723
Division No. 1			5. Sugar City	5,116	4,749
Rural			7. I.D.	376	43
1. I.D.			8. I.D. (pt.)	179	200
1. I.D.			37. Sugar City	2,844	2,39
2. I.D.			38. I.D.	1,305	1,28
3. I.D.		169	67. I.D. (pt.)	412	44
31. I.D.			6. Cochrane	3,735	4,23
32. I.D.	440		8. I.D. (pt.)	945	1,10
2. Burlington	1,275		9. I.D.		1,53
33. Flowery Plains			10. Cochrane	1,479	1,58
34. Burlington			8. I.D.	41	
3. I.D.			39. Kerr (pt.)	1977	
4. I.D.		521	40. Castle River (pt.)	41	2.2
5. I.D.			9. Pincher Creek		3,36
6. I.D.			39. Kerr (pt.)	1,422	1.53
35. I.D.			40. Castle River (pt.)	605	61
4. Warner			70. Livingston	1,108	1,21
36. Warner			10. I.D.	4.153	4,14
11. I.D.		4,756	71. I.D.	4,153	4,14
61. I.D.		740	15. I.D. (pt.)	7,171	6,69
62. I.D.	534	615	67. I.D. (pt.)	4,530	4,26
63. I.D.	514	609	68. I.D. (pt.)	2,641	2,42
91. I.D.	917	1,164	16. Bright	2,264	2,42
92. I.D.			39. Kerr		6
93. I.D.	539	738	68. I.D. (pt.)		42
12. Forty Mile		959	69. Bright	1,187	1,15
64. Forty Mile		959	99. Argyle (pt.)	454	47
13. Bow Island		535	100. I.D. (pt.)	249	30
94. Bow Island		535	26. Argyle (pt.)	1,248	1,51
14. Eureka		1,098	99. Argyle (pt.)	1,009	1,23
65. Eureka		1,098	100. I.D. (pt.)	239	27
15. I.D. (pt.)		2,297	27. I.D. (pt.)	95	16
66. I.D.	2,621	2,297	101. I.D.	95	16:
	10000	*****	Waterton Lakes Nat. Park	210	26
Urban	16,229	13.187	Indian Reserves	2,483	2,163
Cities:	10.000				
Medicine Hat	12,859	10,571	Urban	31,331	28,83
Towns:	100		Cities:		
Bow Island		291	Lethbridge	16,522	14,61
Irvine		240	Towns:	125	
Taber	1,760	1,331	Blairmore	1.767	1,73
Villages:		***	Cardston	2,334	1,86
Burdett	110		Claresholm	1,306	1,26
Milk River		335	Coleman	1,809	1,87
Warner	370	296	Granum	238	23

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Division on a Cub division	То	tal	Division and Subdivision	Total	
Division and Subdivision	1946	1941		1946	194
N. I. N. D. Construed			Division No. 4—Continued;		
Division No. 2 —Coneinued:					
Towns-Continued:			Rural—Continued:	39	
Macleod	1.649	1,912	192. I.D.	1	
Magrath	1,295	1,207	Bow West Areat (pt.)	719	9
Pincher Creek	1,148 2,116	994 2,089	96. I.D. (pt.)	176	2
Raymond	2,110	2,000	127. I.D. (pt.)	478	5
Villages: Coeldale	413	290	157. Marquis (pt.)	65	
Cowley	94	125		0.070	
Frank	194	204	Urban	9,270	7,0
Stirling	446	437	Towns:	1.674	1.4
	34.740	15 510	High River	873	7
ivision No. 3	14,749	15,518 12,151	Nanton Okotoks	694	5
Rural	1,927	2,404	Stavely	299	2
21. I.D. Mony Jelande (pt)	1,041	2,404	Vulcan	786	7
121. Many Islands (pt.) I.D.	1.927	2,404	Villages:		
22. I.D.	631	637	Arrowwood	206	2
122. Jubilee I.D. (pt.)	614	633	Barons	270	2
125. I.D. (pt.)	17	4	Black Diamond	1,380	8
23. I.D.	1,308	1,359	Blackie	222	2 2
125 I.D. (pt.)	1,104	1,180	Carmangay	140	1
127. I.D. (pt.)	5 490	179 5 475	Caley Champion	279	3
28. I.D. (pt.)	5,480 5,480	5.475 5.475	Milo	108	ì
123. Bow Slope (pt.)	12	9	Lomend	138	1
34. Acadia (pt.)	12	9	Nobleford	126	1
Army Experimental Range		317	Picture Butte	689	
121. Many Islands		12	Turner Valley	1,157	•
122. Jubilee I.D. (pt.)		305			
Berry Creek-Sullivan Lake	1000		Division No. 5	16,719	18,9
Area (pt.)	661	752	Rural	13,409	15.5
122. Jubilee I.D. (pt.)	661	752	34. Acadia (pt.)	670 670	-
Bow West Area (pt.)	944	1,198 536	241. Acadia (pt.)	2,761	2.4
96. I.D. (pt.)	398 546	662	42. I.D. (pt.) 276. I.D. (pt.)	2,761	2.4
121. 1.D. (pt.)	310	004	47. Starland	2,627	3.2
Urban	3,786	3,367	277. Michichi	879	1.1
Towns:	0,100	0,001	306. Lambion (pt.)	688	8
Bassano	590	582	307. Starland	1.060	1,2
Brooks	1,091	888	Berry Creek-Sullivan Lake		
Redcliffe	1,289	1,111	Area (pt.)	3,684	4,6
Villages:	0.00	* 40	214. I.D. (pt.)	963	1,2
Duchess	207	149	305. I.D. (pt.)	2,383	2.5
Empress Enchant	417	341	306. Lambton (pt.) Sounding Creek-Neutral	338	
Jenner		27	Hills Area (pt.)	3,667	4.5
Tilley			214. I.D. (pt.)	114	
	-	-	242. I.D.	2.087	2.5
Division No. 4	28,402	29,383	273. I.D.	474	
Rural		22,315	331. I.D. (pt.)	992	1,:
25. Barons	19,132	22,315			
97. I.D.	2,757	2.939	Urban	3,310	3,
98. Little Bow		1,363	Towns:	1.756	1,
26. Argyle (pt.)			HannaVillages:	1,756	1,
129. Clear Lake	1.544	1,728	Cereal	111	
130. I.D. (pt.)	232		Chinook	130	
27. I.D. (pt.)	155		Craigmyle		
130. I.D. (pt.)	59		Delia	231	
131. I.D.	96	68	Morrin		
Rural:	0.00	0.500	Munson		
29. Vulcan			Oyen		
127. I.D. (pt.) 128. Harmony			Rumsey	98	
157. Marquis	380		Youngstown	235	
158. Royal	1,174		Division No. 6	157,556	146
30. Blackie			Rural		
157. Marquis (pt.)	641	857	28. I.D. (pt.)	663	
189. Dinton	1,530	1,576	123. Bow Slope I.D.		
31. Highwood	3,497		(pt.)	663	
159. Riley	1,686		32. Turner Valley (pt.)	63	
190. Sheep Creek	1,811		222. I.D. (pt.)	63	
32. Turner Valley (pt.) 160. I.D.	1,540		39. I.D.		
161. I.D. (pt.)	1,461		217. I.D.	2 579	9
191. Stockland	3,061		40. Bow Valley	2,578 1,244	
33. I.D.			219. Bow Valley	1,334	
161. I.D. (pt.)				W. S. Charles in	

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Division and Subdivision	То	tal	Division and Subdivision	То	tal
	1946	1941		1946	1941
Division No. 6—Continued:			Division No. 7—Continued:		
Rural—Continued:	200	000	Rural—Continued:		
247. I.D. 42. I.D. (pt.)	3.840	893 4,061	421. Ribstone 422. Gilt Edge	1,229	1,41
276. I.D. (pt.)	2.840	4,061	423. Battle River	1,086	1,399
43. Serviceberry	2,832	3,013	62. Flagstaff	6,461	7.80
248. Grasswold	1,332	1,400	364. Flagstaff 394. Asquith	998 835	1,53
44. Conrich	4,892	4,273	395. Wheatland	1,465	1,69
220. Shepard	2,841	2,134	424. Kinsella	993	1.10
250. Beddington 45. Springbank	2,051 5,008	2,139 3,241	425. Sterling 455. Iron Creek (pt.)	1,688	1.87
221. Springbank	21222	3,241	73. Beaver (pt.)	1,347	1.51
46. I.D.	3,711	3,598	455. Iron Creek (pt.)	1,347	1.51
222. I.D. (pt.)	286	1,546	Berry Creek-Sullivan Lake	190	14
223. I.D. 251. I.D.	1,693	1,314	Area (pt.)	126 126	14
252. I.D.		333	Sounding Creek-Neutral	100	
254. I.D.	6		Hills Area (pt.)	2,555	3,01
224, 253. I.D.		8,097	331. I.D. (pt.)	2,555	3,01
48. Kneehill 278. Carbon		1.580	Durialo National Park	14	
279. Norquay	1,982	2,184	Urban	7,915	7,16
308. Ghost Pine		2,023 2,310	Towns:	0.17	
309. Stauffer 49. Mountain View		9,800	Castor Coronation	633	62 58
280. Rosebud	2,141	2,233	Hardisty	494	45
281. Beaver Dam		2,327	Wainwright	1,261	98
310. Mountain View		2,580 2,660	Villages:	9.49	99
311. Westerdale		1,085	Alliance	243	23
282. I.D.		1.085	Chauvin	383	34
283, 284. I.D.			Consort	325	26
51. Banff National Park Banff (not)	2,244 2,081	2,545 2,187	Czar Edgerton	121 273	13 25
Indian Reserves	2.006	1,859	Forestburg	243	23
			Galahad	166	14
Urban	111,642	100,311	Hughenden	168	16
Cities: Calgary	100 044	88.904	Irma Killam	345 430	27 34
Drumheller	2,659	2,748	Lougheed		19
Towns:			Monitor		8
Didsbury Gleichen		892 435	Provost Sedgewick	645 417	51 32
Olds		1.337	Strome	233	23
Strathmore	603	560	Veteran	191	15
Three Hills	952	706	Viking	526	45
Villages: Acme	282	285	Division No. 8	64 789	67,63
Airdrie	198	191	Rural	44.097	
Beiseker	272		54. Stettler	6.093	7,16
Carbon		409 371	336. Success 337. Vimy	1,236	1,38
Carstairs Cluny		138	366. Dublin	1,071	1,2
Cochrane	405	298	367. Waverly	1,790	1,89
Crossfield	433		396. Haig (pt.)	811	1,01
Forest Lawn Hussar			397. Lakeside (pt.) 55. Red Deer (pt.)	499 6.681	7.79
Irricana	4 100 00		338. Hays		2.70
Langdon		95	339. Pine Lake	2,011	2,73
Rockyford		201 99	340. Arthur		2,30
Rosebud		212	63. Camrose 396. Haig (pt.)	11,456 413	12,
Swalwell		114	397. Lakeside (pt.)	922	1.00
Trochu	515	480	426. Melrose	2,760	2,9
ivision No. 7	29.928	33,285	427. Evergreen 456. Parkland (pt.)	2,469	2.7
Rural	22,013		457. Lloyd George	2,197	2.9
52. Provost	4,020	4,716	64. Lacombe (pt.)	6,020	6,58
362. Hillcrest			398. Lamerton		2,4
363 Stocks (pt.)			399. Crown 66. Ponoka (pt.)		6.23
392. Vale (pt.)			428. Waterglen		1,4
393. Huamha	831	1,041	429. Fertile Valley	4.348	4,7
53. Paintearth			73. Beaver (pt.)		50
334. Coronation			456. Parkland (pt.) 74. Wetaskiwin (pt.)	398 6,496	7.2
363 Stocks (nt)					8 x 60°
363. Stocks (pt.)			458. Montgomery		3,4

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Division and Subdivision	To	otal	Division and Subdivision	To	otal
Division and Bubarrision	1946	1941		1946	1941
Division No. 8—Continued:			Division No. 9—Continued:		
	20 602	10 997	Burnl Continued:	ALL I	A SUP
Urban	20,692	18,337	Rural—Continued: 80. Jasper National Park	1,588	1,62
Red Deer	4,042	2,924	Jasper (not)	1,419	
_ Wetaskiwin	2,645	2,318	***	4 150	9 10
Towns: Camrose	2.967	2.598	Urban Towns:	4,150	3,18
Daysland	464	438	Rocky Mountain	1.017	80
Innisfail	1,272	1,223	Sylvan Lake		80
Lacombe		1,603 1,306	Villages:	900	95
Ponoka Stettler		1,295	Bentley Bowden		
Villages:			Eckville		13
Alix		360	North Red Deer	698	
Bashaw		494 227	Rimbey	634	41
Bawlf Big Valley		291	Division No. 10	51,881	58,80
Bittern Lake		50	Rural		
Blackfalds	119	113	61. Wainwright (pt.)	333	42
Botha		111 224	451. Merton (pt.)	259	30
Clive Delburne		308	452. Grizzly Bear (pt.) 71. Vermilion River (pt.)	10,572	
Donalda		206	451. Merton (pt.)	1,164	
Edberg		152	452. Grizzly Bear (pt.)	973	1.2
Elnora	. 201	195 172	481. Wellington	1,566	
Erskine Ferintosh		169	482. Vermilion Valley 511. Streamstown	1,819 2,235	
Gadsby	. 120	141	512. Ethelwyn	2,235	
Gull Lake	39	21	72. Minburn		
Halkirk		118	453. Buffalo Coulee	1,130	
Millet Mirror	348 562	325 570	454. Lakeview	1,242	
New Norway	179	169	483. Melberta 484. Birch Lake	1.716 2.130	
Ohaton		53	73. Beaver (pt.)	3,173	
Penhold	134	183	485. Patricia (pt.)	1,080	1,26
ivision No. 9	31,160	32.232	486. Beaver Lake (pt.)	2.093	
Rural			81. Eagle 485. Patricia (pt.)	11,787 771	14.48
55. Red Deer (pt.)	5.006	5,735	513. Ukraina	2,549	
341. Poplar Grove	2.762	3.113	514. Sobor	2,664	
371. Golden West 56. Waterloo	2,244 1,482	2.622 1.402	515. Norma	2,502	
312. Waterloo	1,482	1,402	545. Eagle 82. Lamont	3,301	12.4
57. Raven	2,168	2,254	486. Beaver Lake (pt.)	585	6
342. Raven		2,254	516. The Pines	2,966	
58. I.D. 313, 314. I.D.	116	94 12	546. Wostok		
316. I.D.	40.0	4	547. Leslie	3,064	3,5
344. I.D.	99	72	Urban	9.371	8.8
374, 375. I.D. 315, 345, 346. I.D.	6	6	Towns:	0,011	0,0
64. Lacombe (pt.)	2.634	2.670	Lloydminster (pt.)	698	
400. Lorne		2.670	Vegreville	1,563	
65. I.D.	3,865	4,307	Vermilion Villages:	1,630	1.4
343. I.D.		833	Andrew		3:
401. Lochearn 403. I.D.	1000	3,037 437	Bruderheim		2
66. Ponoka (pt.)	1.685	1.800	Chipman Derwent		
430. Blindman	1.685	1,800	Derwent Hairy Hill		1
67. Last West	1,482	1,898	Holden	382	3
68. I.D	1,482	1,898	Innisfree	258	2
432. I.D.	136	135	Islay Kitscoty		13
69. I.D.	1.979	1,234	Lamont		2
376. I.D. 433. I.D.		768	Lavoy	127	1
433. I.D. 434. I.D.		114 240	Manville	472	35
435. I.D.	67	8	Minburn Mundare		13
436. I.D. (Pt.)	2		Mundare Myrnam		7.
463. I.D.		102	Ranfurly	500	1:
464, 465. I.D. 347, 348, 377, 437 (pt.)	11/1	2	Ryley	338	
(0. I.D. (Dt.)	3 187	3,877	Two Hills	289	
460. Columbia	1.760	1,951	Willingdon	436	4:
461. I.D.	1,046	1,486	Division No. 11	168.331	149 1
462. I.D. 79. I.D. (pt.)	381	3 017	Rural	48.548	
436. I.D. (pt.)	9	2,017	73. Beaver (pt.)	2.629	2,99
466. I.D. (pt.)	1.680		487. Cornhill 74. Wetaskiwin (pt.) 459. Bigstone (pt.)	2,629	
437 (pt.), 468. I.D.			Aro Plant (pt.)	9 9	

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Division and Subdivision	Т	otal	Division and Subdivision	То	tal
	1946	1941	One into	1946	1941
Division No. 11—Continued:			Division No. 12—Continued:		
Burnel Continued:			Burel Centinued		
Rural—Continued:	11.629	12,741	Rural—Continued: 529, 530, 561, 587, I.D.	100	
488. Black Mud	3,798	4.239	108. I.D. (pt.)	131	106
489. Liberty	4,394	4,883	612. I.D. (pt.)	131	100
490. Pioneer	3,437	3,619	109. I.D. (pt.)	1,189	1,209
76. I.D. (pt.)	1,385	1,479	583. I.D.	830	889
491. I.D. 83. Strathcona	1,385 6,383	1.479 6.725	612. I.D. 615. I.D.	319	27
517. Clover Bar	2,515	2.740	616. I.D.		4
518. Strathcona	3,868		110. I.D. (pt.)	45	3:
84. Stony Plain	11.816	10,061	589. I.D. (pt.)		-
519. Spruce Grove	6.923	4,824	590. I.D. (pt.)	45	3:
520. Inga	2,693	3,013	111. I.D. (pt.) 591. I.D. (pt.)		
521. Tomahawk	1,960 240	2,198 26	591. I.D. (pt.)	1200	
551. Morthen (pt.) 90. Sturgeon (pt.)	5.429	5.115	Urban	1,874	1.93
548. Sturgeon	5,429	5.115	Towns:	1,014	1,50
91. Morinville (pt.)		3,542	Edson	1,571	1.49
93. Lac Ste. Anne (pt.)	3,248	3,542	Villages:		
93. Lac Ste. Anne (pt.)	5,109	5,654	Entwistle		21
550. Woodford		3,045	Mayerthorpe	303	21
551. Morthen (pt.) Elk Island National Park	2,519	2,609	Division No. 13	30,352	33,17
Indian Reserves		997	Rural	27.775	30.80
***************************************			71. Vermilion River (pt.)	441	58
Urban	119,783	99,793	541. I.D. (pt.)	441	58
Cities:			85. I.D.		513
Edmonton	113,116	93.817	541. I.D. (pt.)	132	153
Towns: Beverly	1.171	981	571. I.D. 86. St. Paul	9.234	359
Fort Saskatchewan	921	903	542. Lincoln	1.079	1.22
Leduc		871	543. Laurier	2,792	3.06
Morinville		580	544. Champlain	1,964	2,213
St. Albert		697	573. St. Vincent (pt.)	1,241	1,35
Stony Plain		566	574. St. Lina	1,267	1,347
Tofield	608	551	605. Ashmont (pt.)	891	924
Villages: Alberta Beach	101	59	87. Bonnyville 572. Bonnyville	1,737	1.86
Hay Lakes		154	88. St. Vincent	1.628	1.96
Kapasawin			573. St. Vincent (pt.)	1,628	1.96
Onoway	175	156	89. Smoky Lake (pt.)	4,103	4.83
Sangudo		173	575. Vilna	3,087	3,590
Seba Beach		84	605. Ashmont (pt.)	872	1,069
Wabamun	1000	201	635. I.D. (pt.)	144	178
Division No. 12	16 718	17.431	601. I.D.	5,719 1,363	6,259
Rural			602. I.D.	1.817	1.949
77. I.D.	1,645	2,004	603. I.D.	1,175	1.311
522. I.D.	1.645		604. I.D. (pt.)	288	313
78. I.D.	2,016	2,487	631. I.D.	953	1,00
493. I.D. 495, 524. İ.D.	71 24	34 35	632. I.D. 633. I.D.	11	11
523, I.D.		99	633. I.D. 634. I.D. (pt.)	92	13
553. I.D.	1.065	1.318	102. I.D. (pt.)	2.577	2.74
554. I.D.	773	1,001	604. I.D. (pt.)	312	400
494. I.D.			634. I.D. (pt.)	140	216
79. I.D. (pt.)		1,862	635. I.D. (pt.)	919	1,013
466. I.D. (pt.)		1,803	664. I.D. (pt.)	32	
498. I.D. 93. Lac Ste. Anne (pt.)	2.148	2,484	666. I.D. 695. I.D.	832 342	75 35
582. Kitchener	2,103	2,458	121. I.D. (pt.)	13	5
612. I.D. (pt.)	45	26	661, 662. I.D.		3
94. Pembina	2,710	2,667	663. I.D.	1	1
552. Pembina	2,710.	2.667	664. I.D. (pt.)	0.00	33
95. I.D.	2,236	2,560	Indian Reserves	1,963	1,855
525. I.D. 526. I.D.	52 72	43 225	Urban	2 577	9.90
527. I.D.	356	344	Towns:	2,577	2,367
555. I.D.	860	930	St. Paul	1.187	1.018
556. I.D.	387	291	Villages:	-	
584. I.D.	472	690	Bellis		12
585. I.D.		37	Bonnyville	730	600
586. I.D. 96. I.D.		0.5	Elk Point	338	307
	166	85	Vilna	322	31
	1111	20			
528. I.D.	111	30	Division No. 14	44 540	47 896
		30	Division No. 14	40.075	47,895 44.520

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Distalan and Subdivision	Tot	tal	Division and Subdivision	Tot	tal
Division and Subdivision	1946	1941		1946	1941
Division No. 14—Continued:	1		Division No. 15—Continued:		
			Rural—Continued:		
Rural—Continued:	3,924	4,798	675, 676, 677, 678, 679,		
606. I.D. (pt.)	928	1,066	I.D. 620, 621 (pt.), 647, 648,	****	
90. Sturgeon (pt.)	2,619	3,166	674. I.D.	211	26
578. Opal	2,619	3,166 2,838	111. I.D. (pt.) 622. I.D. (pt.)	211	1:
91. Morinville (pt.)	2,563	2,838	623, 650, 651. I.D.		33
92. Westlock 579. Hazelwood (pt.)	9,705	10,469 653	681. I.D. 709. I.D.	99	93
580. Lockerbie (pt.)	1,903	2,309	710. I.D.	112	8
608. Tawatinaw	2,123	2,256	591 (pt.), 621 (pt.), 624, 649, 680, 711.		
610. Shoal Creek	2,665	2,775	I.D		ï
93. Lac Ste. Anne (pt.) 580. Lockerbie (pt.)	2,487	3,006 723	123. I.D. 700, 702. I.D.		i
581. Pershing	1,973	2.283	672, 673, 701, 703. I.D.	2,731	2.54
102. I.D. (pt.)	3,392	3,557	124. I.D. 730. I.D.	88	15
607. I.D. (pt.)	997	1,123	731. I.D.	691 866	69 75
636. I.D. (pt.)	1,508	505 1,412	732. I.D. 733. I.D.	1,086	93
726. I.D.	378	489	125. I.D. 705. I.D.	2,713	3,04
103. Cartier 637. Cartier	1,423	1,397	734. I.D.	116	9
104. I.D.	1,909	2,112	735. I.D.	200	1.08
636. I.D. (pt.)	1.750	1.941	864. I.D. 765. I.D.	1,312 856	1,38
105. Nelson	1.733	1,808	794. I.D.	201	20
638. Nelson 106. Grosmont	1,733 835	1,808 863	704. I.D.	1.719	1,68
668. Grosmont (pt.)	835	863	706. I.D.	422	41
107. I.D. 639. I.D.	2,925 805	3,166 903	707. I.D. 708. I.D.	274	20
640. I.D.	976	1,029	· 736. I.D.	149	13
668. Grosmont (pt.) 669. I.D.	27 501	695	737. I.D. 738. I.D.	206 608	7:
698. I.D.	122		767. I.D. (pt.)	19	4 25
699. I.D. 108. I.D. (pt.)	494 978	1.088	130. I.D. 766. I.D.	3,571 725	4,32
611. I.D.	978	1.088	767. I.D. (pt.)	81	87
122. I.D. 696. I.D.	1,339	281	795. I.D. 796. I.D.	286 2,479	2,7
697. I.D. 727. I.D.	563 173	588 57	131. I.D. (pt.)	1,624 274	1,83
727. I.D. 728. I.D.	33	79	325. I.D. 826. I.D.	903	9
729. I.D.	327	167	855. I.D.		58
Urban	4,471	3,373	824, 854. I.D. Indian Reserves	938	1,1
Towns: Athabasca	747	578	Urban	9.749	1.46
Villages:		910	Towns:	2,742	1,40
Barrhead Clyde	1 222	399 160	Peace River	997	8
Lac La Biche	642	517	Fahler	279	2
Legal Radway		462	Grouard High Prairie	643	3-
Smoky Lake	457	430	McLennan	823	
Waskatenau		237 590	Division No. 16	28,733	30,34
		100	Rural	23,480	
Division No. 15		16,020	111. I.D. (pt.) 741. I.D. (pt.)	1	
108. I.D. (pt.)	638	917	742. I.D. (pt.)	1	
641. I.D. 670. I.D.	31	875 42	127. Grande Prairie	9,505	10,68
671. I.D.	2		740. Bear Lake	2,575	2,6
109. I.D. (pt.) 613. I.D.			741. I.D. (pt.)		1,6
614. I.D.	1	3	769. I.D. (pt.)	78	
642. I.D. 643. I.D.		8	770. I.D. (pt.)	352	
110. I.D. (pt.)	. 76	75	772. I.D.	1.087	1,2
589. I.D. (pt.) 590. I.D. (pt.)	53	64	132. I.D. 769. I.D. (pt.)	2.279	
617, 644, 645. I.D.	4		797. I.D.	964	8
618, 619, 646. I.D. 622. I.D.	15		827. I.D.		1

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Divisions and Subdivisions	То	tal	Divisions and Subdivisions	Tot	tal
Divisions and Subdivisions	1946	1941		1946	1941
Division No. 16—Continued:			Division No. 17—Continued:		
133. Spirit River	1,404	1,828	Rural—Continued:	- 1	
829. Spirit River	1,404	1,828	760, 820, 848-850. I.D.	970	201
134. I.D.	2,560 602	2,728 644	129. I.D. 761, 762. I.D.	378	335
770. I.D. (pt.)	358	393	763, 793. I.D.	243	193
801. I.D.	76	93	852, 853. I.D.	52	75
830. I.D.	980	1,022	880, 881. I.D.	61	61
831. I.D.		538	791, 792, 821-823, 851. I.D.		
860. I.D. 861. I.D.	21	28	131. I.D. (pt.)	136	51
135. Peace		2,003	882. I.D.	127	42
857. Peace	1,791	2,003	915. I.D.	9	
136. Fairview	2,074	2,326	137. I.D.	112	45 45
858. Fairview	2,074 1,641	2,326 1.844	878, 879, 910. I.D. 877,908. I.D.	112	-1.
138. I.D. (pt.) 886. I.D.	451	516	138. I.D. (pt.)	2,033	1,970
887. I.D.	578	666	946. I.D.	1,657	1,57
916. I.D.	290	268	947. I.D.	55	81
917. I.D.	322 2,110	394 2.506	977. I.D. 978. I.D.	129 192	132 182
139. I.D. 859. I.D.	884	824	143. I.D.	2.555	2.316
888. I.D.		564	782. I.D.	35	32
889. I.D.	446	681	843. I.D.	2,520	2,284
890. I.D.		62	781, 783, 784. I.D.		-
891. I.D.	182	164 80	144. I.D.	89	37
919. I.D. 920. I.D.	55 87	131	907. I.D. 1092. I.D.	65	37
918, 921. I.D.			909, 938, 940, 969-971,	001	
Indian Reserves	115	161	1000-1002, 1029-1031, 1059, 1119, I.D.		
Urban	5,253	4,000	145. I.D.	58	90
Towns:	0.000		945, 975. I.D.	16	47
Grande Prairie	2,267	1,724	1005. I.D. 911-914, 941-944, 972-	42	43
Villages: Beaverlodge	443	331	974, 976, 1003, 1004,		
Berwyn	308	206	1032-1036. I.D.	and the	
Clairmont		102	1037, 1038. I.D	379	278
Fairview	487	432	146. I.D.	382	279
Grimshaw	287 288	169 247	1006, 1016. I.D. 948-951, 979-982, 1007-	3	1
Hythe Rycroft	and the late of	241	1011, 1017-1020, 1039-		
Sexsmith		325	1042, 1067-1071, 1096-		
Spirit River	362	276	1098. I.D.		
Wembley	237	188	147. I.D. 1065. I.D.	1,339	1,378
Division No. 17	10.131	9,712	1094. I.D.	612	559
Rural	10,131	9,712	1124. I.D.	314	323
102. I.D. (pt.)		3	1125. I.D.	90	113
694. I.D. (pt.)		3	1066, 1123. I.D.	10	13
121. I.D. (pt.)	219	224	148. I.D. 1122. I.D.	12	1:
693. I.D. (pt.)		26	1129-1134, 1147-1152,	16	
723. I.D.		139	1179-1184, 1209-1214,		
725, 756, 786, I.D.	17	47	1238-1243. I.D.	240	550
752, 753. I.D.	29	12	149. I.D.	52	6
691, 692, 721, 722, 724,			1138-1140. I.D. 1099-1101, 1135-1137,	52	67
751, 754, 755, 785. I.D.			1153-1158, 1185-1190,		
128. I.D.	381	356	1215-1220, 1244-1249.		
757, 758, 759, 787, 790.			I.D.		
ID.		1	Wood Buffalo National	24	
817, 818, 847. I.D.	335	355	Park (pt.)	2.361	2.507
819. I.D.	000	900	Andreit Reserves	2,001	2,00

TABLE 1.—GENERAL SUMMARY OF BIRTHS, DEATHS AND MARRIAGES IN THE PROVINCE OF ALBERTA BY DIVISIONS, CITIES TOWNS AND VILLAGES OF 1,000 POPULATION AND OVER, BY PLACE OF RESIDENC, 1946

1	rriages	Ma	9478	230 2397 2397 2397 2397 2398 2485 2485 2485 2485 2485 2485 2485 248	1997 89 2593 392 345 180 104	123 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	ars	H.	2060	2841 2842 2842 2842 2843 2843 2843 2843 2843	344 336 46 52 14 16	104941-01-E14E
	5 years and over	M.	3393	258 258 111 171 172 123 292 292 292 1138 1138 1138 1144 444	535 535 613 83 83 83 20 20 20 20 20 20 20 20 20 20 20 20 20	1688317414500
	years	E.	88	251-10 : 221-13461-17428	10 2 2	
	1-4 y	M.	114	25 12 12 12 12 12 12 12 12 12 12 12 12 12	11 2 1	
DEATHS	Under 1 year	64	403	234cc1 2551 256 256 256 256 256 256 256 256 256 256	33 944	0000-1-01-1
I	Un.	M.	542	25 6 8 10 10 10 10 10 10 10 10 10 10 10 10 10	81 81 12 12 51	
		F.	2552	101 205 88 88 89 209 209 201 111 114 114 114 114 114 114 114 114 1	389 395 63 58 118 211	100Hr0rr08H4H
	All Ages	M.	4049	151 1323 1323 1323 148 148 148 153 153 153 153 153 153 153 153 153 153	622 622 827 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85	100012122012111
		Total	6601	252 528 113 1433 1433 1415 1415 1415 1415 1415	996 31 1022 154 133 58 56	141.022.032.141.02.02.02.02.02.02.02.02.02.02.02.02.02.
	Still-	14	10882	838 838 200 2030 2030 2030 868 8624 2334 2038 2038 2038 2038 2038 2038 2038 2038	1277 284 1649 223 184 87 87	882588888888888888888888888888888888888
No.	Births isive of births)	M.	11302	205 205 205 205 203 203 203 203 203 203 203 203 203 203	1282 1782 1782 260 260 172 103 48	12828884548888
	(Exclus	Total	22184	842 1733 405 757 757 765 1883 1883 1883 1788 1788 1788 1718 1718	2559 135 3431 483 356 190 91	8534 8535 8535 854 844 845
	Divisions, Cities and Towns		TOTAL FOR THE PROVINCE	Division No. 1 Division No. 2 Division No. 3 Division No. 4 Division No. 5 Division No. 6 Division No. 10 Division No. 10 Division No. 11 Division No. 12 Division No. 12 Division No. 13 Division No. 14 Division No. 14 Division No. 15 Division No. 15 Division No. 15 Division No. 16 Division No. 16 Division No. 17 Division No. 17 Division No. 17	CITIES: Calgary Calgary Drumheller Edmonton Lethbridge Medicine Hat Red Deer Wetaskiwin	TOWNS: Beverly Blairmore Brooks Cancoks Cardston Claresholm Coleman Edson Grande Prairie Hanna High River Innisfail Lacombe

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- [64		SNC	years	E)	68
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111111111111111111111111111111111111111		ALBERTA BY DIVISION OF OCCURRENCE, 1946 Deaths	year	E4	406
1 1401400 440044	1 67		Under 1	M.	541
992446009485064	H4	IN THE PROVINCE OF AND OVER, BY PLACE		F.	2553
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81122222222	00 00	IN THE AND OV	A	Total	6605
	32		Still-	E.	10841
EEE 0 EEE EEE EEE EEE	88) MARRIAGES POPULATION		M.	11288
852 852 852 852 852 852 852 852 853 853 853 853 853 853 853 853 853 853	55	ON B	(Exclusive of births)	Total	22129
Macleod Magrath Olds Olds Pincher Creek Ponoka Raymond Rocky Mountain House Redcliffe St. Paul Stettler Taber Vegreville Vegreville Vermilion	VILLAGES: Black Diamond Turner Valley	TABLE 2.—GENERAL SUMMARY OF BIRTHS, DEATHS ANI AND VILLAGES OF 1,000	PROVINCE AND DIVISIONS		TOTAL FOR THE PROVINCE

TOWNS	S	egeirr	Ma	9478	429	102	174	106	2397	732	156	463	2885	7.1	230	267	144	237	20
CITIES,	S	thridi	IIIS	359	16	252	7	60	68	1 60	-1	17	80	9	6	20	00	10	4
		5 years and over	(H	2058	78	151	522	21	531	189	45	96	220	20	57	74	333	37	23
INCLUDING		5 ye and	·M.	3398	119	252	70	55	844	305	66	145	930	51	78	101	61	96	34
SNO		1-4 years	H.	89	1	13	00		11	7	6.1							61	
NCE, 1946		1-4	M.	113	63	10		631		11		**							
SERTA BY DIV	Deaths	year .	E.	406	15	50	10	63	780	250	00	14	87	1	26	233	18	6	13
ALE	I	Under 1	M.	541	21	10	12	4	114	2 02	10	19	128	9	22	36	20	19	-
NCE OF PLACE			E.	2553	94	214	65	53	620	230	52	107	629	28	06	100	54	48	21
HE PROVINCE OVER, BY PLA		All Ages	M.	4052	142	317	82	19	975	349	113	168	1085	09	120	139	02	122	42
IN THE AND OV		A	Total	6605	236	531	150	84	1595	579	168	275	1744	98	210	239	141	170	96
		Still-	E.	10841	442	958	238	122	2205	980	249	516	2707	116	404	549	309	341	158
MARRIAGES	Sirthe	sive of S births)	M.	11288	429	1050	216	115	2248	970	276	230	2880	139	479	521	316	393	120
1,000	-	(Exclus	Total	22129	871	325	454	237	4453	1950	525	1046	2287	255	883	1070	625	734	308
TABLE 2.—GENERAL SUMMARY OF BIRTHS, DEATHS AND VILLAGES OF		PROVINCE AND DIVISIONS		FOTAL FOR THE PROVINCE	Division No. 1		Division No. 4		Division No. 7		Division No. 9	4	No.	Division No. 12			Division No. 15		Division No. 17

TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS, IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHERS, 1946

		ALBERTA Rural Urban	Brural Urban City of Medicine Hat Town of Taber	Rural Urban City of Lethbridge Town of Blairmore Cardston Claresholm Coleman Magrath Pincher Creek Raymond	BIVISION No. 3 Rural Urban Town of Brooks Redcliff	BIVISION No. 4 Rural Urban Town of High River Village of Black Diamond Turner Valley
	Total	22184 13311 8873	433 356 77	888 888 888 888 883 883 883 883 883 883	330 330 34 35 30 30 30 30 30 30 30 30 30 30 30 30 30	158 149 149 158 158 158 158 158 158 158 158 158 158
	Jenner	1632 1023 609	2023	118 511 335 35 35 10 10 10 10 10 10 10 10 10 10 10 10 10	21 38	57.4.80 180
	Kepinsiy	1448 903 545	\$2225°	12000	16	36.9936.11
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	firqA	1797 1115 682	25 33 34	828.14478123	62844	268 8 - 210
	May	1976 1204 772	\$25.55°	889 880 880 880 880 880 880 880 880 880	882-40	888882
MONTHS	əung	1979 1207 772	72 34 31 7	8381-4 841084-610010 '01	20000	1.8851044
SO.	July	2035 1202 833	361488	163 163 163 163 163 163 163 163 163 163	2033	E 20 E 20 4 20
	August	2018 1205 813	73 33 75 75	160 100 100 100 100 100 100 100 100 100	2501 L 8	4777040
	September	1959 1154 805	26 26 40 40	145 105 105 105 105 105 105 105 105 105 10	News	519 44 44 518 518 518 518 518 518 518 518 518 518
	October	1865 1077 788	88 39 33 11	22.09 86.00	28000	61 7 7 7 4 4
	November	1747 1034 713	72 31 24 7	051 488 488 484 648 648 648 648	272	500 - 124
	December	2017 1095 922	23 23 12 12 12	11800 000 000 000 000 000 000 000 000 00	552-40	884550-1

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26.25	354 119 235 226 9	EE 6161	148 1119 29 29 29 41 113 64 1148	400 44	107 102 1 1	390 113 277 275 2	2000
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407 331 76 76	4067 1340 2727 2559 135	833 798 35 35	1892 1276 1616 190 115 48 54 53	765 701 64 64	1258 1156 102 411 61	4791 1341 3450 3431 19	3711
BIVISION No. 5 Rural Urban Town of Hanna	Bural Urban City of Calgary Drumheller Town of Olds	BIVISION No. 7 Rural Urban Town of Wainwright	Rural Urban City of Red Deer Wetaskiwin Town of Camrose Innistall Lacombe Ponoka	Bural Rural Urban Town of Recky Mountain House	Bural Rural Urban Town of Vegreville Vermilion	BIVISION No. 11 Rural Urban City of Edmonton Town of Beverly	BIVISION No. 12 Rural Urban Town of Edson

TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHERS, 1946

							MONTHS	SI					
	Total	January	February	Матећ	lingA	May	nue	ınıy	Auguat	September	October	Мочетрет	Decempér
DIVISION No. 13 Rural Urban Town of St. Paul	974 899 75 75	1881	88	80 4 4	287.00	46 88 9 9	888	88 75 113	28.00	880.44	673	20000	E544
DIVISION No. 14 Rural	1215	96	74	106	88	125	169	130	104	66	22	8.6	96
DIVISION No. 15 Rural	679 670	69	45	999	48	99	48	57	22.23	62	36	512	10.10
Rural Urban Town of Grande Prairie	793 681 112 112	90000	926 10 10	62 52 10 10	62.244	68 56 112 122	71 59 12 12	99 22 66	\$5000	80 66 14 14	5255	120 220 120 120 120 120 120 120 120 120	53 10 10
DIVISION No. 17 Rural	340	377	26	38.88	27	25.03	33.33	222	31	24.24	11 17	31	នន

TABLE 4.—LEGITIMATE AND ILLEGITIMATE BIRTHS (EXCLUSIVE OF STILL-BIRTHS), IN CITIES OF 5,000 POPULATION AND OVER IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHERS, 1946

	Tot	al Bir	rths	Le	gitim	ate	Ille	gitima	ate
Province and Cities	Total	Male	Female	Total	Male	Female	Total	Male	Female
TOTAL FOR THE PROVINCE	22184	11302	10882	20966	10683	10283	1218	619	599
Cities of 5,000 and over:				1					
Calgary	2559	1282	1277	2408	1204	1204	151	78	73
Edmonton	3431	1782	1649	3210	1673	1537	221	109	112
Lethbridge	483	260	223	455	242	213	28	18	10
Medicine Hat	356	172	184	335	165	170	21	7	14

TABLE 5.—MULTIPLE BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDEN BORN ALIVE AND STILLBORN, BY SEX IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHERS, 1946

Classification of Births	Number
TWIN BIRTHS	273
Two males (both living)	91
One male and one female (both living)	93
Two females (both living)	76
One male living and one male stillborn	7
One male stillborn and one female living	76 7 1 3 2
One female living and one female stillborn Two males (stillborn)	3
Two males (stillborn)	2
TRIPLET BIRTHS	3
One male and two females (all living)	1
Two females living and one female stillborn	î
Two females living and one male stillborn	1
Cotal multiple births	276
Male	296
Female	259
Redail almola line hinths	21646
Total single live births	11019
• Female	10627
Female	10021
Otal single stillbirths Number	346
Male	180
Female	166
Total confinements	22268

Other Countries Unspecified

STILLBIRTHS) CLASSIFIED ACCORDING TO BIRTHPLACES OF PARENTS, IN ALBERTA, BY PLACE OF RESIDENCE TABLE 6.-BIRTHS (EXCLUSIVE OF

Other American Countries 112828211 8 23 23 8 8 8 01 01 United States Officer Asia 9 neget 64 China Other N Yugoslavia nebews (.A.S.S.U) 10 00 01 H 61 10 35 125 38 Roumania 12 24 96 Poland 201201 20 Norway 12001 Netherlands Europe Right 00 1 25 55 Hungary Germany France Mother N Finland 19 24 11111111 Denmark 50 28 of Czechoslovakia 10 Birthplace Belgium 80 11 83 OF MOTHERS, 1946 Austria 1010 Other Posses-22 1 12 0101 0101 32 Mewf'ndland British Other British Isles H 100000H 657 657 Wales Scotland 1 : 20000 80 1300 Ireland 01 01 24135344 89 965 29 England Prov. not Specified 10 349 1000 AUH H 988535255 British Columbia 192 192 428 375 7725 181 712 385 385 68 68 211 211 24 46 16 12 12 Alberta ewan 522225 Canada Saskatch-200000 112112114 Manitoba 138888433 63 63 oinsinO 1 Quebec New New Jew 100 H 100 0 0 0 1 134 00 0000000 F84844 0001 Nova Scotia 29 P.E. Island 37 124 70 409 895 797 1752 0825 367 2367 103 103 17 17 185 432 146 408 94 4 Total Fathers Alberta British Columbia Province unspecified Birthplace of Father British Possessions ... Newfoundland Nova Scotia New Brunswick Quebec Europe
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Czechoslovakia
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Finland Ontario Manitoba Saskatchewan ANADA Prince Edward British Isles
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Hungary Italy Netherlands Norway Poland Roumania Russia (U.S.S.R.) Sweden Yugoslavia Other	Asia China Japan Other	United States Other American Countries Other Countries	Children born to married mothers Children born to un- married mothers Children born to all mothers

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ot a	Children born to married mothers	Children born to unmarried mothers	Children born to all mothers
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VITAL STATISTICS BRANCH

TABLE 8.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO RACIAL ORIGIN OF PARENTS, IN ALBERTA BY PLACE OF RESIDENCE OF MOTHERS, 1946

	VIIII DIII		
1	Unspecified	84446	0. -
-	Other races	2777	
1	Negro	HILLI	
-	Jewish	81081	0
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	Other European		
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	Ukrainian	182 88 40 49 5	1
	Swedish	242 116 69 52 52	842 1123 8 1 112 1 8 4 2 8
er	Russian (Races of U.S.S.R.)	158 44 38 4	452 452 11111111111111111111111111111111
Mother	Roumanian	2222	8 29 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
200	Polish	252 244 99	488 101 101 101 102 102 103 103 103 103 103 103 103 103 103 103
n of	Norwegian	342 154 90 11	364 364 37 37 37 37 37 37 37 37 37 37 37 37 37
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	Czech and Slovak	24 111 111 2	142 100 100 100 100 100 100 100 100 100 10
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	Other British	181 339 122 122	8 147 113 24 8
	Scottish	760 760 436 744 77	752 116 118 117 117 118 118 118 118 123 143 143 143 143 143 143 143 143 143 14
	Irish	592 592 496 393 40	682 1117 1117 1117 1117 1117 1117 1117 11
	English	3740 1521 2110 592 610 496 913 393 107 40	1335 188 168 85 172 173 174 88 88 196 47 88
	Total Fathers	10162 4737 2295 2810 320	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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25.5		0000	2620 1121 1413 2620 1121 1413 2471 1090 1370	128 65 63	5300 2339 2912 2720 1186 1479 2580 1153 1433
131	40 111	P-00 01	5091 2211 2783 2620 1121 1413 2471 1090 1370	209 100 109	
536 1695 34	148 26 112 9	842 71 17 18	20966 10683 10283	1218 619 599	22184 11302 10882
Swedish Ukrainian Yugoslavic Other	Asiatic Chinese Hindu (East Indian) Japanese Syrian Other	Indian Jewish Negro Other races Unspecified	Children born to married mothers: Total Male Female	Children born to un- married mothers: Total Male Female	Children born to all mothers Total Male Female

TABLE 9.—TOTAL LIVE BIRTHS AND LIVE BIRTHS IN INSTITUTIONS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE OF MOTHERS IN ALBERTA, 1946

			All Liv	Live Births					Births in I	Births in Institutions		
Province	Place of		Mother's residence elsewhere	Births to resident mothers occurring elsewhere	resident ccurring here	Place of	Place of	Mother's residence elsewhere	residence	Births to resident mothers occurring elsewhere	resident ccurring here	Place of
	rence	Canada	In United States	In	In United States	residence	rence	In	In United States	In	In United States	residence
Total for the Province	22129	193	14	252	10	22184	20292	182	14	246	6	20651

TABLE 10-TOTAL LIVE BIRTHS AND LIVE BIRTHS IN INSTITUTIONS IN CITIES OF 5,000 POPULATION AND OVER, BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE OF MOTHERS, IN ALBERTA, 1946

			All Live	Live Births					Births in 1	Births in Institutions		
Cities	Place of	Mother's residence elsewhere	residence	Births to resident mothers occurring elsewhere	resident ccurring nere	Place of	Place of	Mother's elsew	Mother's residence elsewhere	Births to resident mothers occurring elsewhere	resident ccurring here	Place of
	rence	In	In United States	In	In United States	residence	rence	In	In United States	In	In United States	residence
Calgary Edmonton Lethbridge Medicine Hat	3452 5454 947 633	963 2071 486 294	1	172 49		2559 3431 483 356	3445 5429 943 629	963 2063 485 293	4-1	69 23 16	0	2551 3414 480 352

TABLE 11—ORDER OF BIRTH OF LEGITIMATE CHILDREN BORN IN 1946 (INCLUDING STILLBORN CHILDREN), IN ALBERTA, BY AGE AND RESIDENCE OF MOTHER

Age of Mother	12-19 years	98 321 603 1057 6262 6660 4351 2177 714 81 2	94 276 484 887 3134 1860 669 157 35 39 3 19 1 40 143 2033 2131 1082 355 39 3 4 11 1 4 5 261 712 612 314 82 4 1 1 4 5 261 712 612 314 82 4 1 1 4 5 261 712 612 314 82 4 1 1 3 74 169 136 60 73 5 1 1 1 1 1 1 8 70 99 50 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	I5 years	60	• 11111111111111111
	Under 15 yrs.	63	*
	Total	21307	677 5736 3443 11931 687 687 687 687 687 687 687 687
	Order of Birth of Children	TOTAL	1st child 2nd 3rd 3rd 4th 5th 6th 8th 8th 10th 11th 11th 11th 11th 11th 11th 11

TABLE 12.—DEATHS OF CHILDREN UNDER ONE YEAR (EXCLUSIVE OF S TILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES, BY SEX AND CALENDAR

H 63 F60 0 0 1010-0 清 14 December 23 M. 33 14 November 1~00 64 22 M. 23 October 13 M. 53 14 September 53 M 0111110 14 4sn8ny 53 MONTH OF DEATH M. 21-12 53 14 Ing 27 M MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1946 38 60 Fig. nung 13 M. 38 H May 12 48 M. 37 i HidA M 32 14 March K 20 14 February 024 47 M. Ė Liennel 4 M. Total under 91000 42 203371 542 403 Female 11155 528825 Male 01 12 19 69 66 884884 Total the Bronchitts
Bronchopneumonia
Preumonia
Diseases of the buccal cavity and annexa and of pharynx and tonsils
Diseases of the stomach
Diseases of the stomach
Diseases and enteritis Acute pollomyelitis and polloencephalitis
Diseases of the thymus gland
Meningitis (non-meningococcal)
Convulsions
Diseases of the ear and of the mastoid process
Diseases of the larynx (a) Congenital hydrocephalus
(d) Congenital malformations of the heart
(b, c, e) Others under this title
Congenital debility
Premature birth 6 Cerebrospinal meningitis
8 Scarlet fever
9 Whooping cough
0 Diphtheria
3 Tuberculosis of the respiratory system
2 Tuberculosis, other forms
4 Purulent infection and septicaemia
7 Dysentery
8 Syphilis
8 Influenza
8 Influenza
9 Measles CAUSES OF DEATH Congenital malformations Acute nephritis ALL CAUSES 116-118 119 130 157 158 108

160 Injury at birth 160 Injury at birth 161 Other diseases peculiar to the first year of life 67 41 26 166-168 Homicides 169-195, 200 Ili-defined and unknown causes of death 160 Injury at birth 161 Other diseases peculiar to the first year of life 67 41 26 2 2 3 3 4 2 2 3 3 2 1 1 2 2 1 1 2 1 1 1 1 1 1 1 1	4
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75 58 17 3 3 4 9 4 2 6 1 5 2 10 1 4 1 3 2 3 5 5 5 5 6 1 5 6 1 5 2 10 1 4 1 3 2 3 3 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10
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160 Injury at birth 161 Other diseases peculiar to the first year of life 16-168 Homicides 169-195, 197 Other violent deaths 169, 200 Ill-defined and unknown causes of death	
160 161 66-168 69-195,	Injury at birth Other diseases peculiar to the first year of life Homicides 197 Other violent deaths Ill-defined and unknown causes of death
69-1 69-1 99, 2	60 68 95, 1
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400 00 11

	Death rate of one year of 1,000	45.4	children under age to each births	Births with physician	irths with or without physician in attendance	thout a	Rates of children live h	Rates of stillborn children to 1,000 live births
Divisions and Cittes	Rate per 1000 live births	Number of deaths	Total Live births	With	Without	Not	Number of stillbirths	Rate per 1000 live births
No. 1	37	18	486	430	54	63 11	212	14.4
No.	29	30.0	757	387	12	1	103	13.2
19.	58 53	12	1373	1303	69	1	10.00	13.3
Division No. 8—Battle Mayer Division No. 9—Red Deer (Cities of Red Deer and Wetaskiwin excepted)	7 7 °	8 77 8	1611	1538	72	1 03	282	18.0
No. 10	250	46	1258	1220	322	00	202	15.9
Division No. 11—Edmonton (City of Edmonton excepted)	43	36	1360	1261	35.	45.00	23	16.9
	1237	32	974	806	161		122	12.3
No. 15	61	41.5	670	517	147	9	000	11.9
No. 17	888	323	340	167	172	1	9 4	11.8
of	39	101	2559	2555	0.4	1	62	24.2
City of Lethbridge	48	153	483	481	1 2	1 5 7	00 0	16.6
of	26	ia	190	187	163		63	10.5
City of Drumheller City of Wetaskiwin	15	2 6	135	135		17		22.0
Divi	44	657	14939	13654	1241	44	229	15.3
Whole Province	43	945	22184	20879	1256	49	363	16.4

AT AGE AND SEX BY SPECIFIED CAUSES, TABLE 14.-DEATHS OF CHILDREN UNDER ONE YEAR (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN

under 12 mos. II months and 03-10 months and under 11 mos. 01 Ol H M 0101 M.F. 60 9 months and under 10 mos. 62 8 months and under 9 mos. M.F. 0100 M.F. 6 7 months and under 8 mos. [± 20 6 months and under 7 mos. M 180 110 1 M.F. 5 months and under 6 mos. 20 4 months and under 5 mos. M.F. 18 21 DEATH 00 --M.F. 22 24 3 months and under 4 mos. AT 2 months and under 3 mos-M.F. 27 AGE I month and under 2 mos. 43 24 M.F. DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1946 M.F. 3 weeks and under I month 03 00 60 28 9 E under 3 weeks M. 26 83 Ei, under 2 weeks 38 Z. 69 14 under I week pue Kep I 112 M. 108 14 Under 1 day 191 403 Female Total under 542 333 1 year Male \$5.00 G \$5.00 \$6.0 Total the of process annexa and 6 Cerebrospinal meningitis
8 Scarlet fever
9 Whooping-cough
1 Diphtheria
1 Erysipelas
2 Tuberculosis of the respiratory system
2 Tuberculosis, other forms
2 Tuberculosis, other forms
2 Tuberculosis, other forms
3 Tuberculosis, other forms
4 Dysentery
5 Syphilis
5 Measles
6 Acute poliomyelitis and polioencephalitis
7 Meningitis (non-meningococcal)
6 Convuisions
7 Diseases of the larynx
8 Diseases of the larynx
6 Bronchitis
7 Bronchopneumonia
8 Diseases of the buccal cavity and annexa and pharynx and tonsils
8 Diseases of the stomach CAUSES OF DEATH Diseases of the stomach Diarrhoea and enteritis Acute nephritis ALL CAUSES 108,

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132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	Congenital debility 22 12 10	Premature birth 274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
132 71 61 11 2	42 25 17 5 68 35 33 4	Congenital debility 22 12 10	274 150 124 93	75 58 17 41	67 41 26 12	03 0	15 6 g	14 6	5 4	
71 61 11	42 25 17 5 68 35 33 4	Congenital debility 22 12 10	Premature birth 274 150 124 93	75 58 17 41	67 41 26 12	01 0	15 6 g	14 6	5 4	

TABLE 15.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS OF CHILDREN UNDER ONE YEAR, IN CITIES OF 5,000 POPULATION AND OVER, BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE, IN ALBERTA, 1946

		A	All Deaths u	under one year	ar				Deaths in]	Deaths in Institutions		
Cities	Place of	Residence	ence	Deaths of residents occurring elsewhere	residents	Place of	Place of	Residence	nere	Deaths of occurring	Deaths of residents occurring elsewhere	Place of
	rence	In	In United States	In	In United States	residence	rence	In	In United States	In	In United States	residence
Cities: Calgary Edmonton Lethbridge Medicine Hat	152 197 34 22	SEE		014811	1111	101 130 23 18	138 185 32 20	84 113 4	1111	4404	1111	118 21 17

TABLE 16.—TOTAL DEATHS (EXCLUSIVE OF STILL BIRTHS) AND DEATHS IN INSTITUTIONS OF CHILDREN UNDER ONE YEAR, BY PLACE OF RESIDENCE, IN ALBERTA, 1946

		A	All Deaths ur	under one year	ar				Deaths in	Deaths in Institutions		
	Place of		Residence	Deaths of residents occurring elsewhere	residents	Place of	Place of	Residence	nce	Deaths of occurring	Deaths of residents occurring elsewhere	Place of
	rence	Canada	In United States	In Canada	In United States	residence	rence	In	In United States	In	In United States	residence
Total for the Province	947	12		10		945	617	10		6	-	718

betate toN 100 years

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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

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	CAUSES OF DEATH	44 Other infectious and parasitic diseases Sub-total (a) Other venereal diseases (b) Lymphogranulomatosis (Hodgkin's disease) (c) Mumps (d) Others under this title (e) Other and other malignant tumours (f) Of the duodenum (g) Of the intestines (h) Of the mesentery and peritoneum (g) Of the mesentery and peritoneum (g) Of the mesentery and peritoneum (h) Of the mesentery and peritoneum (g) Of the mesentery and peritoneum (h) Of the mesentery and peritoneum	
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1946.—Continued	
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	CAUSES OF DEATH	Tumours of undetermined nature	Of the uterus	(d) Of the brain and other parts of the central nervous system (e) Of other and unspecified organs	AND OF THE ENDOCRINE GLANDS, OTHER GENERAL AND VITAMIN DEFICIENCY Total DISEASES Male Femal	Acute rheumatic fever (a) Acute rheumatic heart conditions (b) Others under this title Chronic rheumatism and other rheumatic diseases Gout Diabétes mellitus Diseases of the pituitary gland Diseases of the thyroid and parathyroid glands Total

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Others under this title ingitis (non-meningococcal) Simple meningitis Acute cerebrospinal meningitis asses of the medulla and spinal cord acranial lesions of vascular origin Cerebral haemorrhage or effusion Cerebral softening	Hemiplegia and other paralysis of unspecified origin With mention of arteriosclerosis Atal disorders and deficiency (general paralysis of the insane excepted) Others under this title epsy vulsions (under 5 years of age) or diseases of the nervous system Chorea Neuritis Disseminated sclerosis Others under this title Others under this title Others under this title Others or organs of vision	pur
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VITAL STATISTICS BRANCH

TABLE 17.—CAUSES OF DEATH BY		CAUSES OF DEATH	104 Diseases of the nasal fossae and accessory sinuses 105 Diseases of the larynx		(a) Acute	(b) Chronic	(c) Unspecified	107 Broncho pneumonia	108 Lobar pneumonia	109 Pneumonia (unspecified)	110 Pleurisy	(a) Empyema		111 Haemorrhagic infarction, congestion, oedema and thrombosis of the lungs	(a) Haemorrhagic infarction and thrombosis of the lungs	(b) Others under this title	112 Asthma	Pulmonary emphysema	
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Male Male Male Female Male Female Male Male Total Male Female Male CLASS X.—DISEASES OF THE URINARY AND GENITAL SYSTEMS Other diseases of the gall-bladder and bile ducts (b) Without mention of alcoholism (a) With mention of alcoholism Peritonitis without stated cause CAUSES OF DEATH Other diseases of the intestines Hernia, intestinal obstruction Other diseases of the liver (b) Others under this title (a) Acute yellow atrophy (b) Intestinal obstruction Diseases of the pancreas Cirrhosis of the liver 130 Acute nephritis Billiary calculi Appendicitis (a) Hernia 122 121 123 124 125 128 129 126 127

Chronic nephritis Chronic nephritis unspecified (over 10 years of age) Nephritis unspecified (over 10 years of age) Other diseases of the kidneys and ureters Diseases of the urethra, urinary abscess, etc. Diseases of the urethra urinary abscess, etc. Diseases of the urethra urinary abscess, etc. Diseases of the urethra urinary abscess, etc. Diseases of the urethra urinary abscess, etc. Diseases of the prostate Diseases of the prostate Diseases of the female genital organs (non-venereal) Andre Goodwards, Falloplan tubes and parametria (a) Ovaries, Falloplan tubes and parametria (b) Uterus XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE AND THE PUERPERAL STATE AND THE PUERPERAL STATE AND THE PUERPERAL STATE (b) Spontaneous, therapeutic or of unspecified origin with mention of other infection (c) Self-induced (d) Induced by other person for non-therapeutic reasons (e) Spontaneous, therapeutic or of unspecified origin with mention of haemorrhage, traumal or shock and toxaermia (a) Spontaneous therapeutic or of unspecified or Spontaneous of haemorrhage, traumal female or shock and toxaermia (a) Spontaneous female mention of haemorrhage, traumal female or shock and toxaermia	131	133	134	135	136			137	138	13				CLASS	14					14	
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Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Total Male Female	Male	Male	Male Female	Total Male Female	Male Female
14	14	Et.		14	Es.	H	1	14	H		Dis.		la.	(a)	la:	HEN-	24	426	124	T N N	214
(a) Placenta praevia	Premature separation of placenta	(c) Others under this title	Infection during childbirth and the puerperium	Puerperal toxaemias-following delivery	(a) Puerperal eclampsia	Puerperal albuminuria and nephritis	Acute yellow atrophy of liver	(d) Others under this title	Other accidents of childbirth	Laceration, rupture or other trauma of pelvic organs and tissues	Other conditions of childbirth	Other and unspecified conditions of childbirth and the puerperal state	Infection of breast during lactation	Psychosis of the puerperal state	(c) Others under this title	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TOTAL TISSUE Fema	Carbuncle and furuncle	Phlegmon and acute abscesses	Other diseases of the skin and cellular tissue	CLASS XIII.—DISEASES OF THE BONES AND ORGANS Total OF MOVEMENT. Rale Fema	Osteomyelitis and periostitis
(a)	(p)	(c)			(a)	(p)	(c)	(p)		(a)	(p)		(a)	(b)	(c)	S XII.				S XIII	154 Ost
			147	148					149			150				CLAS	151	152	153	CLAS	15

TABLE 17.—CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

		VITAL STATISTICS BRAI	vcn
1	Not Stated		
	100 years		
	92-99 years		
	90-94 years		
	82-89 years		
	80-84 years		
	75-79 years		
	70-74 years		
	65-69 years		
	60-64 years		
	22-23 years		
	20-24 years		
60	45-49 years		
Ages	40-44 years		
	32-39 years		
	30-34 years		
	25-29 years		111111111111111111111111111111111111111
	20-24 years		
	15-19 years		
	10-14 years		
	5-9 years		
	4 years	[
	3 years		
	2 years	00 0 0	
	I year	040 4000	111111111111111111111111111111111111111
	Under I year	11 11 11 2 E E E E E E E E E E E E E E E	1200212
	Total	10 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 23 24 2438 261 1120 1124 1124 1124
		Male Female Male Female Female Female Female Female Female Female Male Female Male Female	Female Male Famale Male Female Male Male Female Male Male Male Female Male Female Male Female Male
	72 1915		Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female
			da AR
		155 Other diseases of the bones (tuberculosis excepted) 156 Diseases of the joints and other organs of movement (a) Diseases of the joints (tuberculosis and rheumatism excepted) (b) Others under this title (c) Others under this title (b) Others under this title (c) Others under this title (b) Spina hilida and meningocele	(c) Anencephalus (d) Congenital malformations of the heart (e) Others under this title (e) Others under this title (f) Congenital malformations of the heart (e) Others under this title (f) Congenital malformations of the heart (e) Others under this title (f) Male (f) Female (f) Femal
		er diseases of the bones (tuber cepted) eases of the joints and other organ ment Diseases of the joints (tuberculosis matism excepted) Others under this title CONGENITAL MALFORMATION genital malformations Congenital hydrocephalus Spina bifida and meningocele	(c) Anencephalus (d) Congenital malformations of the he (e) Others under this title (v.—DISEASES PECULIAR TO THE FIR OF LIFE Congenital debility Dremature birth Injury at birth
	H	the other or	° 9 0
	DEA	bor or	thorn the life.
	J.	the saint or is the way was a saint or is th	S th
	- 83	oint oint oint oint oint oint oint oint	alfo
	CAUSES OF DEATH	of the jame of the	salur nder S P S P S P S P S P S P S P S P S P S
	CA	of the of	s ur s ur as E
	28 11 11	cepted) sases of the joints ament Diseases of the joint matism excepted) Others under this -CONGENITAL M genital malformatic Congenital hydroce Sbina bifida and m	Anencephalus Congenital malformations Others under this title DISEASES PECULIAR TC LIFE Genital debility mature birth ry at birth
		Other diseases of the bones cepted) Diseases of the joints and oth ment (a) Diseases of the joints (tub matism excepted) (b) Others under this title CONGENITAL MALFOR Congenital malformations (a) Congenital hydrocephalus (b) Spina bifida and meningos	(c) Anencephalus (d) Congenital mal (e) Others under the CV.—DISEASES PECOF LIFE Congenital debility Premature birth Injury at birth
		Oth Oth Oth Oth Oth Oth Oth Oth Oth Oth	(c) (d) OF Con Prer Injury
	1 22	155 156 157	158 159 160
		7	4

(b) Other intracranial or spinal injuries. (c) Others under this title life Other diseases peculiar to the first year of life (a) Asphyxia (unspecified), atelectasis	(c) Other specified diseases peculiar to the first year of life CLASS XVI.—SENILITY	(a) With dementia (b) Without dementia	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS 163, 164 Suicides Tots 163 Suicide by poisoning	
Male Female Female Male Female Female Female Female Female Female	Male Female Female Female Female Total Male	Male Female Malc Female Male Female	S Mate Mate Female Total Male Mate	
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

54		VITAL STATISTICS BRANCH
11	Not Stated	
	100 years	
	92-99 years	
	90-94 years	
	85-89 years	111111111111111111111111111111111111111
	80-84 years	20 21 2 1 1 2 1 1 1 2 1 2 1 1 1 1 1 1 1
	12-19 years	1-11-11-11-12-2-14-11-14-11-11-11
	70-74 years	111, n n 111111 29 n 80 1111 8 11 11
	62-69 years	
	32007 69-29	<u>6</u> 1 4 1 0
	60-64 years	
13	22-29 years	
	20-24 years	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
80	45-49 years	1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ages	40-44 years	[
	32-39 years	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	30-34 years	1 1 1 1 1 1 1 20 1 80 1 1 1 80 1 1 1
	S2-S9 years	
	20-24 years	1 1 2 2 2 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2
	12-19 Years	Nounco
	cruad broat	11111111111111111111111111111111111111
	10-14 years	
	2-9 years	The state of the s
	4 years	
	3 years	
	2 years	11111111111111111111111111111111111111
	1 year	111111111111111111111111111111111111111
	Under I year	
	Total	1 112 5 42 111 825841 8511 752
		Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Female Male Female Female Male
		Total Female
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		from high places unspecified means. ting or piercing instruments er or unspecified means s (excluding motor vehicles) cidents th trains th trains th street-cars accidents (excluding automobiles) her road transport sub-total ccidents (excluding trains or
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	CAUSES OF DEATH	ng ng ng ng ng ng ng ng ng ng ng ng ng n
	CA	(d) By cutting or plercing instruments (g) By jumping from high places (g) By other or unspecified means Homicide by firearms Homicide by cutting or piercing instruments Homicide by other or unspecified means Accidental deaths Accidental deaths Accidental deaths Accidental eactidents (e) Collisions with trains (b) Collisions with street-cars (c) Automobile accidents (excluding trains or street-cars) (d) Motorcycle accidents (excluding automobiles) Street-car and other road transport accidents accidents (a) Street-car accidents (excluding trains and motor vehicles)
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		(d) By cutting or piercing instruments (e) By jumping from high places (f) By crushing Homicides Homicide by firearms Homicide by cutting or piercing instruments Homicide by other or unspecified means Accidental deaths Accidental deaths Motor vehicle accidents (a) Collisions with trains (b) Collisions with street-cars (c) Automobile accidents (excluding automobile street-car and other road transport accidents (d) Motorcycle accidents (excluding trains street-car and other road transport accidents (a) Street-car accidents (excluding trains an motor vehicles)
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ure ure	mi ery	ex alide
Others under this title er transport accidents transport accidents in mines and quarries cultural and forestry accidents. Sub-total Accidents involving agricultural machinery and vehicles Injury by animals, in agriculture	Accidents involving forestry machinery and vehicles Other forestry accidents ar accidents involving machinery I poisoning dental absorption of poisonous gas. Sub-total Coal and illuminating gas	gas y sc lon ition or or
acc agri	ore mad mad polsc	Motor vehicle exhaust gas. Other carbon-monoxide gas. Other poisonous gases. Ite accidental poisoning by stilagration idental burns (conflagration idental mechanical suffocation idental injury by firearms idental injury by cutting or ments.
s s s s s s s s s s s s s s s s s s s	Accidents involving fore vehicles Other forestry accidents er accidents involving ma d poisoning idental absorption of poison and illuminating ga	oxik ases nin nin fire cutt
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Others under transport act dents in min cultural and Accidents in and vehicles Injury by an	Accident vehicles Other for accided poisoni idental a Coal and	or v cr cr cr cr cr cr cr cr cr cr cr cr cr
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ater r tr tr cid	veh veh () Oth yod p	Motor () Motor () Other () Other accidental accidental accidental accidental accidental accidental accidental accidental accidental accidental ments
(b) Others under this title Water transport accidents 173 Air transport accidents 174 Accidents in mines and quarries 175 Agricultural and forestry accidents (a) Accidents involving agricultura and vehicles (b) Injury by animals, in agriculture (c) Other agricultural accidents	(d) Accidents involving forestry machinery and vehicles (e) Other forestry accidents 176 Other accidents involving machinery 177 Food poisoning 178 Accidental absorption of poisonous gas. Sub-total (a) Coal and illuminating gas	(b) Motor vehicle exhaust gas (c) Other carbon-monoxide gas (d) Other poisonous gases (d) Other poisonous gases (d) Other poisonous gases (e) Other poisonous gases (f) Other poisonous gases (g) Other

TABLE 17.—CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

CLASS XVIII-ILL-DEFINED AND UNKNOWN CAUSES Total	-	31 5	23	-	T	1	-		1	-	1	1	011	646	-	63 6	90 I	7.	-	-	1	1	1	-	1
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199 Sudden death	-	23	-	-			-	-	-	-	-	-		-	-	-	1	-	-	-	-	-	-	1	
	Female	61	-						_					1000		-	1		-	-	-			100	1
200 Ill-defined and unknown causes		22 4		1		-				1	-	1000	-	64	-	01	9	60			-			-	
	-		61		-	-		-	-	-	-	-	-	1000		1	-	-	-	-	-	-	-	-	1
(a) III-defined		1	-	-	1	-	1000	-		1	-	-	-	12	7	2	4	53	1		-	-		-	1
	Female	3	1	1		-		and and	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	1
(b) Found dead		1		Tour.	T	- Jane	-	100	-	-	-	-	i	-	-	-		-	I	-	-	-	1		1
	Female	1	-	1	-	1	100		-	-		-		1	-	-		-	-	1000	1	-		-	-
(c) Unknown or unspecified cause	Male	4	1	1	-	-		-	-	-	-	1		ī		-	-	-	-		-				-
	Female	N	-	1	T	1	-		1	-		I	1	1	-	1	1	T	-	-	1		1	1	
					-				-	-	-	-				-			-	-	-				1

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.

27 1 4 4 1 1 1 2 2 1 1 2 2 1 1 1 1 1 2 2 2 1 2 3 2 3	
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TABLE 18.—CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1946

			-					MOI	MONTHS					
	CAUSES OF DEATH		Total	Pebruary	March	lingA	May	aung	Amr	†suguA	September	Осторет	November	December
DEATHS-ALL CAUSES		Total Male Female	6601 4049 2552	670 5 426 3 244 2	535 326 34 209 21	560 530 349 306 211 224		348 296 230 215	1 543 6 348 5 195	472 306 166	474 291 183	522 326 196	560 344 216	646 383 263
CLASS I.—INF)	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total Male Female	295 209	36 22 38	898	2538	38	241 24 17 17 1	40 26 25 15 15 11	23 23 11 11	39 18	30	14238	1735
1 Typhoid fever 2 Paratyphoid fe	Ver	Male Female Male	I I	115		111			111			111	111	111
5 Undula		Female Male Female	-		111					-	111	III	111	111
6 Cerebr 8 Scarlet	Cerebrospinal meningitis F	Male Female Male	1 17	111		111							111	-
	ф.	Female Male Female	12	- 01	-		63		1 -	100	101	-	111	111
10 Diphtheria		Male Female Male	00 et	-		111	111	111	-		-	103	7	-
		Female Male Female		1115			1 1 15						1115	111;
13-22 Tuberc	Tuberculosis of the respiratory system Sub-total	Female Male Female	118	13 9 52	22:22	13 - 18 1	16.12	2200	8118	88 111 8	====	9 2 2 9	11.813	120 17
(a) Wi (b) Wi (c) Un	(a) With mention of occupational diseases of lungs (b) Without mention of occupational diseases of lungs (c) Unspecified site	Male Female Male Female Male	2 2 31	1-004			H 48H0		H- 8	1286		1 36 1	9877	1 2 2 2 1

(p)	(d) With mention of dementia praecox	Male	27-	-	1	-	-		1	-	1	-	_	1	
14 Tul	Tuberculosis of the meninges and central nervous system	Male	17		02 +		00 +	4 63 6	01,	1	010	63		1 1	
15 Tul	Tuberculosis of the intestines and peritoneum	Male	T 22	N :	4 :		4 :0	NA .		1	1 1	-	-	•	
16 Tul	Tuberculosis of the vertebral column	Female Male	D 60	13	H :	11	21	-	-	1	N			,111	
17 (a)	Tuberculosis of the bones	Female Male	-		11	1 1	1 1	14	-	11			11		
(b)	(b) Tuberculosis of the joints	Female Male		11	1 1	1 1	1 1		11	1 1	177		-		
18 Tu	Tuberculosis of the skin and sub-cutaneous cellular tissue	Female Male	1	3 3	1 1	11	1-1	111	11	11	11				
19 Tul	Tuberculosis of the lymphatic system (bronchial, mesen- teric, mediastinal and retroperitoneal glands excepted).	Female Male	-	1 1	1 1				1 1	1 1				-	
20 Tul		Female	9				11		11	11			-	-	
21 Tu	Tuberculosis of other organs	Female Male	-	111	11	,	1	-		1 1					
22 (a)	(a) Disseminated tuberculosis, acute generalized miliary	Female	in	11	1 1			-	61	-	1				
(p)	(b) Other and unspecified generalized tuberculosis	Female Male	- 4	.01	-	1	1 1	-	-		1 1	11			
23 Le	Leproso	Female Male	64	-		61									
	infaction and continuous	Female	e.					-				-			
	a septicacima	Female	0		11	401			11			11	-		
25 50	Conococcus infection	Male	-	4		1 1	1 1			1 1					
26 Otl	Other diseases due to bacteria	Male		145		-				+					
27 Dy	Dysentery	remale Male		11	1 1	1 1	1 1	1 1			11	-	-		
28 Ma	Malaria	Female Male	-				1 1								
	Total	Female Male	37	49	. 60	.00	65	4	.00	.00	60		. 21	10	
	(a) Locomotor ataxia (tabes dorsalis)	Female Male		-	11	61		61					27		
(b)	(b) General paralysis of the insane	Female Male	133	H		60.	63	01+	11	1 1		-		64	
(c)	Other syphilis of the central nervous system	Female Male Female	19-		1	4 :	11		61	11	H	11	T.		
(p)	(d) Others under this title	Male	12.4	60 -	63	1 1 5			-	62	1	-	-	63	
32 Ott	Other diseases due to spirochaetes	Male Female	101	-		•						-	1		

TABLE 18.—CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

	The second secon			1			M	MONTHS	S				
	CAUSES OF DEATH	+	Total	February	Магећ	lingA	May	July	- tsuguA	September	TedotoO	November	December
653	Influenza Total Male	Tale	57				-	-	2		4	01	1
	(a) With respiratory complications	Female	25.23	118	80	010	•			61		0000	1 - 0
		Female	13				F		-	63			1110
34	Small-box	Female	19				•	•	•		•	60	• 1
15	Messing	Female	No.	-	-					-		-	
38	Acute poliomvelific and polioencephalitis	Female	0000	•					11-			1	-
6	Annie infections among alitie	Female	0010			•	11	-	+	3		11	
5 6	Acute microsoft and the following spinners	Female	0				11	-	11			+	11
5	Other diseases due to metrable vituses	Female					11				11	11	11
		Female	II				11	11	1.1				11
		Female	T				11	11	11			11	11
	this title	Female											
39	Typhus fever and typhus-like diseases	Female Male										-11	
41	Hydatid disease	Female	Til	11	11	11		11	11			11	
42	Other diseases due to helminths	Female Male Female	-		H								
43	Mycoses	Male							1				
44	Other infectious and parasitic diseasesSub-total	Male	1-0			-		-			- 22		-
	(a) Other venereal diseases N. P.	Male Female											
				0000	OK THE								

	(b) Lymphogranulomatosis (Hodgkin's disease) (c) Mumps (d) Others under this title	Male Female Male Female Male	ale ale	F0	THE	11111	71111	7		7 111	11111	- 1111	21	11111	-1111	
SSV	ASS II.—CANCER AND OTHER TUMOURS	Total Male Female	ue le	885 480 405	3000	30 455	318	218	4882	32,43	25.5	23.68	288	24.38	883	
45-55		Total Male Femade	ıde	390	30.	29.53	36	34	42 34	39	2%	36	35.8	23.3	55.	
46	Cancer of the digestive organs and peritoneum	Female Sub-total Male	ale	261	1 189	1 183	7 22		20 1	16 22	24.2	11.81	1 :2:	50	16	
	(a) Cancer of the oesophagus	Male Female	ue ale	99	2	2 1	14		7 7 7	1 10		1 1	9	= =	7 7	
	(b) Cancer of the stomach (c) Cancer of the Duodenum	Female Male	ale	43	00 00	0 23	2010	6.61	2 10	1 12	=-	7.4	מו מו	200	r-10	
	(d) Cancer of the rectum and anus	Female	ale	27	9	1	60	-			61	60	4	-	-	
	(e) Cancer of the intestines	Female Male	ale	52	-6	या १०	9	. 9	63 11	0100		- 00	04 00	4	63 10 0	
	(f) Cancer of the liver and biliary passages	Female Male	ale	18	400	च च द	-	00		4 ·	40.	4,636	7	4	9 - 1 9	
	(g) Cancer of the pancreas	Male	ille	38;	71-1	2	- 120	-	121	2 - 2	4 4	N 00 I	1 1	- 67	001	-
	(h) Cancer of the mesentery and peritoneum	Male	ule	42.	24	7	-	1 1	11	21-		24	4	2		
	(m) Cancer of other and unspecified sites	Male	ile	T (1)	-	11	1	-	11		11	11	11		2	
47	Cancer of the respiratory system	Sub-total Male	ue le	20		7-	П	4-	96	40	00 -	63		4	96	
	(a) Of the Larynx	Male	uc	34.				1	4		1		4	11	4 :	
	(b) Of the lung	Male	an an	58	4	1	-	100		010	62	T		63	60 4	
	(c) Of the Mediastinum and other sites	Female Male	ale .	18	7 2	011	11	1	- 4	200	-	64	N	H	- co -	
48	Cancer of the uterus	Sub-total Female	de	21.00	63	- 10	00	14	60	8 6	4	12	10	F	1 9	
	(a) Of the cervix	Female	de	23	1	1	6.0	63	63	0.1	1	61	-	-	60	
	(b) Of other and unspecified sites	Female	de	32	2	4	ıo	63	1	4	6.3	-	4	-	60	
49	Cancer of other female organs	Female	de	22	23	9	64	63	2	1	T	63	61	-		-

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	CAUSES OF DEATH	50 Cancer of the breast 51 Cancer of the male genital organs	52 Cancer of the urinary organs Sub-total (a) Of the kidney	(b) Of the bladder	(c) Of other and unspecified sites 53 Cancer of the skin	54 Cancer of the brain	55 Cancer of other and unspecified organs. 56 Non-malignant tumours Total	(a) Of the ovary	(b) Of the uterus	of the central nervous	nd unspecified organs determined nature Sub-total	(b) Of the uterus
		Male Female Male	Male Female Male	Female Male Female	Male Male	remale Male Female	Male Female Male	remale Female	Female	Male	Female Male Female Male Female	Female
	Total	5772	38	883°	- 61	252	28.5	200	65 -	1 10	1001-1001	
-	February	98	00 PT PT		-	-	907	-	:		-	-
	Матећ	1014	4-1	4-		[0]	10 r		-	-		-
	ПтдА	512	12	N	2		40.		63	61		-
	May	10	-4	00 mm		23	1000-0		1			_
MONTHS	aung	910		HII	III	0	- 10		T			
IS.	Vint	00 10	***	S =	1 24	-11	401-		1	-	11711	-
	August	99	10 00 01	- 62 63		111	00 00	H	T			-
	October	198	10 (3 4		(N)			-	1 -			T
	November	600	910	H 4	111	- 11	60	-			- IIII	
1	Decemper	10.00	4 5	222	111		101	1	-	-		-

	(c) Of other female genital organs	Female	T	T	T	T	T	T	T	T	T	-	-	
	(d) Of the brain and other parts of the central nervous system	Male	63		-	-	i			1	1		-	-
	(e) Of other and unspecified organs	Female Male Female	00	-	111		111	III	111	111		111		
CLASS	III.—RHEUMATISM, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS, OTHER GENERAL AND VITAMIN DEFICIENCY DISEASES	Total Male Female	189 80 109	21 8 13	2121-	11 21 6 4 5 17	48.0	15-12	16	E 1- 9	14	163	14 1 8 1	000
80	Acute rheumatic fever Sub-total	Male	10	17	61 -	-		1	-	61	1	-	-	61.
	(a) Acute rheumatic heart conditions	Female Male	16.	1 11	- 64 -	11			11	61	1	11	-	101
	(b) Others under this title	r emaie Male		7	- 1	11	4	II	-	11		11		- :
59	Chronic rheumatism and other rheumatic diseases	Female Male	10	-	11	-		T	11	61	11	11	1	: =
09	Gout	Female Male	4	-	-	11		-			-			1 1
61	Diabetes mellitus	Female Male	47	9	63	4		NO.	ro	6/1	62	10	4	100
62	Diseases of the pituitary gland	Female Male	72	00	4		60	12	00	00	63	9	60	9 :
63	Diseases of the thyroid and parathyroid glands Sub-total	Female Male	199	-	11'	17	61	H	1 1	1 15	11	11		:=:
	(a) Simple goitre	Female Male	27		7 1	4		N	-	20	4	7	-	4 :
	(b) Exophthalmic goitre	Female Male	- 10	1	1 1		63	F	11	11	17	11	1 1	
	(c) Myxoedema and cretinism	Female Male	20	N I	-	21		67	-	0	4	-	-	-
	(d) Others under this title	Female Male	N .	-	11	-	I	T	II	11		11		
64	Diseases of the thymus gland	Female Male	10					-	-	-	T	-	. 00	:01
65	Diseases of the adrenal glands (Addison's disease)	Female Male	200	11	11	11	- 1	11	H	H	TI	11	1 1	
99	Other general diseases	Female Male	5 1	11	11	-		1.1	11	11	11	11	-	
70	Rickets	Female Male		1				T	1	1				
	Other vitumin definitions dispussed	Female												
7.	Omer vitamin deficiency diseases	Female		11					11	11		11	11	

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	CAUSES OF DEATH		LetoT	Yebrusty	March	April	Мау	nue	ng	August	September	October	November	December
CLASS	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING Total Male ORGANS	ale	888	1041	400	6 6 1 1	621	61 61	44	10 60 61	900	10 00 01		00 90 81
72	200	ale	пп	11	11				11	11		11	11	- 1
	(a) Frimary purpura (b) Haemophilia Male	ale											111	-
	(c) Others under this title Male Female	ale						111						
13	Anaemias Subtotal	ale	00 61 60			-			-		-	-		63 63
		ale	0110	11		-			-		7	-	11	11
74	Leukaemias and aleukaemias Sub-total Male Female	ale	118					- 60			010	010	-	0101
	(a) Leukaemias Male Female (b) Aleukaemias (Hodgkin's disease excepted) Male	ale	118		1-0		F		60	100 001	10101	10101	7 11	10101
75	Diseases of the spleen Male Female	ale	10	6.3	-	FI	11,				-	III	TI	111
76	Other diseases of the blood and blood-forming organs	ale										H	H	
CLASS	CLASS V.—CHRONIC POISONING AND INTOXICATION Male Female	l ale	1-9-1				111						111	111
#	Alcoholism Sub-total Male Female (a) Acute alcoholism Male Female	ale	10101	7111	-1[- H				777	ППП	1111

(b)	(b) Chronic alcoholism Female (c) Others under this title Male Female Lead poisoning Male Male		-	THE		11111		71111	A LIN		1111	TITE	1111	
Chronic b) Non	ng by other mineral and organic substances	1177	17111	11111										
VI.—DISE, ORGANS	VI.—DISEASES OF THE NERVOUS SYSTEM AND SENSE Total ORGANS Pemale Female	607 320 287	34.8	24281	2337	388	226	43 47 17 26 26 21	32 16 16 16	16 23	18 25 23	8138	888	
Snceph a) Int	Encephalitis (non-epidemic) Sub-total Male Female (a) Intracranial abscess Male	1-44		111	01 H	(0)	27-				17	61 61	111	
(b) Otl	(b) Others under this title Male Meningtis (non-meningococcal)	0100011	111	TIT	-		- 64	1111	1115	1110	I IH	THE	1111	
a) Sin		91-9								4-64-	7 7		N 64	
Disease	Diseases of the medulla and spinal cord Male	1 2	-		4			2 2			111	117	1 17	
ntracra a) Cer	Intracranial lesions of vascular origin Sub-total Male Female (a) Cerebral haemorrhage or effusion Male	257 246 112	122 28	15 8 8	20 27 21 22 2		22 14 19 23 12 4	200 4 200 4 6	1231	113	23 119	34	31 25 11	
b) Cer		1110	9	9			922			1 9	× = .	12	1221	
d) Her	(d) Hemiplegia and other paralysis of unspecified origin. Male	133	6.0	2		23	H.	64	1	1119	11			
(e) Wit Mental	(e) With mention of arteriosclerosis Male Male Mental disorders and deficiency (general paralysis of the insane excepted)	121	6 12 6	96 0	8 10 1	91	6 10		101-	N 00 44	17 10	1889	1321	
a) Sch b) Ott	ophrenia (dementia praecox)	4	он юн	10			-					Į IIII	11111	
Epuepsy		010	-	01	-	-	-	-	-		60	H	- 1	

TABLE 18.—CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

22 22 21 Parin	Moreh April Month March Ma	MONTHS 252 526 1 1 1 1 1 1 1 1 1	MONTHS 599 55 55 56 111 1 1 1 1 1 1 1 1 1 1 1 1 1		CAUSES OF DEATH		(a) Otitis and other diseases of the ear Sub-total Male Female (b) Diseases of the mastoid process (c) Diseases of the mastoid process (d) Diseases of the mastoid process (e) Diseases of the mastoid process (f) Diseases of the mastoid process (h) Diseases of the mastoid process (e) Diseases of the mastoid process (f) Diseases of the finale female (h) Diseases of the finale female (f) Female female (f) Female female female female female female	90-95 Diseases of the heart Total Male 90 Pericarditis (acute rheumatic excluded) Sub-total Male (a) Chronic rheumatic pericarditis (b) Others under this title (b) Others under this title (c) Others under this title (d) Acute endocarditis (non-rheumatic) Sub-total Male
22 22 21 Parin	Moreh April Month March Ma	MONTHS 252 526 1 1 1 1 1 1 1 1 1	MONTHS 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	-		95291 469512	1832 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1147
March April Ap	MoreM March	MONTHS Table 1	MONTHS 111					
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1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MONT Smit 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MONTHS 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MONTHS MONTHS 110 45 45 45 45 45 45 45 45 45 4			117		
	Tine I	Sine Sine Sine Sine Sine Sine Sine Sine	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
September 1	October	October			December	H8	11 11 11 11 11 11 11 11 11 11 11 11 11	

(e) Eacterial endocarditis (acute, subacute or unspecified) Male (b) Other acute or subacute endocarditis Chronic affections of the valves and endocarditum Sub-total Name (c) Endocarditis (not specified under 45 years) Manel (c) Unspecified valvular diseases (rheumatic) Manel (c) Unspecified valvular lesions and endocarditum Sub-total Name (b) Other acute myocarditis (not specified valvular diseases) (rheumatic) Manel (c) Unspecified valvular diseases (non-rheumatic) Manel (c) Unspecified valvular lesions and endocarditis (a) Acute myocarditis (not specified under 45 years) Manel (c) Myocarditis (not specified under 45 years) Manel (c) Chronic myocarditis (not specified) Manel (d) Chronic myocarditis (not specified) Manel (e) Other myocarditis (not specified) Manel (e) Other diseases of the heart (no organic leston) Manel (e) Other diseases of the heart (rheumatic)) Manel (e) Other diseases of the heart (rheumatic) Manel (e) Myocarditis (connary or renal selerosis or cereptral Manel (e) Myocarditis (connary or renal selerosis or cereptral Myocarditis (connary or renal selerosis or cereptral Myocarditis (connary or renal selerosis or	1	12 - 12 - 1
acute or subacute or unspecified) Male acute or subacute endocarditis state arditis (not specified under 45 years) Fernale specified valvular diseases (rheumatic) Fernale for the myocarditis (not specified) myocarditis (not specified) myocarditis (not specified) myocarditis (not specified) myocarditis (not specified) myocarditis (not specified) myocarditis (not specified) myocarditis (non-rheumatic) male male myocarditis (non-rheumatic) male mal		
acute or subacute or unspecified) Maie 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
In the coronary arteries and angina Nate Sub-total areases of the heart (no organic lesions) Nate Sub-total areases of the heart (no organic lesions) Nate Sub-total areases of the heart (non-rheumatic) Nate Sub-total areases Sub-t		1 4 4 1 11112 1 1 1 1 1 1 1 1 1 1 1 1 1
In the coronary arteries and angina in the coronary or tenate Sub-total Male Sub-tota		
acute or subacute or unspecified) Anale arditis (not specified under 45 years) Sub-total fernale of the valves and endocarditus Fernale Iffections of the valves and endocarditus Fernale of the valvular diseases (non-rheumatic) Fernale of the myocarditus India Ind	1	. 1414 Log Log 1004
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acute or subacute endocarditis acute or subacute endocarditis arditis (not specified under 45 years) fections of the valves and endocardium led valvular diseases (rheumatic) specified valvular lesions and endocarditis. of the myocarditis arditis (not specified under 45 years) in myocarditis and myocardial degenera natic) lic myocarditis (non-rheumatic) lic myocarditis (non-rheumatic) lic myocarditis (not specified) of the coronary arteries as pectoris as pectoris as pectoris as pectoris as pectoris lional diseases of the heart (rheumatic) diseases of the heart (rheumatic) diseases of the heart (non-rheumatic) clic diseases of the heart (non-rheumatic) diseases of the heart (non-rheumatic) erosis (coronary or renal sclerosis or orrhage excepted)		
(a) Bacterial endocarditis (b) Other acute or subac (c) Endocarditis (not spec Chronic affections of the (a) Specified valvular (b) Other specified valvular Diseases of the myocarditis (a) Acute myocarditis (b) Myocarditis (not spec (c) Chronic myocarditis (d) Chronic myocarditis (d) Chronic myocarditis (e) Other myocarditis (d) Chronic myocarditis (d) Chronic myocarditis (d) Chronic myocarditis (d) Chronic myocarditis (e) Other diseases of the hea (a) Diseases of the corona (b) Angina pectoris Other diseases of the (c) Other diseases of the Aneurysm (heart and aor Arteriosclerosis (coronary haemorrhage excepted		c le
	(a) Bacterial endocarditis (b) Other acute or subacc (c) Endocarditis (not spec Chronic affections of the v (a) Specified valvular dis (b) Other specified valvular I Diseases of the myocarditis (a) Acute myocarditis (b) Myocarditis (not speci (c) Chronic myocarditis a (rheumatic) (d) Chronic myocarditis (e) Other myocarditis (e)	Diseases of the coronary pectoris (a) Diseases of the corona (b) Angina pectoris Other diseases of the hear (a) Functional diseases of (b) Other diseases of the I (c) Other diseases of the Aneurysm (heart and aor Arteriosclerosis (coronary haemorrhage excepted Gangrene

TABLE 18.—CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

STEM nuses. Sub-total		Decemper		33.33	
No. No.		November	-	29	
National		Осторет		14 15	
Main		September	7111111111	24 18 6	
Male Female Fem		4su2uA		28 16 12	
Male Female Fem	SH	Amr		223	
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Male Female Male Female March Male Female Male Female Male Female Male Male Female Male M		May	- 11- 111111T	46 27 19	777988 1
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Male Female Fem		Магећ	771111111	18 22 18	
Male Female Fem		February	14	29 119 10	0 H H H
Male Female Female Male Female Male Female Male Female Female Female Male Female Female Male Female Female Female Female Female Male Female Female Male Female Female Male Female Male Female Female Male Female		Yannaty	HW H	1888	•
STEM nuses. Sub-total		Total	100 10 1044	454 275 179	22222222222222222222222222222222222222
RALES			Male Female Female Female Male Female Female Female Male Female	Total Male Female	Male Female Male Female Female Female Female Female Female Female Male Female Female Female Male Female Female Male Female Female Male Female Female Female
		CAUSES OF DEATH		CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM	accessory sinuses

		(b) Others under this title	Male	631	1	150	-	-	-	1	-	23	1	1	1
111	-	Haemorrhagic infarction, congestion, oedema and thrombosis of the lungs Sub-total N	remale Male	13 0	П	1 1		4 63	-			1	-	III	H 69
		(a) Haemorrhagic infarction and thrombosis of the lungs.	Female	10	11	-	11	03 0	-	61			-	11	
		(b) Others under this title	Female Male	e an a	F	111	1	NH	H	-		11	нн	11	- 63
112	63	Asthma	Female Male	146	01	H 63	11	64		Ne	21	11	-	1-1	111
113	63	Pulmonary emphysema	Female Male	9	11	11	11	11	1	1	11	N	II	7 [24
114	4	Other diseases of the respiratory system (tuberculosis excepted) Sub-total A	Female Male				-		1	1	1	-			-
			Female Male	00	-		11	11	-	-			I		11
		(b) Other and unspecified forms of pneumoconioses.	Female Male		11	11	11		11			11	11	11	11
		(c) Gangrene of lung	Female Male			11	11	11						11	
		(d) Others under this title	Female Male	-		11	-						11	11	-
			Female	63	-	-	1	2000	-	-				1	200
CLASS	S	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	Total	409	30	25.00	28	30	28 3	36 46	6 27	36	30	38	37
115	10	and of the	Female	153	=	13	6						12	12	119
		pharynx and tonsils Sub-total N	Male	E- 10			1		-			-		н	63
		(a) Diseases of the teeth and gums	Male	1			-							1	
		(b) Septic sore throat	Male	1	-							11	11	11	11
		(c) Diseases of the pharynx and tonsils	Female Male	10.	11	-	11	-	-	1 1	11'	1	H	11	27
		(d) Others under this title	Female Male	4	7	7	1 1	11	111	111	-	11		11	
116	9	Diseases of the oesophagus	Female Male	- 00	11	11	-		11	11	-	-	11	Н	11
1117	1-	Ulcer of the stomach or duodenum Sub-total N	Female Male	49	60	60	4		10	9	63	.00	9	60	1.1
		(a) Stomach	Female Male	251	21 ==	-	- 4	-	7	.03	H 62	61	H 63	6.1	-
		(b) Duodenum	Female Male	24	- 22	61	-		60	4	51	-	H 63	-	11
118		of the stomach	Female Male	8 6			11	П	, -		.01		64	F	
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	CAUSES OF DEATH	Diarrhoea and enteritis (under 2 years of age) Sub-total Male (b) Ulceration of the intestines (a) Diarrhoea and enteritis (2 years of age and over) Diarrhoea and enteritis (2 years of age and over) Sub-total Male Remains and enteritis (2 years of age and over) Sub-total Male Remains and enteritis (2 years of age and over) Sub-total Male Remains and enteritis (2 years of age and over) Sub-total Male Remains and enteritis (2 years of age and over) Sub-total Male Remains and enteritis (2 years of age and over) Sub-total Male Remains and enteritis (2 years of age and over) Sub-total Male Remains and enteritis (2 years of age and over) Sub-total Male Remains and enteritis (3 years of age and over) Sub-total Male Remains and enteritis (4 years of age and over) Sub-total Male Remains and enteritis (5 years of age and over) Sub-total Male Remains and enteritis (6 years of age and over) Sub-total Male Remains and enteritis (6 years of age and over) Sub-total Male Remains and enteritis (6 years of the gall-bladder and bile ducts Remains and enteritis (6 years of the gall-bladder and bile ducts)
		Male Female Male Female Female Female Male Female Female Male Female Female Male Female Female Female Male Female Female Male Female Female Female Male Female
	Total	134 13 13 14 13 15 15 15 15 15 15 15 15 15 15 15 15 15
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Male Female Male Female	AL SYSTEMS	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male		Sub-total Female	Female	Female	Female		Sub-total Female	origin with
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cause	AL SYSTEMS								(a) Stricture of the urethra	(b) Others under this title Female			Diseases of the female genital organs (non-veneral)	(a) Ovaries, Fallopian tubes and parametria Female	Uterus	(c) Others under this title Female			
128 Diseases of the pancreas Female Female Male Female Male Male Female Male Female Fe		130 Acute nephritis Male Female	131 Chronic nephritis Male Female	132 Nephritis unspecified (over 10 years of age) Male Female	133 Other diseases of the kidneys and ureters	134 Calculi of the urinary passages	135 Diseases of the urinary bladder Male	136 Diseases of the urethra, urinary abscess, etc.			137 Diseases of the prostate Male	138 Diseases of the male genital organs (non-venereal) Male		Ovaries, Fallopian tubes and parametria	Uterus	Others under this title	EGNANCY, CHILDBIRTH AND THE	140 Abortion with mention of infection	Spontaneous, therapeutic or of unspecified origin with mention of pyelitis

VITAL STATISTICS BRANCH

TABLE 18.—CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

							-	M	MONTHS	S		-			
	CAUSES OF DEATH		TetoT	January	February	Матсћ	April	KeW	nue	July	September	October	November	December	
	(b) Spontaneous, therapeutic or of unspecified origin with mention of other infection	Female	61		-	-			1		-		-		1
	(c) Self-induced	Female		-	1	1		T	-	-	-	-	-		1
	(d) Induced by other person for non-therapeutic reasons	Female	1	П	- 1	1			1	1	1	-	-		-
141	Abortion without mention of infectionSub-total	Female	23	1000	1	-	-		1		-	-	-		-
	(a) Spontaneous, therapeutic or of unspecified origin with mention of haemorrhage, trauma or shock and toxaemia is	Female		-		1	1			1	-	1	1		. 1
	(b) Spontaneous, therapeutic or of unspecified origin with mention of haemorrhage, trauma or shock but not toxaemia	Female		I	1	1									1
	(c) Spontaneous, therapeutic or of unspecified origin with mention of toxaemia, but not haemorrhage, trauma or shock	Female	-	i	4	- 1			1		-	1			1
	(d) Spontaneous, therapeutic or of unspecified origin with- out mention of haemorrhage, trauma or shock or toxaemia	Female		:											
	(e) Self-induced	Female	-	T	1	1	-		1	-		1			1
	(f) Induced by other person for non-therapeutic reasons F	Female	-	****		-		1	1	1	1	1	1	-	1
142	Ectopic gestationSub-total	Female	4	100	1	-	23	1	1	-		-	-	-	-
	(a) With mention of infection	Female	2	-	T	T	-	T	1	-	-	1	-		-
	(b) Without mention of infection	Female	23		T	1	п	1		-	-	1		-	1
143	Haemorrhage of pregnancy, death prior to Sub-total Female	Female			1				1			-		-	1
	(a) Placenta praevia	Female		1	7	-	1	I	1	-			-	- 1	1
	(b) Premature separation of placenta	Female		T	1	-		1	1		-	-	-	-	1

144 Toxaemias of pregnancy, death prior to delivery—Subtotal Fernale 1 1 1 1 1 1 1 1 1		(c) Others under this title	Female	1	-	T	-		-	-	-	-	1	-	-	
(a) Eclampsia of pregnancy Female 1 1 1 1 1 1 1 1 1	144	Toxaemias of pregnancy, death prior to delivery Sub-total	remale	1	1		-		1		1			-	-	
(c) Acute yellow atrophy of liver (d) Others under this title (d) Pureperal thromboph bebitis (e) Acute yellow atrophy of liver (d) Others under this title (e) Without mention of infection (e) Without mention of infection (f) Premate separation of pacenta (e) Placenta pracyia (f) Premate separation of pacenta (g) Placenta pracyia (g) Placenta pracyia (g) Puerperal pracyia (g) Puerperal pracyia (g) Puerperal pracyia (g) Puerperal pracyia (g) Puerperal diveries and sudden death (g) Puerperal and puerperal infection (g) Puerperal consenius, following delivery (g) Puerperal consenius, following delivery (g) Puerperal diveries and nephritis (g) Puerperal consenius following delivery (g) Puerperal diveries and nephritis (g) Puerperal diveries and nephritis (g) Puerperal diveries and nephritis (g) Puerperal consenius, following delivery (g) Puerperal diveries and nephritis (g) Puerperal diveries and nephritis (g) Puerperal consenius following delivery (g) Remale (g) Acute yellow atrophy of liver (g) Acute yellow accidents of childbirth (g) Duerperal diveries and nephritis (g) Consensual consenius religions of childbirth (g) Others accidents of childbirth (g) Others conditions of childbirth (h) Other conditions of childbirth (h) Other conditions of childbirth (h) Other conditions of childbirth (h) Other conditions of childbirth (h) Other conditions of childbirth			remale					-	-	-	-		-		1	
(d) Others under this title Other delevery Other delevery Other delevery Other delevery Other diseases and accidents of pregnancy, death prior to Evenale (a) With mention of infection (b) Without mention of infection (c) Without mention of infection (d) Purportal preavila (e) Others under this title (f) Perpendix spartition of placenta (g) Purportal preavila (g) Purportal and pyclonephritis (g) Purportal thrombophlebitis (g) Purportal and pyclonephritis (g) Purportal delibitit (g) Purportal and pyclonephritis (h) Purportal and pyclo		Albuminuria and nephritis of pregnancy	Temale		1	1	-	1	-	-		-	-	-	-	
(d) Others under this title (e) With mention of infection (b) Without mention of infection (c) With mention of infection (d) With mention of infection (e) Discenta pracvia (f) Premature separation of placenta (g) Puerperal pracvia (g) Puerperal transphibitish and the puerperium Sub-total Female (g) Puerperal transphibitish and pyelonephritis (g) Puerperal toxemials, following delivery (g) Puerperal elampsia (g) Puerperal elampsia (g) Puerperal elampsia (g) Puerperal sudden death (g) Puerperal sudden death (g) Puerperal sudden death (g) Puerperal elampsia (g) Puerperal elampsia (g) Puerperal sudden death (g) Puerperal sudden death (g) Puerperal sudden death (g) Puerperal elampsia (g) Puerperal sudden death (g) Puerperal sudden dea		Acute yellow atrophy of liver	?emale	-	-	-	-		-		1	-	1		****	
Other diseases and accidents of pregnancy, death prior delivery (a) With mention of infection (b) Without mention of infection (c) With mention of infection (d) Puerperal enablism and sub-total Female (e) Puerperal thrombophebitis and pyelonephritis (e) Puerperal coacenias, following delivery (f) Puerperal albuminuria and nephritis (g) Puerperal albuminuria and nephritis (g) Puerperal albuminuria and pelvice organs (g) Puerperal albuminuria and police fremale (g) Puerperal albuminuria and nephritis (g) Puerperal coacenias, following delivery (g) Puerperal albuminuria and pelvic organs (g) Puerperal albuminuria and poliver (g) Puerperal albuminuria and pelvic organs (g) Other accidents of childbirth (g) Puerperal and issues (g) Other accidents of childbirth (g) Puerperal and issues (g) Other accidents of childbirth			Female		1	T	-	-	7	-					1	
(a) With mention of infection (b) Without mention of infection (c) Without mention of infection (d) Puerperal puerperal infection (e) Puerperal collapsia and sudden death (f) Puerperal collapsia and prophitis (g) Puerperal collapsia and prophitis (g) Puerperal collapsia and prophitis (g) Puerperal puerperal infection (g) Puerperal collapsia and sudden death (g) Puerperal collapsia and prophitis (g) Puerperal collapsia (g) Puerpera	145	death	Female	61	1	1	-			-	1		1	1	-	
Haemorrhage of childbirth and the puerperium Sub-total Female S			?emale		i	-		-					i	-	-	
Haemorrhage of childbirth and the puerperium Sub-total Female 1 1 1 1 1 1 1 1 1			Female	23	1	-	-	-		-	-			-		
(a) Placenta praevia Female 1 <th>146</th> <th></th> <th>Female</th> <th>10</th> <th>1</th> <th>-</th> <th>64</th> <th>-</th> <th>01</th> <th>-</th> <th></th> <th>1</th> <th>1</th> <th></th> <th>-</th> <th></th>	146		Female	10	1	-	64	-	01	-		1	1		-	
(c) Others under this title			Female	1	1		1	-	-	-	-	1		-	100	
(a) Puerperal pyelitis and pyelonephritis (b) General or local puerperium Sub-total Female (c) Puerperal phenomophlebitis (d) Puerperal embolism and sudden death (e) Puerperal enbolism and sudden death (f) Puerperal enbolism and sudden death (g) Puerperal enbolism and nephritis (g) Puerperal eclampsia (g) Puerperal eclampsia (d) Others under this title (e) Acute yellow atrophy of liver (f) Female (g) Puerperal eclampsia (g) Laceration, rupture or other trauma of pelvic organs (g) Laceration, rupture or other trauma of pelvic organs (g) Laceration, rupture or other trauma of pelvic organs (g) Laceration or other trauma of pelvic organs (g) Laceration organs (g) Lac			Female	1		-		-	-	-	-				-	
Infection during childbirth and the puerperium Sub-total Female			Fernale	63	T		-		1	-	-	1	10	-	-	
(a) Puerperal pyelitis and pyelonephritis Female 1 <t< th=""><th>147</th><th>Infection during childbirth and the puerperlum</th><th>Pemale</th><th>4</th><th>-</th><th></th><th>1</th><th>-</th><th>-</th><th></th><th>1</th><th>1</th><th></th><th>1</th><th>1</th><th></th></t<>	147	Infection during childbirth and the puerperlum	Pemale	4	-		1	-	-		1	1		1	1	
(b) General or local puerperal infection Female 1 <td< th=""><th></th><th></th><th>Female</th><th></th><th>1</th><th>-</th><th>1</th><th></th><th>,</th><th>-</th><th></th><th></th><th>1</th><th>-</th><th>1</th><th></th></td<>			Female		1	-	1		,	-			1	-	1	
(c) Puerperal thrombophlebitis Female 1			Female	1	-	-	-		-	-	1					
(d) Puerperal embolism and sudden death Female 6 1			Female	-	-	-	-		-	-	-	-		-	1	
Puerperal toxaemias, following delivery (a) Puerperal eclampsia (b) Puerperal albuminuria and nephritis (c) Acute yellow atrophy of liver (d) Others under this title Other accidents of childbirth (a) Laceration, rupture or other trauma of pelvic organs and tissues (b) Other conditions of childbirth (c) Acute yellow atrophy of liver (d) Others under this title Other accidents of elidbirth (a) Laceration, rupture or other trauma of pelvic organs Female (b) Other conditions of childbirth (c) Acute yellow atrophy of liver (d) Other accidents of elidbirth (e) Acute yellow atrophy of liver (f) Other accidents of childbirth (g) Laceration, rupture or other trauma of pelvic organs (g) Laceration, rupture or other trauma of pelvic organs (g) Laceration, rupture or other trauma of pelvic organs (g) Other accidents of childbirth (h) Other conditions of childbirth			Female	64		-	1		-	1		1		1	1	
(a) Puerperal eclampsia and nephritis . (b) Puerperal albuminuria and nephritis . (c) Acute yellow atrophy of liver (d) Others under this title (d) Other accidents of childbirth (a) Laceration, rupture or other trauma of pelvic organs (a) Laceration, rupture or other trauma of pelvic organs (b) Other conditions of childbirth (c) Acute yellow atrophy of liver (d) Cherale (e) Acute yellow atrophy of liver (f) Chemale (g) Cherale (g) Cherale (h) Other conditions of childbirth (h) Oth	148	Puerperal toxaemias, following delivery	Female	9	-	-	-	1	-		-	2		-	I	
(b) Puerperal albuminuria and nephritis . (c) Acute yellow atrophy of liver (d) Others under this title (d) Other accidents of childbirth (a) Laceration, rupture or other trauma of pelvic organs and tissues (b) Other conditions of childbirth (c) Acute yellow atrophy of liver (d) Chemale (e) Acute yellow atrophy of liver (f) Chemale (g) Laceration, rupture or other trauma of pelvic organs (g) Laceration, rupture or other trauma of pelvic organs (g) Chemale (h) Chemale (g) Chemale (h) Chemale			Female	57	-	-	-	-	-		-	1		-	1	
(c) Acute yellow atrophy of liver (d) Others under this title Other accidents of childbirth (a) Laceration, rupture or other trauma of pelvic organs and tissues (b) Other conditions of childbirth (c) Acute yellow atrophy of liver (d) Chemale (e) Acute yellow atrophy of liver (g) Chemale (h) Chemale (g) Chemale (h) Che		***************************************	Female	63	1	-	-	1	-	-	-	-		-	-	
(d) Others under this title Other accidents of childbirth Other accidents of childbirth (a) Laceration, rupture or other trauma of pelvic organs and tissues (b) Other conditions of childbirth (c) Other conditions of childbirth (d) Control Female (e) Other conditions of childbirth (e) Other conditions of childbirth			Female		-				-						1	
Other accidents of childbirth (a) Laceration, rupture or other trauma of pelvic organs and tissues (b) Other conditions of childbirth 1			Female	2	1		-	1	-	1	-	1	-	-	-	
rauma of pelvic organs Female 1 1 1 1	149	Other accidents of childbirth	Female	23	1		-	-		1		1	-		1	
Female		rupture or other trauma of pelvic organs	Female	1			1		-			1			-	
			Female	-	-	-	-			1	-			-	-	

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	CAUSES OF DEATH		TetoT	January	February	March	lindA	May	əunç	July	August	September	October	December
150	0 Other and unspecified conditions of childbirth and the puerperal state Sub-total Female	male	63	- 1	1	- 1		T		-	1	1	1	
	(a) Infection of breast during lactation Fe	Female			1	1	1		7	T	1	1	1	1
	(b) Psychosis of the puerperal stateFe	Female		-	10	i	-	-	T		1		1	T
	(c) Others under this title Fe	Female	60	-	1	i	н	1	T	-	1	1	1	1
CLASS	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE Mr. Fe	Total Male Female	01 9	664	TIII	111	111	2001	111		111	111		es es
151	Carbuncle and furuncle Phlegmon and acute abscesses Other diseases of the skin and cellular tissue	Male Female Male Female Male	0004	1 2 1 1	111111	111111	111111	11110	111111		111111		111711	
CLASS	XIII.—DISEASES OF THE BONES AND ORGANS OF MOVEMENT	Total Male Female	4 4		111	111	141	61 61	111	111		111	111	
155 156 156	Other diseases of the bones (tuberculosis excepted) Diseases of the joints and other organs of movement (a) Diseases of the joints (tuberculosis and rheumatism excepted) (b) Others under this title	Male Female Male Female Female Male Female Male Female Female Fremale Total	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		111111111111111111111111111111111111111	111111111111111111111111111111111111111		TT T T T	111111111111111111111111111111111111111		11111 11 120		111111111111111111111111111111111111111	111111111111111111111111111111111111111

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genital malformations Congenital hydrocephalus Spina bifida and meningocele Anencephalus Congenital malformations of the heart Others under this title	E FIB	genital debility mature birth ry at birth Intracranial or spinal haemorrhage Other intracranial or spinal injuries Others under this title er diseases peculiar to the first year of li Asphyxia (unspecified), atelectasis Infection of the umbilicus, pemphigus infections Other specified diseases peculiar to the f SENILITY With dementia With dementia
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Congenital malformations (a) Congenital hydrocephalus (b) Spina bifida and meningocele (c) Anencephalus (d) Congenital malformations of (e) Others under this title	DISE	Congenital debility Premature birth Injury at birth (a) Intracranial or spinal haemorrhage (b) Other intracranial or spinal injuries (c) Other diseases peculiar to the first year (a) Asphyxia (unspecified), atelectasis (b) Infection of the umbilicus, pemphinifections (c) Other specified diseases peculiar to t XVI.—SENILITY Senility (a) With dementia (b) Without dementia
Cong (a) C (b) S (c) A (d) C (e) C	KV.	Congenit Prematu Injury a Injury a (a) Intra (b) Other (c) Other (d) Aspl (b) Infe infe (c) Other (c) Other (d) Witt
157	CLASS XV.—DISEASES PECULIAR TO THE FIRST X	158 Congenital debil 159 Premature birth 160 Injury at birth (a) Intracranial (b) Other intrac (c) Other unde 161 Other diseases p (a) Asphyxia (u) (b) Infections (c) Other specif (c) Other specif (d) With demen (b) Without des
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TABLE 18.—CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

			_				M	MONTHS					1
	CAUSES OF DEATH		Total	February	Магећ	lingA	May	June	tsuguA	September	October	November	Decemper
CLASS	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS FO	Total Male Female	556 440 116	48 38 10	33 41 22 32 11 9	338	8889	37	61 5	52 46 34 6 9	577	36	56 41 15
163, 164	Suicides Total	Male Female	79	1-61	9	6000	600	00 00	==	10 00	10.00	4-	60
163	Suicide by poisoning	Male Female	1210		60	61		101	00	-			
	, solid and liquid poisonings	Male Female Male	22.00	-	00	61	H		60 -	1 2	63		
164	Suicide by other means Sub-total	Female Male	. 19			-	6	9	4 00			1 163	
	(a) By hanging or strangulation M	Female Male	18	01-1	10 10	63 A	04 04	-				11	1
	(b) By drowning	Female Male	14 m			111	04	4		11	00 00	11	11
	(c) By firearms or explosives	Female Male	380	- 60		200	- 01	63,	H 60		64.	.00	63
	(d) By cutting or piercing instruments	Male		-	N :	1	-	- 1	11	-	-		11
	(e) By jumping from high places	Female Male Female		115		-	111	11	11	11			11
	(f) By crushing	Male	103	•	-	-			11				
	(g) By other or unspecified means	Male	2		-				-				
166-168	Homicides Total	remaie Male	4	-	-		11	11	-	11		1.1	-
166	Homicide by firearms	Female Male	N	-	11	11	11	TI	11		-	11	
167	Homicide by cutting or piercing instruments	Female Male		-			11	11	F				
168	Homicide by other or unspecified means	Female Male	60 -	-	1		11		11	14			-
169-195	Accidental deaths	remaie Male Female	352	30	18 22 6 9	214	23 a	80 00	25.	53 10	29 38 5	Sin	1533
169	Rallway accidents (excluding motor vehicles)	Male Female	14				-	27					2

TABLE 18.—CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

		84-8 8 HH 8484
	December	
	November	4 H SHH SHH
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	Total	25 12 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1
		Male Female Male Female
		HARMAN AND AND AND AND AND AND AND AND AND A
	H	rcing instruments. Ing. Sub-total Scorepational) Sub-total Sub-total ization, inoculation or or surgical intervention
	CAUSES OF DEATH	Conflagration Accidental burns (conflagration excepted) Accidental mechanical suffocation Accidental injury by firearms Accidental injury by fall or crushing instruments Accidental injury by fall or crushing Accidental injury by fall (b) Accidental injury by crushing Injury by animals Injury by animals Excessive cold Excessive heat Lightning Accidents due to electric currents Actidents due to electric currents Actidents due to electric inmunization, inoculation or vaccination (a) Sequelae of preventive immunization, inoculation or vaccination (b) Other accidents due to medical or surgical intervention
	CAUSES OF DEAT	180 Conflagration 181 Accidental burns (conflagration exc 182 Accidental drowning 184 Accidental injury by firearms 185 Accidental injury by fall or crushi (a) Accidental injury by fall (b) Accidental injury by fall (c) Accidental injury by crushing 188 Injury by animals 190 Excessive cold 191 Excessive heat 192 Lightning 193 Accidents due to electric currents 194 Attack by venomous animals (non- 195 Other accidents (a) Sequelae of preventive immurvaccination (b) Other accidents due to medical

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(c) Lack of care of the new-born (d) Obstruction, suffocation or puncture by ingested objects Male (e) Other and unspecified objects (e) Other and unspecified objects (f) Obstructions of war and legal executions (e) Other and unspecified objects (f) Obstructions of war and legal executions of war (e) Other and unspecified objects (f) Female (g) Deaths of persons in military service during operations of war (g) Deaths of civilians due to operations of war (g) Deaths of civilians due to operations of war (g) Male (h) Male (h) Male (h) Male (h) Male (h) Female (h) Male (h)	CLASS XVIII.—II.L.DEFINED AND UNKNOWN CAUSES OF DEATH DEATH 199 Sudden death 200 III-defined and unknown causes (a) IIII-defined (b) Found dead (c) Unknown or unspecified causes (c) Unknown or unspecified causes (d) Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female

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Accidental absorption of poisonous gas		15	1	-	01	1 1	0.000	-	62	62	4	1
	Female	-	1	-	-	1					1.	10
Accidental burns		No	20 -	-	-	1 20	N+	200	4.0	N -		200
	Female 2		-	-		7		7-	4-	7		-
Accidental mechanical suffocation	Female		-			•	-	1	•	T	•	03
Accidental drowning	Male 39		23	63	01	4 51	6	6		NO.	00	1
	le	-	1000			1	65	-	1	1	-	
Accidental injury by cutting or piercing instruments				-	-		-	-	1	-	1	1
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	CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS L-INFECTIOUS AND PARASITIC DISEASES	1 Typhoid fever 2 Paratyphoid fever	5 Undulant fever	8 Scarlet fever	9 Whooping-cough 10 Diphtheria		13-22 Tuberculosis Total	13 Tuberculosis of the respiratory systemSub-total	(b) Without mention of occupational diseases of	(c) Unspecified site
		Total Male Female	Total Male Female	Male Female Male Female	Male Female Male	Female Male Female	Male Female Male	Female Male			Male Female Male	Female Malc Female
-	Total	1022 627 395	222		111		111	11	15	12	6	1 12
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	2-9 years	00 t	000	1111			111	11	63	-	117	111
	10-14 years	00 01 m	111				111	11	111		11	TII
	12-19 years	16 1	211		111	111		11	-	111		TIT
	Z0-Z4 years	3228	21-1	1111	111		111	II		-	2	-
	30-34 years	22 II 8 00 8	4-6	1111	111	111	111	11	- 1	- 63	1111	60
	32-39 years	8 19 8 11 8	63 63	1111	111	111	111	11	00			60
AGES	40-44 years	15	940	HH	111		111			200		61
US.	42-49 years	222	900	1111	111	111	111	11			-	
	20-24 years	2836	10411	1111	111	111	111	II	60	00	63	TIT
	22-29 years	156	6161	1111	111	111	111	11	63		11 1	111
	62-69 years 60-64 years	35	10.41		111		111	111	-	-	7	111
	70-74 years	75 6 34 4	6161				111	II	-	-	777	TIT
	12-19 years	08 100 60 69 48 31		NII	111	111		11				111
	80-84 years	135	000			111	111	11	-			
	82-89 years	18 28			111	111	111	11				111
	90-94 years	11 6			111			11				
	92-99 years	63 63	7111		111	111		11				
	100 years	111	TIII	1111	111	111	111	11		11		
11 1	Not stated	1111		1111	111	111	111	11		11	11 1	111

	(d) With mention of dementia praecox	Male	1	-																				
14	Tuberculosis of the meninges and central nervous	Female								T												1 1		1 1
121	Tuberculosis of the intestines and peritoneum							-	11	II	11		-		11		11	11	11	11	II		-	
16	Tuberculosis of the vertebral column	Female		11	11	H				11		1 1	11									1 1		
17	Tuberculosis of other bones and joints	Female		11		11				II	11	11		11		11			н			1 1	-	
	(a) Bones	Maie								H	11	4 1 -				11			П			1 1		
	(b) Joints	Male								11						11			-					
22	Disseminated tuberculosis	Female								11									II					
	(a) Acute generalized miliary	Female				II				H			11						H					
	(b) Other and unspecified generalized	Male								11														
22	Gonococcus infection	Female					-			II									11					
92	Symbilis	Female														-			11					
3										1						-			1					
	(a) Locomotor ataxia (tabes dorsalis)	Female																						
	(b) General paralysis of the insane	Male								I									T					
	(c) Other syphilis of the central nervous system	200														-								
	(a) Omers under this title	Female														-								
325	Other diseases due to spirochaetes	Male														1			T					
55	Influenza	Female Male								III						11			6.1					
3										I						1			0					
	(a) With resporatory complications	Female				II				П									1					
	(b) Without respiratory complications	Male				I																		
34	Small-pox	Male				I				T										T				
100	Mendan	Female				1	1			ī	1													
2	Medsies	Female								I														
36	Acute poliomyelitis and polioencephalitis	Male Female					11	11	1 1				1 1						11	11		1 1	1 1	
37	Acute infectious encephalitis	Male				1		-	I	1		1	-	-				1	1				1	
38	Other diseases due to filterable viruses	Male									II							1.1	П					
40		Female							11			1 1		1 1							1 1	100	101	
25		Female																						

TABLE 19.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1946—Continued

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	60-64 years		22	-	-		111			1 1 1		3.5		1
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-	40-44 years	11	co == 63	-67		111	111						11	TI
	32-39 years	11	01 01	-		111	111	111		H	III		11	TI
•	30-34 Aegus	11		-			111						11	T
	Z2-Z9 years		111	111		111								TT
	20-24 years		:	111		111	111						11	+
	15-19 years	- 1												-
	40-14 years	11	111	111		111	111							11
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	4 years		111		1111	111	111			111			11	TT
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		Male Female	Total Male Female	Total Male Female Male	Male Female Male	Female Male Female	Male Female Male	Male Male Female	Female	Male Female	Female	Male	Male Female	Male
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		ymp	NC	r ar	peritoneum Cancer of the oesophagus	f th	Of the duodenum Of the rectum and	th th	Of the pancreas	f th	r of	f th	f th	f th
		(b) Lymphogranulomatosis (Hodgkin's disease)	CA	Cancer and other malignant tumours	Cancer of the digestive organs and peritoneum (a) Cancer of the oesophagus	(b) Of the stomach	(c) Of the duodenum (d) Of the rectum and anus	(e) Of the intestines	(g) Of the pancreas	(h) Of the mesentery and peritoneum.	(m) Omer and unspection sites	(a) Of the larynx	(b) Of the lung	(c) Of the mediastinum and other sites
			H.		Can (a)	(e)	(g) (g)	(e)	(g)	8	5	(a)	9	0)
1		44	CLASS II.—CANCER AND OTHER TUMOURS	45-55	46						47			
			Tra	45										
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TABLE 19.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1946—Continued

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	and over	111		ПП	111	TT	111			T		11	H	III
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	90-94 years	111	111	1111	111	11	III	П	III	II	111	11	11	111
	82-89 years	111	111	1111	111	T	111	III		11	111	11	11	111
	80-84 years	211	111		-	TIT	-		1	11	IIII	H	11	111
	12-19 years	TIII	111	TITT	111	III	111	III		II		11	11	III
	70-74 years	10 60 61	111	64		11	-	1	111	11	111	11	11	111
	65-69 years	13 - 13								11	111	11	11	
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	45-49 years	111	111	1111	III	TI	111	III		H		11	11	111
AGES	40-44 years		111	1111	- 11	11				11		11	11	111
A	32-39 years		111	1111	-	11		11	111	11	111	11	11	111
	30-34 Years	111	111	1111	111	11	111		111	11	111	11	11	111
	S2-S9 years				-	11	111			11		11	11	111
	20-24 years			1111	111					11		11	11	
	12-19 years	111	111	1111	111	H	111			11	111	1.1	11	111
	10-14 years			UIII								11	11	111
	2-9 years	111	111		111	11	111	1:		11	111	H		IIII
	4 years	111	III		111	11	11,1	II	П	H	H	H	III	III
	3 years	111	111		111	11	TI	11		11		11	11	111
	2 years		HH	1,111	111	11	111	11		11		11	H	111
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		Total Male Female	Male Female Male	Male Female Male	Female Male Female	Male Female	Male Female Male	Female Male	Male	Male Female	Female Male	Male	Male	Female Male Female
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	CAUSES OF DEATH	CLASS III.—RHEUMATISM, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS, OTHER Total GENERAL AND VITAMIN DEFICIENCY DISEASES Male	58 Acute rheumatic fever (a) Acute rheumatic heart conditions	(b) Others under this title		62 Diseases of the pituitary gland			(c) Myxoedema and cretinism		65 Diseases of the adrenal glands (Addison's disease)	66 Other general diseases	(a) Osteomalacia	(b) Others under this title
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Male Female Male Female		Female Male Female	Sub-total Male Female Male	gkin's disease excepted)						Male Female Male		Female Male Female	Total Male Female	Sub-total
Male Female Male Female	OUS	Female Male	Sub-total Male Female Male	gkin's disease excepted)			Sub-total			Male Female Male			Total Male Female	Sub-total
Male Female Male Female	OUS	Female Male Female Female	Sub-total Male Female Male	gkin's disease excepted)			Sub-total		er this title	Male Female Male			Total Male Female	Sub-total
Male Female Male Female	OUS	Female Male Female	Sub-total Male Female Male	gkin's disease excepted)			Sub-total		er this title	Male Female Male			Total Male Female	Sub-total
Male Female Male Female	OUS	CONSTRUCTION OF THE PROPERTY O	Sub-total Male Female Male	gkin's disease excepted)			alcoholism Sub-total		er this title	Male Female Male			Total Male Female	Sub-total
Male Female Male Female	OUS	CONSTRUCTION OF THE PROPERTY O	Sub-total Male Female Male	gkin's disease excepted)			alcoholism Sub-total		er this title	Male Female Male			Total Male Female	Sub-total
Male Female Male Female	OUS	CONSTRUCTION OF THE PROPERTY O	Sub-total Male Female Male	gkin's disease excepted)			alcoholism Sub-total		er this title	Male Female Male	Occupational	Non-occupational	Total Male Female	Sub-total
Pellagra Rickets Rickets Male Male Female Male Female Temale Female Female Female Female Female Female Female Female Female	Haemorrhagic conditions	Anaemies	Leukaemias and aleukaemias Sub-total Male Female (a) Leukaemias	(b) Aleukaemias (Hodgkin's disease excepted)	Other diseases of the blood and blood-forming organs		Alcoholism Sub-total (a) Acute alcoholism	(b) Chronic alcoholism Female Female Maile Female	(c) Others under this title	Lead poisoning Male Female Chronic poisoning by other mineral and organic substances Sub-total Male			Total Male Female	Meningitis (non-meningococcal)Sub-total
Male Female Male Female	OUS	CONSTRUCTION OF THE PROPERTY O	Sub-total Male Female Male	gkin's disease excepted)	Other diseases of the blood and blood-forming organs	CLASS V.—CHRONIC POISONING AND INTOXICATION Male Female	alcoholism Sub-total		(c) Others under this title	Male Female Male	Occupational	Non-occupational	le	Sub-total

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	CAUSES OF DEATH	(a) Diseases of the teeth and gums	(b) Septic sore throat	(c) Diseases of the pharynx and tonsils	(2) Others and a thin this	(a) Omers under uns une	Diseases of the oesophagus	or auodenum	(a) Stomach	(b) Duodenum	Other diseases of the stomach		Diarrhoea and enteritis (under 2 years of age) Sub-total Male	(a) Diombos and anisatic	(a) Diaminora and cincerno	(b) Ulceration of the intestines	Diarrhoea and enteritis (2 years of age Sub-total Male	(a) Diarrhoes and enteritis	(b) Illocation of the intestines	(b) ofceration of the missings	Appendicitis	Hernia, intestinal obstructionSub-total	(a) Hernia	(b) Intestinal obstruction
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Cirrhosis of the liver (a) With mention of alcoholism (b) With mention of alcoholism (c) With mention of alcoholism (d) With mention of alcoholism (e) With mention of alcoholism (e) Other diseases of the liver (e) Others under this title (e) Others under this title (f) Others under this title (f) Others under this title (h) Other diseases of the gall-bladder and bile ducts wale (f) Peritonitis without stated cause (f) Chronic nephritis nspecified (over 10 years of age) (f) Chronic nephritis unspecified (over 10 years of age) (f) Chronic nephritis unspecified (over 10 years of age) (f) Chronic nephritis unspecified (over 10 years of age) (f) Chronic nephritis unspecified (over 10 years of age) (f) Chronic nephritis unspecified (over 10 years of age) (f) Chronic nephritis uninary passages (f) Chronic nephritis uninary passages (g) Chronic nephritis (over 10 years of age) (h) Chronic nephritis (over 10 years of age) (g) Chronic nephritis (over 10 years of age) (h) Chronic nephritis (over 10 years	l organs (non-venereal)
ism Sub-total sub-total sub-total and bile ducts and bile ducts and bile ducts and ucters abscess. Sub-total	Diseases of the male genital organs (non-venereal)

TABLE 19.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1946—Continued

	CAUSES OF DEATH	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	Abortion with mention of infectionSub-total Female	(a) Spontaneous, therapeutic or of unspecified origin with mention of pyelltis	(b) Spontaneous, therapeutic or of unspecified origin with mention of other infection	(c) Self-induced	(d) Induced by other person for non-therapeutic reasons	Abortion without mention of infection	(a) Ectopic gestation, with mention of infection	Haemorrhage of pregnancy—death prior to delivery	Toxaemias of pregnancy, death prior to delivery.	(a) Sclampsia of pregnancy	(b) Albuminuria and nephritis of pregnancy	(c) Acute yellow atrophy of liver	(d) Others under this title	Other diseases and accidents of pregnancy, death	Haemorrhage of childbirth and the puerperium	(a) Placenta praevia	(b) Premature separation of placenta
		RTH Total		fied Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female .	Female	Female	Female	Female
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	10-14 Years		-		-	-	- 1	-		1	-	1	-		-	-		-	
	12-19 years		-		- 1	-		-		-		-	-	-	-	-	-	-	-
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	25-29 years	- 61	. !	1		1	1	1	-	-	1	1	1	-	1		1	1	
	30-34 years	- 1	-	- 1	-	-	- 1	1	-	1	-	-		-	-		-	-	1
AGES	40-44 years	1 1	-	- 1	- 1	-	- 1	-	-	1	1	-	1	-	-	-	-	-	-
SS	45-49 years		1				- 1	1			1		1		1		-	1	1
	50-54 years	1	T			T	- 1	1		1	T	-1	1	1	1	1	1	1	I
	60-64 years	- 1			1	-	-	-	-	1	1	-	-	1	-	1	1	-	-
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	70-74 years	-									1	T		T			-		1
	75-79 years	1	-	- 1	-	-	1	1		-		-	+	-	-		-	1	1
	80-84 years	- 1	4	- 1	1	-	- 1	- 1	-	-	10	- 1	-	-	1	- 1	1	-	-
	82-89 years		1			-	1	1	-		-	-	-		-		-	-	
	90-94 years			1			- 1	-	1		1	-	1		1			-	
	92-99 years	1	1	1	1	T	I	1	T	T	-	1	1		1			-	
	100 years and over Not stated	- 1	-		-	-	1	-		1	Ť	i	1			-	1		
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The congenital and periodical propertion Female 1		147	148					149	150	CLASS	151 152 153	CLASS	154	CLASS	157
Female 1 <th>(c) Others under this title</th> <th>Infection during childbirth and the puerperium</th> <th></th> <th>(a) Puerperal eclampsia</th> <th>(b) Puerperal albuminuria and nephritis</th> <th></th> <th>(d) Others under this title</th> <th></th> <th></th> <th></th> <th></th> <th>XIII.—DISEASES OF THE BONES OF MOVEMENT</th> <th>Osteomyelitis and periostitis Other diseases of the bones (tuberculosis cepted)</th> <th>XIV.—CONGENITAL MALFORMATIONS</th> <th></th>	(c) Others under this title	Infection during childbirth and the puerperium		(a) Puerperal eclampsia	(b) Puerperal albuminuria and nephritis		(d) Others under this title					XIII.—DISEASES OF THE BONES OF MOVEMENT	Osteomyelitis and periostitis Other diseases of the bones (tuberculosis cepted)	XIV.—CONGENITAL MALFORMATIONS	
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TABLE 19.—CAUSES OF DEATH BY SEX AND AGE II
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	CAUSES OF DEATH	(e) Others under this title	CLASS XV.—DISEASES PECULIAR TO THE FIRST YEAR TOTAL OF LIFE OF LIFE Femal	Congenital debility	Premature birth	r spinal haemorrhage	(b) Other intracranial or spinal injuries	(c) Others under this title	Other diseases peculiar to the first year Sub-total Male	Asphyxia (unspecified), atelectasis	Infection of the umbilicus, pemphigus and other infections	Other specified diseases peculiar to the first year of life		CLASS XVI.—SENILITY	Senility	(a) With dementia (b) Without dementia
		Male Female	Total Male Female	Male Female		Female Male	Female Male		Male	Female Male	and the same of		Female Total	Male Female	Male Female	Male Male Female
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	10-14 years	-11	111		III		11	11		11	1 1	1 1	1 1	11		
	15-19 years	-11	111				11	11		11	1 1	1 1	1 1	11	11	1111
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	20-24 Xests						11									
	22-29 years						11	11	1 1		1	1 1 1	1 1	11	11	
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	20-24 years 62-69 years	-11						II				11	1 1	11	TI	1111
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	90-94 years	11	111				11						•	55	122	122
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CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS	4	soning ve substances, solid and	polsonings (b) By polsonous gas	Suicide by other meansSub-t-	(a) Suicide by hanging or strangulation	By firearms or explosives	By cutting or piercing instruments	(e) By jumping from high places	(g) By other or unspecified means		Homicide by firearms Homicide by cutting or piercing instruments	Homicide by other or unspecified means	Railway accidents (excluding motor vehicles)	Motor vehicle accidentsSub-t-	(a) Collisions with trains (b) Collisions with street-cars	Automobile accidents (excluding trains street-cars)	d) Motorcycle accidents (excluding automobiles) Street-car and other road transport accidents

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088	(a) Street-car accidents (excluding trains and	Male																-								
	(b) Others under this title	Female Male							11				11		TI			III			11	1 1	-			11
172	Water transport accidents	Female	-63	11	11	TI	11	11	11	F	н	1 1		H	H	II	11	TI	T		11	- 1	11			11
173	Air transport accidents	Male	17	11		TT			11		II	4 :		П	11		1 1*	1.1	11	II	11	11	1 1			11
174	Accidents in mines and quarries	Male	-	H			11	11	11		11	11	11	11		11	4 :	11	11		11	1 1	1 1			11
175	Agricultural and forestry accidents	Male	H	II	11				I	II	, 11	-	11		11		11	M	III	II	11	1 1	1.1			11
	(a) Accidents involving agricultural machinery and vehicles	r emale Male	1	1 1		1 1	1 1	1 1	1 1								1 1		1				1 1	1 1		1 1
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177	Food poisoning	Female Male		11	T	11	11			11	11	11	11	11	H	11		11	11	II	11	1 1	1 1	11	11	11
178		Female Male	00	11	T	11	11		11	11	6.0		101	11	11	H	11		11	11	11	11	11	11	11	11
		Female Male		11	II	1 1				11		11	11			11			11	11					11	11
	(b) Motor vehicle exhaust gas	Female Male	-				11	11		11	11	-			11	11	11		11	11			11	1 1	11	11
	(c) Other carbon-monoxide gas	Female	-	11	11	11	11	11	11	11	-	1 1	11	11	11	11	11	H	11	11		11	11	1.1	11	11
	(d) Other poisonous gases	Female Male	-	11	11	11	11	11	11	H	н	11	11	11	11	11	TT	II	11	11	11	11	1 1	1 1	11	11
179	Acute accidental poisoning by solids or liquids	Male	H	11		1 1	11	11	11			1 1	11			H			-	111		11		1 1		
180	Conflagration	Male	H	11	11				T	11							-		II				1 1		1 1	
181	Accidental burns (conflagration excepted)	Female Male Female	- 00 0	11		1 1	11	-		-	TI	1 1				-	1 1		11	11		11	1 1			
182	Accidental mechanical suffocation	Male	001	-		• :		11	11	11		11					1						1 1			
183	Accidental drowning	Male	2	11	11	1 1	-	11		-		11	11	11	11	II	11	П	H	II		II	1 1	1 1	11	11
184	Accidental injury by firearms	Male Female	-	H	11					П	II		17		11	11			III				1 -1	1 1		

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Accidental injury by cutting or piercing instruments Accidental in jury by fall or crushing (a) Accidental injury by fall (b) Accidental injury by crushing Excessive cold Other accidents Operations of war and legal executions XVIII.—ILIDEFINED AND UNKNOWN CAUSES OF DEATH Sudden death Ill-defined and unknown causes (a) Ill-defined (b) Found dead (c) Unknown or unspecified cause	CATION OF ACCIDENTAL I TO CIRCUMSTANCE absorption of poisonous gas burns mechanical suffocation drowning injury by cutting or piercing injury by fall injury by crushing due to electric currents
Acci (a) (b) Oth Oth Ope (a) (b) (c) (c) (c)	SIF) ttal ttal ttal ttal ttal ttal ttal tta
	CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO THE ACCIDENT TO CIRCUMSTANCES INVOLVING THE ACCIDENT Accidental absorption of poisonous gas Male Female Accidental mechanical suffocation Female Residential injury by cutting or piercing instruments Female Accidental injury by fall Female Female Accidental injury by cushing Female Female Accidents due to electric currents Female Female Female Male Female Female Female Female Male Male Male
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1946

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	65-69 years	146 98 48	100	11	111	11	11	11		II	I		1		TII
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	12-19 years	0.410	60 60		1.11	11	11	11	1.1	60	03			111	1 11
	10-14 years	10.4=	65 67 =			1	11	11	•	-	-		-	•	111
	2-9 years	61													1 11
	4 years		111												1 11
	3 years	111	111		111	H	TI	11	П	П			1		1 11
	2 years	211			111	11	11	11	П	П				III	TII
	I year	0044	111	11	111	11	11	11					1		111
	Under 1 year	101 62 39		11	III	11	11	II	11						1 11
	Total	996 607 389	522			III	11		1	16	13	-	-	1 6	
		Total Male Female	Total Male Female	Male	Male Female Male	Female Male	Female Male	Male Female	Male	Male	Male	Male	Female	Female Male	Female Male Female
		FEH	FAH	MH.	MH/M	46		464	-	Total N	lal H			HA	
	CAUSES OF DEATH	SES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Te.	Paratyphoid fever Cerebrospinal meningitis	Le	ugno was the same of the same				Tuberculosis of the respiratory system. Sub-total Male	(a) With mention of occupational diseases of lungs	Without mention of occupational diseases of	fled site	Tuberculosis of the meninges and central nervous
	Ü	DEATHS-ALL CAUSES	LASS I.—INFECTION		2 Paratyphoid fever 6 Cerebrospinal meni	8 Scarlet fever	9 Whooping-cough	10 Diphtheria	11 Erysipelas	13-22 Tuberculosis	13 Tuberculosis	(a) With mention	(b) Without	(c) Unspecified site	14 Tuberculosis system
		ā	3							-					

				Tuberculosis of the intestines and peritoneum Male 1 Female (a) Disseminated tuberculosis, acute generalized Male 2	e e	 Female 2 Male 1	60 -	103	Male 2 Female 1	9 1 5 9 1 5	44		- I	le 1	Male Female	le 1	Fenale Male	le	Male 75 Female 81	Total Male 74
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1946—Continued

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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1946—Continued

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alco	ES	8	ani	(no	Simple meningitis	cer	i th	al	al	al	leg	With mention of arteriosclerosis	tal disorders and deficiency (ge paralysis of the insane excepted)		as (ase		Sils	sis
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(a) Acute alcoholism	NSI	Encephalitis (non-epidemic)	a) Intracranial abscess	(b) Others under this title Meningitis (non-meningococcal)	(a) S	(b) Acute cerebrospinal meningitis	Diseases of the medulla and spinal cord Intracranial lesions of vascular origin	(a) Cerebral haemorrhage or effusion	(b) Cerebral embolism and thrombosis	(c) Cerebral softening	(d)	(e)	Mental disorders and deficiency (general paralysis of the insane excepted)	Epilepsy	Convulsions (under 5 years of age)	Other diseases of the nervous system	(a) Chorea	(b) Neuritis	(c) Paralysis agitans
	ASS VI.—DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS		3		0		3. 79	3	-	-	-	-	84 3	855 E	36	87 0			
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1946—Continued

	VITAL STATISTICS BRANCH
Not stated	
100 years	
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90-94 years	
85-89 years	111111111111111111111111111111111111111
80-84 years	1111 11111 1111 11 12 12 12 12 13 11 11 11 11 11 11 11 11 11 11 11 11
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22-29 years	
20-24 years	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
45-49 years	
40-44 years	
32-39 years	1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
30-34 years	
25-29 years	7
20-24 years	
12-19 years	
10-14 years	
2-9 years	
4 years	
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АТН	the mastold process es of the ear d process d process Total tic excluded) Sub-total learditis heumatic) Sub-total (acute, subacute or te endocarditis tiled under 45 years). valves and Sub-total eases (rheumatic)
CAUSES OF DEATH	(d) Disseminated sclerosis (e) Others under this title 88 Diseases of organs if vision 89 Diseases of the ear and of the mastoid process (a) Otitis and other diseases of the ear (b) Diseases of the mastoid process (a) Chronic rheumatic excluded) Sub-total (a) Chronic rheumatic pericarditis (b) Others under this title (b) Others under this title (c) Endocarditis (non-rheumatic) Sub-total (d) Other acute or subacute endocarditis (e) Other acute or subacute endocarditis (f) Other acute or subacute endocarditis (g) Chronic affections of the valves and endocardium Sub-total (a) Specified valvular diseases (rheumatic)
	100 years 10 years 1

8	26 8 8	97 98 99 100 102 CLASS
(b) Other specified valvular diseases (non-rheumatic) (c) Unspecified valvular lesions and endocarditis. Diseases of the myocardium Sub-total (a) Acute myocarditis (b) Myocarditis (not specified under 45 years) (c) Chronic myocarditis and myocardial degeneration (rheumatic) (d) Chronic myocarditis (not enotited)	Diseases of the coronary arteries and angina pectoris (a) Diseases of the coronary arteries (b) Angina pectoris Other diseases of the heart (a) Functional diseases of the heart (no organic lesion) (b) Other diseases of the heart (rhemuatic) (c) Other diseases of the heart (non-rheumatic) Aneurysm (heart and aorta excepted)	Arteriosclerosis (coronary or renal sclerosis or cerebral haemorrhage excepted) Gangrene Other diseases of the arteries Diseases of the veins High blood pressure (idopathic) VIII.—DISEASES OF THE RESPIRATORY SYSTEM
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1946—Continued

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	у реатн	,	iffied		***************************************	(pa			#114	utle	Haemorrhagic infarction, congestion, oedema and thrombosis	Haemorrhagic infarction and thrombosis of		THE		Other diseases of the respiratory system (tuber-			unspecified forms of pneumo-		lung	s title
	CAUSES OF DEATH	Diseases of the larynx	(c) Bronchitts, unspecified	Broncho pneumonia	Lobar pneumonia	Pneumonia (unspecified)	Pleurisv	formati	(a) Empyema	(b) Others under this title	Haemorrhagic infarction thrombosis	(a) Haemorrhagic in	and tunings	(b) Others under this the	Asthma	Other diseases of the	canonia cucabana	(a) Silicosis	(b) Other and unsp	conjoses	(c) Gangrene of the lung	(d) Others under this title
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		1			Diarrhoea and enteritis (2 years of age and over)			-							- Contract						Other diseases of the gall-bladder and bile ducts	-	
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7	Ulcer of the stomach or duodenum (a) Stomach (b) Duodenum	Other diseases of the stomach	(a) Diarrhoea and enteritis (under 2 years of age)	(b) Ulceration of the intestines	lar	(a) Diarrhoea and enteritis	(b) Ulceration of the intestines	Appendicitis	Hernia, intestinal obstruction	(a) Hamin	10	(b) Intestinal obstruction	Other diseases of the intestines	Cirrhosis of the liver	(a) With mention of alcoholism	(b) Without mention of alcoholism	Other diseases of the liver	(a) Acute vellow atrophy	(h) Others under this title	Dillows colouli	the	Diseases of the pancreas	Peritonitis without stated cause
LASS IX.—DISEASES OF THE DIGESTIVE SYSTEM				-		0	0				-	_			-	9			-				
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	CAUSES OF DEATH	CLASS X.—DISEASES OF THE URINARY AND GENITAL Total SYSTEMS Remai	Acute nephritis	Chronic nephritis Nephritis unspecified (over 10 years of age)	Other diseases of the kidneys and ureters	Calculi of the urinary passages	Diseases of the urinary bladder	Diseases of the prostate	Diseases of the female genital organs (non-venereal)	(a) Ovaries, Fallopian tubes and parametria	(b) Uterus	(c) Others under this title	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	Abortion with mention of infection	(a) Spontaneous, therapeutic or of unspecified origin with mention of pyelitis	(b) Spontaneous, therapeutic or of unspecified origin with mention of infection	(c) Self-induced
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(d) Induced by other person for non-therapeutic Female	141 (e) Abortion without mention of infection, self-induced Female	147 Infection during childbirth and the puerperlum Female	(a) Puerperal pyelitis and pyelonephritis Female	(b) General or local puerperal infection Female	(c) Puerperal thrombophiebitis Female	(d) Puerperal embolism and sudden death Female		152 Phiegmon and acute abscesses Female	CLASS XIII.—DISEASES OF THE BONES AND GRGANS Total OF MOVEMENT Male Female	XIV.—CONGENITAL MALFORMATIONS Male Female	157 Congenital malformations (a) Congenital hydrocephalus (b) Spina bifida and meningocele (c) Anencephalus (d) Congenital malformations of the heart. (e) Others under this title (e) Others where this title (f) Congenital malformations of the heart. (e) Others under this title (f) Congenital malformations of the heart. (e) Others under this title (f) Male (f) Male (f) Male (f) Male (f) Congenital malformations of the heart. (e) Others under this title (f) Male (158 Congenital debility Male Female Male Male Female Female Female

TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1946—Continued

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	15-19 years		1111			111		01	
	10-14 years		1111		11		111111	:	
	2-9 years		1111	11 11	11			211	1111
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		Male Female Male Female Male	Male Female Male Female	Female Maie Female	Male Female	Male Female	Male Male Female Male Male	Total Male Female	Male Male Female
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	CAUSES OF DEATH	es	(c) Others under this title M F 161 Other diseases peculiar to the first year of life M (a) Asphyxia (unspecified), atelectasis M	Infection of the umbilicus, pemphigus and other infections	year of life Especified diseases peculiar to the first N year of life F F F	XVI.—SENILITY	(a) With dementia Fer (b) Without dementia Ma	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS.— Fen	163, 164 Sulcides Total Male Femal 163 Sulcide by poisoning Male Femal Femal Male

Female 1		ide by other means	By hanging or strangulation		By firearms or explosives	By cutting or piercing instruments	By jumping from high places		By other or unspecified means	Total		Homicide by cutting or piercing instruments	Homicide by other or unspecified means	Total	Railway accidents (excluding motor vehicles)			Collisions with street-cars	accidents (excluding trains or		(excluding automo-	Street-car and other road transport accidents	(excluding trains and
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1946—Continued

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1	20-24 years		11	11	11	1.1	11	11			11	11	-	11	1	11	11	1		11	
	12-19 years	1	11	11	11	11	11	11				1		-		1		-		1 1	111
	10-14 years	1	11		11		11	III	11	I		11	I	11		-	11	1	111	11	
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		(b) Others under this title	Water transport accidents	Air transport accidents	Other accidents involving machinery	Accidental absorption of poisonous gas	(a) Coal and Illuminating gas	(p)	(c)	(d) Other poisonous gases		нсп	Conflagration	Accidental burns (conflagration excepted)	Accidental mechanical suffocation	Accidental drowning	Accidental injury by firearms	Acci	Accidental injury by fall or crushing	(a) Accidental injury by fall	(b) Accidental injury by crushing
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Sequelae of preventive immunization, inoculation or vaccination Other accidents due to medical or surgical intervention Lack of care of the new-born Obstruction, suffocation or puncture by ingested objects Other and unspecified objects rations of war and legal executions	H H	lon of long lon of long long long long lon of long long long long long long long long
acc ion ions ions	TAT Ded	rpt.
Sec late of late into the late of late	OF DEATH III-defined a	abso ourr nech rrow nju nju
Other accidents (a) Sequelae of preventive immunizatio lation or vaccination (b) Other accidents due to medical or intervention (c) Lack of care of the new-born (d) Obstruction, suffocation or punctur gested objects (e) Other and unspecified objects Operations of war and legal executions	SS XVIII.—ILL-DEFINED AN OF DEATH 200 III-defined and unknown ASSIFICATION OF ACCIDED	al al al al al al al al al al al al al a
	S 0 188	ent ent ent ent ent
195-198	CLASS XVIII.—ILL-DEFINED AND UNKNOWN CAUSES Total OF DEATH Rate Pemale Male Female CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO THE	Accidental absorption of poisonous gas Accidental burns Accidental mechanical suffocation Accidental injury by cutting or piercing instruments Accidental injury by fall Accidental injury by fall Accidental injury by everything
196	5	1 4 4 4 4 4 4

TABLE 21.—CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO THE NATURE OF INJURY. THESE ACCIDENTAL DEATHS ARE CLASSIFIED ACCORDING TO CIRCUMSTANCES INVOLVING THE ACCIDENT UNDER RUBRICS 169 TO 176, 178, 180, 181, 182, 183, 185, 186, 187 AND 193.

Accidental absorption of poisonous gas 16 170(c) Automobile accidents (excluding trains or street-cars) 1 174 Accidents in mines and quarries 2 178 Accidental absorption of poisonous gas 8 180 Conflagration 5 Accidental burns 27 169 Railway accidents (excluding motor vehicles) 1 170(c) Automobile accidents (excluding trains or street-cars) 3 180 Conflagration 7 181 Accidental burns (conflagration excepted) 16 Accidental Mechanical suffocation 6 170(c) Automobile accidents (excluding trains or street-cars) 1 182 Accidental mechanical suffocation 5 Accidental drowning 39 170(c) Automobile accidents (excluding trains or street-cars) 1 171(b) Other road transport accidents (excluding street-cars, trains and motor vehicles) 1 172 Water transport accidents (excluding street-cars, trains and motor vehicles) 1 183 Accidental injury by cutting or piercing instruments 1 170(c) Automobile accidents (excluding trains or street-cars) 1 Accidental injury by cutting or piercing instruments 1 170(c) Automobile accidents (excluding trains or street-cars) 50 Accidental injury by cutting or piercing instruments 1 170(c) Automobile accidents (excluding trains or street-cars) 50 Accidental injury by cutting or piercing instruments 1 170(c) Automobile accidents (excluding trains or street-cars) 50	2 1 1 20 5 15 6 5 15 6
174 Accidents in mines and quarries 178 Accidental absorption of poisonous gas 180 Conflagration Accidental burns 170(c) Automobile accidents (excluding motor vehicles) 170(c) Automobile accidents (excluding trains or street-cars) 180 Conflagration 181 Accidental burns (conflagration excepted) 182 Accidental Mechanical suffocation 170(c) Automobile accidents (excluding trains or street-cars) 182 Accidental mechanical suffocation 170(c) Automobile accidents (excluding trains or street-cars) 171(b) Other road transport accidents (excluding street-cars, trains and motor vehicles) 172 Water transport accidents 173 Accidental drowning 174 Accidental injury by cutting or piercing instruments 175 Accidental injury by cutting or piercing instruments 177 Accidental injury by fall 178 Accidental injury by fall 179 Accidental injury by fall 170 Accidental injury by fall 170 Accidental injury by fall 170 Accidental injury by fall 170 Accidental injury by fall 170 Accidental injury by fall 170 Accidental injury by fall	1 1 20 5 15 6 6
178 Accidental absorption of poisonous gas 180 Conflagration Accidental burns 169 Railway accidents (excluding motor vehicles) 170(c) Automobile accidents (excluding trains or street- cars) 180 Conflagration 170 Conflagration	1 20 5 15 6
Accidental burns 27 169 Railway accidents (excluding motor vehicles) 1 170(c) Automobile accidents (excluding trains or street- cars) 3 180 Conflagration 7 181 Accidental burns (conflagration excepted) 16 Accidental Mechanical suffocation 6 170(c) Automobile accidents (excluding trains or street- cars) 1 182 Accidental mechanical suffocation 5 Accidental drowning 39 170(c) Automobile accidents (excluding trains or street- cars) 1 171(b) Other road transport accidents (excluding street- cars, trains and motor vehicles) 1 172 Water transport accidents (excluding street- cars, trains and motor vehicles) 1 183 Accidental drowning 27 Accidental injury by cutting or piercing instruments 1 170(c) Automobile accidents (excluding trains or street- cars) 1 Accidental injury by fall 50	5 15 6 6
169 Railway accidents (excluding motor vehicles) 170(c) Automobile accidents (excluding trains or street- cars) 180 Conflagration 17 Racidental burns (conflagration excepted) 16 Accidental Mechanical suffocation 170(c) Automobile accidents (excluding trains or street- cars) 182 Accidental mechanical suffocation 170(c) Automobile accidents (excluding trains or street- cars) 171(b) Other road transport accidents (excluding street- cars, trains and motor vehicles) 172 Water transport accidents 183 Accidental drowning 170(c) Automobile accidents (excluding street- cars, trains and motor vehicles) 1 Accidental injury by cutting or piercing instruments 1 Accidental injury by fall 1 Accidental injury by fall 50	5 15 6 6
cars) 180 Conflagration	5 15 6 6
Accidental burns (conflagration excepted) Accidental Mechanical suffocation 170(c) Automobile accidents (excluding trains or street- cars) Accidental drowning 170(c) Automobile accidents (excluding trains or street- cars) Accidental drowning 170(c) Automobile accidents (excluding trains or street- cars) 171(b) Other road transport accidents (excluding street- cars, trains and motor vehicles) 172 Water transport accidents 183 Accidental drowning Accidental injury by cutting or piercing instruments 170(c) Automobile accidents (excluding trains or street- cars) Accidental injury by fall Accidental injury by fall 50	15 6 6 . 5
170(c) Automobile accidents (excluding trains or street- cars) 182 Accidental mechanical suffocation Accidental drowning 170(c) Automobile accidents (excluding trains or street- cars) 171(b) Other road transport accidents (excluding street- cars, trains and motor vehicles) 172 Water transport accidents 183 Accidental drowning Accidental injury by cutting or piercing instruments 170(c) Automobile accidents (excluding trains or street- cars) Accidental injury by fall Accidental injury by fall 50	6 5
170(c) Automobile accidents (excluding trains or street- cars) 182 Accidental mechanical suffocation Accidental drowning 170(c) Automobile accidents (excluding trains or street- cars) 171(b) Other road transport accidents (excluding street- cars, trains and motor vehicles) 172 Water transport accidents 183 Accidental drowning Accidental injury by cutting or piercing instruments 170(c) Automobile accidents (excluding trains or street- cars) Accidental injury by fall Accidental injury by fall Accidental injury by fall	. 5
Accidental mechanical suffocation 5 Accidental drowning 39 170(c) Automobile accidents (excluding trains or streetcars) 1 171(b) Other road transport accidents (excluding streetcars, trains and motor vehicles) 1 172 Water transport accidents 10 183 Accidental drowning 27 Accidental injury by cutting or piercing instruments 1 170(c) Automobile accidents (excluding trains or streetcars) 1 Accidental injury by fall 50	. 5
170(c) Automobile accidents (excluding trains or street- cars) 171(b) Other road transport accidents (excluding street- cars, trains and motor vehicles) 172 Water transport accidents 183 Accidental drowning 1 Accidental injury by cutting or piercing instruments 170(c) Automobile accidents (excluding trains or street- cars) 1 Accidental injury by fall 1 Accidental injury by fall 1 50	1
cars) 171(b) Other road transport accidents (excluding street-cars, trains and motor vehicles) 172 Water transport accidents 183 Accidental drowning Accidental injury by cutting or piercing instruments 170(c) Automobile accidents (excluding trains or street-cars) Accidental injury by fall Accidental injury by fall 50	1
171(b) Other road transport accidents (excluding street- cars, trains and motor vehicles) 172 Water transport accidents 183 Accidental drowning 27 Accidental injury by cutting or piercing instruments 170(c) Automobile accidents (excluding trains or street- cars) 1 Accidental injury by fall 50	1
172 Water transport accidents 10 183 Accidental drowning 27 Accidental injury by cutting or piercing instruments 1 170(c) Automobile accidents (excluding trains or street-cars) 1 Accidental injury by fall 50	
Accidental drowning 27 Accidental injury by cutting or piercing instruments 1 170(c) Automobile accidents (excluding trains or street-cars) 1 Accidental injury by fall 50	4
170(c) Automobile accidents (excluding trains or street- cars) 1	
Accidental injury by fall 50	

170(c) Automobile accidents (excluding trains or street-	26
cars) 1 .	****
171(b) Other road transport accidents (excluding street- cars, trains, and motor vehicles)	
174 Accidents in mines and quarries 1	
175(b) Injury by animals, in agriculture 2 186(a) Accidental injury by fall 45	26
Accidental injury by crushing 148	17
169 Railway accidents (excluding motor vehicles)	1
170(c) Automobile accidents (excluding trains or street-	
cars) 62 170(d) Motorcycle accidents (excluding automobiles) 1	11
171(b) Other road transport accidents (excluding street-	
cars, trains and motor vehicles) 2 173 Air transport accidents 6	2 2
174 Accidents in mines and quarries 9	
175(a) Accidents involving agricultural machinery and vehicles 14	
175(b) Injury by animals in agriculture	
175(c) Other agricultural accidents 175(d) Accidents involving forestry machinery and vehicles 1	****
175(e) Other forestry accidents 8	1111
176 Other accidents involving machinery 9 186(b) Accidental injury by crushing 10	
Accidents due to electric currents3	
174 Accidents in mines and quarries 1 193 Accidents due to electric currents 2	

TABLE 22.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS I N INSTITUTIONS IN CITIES OF 5.000 POPULATION AND OVER, BY PLACE OF RESIDENCE IN ALBERTA, 1946

			All Do	Deaths					Deaths in	Deaths in Institutions		
Cities	Place of	Resid	Residence	Deaths of residents occurring elsewhere	residents	Place of	Place of	Residence	ence	Deaths of residents occurring elsewhere	residents	Place of
	rence	In	In United States	In	In United States	residence	rence	In	In United States	In	In United States	residence
Cities: Calgary Edmonton Lethbridge Medicine Hat	1214 1495 208 169	304 541 72 46	0100	117	rom + 1	996 1022 154 133	833 1124 158 110	2553 505 69 63	0100	10 to 10 to	NHH :	634 664 103 75

TABLE 23.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE IN ALBERTA, 1946

			All D	Deaths					Deaths in	Deaths in Institutions		
Province	Place of		Residence	Deaths of residents occurring elsewhere	residents	Place of	Place of	Residence	ence	Deaths of residents occurring elsewhere	Deaths of residents occurring elsewhere	Place of
	rence	In	In United States	In	In United States	residence	rence	In	In United States	In	In United States	residence
Total for the Province	999	129	00	113	20	1099	3953	85	9	7.0	10	3942

TABLE 24.—DEATHS FROM CERTAIN SPECIFIED CAUSES BY PROVINCE OF RESIDENCE, 1946

Int. list No.	Causes of Death	Canada	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.
1-2	Typhoid fever Cerebrospinal meningitis Scarlet fever Whoogh	92 83 231 227	11110	120001	1422241	57 42 136 127	657-45	13-7 6	91-0109	19 19	E in
14-22 130 30 33		16 4,818 1,003 36 644 1,601	122123	308 74 50 88	211 66 1 28 97	2.183 445 111 217 815	909 145 12 164 279	262 62 33 33 61	177 46 22 22 86	233 69 44 89	48284 725
255 6-57 835 835 835 835 835 835 835 835 835 835		235 14,767 14,767 2,409 337 311 469 469 301	110 22 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	25.55 25.55	496 14 14 17 10 10 12	4.048 4.048 777 652 69 85 88 88 118	0.00 1.44.0 1.44	914 22 20 20 24 24 35 35	127 141 130 123 123 123 123 123 123 123 123 123 123	886 880 1119 119 130 130 130 130	2 - 24. 2 - 24
83 84 89 90-95	Intracranial lesions of vascular origin Mental disorders and deficiency (general paralysis of the insane excepted) Epilepsy Diseases of the ear and of the mastoid process Diseases of the heart	9,486 156 232 224 29,855	22,222 83	589 16 14 7 1,360	392	1.850 22 78 150 6,585	4,195 64 64 28 12,648	543 12 16 6 1,604	8 26 10 1,651	503 9 14 5 1,721	3,058
96, 97. 99, 102 106 107-109 111		2,230 378 5,657 173 431	20.80	122 21 307 5 5	95 307 5 11	116 116 1.747 77 153	892 11665 43 43 125	188 302 10 36	45123 5. 22	102 20 362 11 11 23	181 29 451 15 17
115 116-118 119-120 121 122-127 130-132 140-150	Astrona Diseases of the buccal cavity and annexa and of the pharynx and tonsils. Diseases of the stomach Diseases of the stomach Appardictits Hernia, intestinal obstruction Cirrhosis of the liver Other diseases of the liver Nephritis Diseases of the prostate.	241 241 1.873 551 854 820 820 820	. ମଧ୍ୟ ପ୍ରଥମ ଅବନ୍ଧ	372 372 372 372 372 372 372 372 372 372	- 182811822	850 828 829 820 225 225 232 173 232 233 233 234 235 235 235 235 235 235 235 235 235 235	292 292 263 123 266 1754 1176 1754 160	2 22 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	273 273 36 36 373 373 373 373 373 373 373 373	2824888228	3200188888888888888888888888888888888888

146 388 175 1888 1888 180 125 125 125 144 17 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	10,064	B.C.	45.000000000000000000000000000000000000
151 438 125 556 556 100 100 11 11 11 18 18 18 18 18 18 18 18 18 18	6,570	Alta.	29.0 29.0 29.0 88.6 0.5 11.1 11.1 14.8 3.7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2
252 253 26 26 27 27 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	6,413	1946 Sask.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
2492 660 101 115 117 17 17 17 17 18 18 243 243 243	6,471	PROVINCES, 1 nt. Man.	002 008 001 001 001 002 003 003 003 003 003 003 003 003 003
744 1,976 3,226 3,122 4,14 59 80 712 31 117 31 87 118 87 1,198	39,648 110 39,758	BY PROV	23.00 20.00 20.00
2,657 1,839 1,839 1,839 1,839 2,84 3,9 3,9 3,0 3,0 1,029	33,484 206 33,690	CAUSES, E	22.5 60.1 112.3 12.3 12.3 12.3 13.2 13.2 13.2 1
98 205 307 307 24 24 24 21 22 123 123 146 146	199 4,866	IED	0.2 0.8 0.8 0.4 1.3 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
128 328 172 440 34 55 7 7 7 7 7 7 15 15 15 15 15 15 15 15 15 15 15 15 15	5,978 6,046	IN SPECIF	00000000000000000000000000000000000000
25.28 11 14 4 11 25.28	862 12 874	I CERTAIN	221 12.88 11.28 11.1 14.9 14.9 14.9 11.1 11.1 11.1 11.1
2,338 1,584 1,584 1,002 1,770 1,770 1,770 1,170 1,170 1,12 229 229 1,12 1,12 1,12 3,58 1,17 3,773 3,620	114,157	ON FROM	120001100880088112881128811288112881128
Congenital malformations Diseases peculiar to the first year of life Senility Violent deaths Suicides Homicides Homicides Railway accidents (excluding motor vehicles) Motor vehicle accidents Street-car and other road transport accidents Water transport accidents Air transport accidents Air transport accidents Agricultural and forestry accidents Other accidents involving machinery Conflagration Catalysm Other violent deaths Other specified causes	Total specified causes Unspecified or ill-defined causes All causes	TABLE 25.—DEATH RATES PER 100,000 POPULATION Causes of Death	Typhoid fever Cerebrospinal meningitis Scarlet fever Whooping cough Diphtheria Erysipelas Tuberculosis of the respiratory system Tuberculosis, other organs Tuberculosis, other organs Purulent infection and septicaemia Syphilis Influenza Syphilis Influenza Syphilis Cancer and other malignant tumours Tumours, non-malignant and not specified Diabetes mellitus Diabetes mellitus Diabetes mellitus Diabetes mellitus Anaemias Leukaemias and aleukaemias Leukaemias and aleukaemias Alcoholism Meningitis (non-meningococcal) Infracranial lesions of vascular origin
158-161 163-198 163-198 163-169 170 171 172 173 174 175 176 176 176 176 176 177 176 177 176 177 177	199, 200	Int. list No.	2-1 1010 1010 1010 1010 1010 1010 1010 1

TABLE 25.—DEATH RATES PER 100,000 POPULATION FROM CERTAIN SPECIFIED CAUSES, BY PROVINCES, 1946—Continued

18	Int. list No.	Causes of Death	Canada	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C
Discusses of the arteries 182 128 199 198 149	85 89 90-95	paralysis of th	243.	2.2.2 2.2.1 242.6	2.6 2.3 1.1 222.2		0.6 2.1 4.1 181.4	1.6 1.6 0.7 308.4		1.0 3.1 1.2 198.2	1.1	3040
Ashma bosts of the burgs of the burgs of the burgs of the burgs and of the burgs of	96, 97, 99, 102 106 07-109	is nia arteries	18.2 3.1 46.1 1.4	12.8 2.1 69.1 2.1	19.9 50.2 0.8	19.8 1.9 64.0 1.0		21.8 2.8 40.6 1.0		11.6 3.0 54.1 0.6	12.7	. 45.23
Diseases of the stomach 2.0 2.1 1.1 2.3 2.3 1.8 Appendicitis Appendicitis 2.0 2.1 2.2 2.3 2.3 2.4 2.7 Appendicitis Appendicitis 2.2 2.3 2.3 2.3 2.3 2.3 2.3 Appendicitis Appendicitis 2.3 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 2.3 Cirrhosis of the liver 2.3 2.3 Cirrhosis of the liver 2.3 2.3 Cirrhosis of the liver 2.3 2.3 Cirrhosis of the liver 2.3 2.3 Cirrhosis of the liver 2.3 2.3 Cirrhosis of the liver 2.3 2.3 Cirrhosis of the liver 2.3 2.3 Cirrhosis of the liver 2.3 2.3 Cirrhosis of the liver 2.3 Cirrhosis of the liver 2.3 Cirrhosis of the librority 2.3 Cirrhosis of the liver 2.3	1112	cavity and annexa, and of								2.8	2.9	
Appendicities Appendicitie	16-118		7.9	1321	1.1 6.0	27.9	9.1	7.1	3.4	1.6 7.0 21.2	1.5 8.6 15.9	100
Other diseases of the liver S52 5.3 3.9 4.6 5.7 4.8 Puerperal causes Other postate 4.8 6.7 6.4 6.5 6.5 4.9 7.3 4.9 7.3 4.9 7.3 4.9 7.3 4.9 7.3 4.9 7.3 4.9 7.3 4.9 7.3 3.9 9.0 4.9 7.3 4.9 7.1 4.9 7.3 4.0 7.1<	1222	Appendicitis Hernia, intestinal obstruction Cirrhosis of the liver	47.4	9.6.6.	25.70	10, 4, 61 00, 44, 63	7.0	6.30	9.1 9.1 6.3	6.6 7.2 3.6	10.00	4001-
Puerperal causes			0 22 0	2.29 2.8.4.	60.8	6.53	915.7	424	33.1	32.8	26.8	10,50
Semility Semility	127	Puerperal causes Congenital malformations Diseases peculiar to the first year of life	19.0	20.2	20.9	20.4	73.2	3.9 18.1 48.2	17.5	14.3	18.8	38 14 3
Railway accidents (excluding motor vehicles) 1.8 2.1 2.5 1.7 1.2 2.0 Motor vehicle accidents 14.4 4.3 13.9 14.8 13.3 17.4 Street-car and other road transport accidents 1.9 4.3 6.7 2.5 0.7 2.0 Water transport accidents 0.9 0.4 0.1 0.4 0.1 Accidents in mines and quarries 0.9 0.9 4.1 0.6 0.7 2.0 Accidents in mines and quarries 0.9 1.1 0.5 2.5 2.5 2.0 0.8 Accidents in mines and quarries 0.9 1.1 0.5 0.1 0.8 Accidents in mines and quarries 0.9 1.1 0.5 0.1 0.8 Conflagration		Senility Violent deaths Suicides Homicides	66.7 66.7 1.2 1.2	43.6	71.9	64.0	50.7	7.9	14:2 67:7 8:3	10.3	15.6	1488
Air transport accidents Accidents in mine and quarries Accidents in mine and quarries Accidents in mine and quarries Agricultural and for and quarries Other accidents involving machinery Catactysm Other yolent deaths Other specified causes Total specified causes All cause	170	Railway accidents (excluding motor vehicles) Motor vehicle accidents Street-car and other road transport accidents Water transport accidents	14.4	4.3	13.9	14.8	13.2	17.4 0.8 0.8 2.0	1329	10.001	0.00	2252
Other specified causes 29.5 26.6 37.4 30.4 28.3 29.2 Total specified causes 929.4 917.0 976.8 972.3 922.4 966.8 Unspecified or ill-defined causes 6.3 12.8 11.1 41.5 5.7 2.7	173 175 176 180 187	Air transport accidents Accidents in mines and quarries Agricultural and forestry accidents Other accidents involving machinery Conflagration Cataclysm Other violent deaths	4.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.6 2.5 3.1 30.4	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	4.002.00.00 4.002.00.00 4.002.00.00	22.50		222	0-44446
1300 1 1013 2 000 X 000		causes causes ill-defin	29.5 929.4 6.3			972.3		29.2	33.4 890.1 9.1	769.9	21.0 818.2 3.9	36.5
200. T.070 0.010 1.010 0.020 0.020 0.000 0.000		All causes	935.7	929.8	987.9	1.013.8	928.1	969.5	899.2			1,010.

		uoneindod	100 448 448 448 448 448 448 448 448 448 4
	1937	Number of Deaths Rate per 100,000	8849 3342 3342 3342 3342 3342 3443 345 345 345 345 345 345 345 345 34
QO	38	Rate per 100,000 population	1188 48 48 48 5 5 5 5 5 5 5 5 5 5 5 5 5 5
PERIOD	1938	Number of Deaths	895258 45558 45558 1146 1000 1000 1000 1000 1000 1000 1000
DECENNIAL	68	Rate per 100,000 population	28 28 44 45 45 45 45 45 45 45 45 45 45 45 45
	1939	Number of Deaths	997 6477 3649 3649 3649 103 103 103 103 103 103 103 103 103 103
LAST	1940	Rate per 100,000 population	13 25 25 25 25 25 25 25 25 25 25 25 25 25
F THE	19	Number of Deaths	1086 7596 7159 7157 7157 715 715 716 716 717 717 718 718 719 719 719 719 719 719 719 719 719 719
YEAR OF	41	Hate per 100,000 population -	F001548888188881888188818881888188818881888
EACH YE	1941	Number of Deaths	25.000 100 100 100 100 100 100 100 100 100
FOR EA	2	Rate per 100,000 population	25.12.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
RATES FO	1942	Number of Deaths	1483 784 97 97 184 2335 214 75 260 69 869 86 450 106 111 111 111
	53	Hate per 100,000 population	244 25 25 25 25 25 25 25 25 25 25 25 25 25
NUMBERS AND	1943	Number of Deaths	1550 748 777 777 777 777 777 777 777 777 777
	1944	Hate per 100,000 population	82 42 45 45 15 15 15 15 15 15 15 15 15 15 15 15 15
BY N	11	Number of Deaths	1534 484 128 257 257 257 257 257 257 257 257 257 257
EATH	1945	Rate per 100,000 population	1000 1000 1000 1000 1000 1000 1000 100
OF L	19	Number of Deaths	1663 1838 1838 1838 172 1838 1838 1838 1838 1838 1838 1838 183
AUSE	1946	Rate per 100,000 population	2101 101 101 102 2456 102 103 103 103 103 103 103 103 103 103 103
PAL C	19	Number of Deaths	1721 8860 1000 1000 1000 1000 1000 1000 100
TABLE 26.—PRINCIPAL CAUSES OF DEATH		CAUSE OF DEATH	Diseases of the Heart Cancer Diseases of the Arteries Violent Deaths (Suicides excepted) Pulmonary tuberculosis Influenza Nephritis Appendicitis Suicides Cerebral Haemorrhage Diabetes Melittus Diarrhoea and Enteritis Puerperal Causes Whooping Cough Scarlet Fever Diphtheria Typhold and Parathyphoid Measles Poliomyelitis

TABLE 27.-MARRIAGES IN THE PROVINCE OF ALBERTA, BY MONTHS, 1946

	Decemper	180 159 26 26 111 8 306	731
	Мочетрет	253 192 27 30 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	1085
	October	213 162 32 43 43 113 390	813
	September	213 179 30 28 14 232	708
	August	280 195 41 23 17 326	897
MONTHS	July	249 288 36 222 133 443 443	866
MOP	əung	341 255 50 38 28 17 17 12 528	1269
	May	202 133 37 27 13 206	631
	lingA	191 129 26 22 24 24 10 7 7	672
	Матећ	170 148 28 30 8 6 6	594
	Reprinsiy	151 128 37 20 8 4 4 4 4 159	511
	January	118 27 22 22 23 3 182	208
	Totaı	2593 1997 392 345 180 89 104	9478
		Edmonton Calgary Calgary Lethbridge Medicine Hat Red Deer Drumheller Wetaskiwin Rural Districts	Total for the Province

TABLE 28.—MARITAL STATUS OF BRIDEGROOMS AND BRIDES IN ALBERTA, 1946

jo .	,ho	Divorced	5.1
r cent.	ides w	swobiW	5.2
Per	ğ	Spinsters	89.7
jo	re	Divorced	5.1
cent.	degroo	Widowers	4.3
Per	Bri	Bachelors	9.06
	pa	Divorced	91
	Divorce nen ar	swobiW	49
en	ни	Spinsters	342
betwe	and	Divorced	55
Marriages	Vidowers	- swobiW	172
Marr	Wic	Spinsters	184
	and	Divorced	338
	Bachelors	swobiW	269
	Back	Spinsters	7978
roje.	sege	Total Marri	9478
			Total for the Province

20-24 92-29 92-29 20-24 \$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
90-94 22-23 20-24	
22-23 20-24	
20-24	
64	111111111111111111111111111111111111111
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Total	157 157 157 157 157 168 175 175 175 175 175 175 175 175 175 175
Ages of Bridegrooms Total Grooms	Under 18 50 13 13 157 158 159 159 159 159 159 159 159 159 159 159

TABLE 30.-MARRIAGES-BIRTHPLACE OF BRIDEGROOMS AND BRIDES, IN ALBERTA, 1946

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	British	Mewfoundland	9	1			
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		British Columbia	164	010100			
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	ada	Saskatchewan	855	13 36 53 53 53 54 44 54 54 54 54 54	28 28 14 14 15	277	124-13
	Canada	Manitoba	219	1212881161121	101011	111	81 11
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		New Brunswick	121	0000		111	64
		Nova Scotia	38	306 3 6	401 11 11	TIT	1111
		P. E. Island	9		01 01	TIT	
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		Total Bridegrooms	7509	14 54 38 38 38 384 316 1006 5372 2	285 278 69 193 41	17	35.55
		Birthplaces of Bridegrooms	CANADA	Prince Edward Island Nova Scotia News Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	British Isles England Ireland Scotland Wales Other	British Possessions Newfoundland Other	Europe Austria Belgium Cochoclovakia

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Denmark Finland France Germany Hungary Italy Norway Poland Roumania Russia (U.S.S.R.) Sweden Yugoslavia Other	Asia China Japan Other	United States Other American countries Other countries Unspecified	Total brides.

TABLE 31.—RELIGIOUS DENOMINATIONS OF BRIDEGROOMS AND BRIDES, ALBERTA, 1946

Total Chounts S. S. S. S. S. S. S. S. S. S. S. S. S. S		VIIAL	SIAIIS	TICS	DIV	NCH			
Total Characteristics of the Characteristics	1	Unspecified or unknown	111	111	11	111	- 11	-	1111111
Total Circoms Total Circoms Total Circoms Total Circoms Advantists Advant	-	Non-religious denominations	64 64		- 11	111	-	11	No
The control of the co	1	Other religions	60	111		111	111	-	
Total Grooms Total Grooms	1	United Church of Canada	381	4 63		00 11 11	19	9	173
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Charles Char	-		1111	111	11	111	111	11	THIT
Total Grooms Missonary Missonar	-			1111		111	111	11	THIT
Comparison	-		1111	111	11			TI	THITT
Double D	-		es 11			-	-	11	THE
December December	-			-	- 61	12	133	13	8 8 1
December December	-	(managanga) canamana pangagay	1111	111		111	111	11	Н
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Scientistics Scie	-					111	H	11	
Comparison of Grooms Comparison of Grooms	-					111	01	11	00 01
Schooling School	-					111	111		
Second Compared						H 11	44		H 20HH
Denomination Deno	40							-	
December December	ride.	Mormons						- 11	
Total Grooms Tota	233	Moravian Church							1
Doughology Dou	588	Methodists					111		
Doughology Dou	atio	Mennonites		11					
Doughology Dou	min.	Lutherans	74 74 25	11	-	61	13	10	AND DESCRIPTION OF THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN COLUMN TWO
Doughology Dou	eno	Jewish	1111	11			111	11	
December December	ā į	International Bible Students		11	H		111	111111	
Comparison Com	ľ	Holiness Movement	7	11		111		63	
Description Description		Greek Catholic Churches	L 60		П		24	184	- 0
December December	2	Gospel bodies	THIL	11		111			
Decinion of Grooms Decinion of Grooms		Evangelicals	60 10	11		63	24	11	0.1
Doukhobors Dou		Eastern Orthodox Churches	8	-		111	257	119	8 1
Decinion Decinion		Donkhobors	1111						
Christian Scientists Christian Scientists		Church of God	60	11		19			9
tion of Grooms Missonary Missonary Scientists Philans Scientists Philans Scientists Philans Scientists Adventists Adventists Adventists Scientists Scientists Scientists Adventists A		Churches of Christ (Disciples)	9 1	11		4-	1111	2 1	117111
tion of Grooms Total Grooms Missonary Missonary Scientists Of Christ Scientists Soft of Grooms Missonary Missonary Scientists Of Christ Soft of Grooms Adventists Soft of Grooms Adventists Adventists Adventists Adventists Soft of Grooms Adventists Ad			20000						1 10 1001
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tion of Grooms mcluding mcluding mcluding mcluding mcluding mcluding mcluding mcluding Missonary Missonary Missonary Missonary Total Grooms Adventists Scientists Scientists als Adventists Adventists Adventists Adventists Scientists Adventists Adv		Christadelphians		Tit	Tii	TITI	Titi		TITI
tion of Grooms Ition of Grooms Including			777	₹ :		111	7	11	THIII
tion of Grooms mcluding mcluding mcluding Missonary Missonary Missonary Total Grooms Adventists of Christ rthodox s Movement s Movemen			23 52 3	-	-	10	2011		26 4 4 1 1 6 4 4 1
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tion of Grooms Second Community Community Code			531	4 -	4 60	4	46	10	200-00
tion of Groom tion of Groom Secondary 10 15 15 15 15 15 15 15			The second second				-	TI	1 2 1 1
tion of Groom bodies meluding phians Missonary Missonary Cod rr Cod rr God rr Holic ss Movement nal Bible ss Movement ss ss ss ss ss ss ss ss ss			35 1350 6 373	28	1 22	325	373	260	14 729 93 61 15
D Jest Add do Son Ses Ses		Denomination of Groom	Adventists Apostolic bodies Baptists	Brethren including United Christadelphians	2	1 1 1		Greek Catholic Churches Holiness Movement	International Bible Students Students Lutherans Mennonites Methodists Moravian Church

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92 1 94	-41111	110	534
7 7	1111111	1111	9
HH 12-10	HP	7	111
7.7	THILL	63	31 1
H 9 4 10	12	10	229
131		65 H 63	226 2
7		0	13 2
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Mormons Non-denominational Oriental religions Pentecostal Assemblies Plymouth Brethren Presbyterians	(Christian) (Christian) Roman Catholics Salvation Army Society of Friends Spiritualists Swedenborgians Unitarians	United Church of Canada Other religious Non-religious denominations Unspecified or unknown	Total brides

TABLE 32.—DIVORCES AND NULLITIES BY JUDICIAL DISTRICTS FOR THE YEAR 1946 IN ALBERTA

		Divorce	S	1	Vullities	
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 Hanna Red Deer Drumheller Macleod Wetaskiwin Vegreville	466 371 52 28 5 9 4 22 4 5 26	245 177 25 12 3 5 3 14 3 3	221 194 27 16 2 4 1 8 1 2 1 3	5 6 1	2 2	3 4 1 1
Total	974	494	480	12	4	8

DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Year	Granted to Husband	Granted to Wife	Total
019	3	3	6
920		26	100
921	5.0	37	90
022	O/A	49	129
23		32	89
24		53	119
25	5.0	42	101
26	70	75	154
027	0.9	66	149
28	01	84	175
29	77	71	148
30		87	151
31	- 60	87	156
32	60	81	149
33	T.C	79	135
34	69	106	168
35	7.4	135	209
36	7.4	135	209
037	102	139	241
038	105	162	267
039	104	163	267
940	110	154	273
41	195	176	311
142	170	201	380
43	100	223	413
944	DAE	243	488
	909	273	575
945946	40.4	480	974

TABLE 33.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS AND BY PLACE OF RESIDENCE OF MOTHERS, ALBERTA, 1946

							M	onth	5				
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province	1157	118	91	117	81	99	103	105	100	87	- 63	80	113

TABLE 34.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE, BY PLACE OF RESIDENCE OF MOTHERS, ALBERTA, 1946

	Total Births I				itim	are	Illegitimate			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Total for the Province	1157	565	592	916	440	476	241	125	116	

TABLE 35.—DEATHS OF INDIAN CHILDREN UNDER ONE YEAR (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES BY SEX IN ALBERTA.

BY PLACE OF RESIDENCE, 1946

Int. list No.	Causes of Death	Total	Male	Female
	ALL CAUSES	149	72	77
	ALL CAUSES	110		1
6	Cerebrospinal meningitis			
8	Scarlet fever			
9	Whooping-cough	6	2	4
10	Diphtheria			-
11	Erysipelas			1
13	Tuberculosis of the respiratory system	8	4	4
14-22	Tuberculosis, other forms	6	2	4
24	Purulent infection and septicaemia			1
27	Dysentery	1	1	1
30	Syphilis	3	2	1
33	Influenza	11	5	6
35	Measles	1	2111	1
36	Acute poliomyelitis and polioencephalitis			
64	Diseases of the thymus gland	1		1
81	Meningitis (non-meningococcal)	1	1111	1
86	Convulsions	8	2	6
89	Diseases of the car and of the mastoid process			1
105	Diseases of the larynx			1 miles
106	Bronchitis			
107	Bronchopneumonia	27	12	15
08, 109	Pneumonia	25	16	9
115	Diseases of the buccal cavity and annexa, and of			
220	the pharvnx and tonsils		1000	1
16-118	Diseases of the stomach		4717	
119	Diarrhoea and enteritis	15	12	3
130	Acute nephritis			-
157	Congenital malformations	5	2	3
	(a) Congenital hydrocephalus		2005	4000
	(d) Congenital malformations of the heart	4	1	3
	(b, c, e) Others under this title	1	1	
158	Congenital debility	7	1	6
159	Premature birth	19	8	11
160	Injury at birth		10,11	+++4
161	Other diseases peculiar to the first year of life	2	1	1
66-168	Homicides			1000
69-195.				1 0
197	Other violent deaths	1	1	
	Other specified causes	1		1
99, 200	Ill-defined and unknown causes of death	1	1	

TABLE 36.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, IN ALBERTA, BY PLACE OF RESIDENCE, 1946

		VIT	AL STA	TISTICS	S BRA	NCH			
1	Not stated	111	111	11111	1111	111 1	11111	11	1111
	100 years	111	111	11111	IIII		11111	11	
	92-99 years		TIII	11111	1111	1111	11111	TH	ПП
	90-94 years	10 61 63	2	11111	1111		11111	11	ПП
	82-89 years	F-460		11111	-	1111		111	
	80-84 years	1000				-	11111	111	
	12-79 years	200	400		21-21-	4 1			
		41-1-	000		61 (6)	111 -	TH	11	
	70-74 years	5000	111	11111	1111				
	65-69 years								
	60-64 years	2011		11111	1111	111 1	11111	1.1	
	22-23 Acsts	21-12	0101				11111	11	
		504	1-0-	11111	00-00-		-63		
	20-24 years	00 10 60	111	11111			11111	11	
AGES	42-49 years	481	6261-		.01			1 1	
AC	40-44 years	1126	617		:-9-				-
	32-39 years	13 1	00010	11111	:09=0	11			
	30-34 years		1919	11111	:0400	1 :			HII
	25-29 years	51-12	97	11111					
	20-24 years	1 17 8 4 8 13	1235	11111	- man				
	12-19 years	24 6 18	19	11111	Long 1		014		-
	10-14 years	100	171	HIII	0.00101	0 0	400-	6160	61
	5-9 years	14 16	122	11111	-22999	4.	-0100	10.01	
	4 years	00 00 10	0014	11111		4 -			
	3 years	Q 4 10	400	117	21-	-	11111	-	7
	Z years	13	×44	N	4040	7 -	-00-		ПП
	I year	323	240	0101	50.40	C0 10	N=	44	- 1
	Under I year	149	36	514	000	4 4.	4	6363	- 1
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	Total	461 225 236 236	203		1-00-40			-	
		Total Male Female	Total Male Female	Male Female Male Female Male			Female Male Female Male Female	A	Female Male Female
	CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Scarlet fever Whooping cough	Tuberculosis Tuberculosis	(a) With mention of occupational diseases of lungs (b) Without mention of occupational diseases of lungs	(c) Unspecified site (d) With mention of dementia praecox	Tuberculosis of the meninges and central nervous system	
		DEATI	CLASS	8 6 01	13-22			14	16

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T		I	11	-	•		I	H						11	H			1	-		-		III
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Male	Male	Male	Male	Male	Male	Male	Male	Male	Female Male	Female	Female	Female	Male	Female Male	Female Male	Female	Female	Female	Male	Male	Male	Male	Male
Male	Male	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Fe	Fe	Fe	Fee	Ma	Fe	Fe	Fe	Fe	Fe		N	Me	NE	Fe
	system (bronchial, and retroperitoneal	em					- Annie of the latest and the latest								Other conhills of the central nervous system				Total		-		
Tuberculosis of other bones and joints	stem d retr	Tuberculosis of the genito-urinary system			(b) Other and unspecified generalized	mia		-		Other discussed due to warmeltin wastern	Dan Caro		(a) Locomotor ataxia (tabes dorsalis)	(b) General paralysis of the insane	nerve			es		ons	(b) Without respiratory complications		
and		rina	-	ry.	ene	Purulent infection and septicaemia				9	7		op s	ins	atra		1	Other diseases due to spirochaetes		(a) With respiratory complications	uplik	Si.	
nes	atic	n-0	00	IIIa	Po	ept	-			000	11.00	-	abe	the	00	10		roci		npl	con	8	
poq	yph	enit	losi	u p	ciffi	pu					2	-	a (t	s of	th.		9	Sp		00	ory		
ther	Im	g a	ercu	lize	spe	a ar	tion			+	2	-	axia	vsis	0,0	+14	1	e to		ory	irat	No.	
f of	of ceep	f th	tube	era	m	tion	rec			7	3	-	at.	ara	hilie	dos	1	an	-	irat	espi	3	
is o	mesenteric, mediastinal glands (excepted)	dis o	pe	gen	and	nfe	s ir			000	den		otor	d le	evn	d Co	3	ases	*	resp	ut r	-	
nlos	sen	nlos	inat	nte	her	nt i	noon	erv		die	agrin a	50	com	ner	101	1 0	1011	dise	Za.	th	tho	XO	90
berc	Tuberculosis of Imyphatic mesenteric, mediastinal glands (excepted)	berc	Disseminated tuberculosis	(a) Acute generalized miliary	Ott	nle.	Gonococcus infection	Dysentery	Molorio	101	101	Syphilis	Lo	Ge	0		5	Jer i	Influenza	Wi	W	Smallpox	Measles
Tul	Tal	Tul	Dis	(a)	(b)	Pur	Goi	Dys	Mo	0	3	Syl	(a)	(b)	3	(8)	(2)	Ott	Inf	(a)	(b)	Sm	Me
17	13	20	22			24	25	27	86	2 6	0 0	30						32	33			34	123

TABLE 36.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

			Cancer and other malignant tumours	Cancer of the buccal cavity and pharynx	Cancer of the digestive organs and peritoneum		-	-														
No. of Street, or other Persons and Street, o		Total Male Female	Male	Male		Male	Male	Female	Female	Female	Female	Male	Female	Female	Male	Male	Female	Male	Female	Female	Female	Male Female
	Total	52 10 00	10 00	-	4 4		-	-			-6	100	-	-			-	1	-	-	1	-
	Under I year		-	1			11			-			1	-	-	1	-	-		T		
	I year	111		1	17		11	T			-	1	-		-	-		1111			T	111
	2 years			-			11			-	-				1	1			1			11
	4 years			-			11	1 1		:	:		1		-	1 1		-		1	1	11
	5-9 years			1			11						-		1			-		1	1	
	10-14 years			100							-						-	-		-		-
	12-19 years															1 1	-	-				
	20-24 years						11						1		-		-	-				
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Cancer of (a) Cance (b) Cancer of Cancer	Diseases of V.—CHRONI Alcoholism (a) Acute
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TABLE 36.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

	CAUSES OF DEATH Total Under I year I year	(b) Chronic alcoholism Female 1 Female 1 Female 1	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND Total 16 9 1 1 SENSE ORGANS Female 10 7 1	Encephalitis (non-epidemic) Male Female (a) Intracranial abscess Male	(b) Others under this title Male Female Female Male Male	9 89	Intracranial lesions of vascular origin Male 3 1 1 Female 1 1	(c) Cerebral softening Male (d) Hemiplegia and other paralysis of unspecified origin Penale (a) With mention of arteriosclenosis Male Nate 1 1 1	
	2-9 years								
	10-14 years		111	111					
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TABLE 36.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

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	70-74 years	12	1111			117	1111	60-61	111711
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		c)	pectoris (a) Diseases of the coronary arteries		Functional diseases of the heart (no organic lesion) Other diseases of the heart (rheumatic)	(c) Other diseases of the heart (non-rheumatic)	Arteriosclerosis (coronary or renal sclerosis or cerebral haemorrhage excepted)	RY	Diseases of the nasal fossae and accessory sinuses Broncho pneumonia Lobar pneumonia
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	CAUSES OF DEATH	m : nyo	jo s	ses	nal	isea	osis l ha	EASE	the
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		Chronic myocarditis (non-rheums Other myocarditis (not specified)	Diseases of the coronary arteries	Ang r d	Functional d lesion)	Oth	riosclerosis (coronary or renal cerebral haemorrhage excepted) ar diseases of the circulatory sy	(EM	cho r pi
		(d) Chronic myocarditis (non-rheumatic) (e) Other myocarditis (not specified)	(a) I	(b) Angina pectoris	(a) Functional diseases of the heart (no or lesion) (b) Other diseases of the heart (rheumatic)	6)	Arteriosclerosis (coronary or renal scler cerebral haemorrhage excepted) Other diseases of the circulatory system.	VIII.—DISEASES OF THE RESPIRATORY SYSTEM	Diseases of the nasal fossa Broncho pneumonia Lobar pneumonia
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onia	es o disc oea oea	oea	died died disc rute her disc	SEA SMS SMS nel ic n
Pneumonia (unspecified) (b) Pleurisy		(b) Ulceration of the intestines Diarrhoea and enteritis (2 years of age and over) (a) Diarrhoea and enteritis	(b) Ulceration of the intestines Appendicitis (a) Hernia Other diseases of the liver (a) Acute yellow atrophy (b) Others under this title Other diseases of the gall-bladder and bile ducts	SYSTEMS SYSTEMS Acute nephritis Chronic nephritis Nephritis unspecified (over 10 years of age)
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TABLE 36.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, IN ALBERTA, BY PLACE OF RESIDENCE, 1946—Continued

Total Tota		CAUSES OF DEATH	135 Diseases of the urinary bladder	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	142 (b) Ectopic gestation, without mention of in- fection	146 Haemorrhage of childbirth and the puerperium	(b) Premature separation of placenta	150 (c) Other and unspecified conditions of child- birth and the puerperal state	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR Total Male TISSUE Fema	XIV.—CONGENITAL MALFORMATIONS	(a) Congenital malformations (b) Spina bifida and meningocele (c) Anencephalus (d) Congenital malformations of the heart
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TABLE 36.—CAUSES OF DEATH OF INDI		CAUSES OF DEATH	Total		Conflagration		puncture by in-	(e) Other and unspecified objects	Operations of war and legal executions	XVIII.—ILL-DEFINED AND UNKNOWN CAUSES OF DEATH	own causes	(c) Unknown or unspecified cause
TABL		CAUSES	169-195 Accidental deaths 170 (c) Automobile ac	street-cars) 176 Other accidents	180 Conflagration			(e) Other and	196-198 Operations of w	CLASS XVIII.—ILL-DE OF DEATH	200 Ill-defined and unkn (a) Ill-defined (b) Found dead	(c) Unknown or

S. E.	186, 187	E CLASSIFIE	DEATHS ARE CLASSIFIED AI 182, 183, 185, 186, 187 AND 193	E CLASSIFIED ABOV. 186, 187 AND 193.	E CLASSIFIED ABOVE A 186, 187 AND 193.	E CLASSIFIED ABOVE ACCO. 186, 187 AND 193.	ABOVE A0
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TABLE 37.—DEATHS OF HALF-BREE		S
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	CAUSES OF DEATH	LL CAUSES	4 Whooping cough 6 Tuberculosis of the respiratory system 7 All other forms of tuberculosis 7 All other forms of tuberculosis 8 Injury at birth 6 Tuberculosis of the respiratory system 8 Temale 8 Male 8 Diseases and accidents of pregnancy 8 Female 8 Diseases and accidents of infection 9 Abortion with mention of infection 9 Abortion with mention of infection 9 Female 9 Female 9 To Other accidents and diseases of childbirth and the puerperium 9 Female
		Total Male Female	Male Female Male Female Female Fale Fale Fale Fale Female
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83	83 Automobile accidents (all motor-driven) vehicles Male	s Male	-		-	-	-	-	-		000	-			1	1		-	-	1	-	1	-	1	1	-	
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84	84 Other violent or accidental deaths (automobile																				-			-	-	-	
	excepted)	Male		1000	-	-	1101	-	-	-		-		-	1	1	-	-	-	- Steel	1		-	-	-		
		Female	63		1000	-	1		-	-	1	-	- Com-	-	-	-	-	1	-	1	-	-	1		-	1	
	Other causes	Male	19	1	1	1	*****	1	-	-			100	-	N	20	-	1	1	04		-	00	-	-		
		Female	17	6 2	5	1	-	-	-	-	-	1000		-		-	1		1	1	04	23	1	-	-		
			_	_																							
1			-	-	1							1	1			1											

	Rate of Natural Increase	13.04 14.22 14.22 15.23 15.23 16.42 16.42 16.42 16.42 16.42 16.42 16.42 16.42 16.42 16.42 16.42 16.42 16.42 16.43
	Puerperal Death Rate per 1,000 Births	66.02 66.02 66.02 66.02 66.02 66.02 66.03
YEARS 1905-1946	Infantile Death Rate per 1,000 Births	90.00 126.57 129.49 134.46 134.46 100.24 110.00 110
THE	Death Rate	2.00.00 2.0
NATES FOR	Number of Deaths	1114 1.578 2.5662 2.5662 2.5662 2.5662 2.5662 2.5662 2.5662 2.5662 2.5662 2.5673 2.5673 2.569 2.
DEATHS, AND	Marriage Rate	86.77 1.638 11.07 1.07 1.039 1
MARRIAGES,	Number of Marriages	2,032 2,032 2,032 2,032 3,086 3,086 4,429 4,202 4,100 4,117 4,110 4,117 4,110 4,117 4,110 6,010
BIRTHS,	Rate	20041 20041 20041 20041 20044
TABLE 38.—POPULATION	Number of Births	3,421 4,7023 4,7023 8,8321 8,8321 10,284 11,871 11,871 11,871 11,501 14,598 11,252 11,252 11,252 11,253 11,
TABLE 38.	Population	185,000 236,000 236,000 331,000 336,000 459,000 459,000 459,000 459,000 480,000 522,000 522,000 533,000 633,000 638,000 778,000
	Year	
		1905 1906 1906 1906 1906 1911 1911 1912 1912 1913 1914 1914 1914 1914 1914 1914 1914

TABLE 39.—DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1946

	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province	22,184	32	1.4
City of Edmonton City of Calgary Small Cities Rural	5,375 3,688 2,608 10,513	5 4 2 21	.9 1.0 .7 1.9

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	1,059	3.13	1926	1.053	2.80
906	1.094	2.07	1927	1.065	2.94
907	1.075	2.96	1928	1.064	2.75
908	1.077	2.73	1929	1.042	. 2.71
909	1,086	2.59	1930	1,027	3.21
910	1.065	2.69	1931	1.075	3.25
911	1,103	2.43	1932	1,052	3.08
912	1,084	2.43	1933	1.053	3.01
913	1 059	2.67	1934	1.032	3.04
914	1.081	3.30	1935	1.055	2.81
915	1 000	3.74	1936	1.049	2.57
916	1.063	3.29	1937	1.019	2.38
917	1,061	3.25	1938	1.046	2.70
918	1,069	1.88	1939	1.046	2.85
919	1.074	2.56	1940	1,033	2.79
920	1.055	2.92	1941	1.054	2.71
921	1.055	3.32	1942	1,058	3.02
922	1.034	3.06	1943	1.041	2.96
923	1.072	3.13	1944	1,060	3.06
924	1.036	2.97	1945	1,061	3.08
925	1.036	2.97	1946	1.036	3.36

