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Alberta. Department of Public Health.

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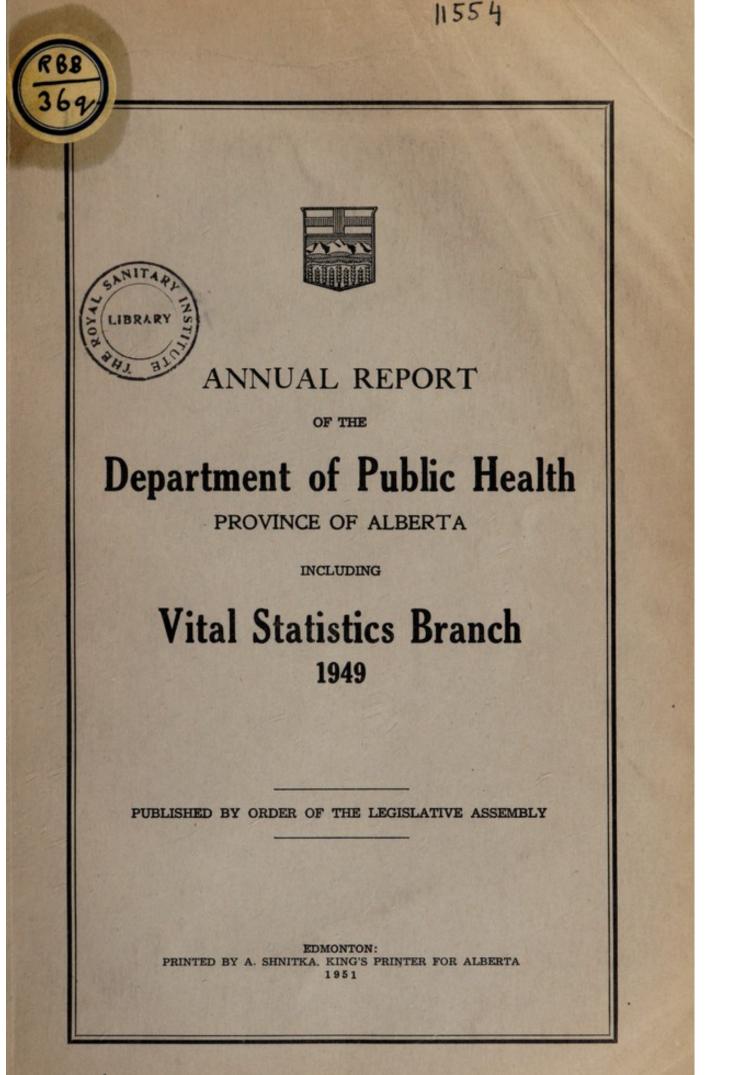
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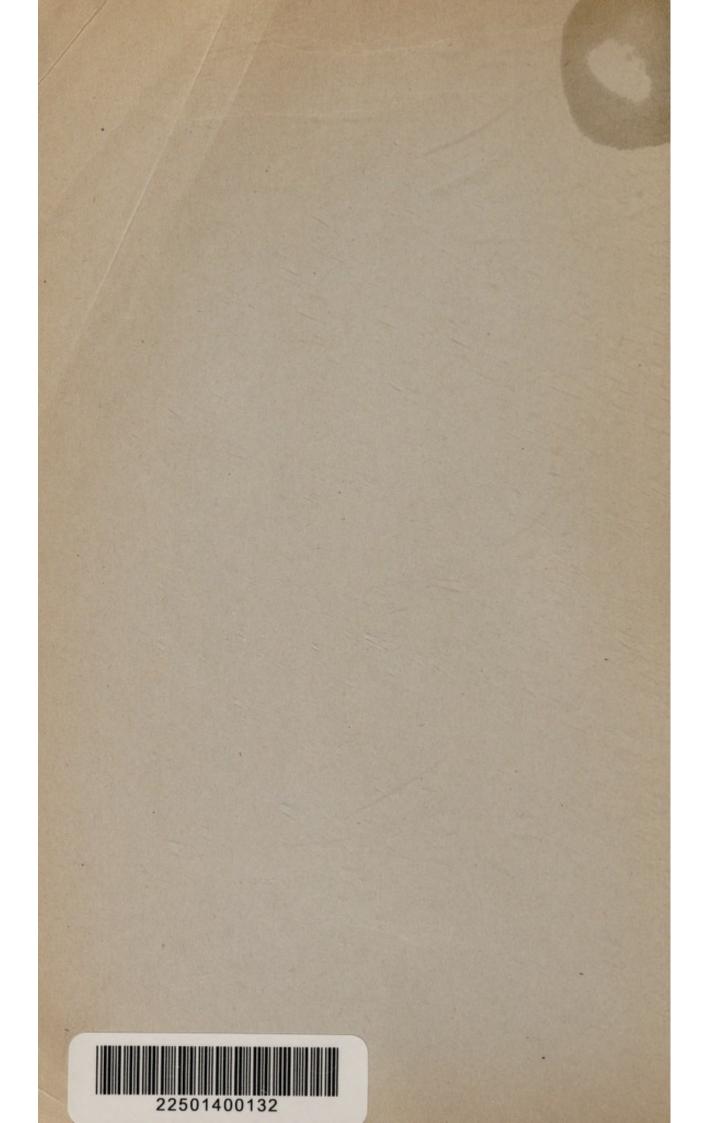
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ANNUAL REPORT

OF THE

Department of Public Health

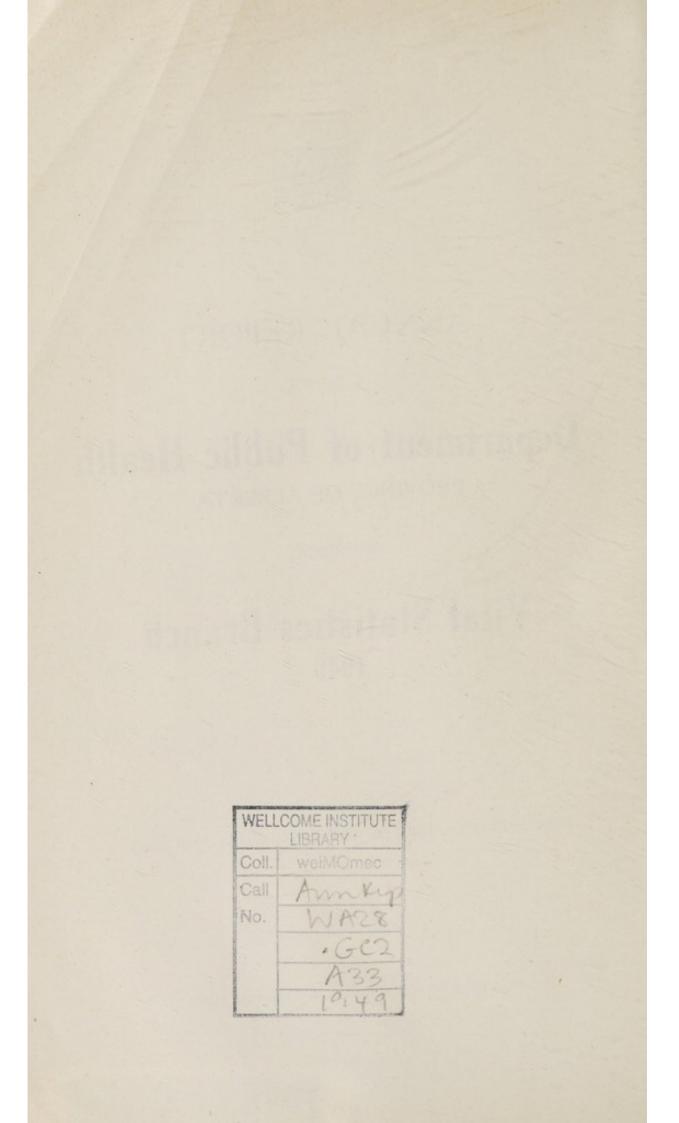
PROVINCE OF ALBERTA

INCLUDING

Vital Statistics Branch 1949

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON: PRINTED BY A. SHNITKA, KING'S PRINTER FOR ALBERTA 1951



Edmonton, December 30, 1950.

To HIS HONOUR,

J. J. BOWLEN,

Lieutenant Governor of the Province of Alberta.

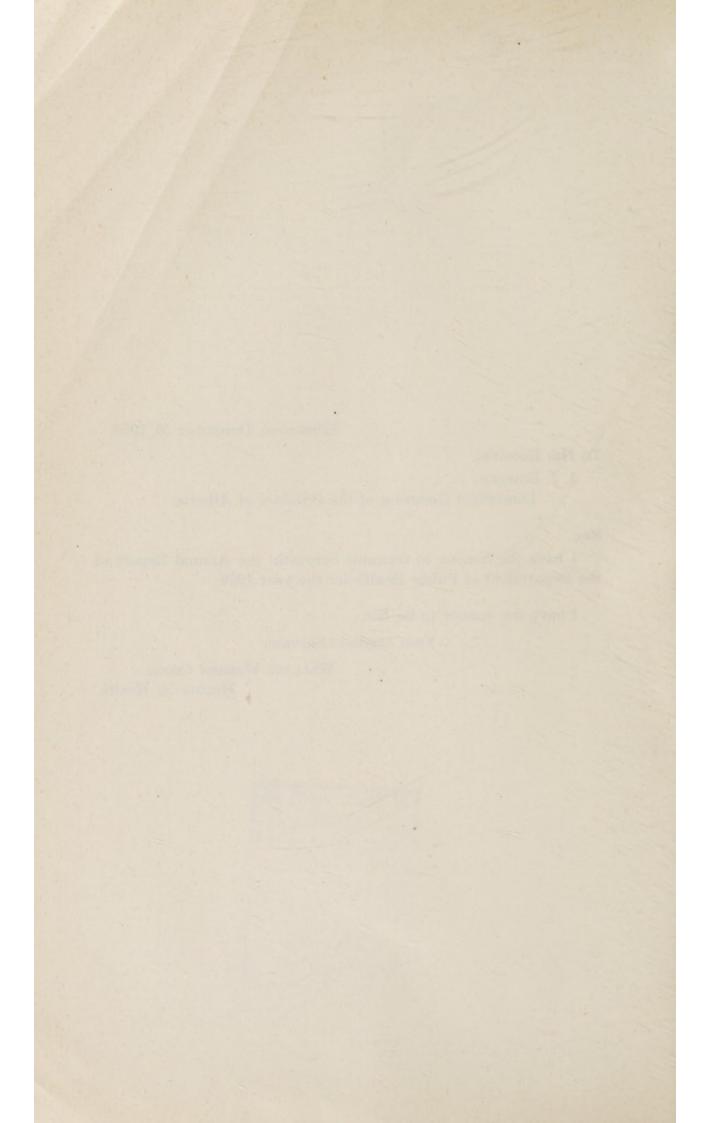
SIR:

I have the honour to transmit herewith, the Annual Report of the Department of Public Health for the year 1949.

I have the honour to be, Sir,

Your obedient Servant,

WALLACE WARREN CROSS, Minister of Health.



Edmonton, December 30, 1950.

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

Administration Building, Edmonton, Alberta.

SIR:

I have the honour to submit herewith, the Thirty-first Annual Report of the Department of Public Health.

I have the honour to be, Sir,

Your obedient Servant,

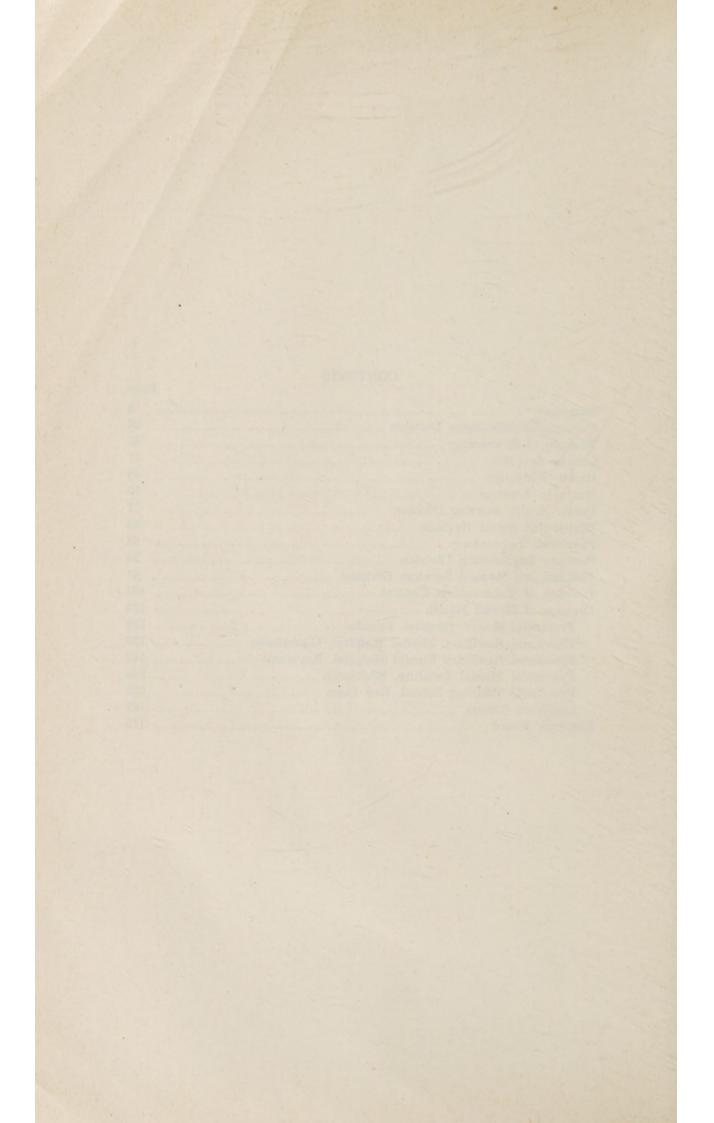
MALCOLM R. Bow, B.A., M.D., C.M., D.P.H., Deputy Minister. Digitized by the Internet Archive in 2019 with funding from Wellcome Library

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Eugenics Board	



THIRTY-FIRST ANNUAL REPORT OF THE PROVINCIAL DEPARTMENT OF PUBLIC HEALTH INCLUDING THE VITAL STATISTICS BRANCH

Divisions:

- 1. Communicable Diseases.
- 2. Entomology.
- 3. Cancer Services.
- 4. Public Health Education.
- 5. Nutrition.
- 6. Public Health Nursing.
- 7. Social Hygiene.
- 8. Provincial Laboratory.
- 9. Sanitary Engineering and Sanitation.
- 10. Hospital and Medical Services.
- 11. Tuberculosis Control and Central Alberta Sanatorium, Calgary.
- 12. Mental Health.

Institutions: Provincial Mental Hospital, Ponoka. Provincial Auxiliary Hospital, Claresholm. Provincial Auxiliary Hospital, Raymond. Provincial Mental Institute, Oliver. Provincial Training School, Red Deer.

Guidance Clinics. Eugenics Board.

13. Vital Statistics.

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

PROVINCIAL BOARD OF HEALTH

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

In addition to the above, the Provincial Board of Health met on April 8th for the purpose of a "Hearing Respecting Water Supply for the Town of Blairmore". This hearing, conducted under authority of Section 12 of The Public Health Act, was concerned with alleged pollution of the town's water supply due to the operation of strip mines.

REGULATIONS PASSED DURING THE YEAR

O.C. 879-49-Regulations for the Prevention, Notification and Control of Communicable Disease amended to provide the following:

- (a) Influenza (Epidemic) added to the list of notifiable diseases.
 - (b) Permit the Provincial Board or a Local Board to require medical examination of persons who might spread the disease.
 - (c) Permit the Provincial Board or a Local Board to isolate or quarantine persons where this action is deemed necessary to prevent the spread of communicable disease whether a

quarantine or isolation period is provided elsewhere in the regulations or not.

O.C. 922-49—Dental Regulations amended so that references to The Public Health Act would refer to the correct sections.

LEGISLATION PASSED DURING THE YEAR

An Act to Incorporate the Associated Hospitals of Alberta, Amendment Act (Chapter 16).

This Act amends an Act to incorporate The Associated Hospitals of Alberta, being chapter 22 of the Statutes of Alberta, 1948.

Section 6 is amended. The Blue Cross Plan which is dealt with in this Act covers the furnishing of hospital care by The Associated Hospitals of Alberta. The words "medical care" appearing in section 6 should have been the words "hospital care" and the error is remedied by this amendment.

This Act came into force on March 29, 1949.

Chiropractic Act, 1945, Amendment Act (Chapter 22).

This Act amends The Chiropractic Act, 1945, being chapter 16 of the Statutes of Alberta, 1945.

Section 10 is amended. The 1945 Act increased the qualifications required of chiropractors and the new qualifications were made applicable to all future applicants with certain exceptions. One of the exceptions was set out in subsection (5) which provides that a person who was prevented from changing his occupation by a regulation made under the provisions of the War Measures Act (Canada), who applied for admission to a school of chiropractic within six months after the coming into force of the new qualifications, and who commenced to attend the school within two years from the date of his release from the occupation which he was prevented from changing could qualify under the former standards. The subsection requires such a person to apply to the school within six months and to commence attendance within two years. Cases have arisen where such persons in good faith commenced to attend the school within the required two years and have completed the necessary training, but because their application was not in within the six-month period they are now barred from admission. Subsection (5) is amended by changing the six-month period to two years which brings these persons within the provisions of the Act and enables their admission to the Association.

Subsection (6) of section 10 is also amended by providing that the special privilege under subsections (4) and (5) will not be available later than the thirty-first day of December, 1949.

A new section 12a is added immediately after section 12. This new section enables the Board in its discretion to grant a nonparticipating life membership in the Association to any member who has attained the age of sixty years and who has practised in Alberta as a member of the Association in good standing for at least five years, and who in the opinion of the Board is a fit and proper person. Any member who has attained the age of sixty years and who has practised in Alberta for at least ten years may make application to the Board for a non-participating life membership. Any member who has been granted a non-participating life membership shall be deemed to be registered as a non-participating member of the Association without filling any renewals of registration or paying the regular fees. The Board in its discretion may cancel any non-participating life membership for any act of misconduct or for any other proper cause.

A new section 26a is added immediately after section 26. It enables the Board, with the approval of the Association, to make reciprocal agreements with other jurisdictions governing the admission to Alberta of persons qualified to practise in those other jurisdictions. Such an agreement may only be made if the qualifications in the other jurisdictions are equivalent to the qualifications in Alberta. The agreement itself may make provision for the admission to Alberta of persons who were qualified to practise in the other jurisdiction when qualifications were lower than they are at present. In such case the agreement may provide for additional terms and conditions governing their admission such as requiring a certain number of years of practice, etc.

This Act came into force on March 29, 1949.

Hospitals Act Amendment Act (Chapter 49).

This Act amends The Hospitals Act, being chapter 184 of the Revised Statutes of Alberta, 1942.

Section 2 (e) which defines the term "local authority" is amended. The former reference to the Minister of Lands and Mines has been taken out and the Minister of Municipal Affairs has been substituted. This change is necessary because the administration of special areas has now been transferred from the Department of Lands and Mines to the Department of Municipal Affairs. It is also amended to define the Minister of Public Welfare as the local authority with respect to any transient person.

Section 5(3) is amended by striking out Rule 3 and substituting a new draft of Rule 3. Rule 3 is one of the rules for determining residence of persons applying for material aid or hospitalization, etc. Rule 3 determines who qualifies as a transient person for purposes of hospitalization. Rule 3 in this Act is amended to correspond exactly with the equivalent rule in the three Municipal Acts. Any person who has not resided for twelve months out of the twenty-four immediately preceding months within a municipality is deemed to be a transient for whom the Minister of Public Welfare is deemed to be responsible.

Section 5(5) is amended. This section provides that the local authority is liable to pay a hospital for the treatment of indigent sick residents of that local authority in cases of sudden and urgent necessity if the hospital notifies the local authority by a notice in writing. The purpose of the amendment is to require the hospital to send the notice within ten days of the date of admission of the indigent sick person and the notice is to be sent to the local authority named by or on behalf of the indigent sick person as his place of residence.

Section 6 which relates to the liability of local authorities for hospitalization is amended by increasing the limitation in subsection (4) from two hundred dollars to three hundred dollars. The effect of this amendment is that the local authority will be liable to pay to the hospital up to a maximum of three hundred dollars per year for the care and treatment of any indigent sick person hospitalized. Section 7 is similarly amended by changing the words two hundred to three hundred dollars.

This Act came into force on March 29, 1949.

Lloydminster Hospital Act Amendment Act (Chapter 61).

This Act amends The Lloydminster Hospital Act, being chapter 19 of the Statutes of Alberta, 1948.

Sections 42 and 46 of the Act are amended so that instead of it being necessary to post the notices referred to in at least two widely separated places and in all post offices, it is now necessary to post the notices in at least three widely separated places in each polling division.

This amendment is rendered necessary by the ruling of the Postmaster-General that the consent of a Post Office Inspector must be obtained before a notice may be posted in a post office. This consent cannot always be obtained so the mandatory requirement is being removed from the Act.

This Act came into force on March 29, 1949.

Maternity Hospitalization Act Amendment Act (Chapter 63).

This Act amends the Maternity Hospitalization Act, being chapter 9 of the Statutes of Alberta, 1944.

Section 5 of the Act is amended. Under section 5 a woman is entitled to free maternity hospitalization if she has been a resident of the Province for twelve months out of the twenty-four months immediately preceding her admission, and is a resident at the time of her admission. Many cases have arisen where a man, who is a resident of the Province, marries a woman who is not a resident of the Province. If a child is born before the woman has resided in the Province for twelve consecutive months the husband will have to pay for her hospitalization, notwithstanding that he himself has resided within the Province all his life. The purpose of this amendment is to extend the scope of the free maternity hospitalization to cover such cases.

This Act come into force on March 29, 1949.

Municipal Hospitals Act Amendment Act (Chapter 70).

This Act amends the Municipal Hospitals Act, being chapter 185 of the Revised Statutes of Alberta, 1942.

Section 2, paragraph (1), which defines "ratepayer" is amended to include a person who pays a business tax.

Section 7 is struck out and a new section is substituted which enables the Minister to fix and allocate the number of members of the board of the hospital district upon its establishment. Under the Act at present every municipality, any part of which is included within a hospital district, is entitled to be represented by a member on the hospital board. In some municipal hospital districts which contain a number of small villages and municipalities, the membership on a board is growing very large and unwieldy. Also, in some cases where only a small portion of a municipality is contained in a municipal hospital district the member of the board representing that municipality may draw more fees for mileage and expenses than the total amount of the contribution by the municipality to the municipal hospital district. The amendment to section 7 is for the purpose of removing the necessity of allocating to each municipality a member to represent it on the municipal hospital board.

Section 11 is amended by the addition of a new subsection (3). This new subsection is exactly the same as the old subsection (3) which was struck out in 1945. The new subsection provides for a scheme in which there is provision for a minimum annual hospital tax commonly known as a poll tax, to be paid by all persons twenty-one years of age gainfully employed who are resident in the municipal hospital district, and who are not ratepayers. Any person paying the poll tax is entitled, in the year in which he pays, to the benefits conferred upon a hospital supporter by The Municipal Hospitals Act.

Section 61 is amended by striking out subsection (1) and by substituting two new subsections. These new subsections enable the Minister, on the recommendation of any board, to reduce, increase, or re-allocate the number of members of that board. Any included area which has not been allocated a board member is required to be combined with some other included area, and the combined area will be represented by a board member.

The effect of these amendments is that the board of any hospital district which has become large or unwieldy in size may be reduced to an efficient size. Unnecessary expense will be avoided and all persons in a municipal hospital district will be represented by an elected board member. Where small portions of several municipalities are included in a municipal hospital district they may be combined and have one elected member to represent them.

This Act came into force on March 29, 1949.

Nursing Aides Act Amendment Act (Chapter 72).

This Act amends The Nursing Aides Act, being chapter 18 of the Statutes of Alberta, 1947.

A new section 13a is added so that the Act does not apply to those who render spiritual services only.

This Act came into force on March 29, 1949.

Public Health Act Amendment Act (Chapter 80).

This Act amends The Public Health Act, being chapter 183 of the Revised Statutes of Alberta, 1942.

Section 25 of the Act is amended by the addition of two new subsections (17) and (18). Subsection (17) provides that the Lieutenant Governor in Council may vary the order constituting a health unit by a further order, at any time, with the consent of the contributing municipalities.

Subsection (18) provides that if the contribution of the municipalities may be affected, the report of the Board of Public Utility Commissioners setting out the amount which each municipality must contribute shall be referred back to that Board for any necessary change.

Section 26 is amended to provide that a maximum of one-half of the cost of operation of a health unit constituted by order of the Minister will be payable by the municipalities. At present the amount is fixed at one-half of the cost of operation. Under the amended section, if the Minister pays more than one-half, the contribution of the municipalities may be reduced to less than one-half.

Section 26 is further amended by the addition of a new subsection (7) which empowers the Minister to vary his own order constituting a health unit at any time by a further order.

This Act came into force on March 29, 1949.

Solemnization of Marriage Act Amendment Act (Chapter 94).

This Act amends The Solemnization of Marriage Act, being chapter 303 of the Revised Statutes of Alberta, 1942.

Section 3 is amended to make it possible for a lieutenant of the Salvation Army to solemnize marriages. This is necessary because of a change in the ranks and duties of Salvation Army personnel which has resulted in a probationary lieutenant now holding the position formerly held by a lieutenant.

A new section 14a provides in subsection (1) that thirty days must elapse after a decree absolute of divorce or final declaration of nullity of marriage has been entered before an issuer may issue a license to marry. Thus a license to marry cannot be issued while there is still a possibility of a judgment being appealed. Subsection (2) provides that if an appeal from the final decree or declaration has been entered, a license issuer shall not issue a license until satisfactory proof is furnished that the appeal has been finally disposed of.

Section 21 is amended as to subsection (4) to make it clear that a notice of the application for a license must be sent to the parent or guardian where one of the parties is under the age of twentyone years.

Section 21 is further amended by adding a new subsection which provides that a license issuer may not issue a marriage license where a person under the age of twenty-one years is a party to the proposed marriage, until the eighth day after the mailing of the notice to a parent or guardian required by section 21.

Section 23 is amended to provide that when application is made to a judge to dispense with the consent of a parent or guardian, notice of the application must be sent to the parent or guardian in order that he may be present at the hearing of the application.

This Act is to come into force on July 1, 1949.

ANNUAL REPORT, 1949

DEPARTMENT OF PUBLIC HEALTH

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VITAL STATISTICS

Vital Statistics registered during the year were as follows:

Births	24,935
Marriages	9,037
Deaths	7,083

In all cases where rates are shown, such rates are based on a population of 871,000, the estimate of the Dominion Bureau of Statistics. 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 vears from 1944 to 1949:

Y	ear	No. of Births	Birth Rate	No. of Marriages	Marriages Rate	No. of Deaths	Death Rate
1944 1945		19,372 19,939 22,184	23.70 24.10 27.63	7,299 7,310 9,478	8.90 8.80 11.80	6,320 6,454 6,601	7.70 7.80 8.21
1946 1947 1948		24,631 24,075	30.00 28.50	8,797 8,844	$10.70 \\ 10.50$	6,543 6,987	8.00 8.30
1949		24,935	28.70	9,037	10.40	7.083	8.20

The birth rate for 1949 is 28.7 as compared with 28.5 for 1948. The marriage rate for 1949 is 10.4 as compared with 10.5 for 1948. The death rate for 1949 is 8.2 as compared with 8.3 for 1948.

General Health Conditions.

The deaths of 7,083 persons were registered in Alberta in 1949. Of this number, 4,350 were males and 2,733 females. There were 96 more deaths registered than in the previous year. There were 376 deaths from Pneumonia in 1949, an increase of 14 as compared with the previous year, and 41 deaths from Influenza, an increase of 5 as compared with the previous year. Deaths from Pulmonary Tuberculosis numbered 156 in 1949 as compared with 200 the previous year. The chief cause of death is heart disease, 2,033 deaths having been registered as due to this cause, giving a rate of 233.4 per 100,000 population, as compared with 224.1, the rate for the previous year. Deaths from Cancer registered in 1949 numbered 957, a rate of 109.9 per 100,000 population, as compared with 975 deaths from this cause and a rate of 115.2 in 1948. Deaths from violence, excluding suicides, numbered 596 as compared with 593 in 1948. The respective rates were 68.4 and 70.1.

The infantile mortality rate for 1949 is 33 as compared with 39, the rate 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 1949 is 1.0 as compared with 1.42 for 1948. More detailed reference to the maternal mortality rate will be found in another section of this report.

Five deaths were reported as due to Whooping Cough in 1949 as compared with 11 deaths from this cause in 1948. Of these 5 deaths, 3 were infants under one year of age. It is gratifying to note the material reduction in the number of deaths from Whooping Cough. It is important that children under two years af age be immunized against this serious disease. The Department provides the vaccine for this purpose free of charge on the request of physicians and local health authorities.

There were 9,179 cases of Measles with 19 deaths, and 1,575 cases of Rubella with no deaths reported in 1949. Measles was epidemic in 1949, with an increase of 7,093 cases reported, and an increase of 12 deaths occurring from this disease. More detailed information concerning the cases of Measles and Rubella will be found in the report of the Communicable Disease Division.

There were 59 cases of Diphtheria, with 12 deaths reported in 1949, as compared with 52 cases and 6 deaths during the previous year. Of the 59 cases reported in 1949, 5 were reported by cities and 54 by rural areas. The death rate for Diphtheria in 1949 is 1.4 as compared with .7 for 1948. Twenty-five Diphtheria carriers were discovered in investigating the source of Diphtheria cases.

Diphtheria is an entirely preventable disease. The Department furnishes toxoid for the immunization of children free of charge to physicians, local health authorities and local school authorities. Children should be protected early in life and such reinforcement of immunity given as may be found necessary during school life. If such a routine were carried out all over the province, Diphtheria would soon be wiped out. An outbreak of Diphtheria in any area is an indication that effective action has not been taken to safeguard the children in the community.

During 1949, 696 persons living in outlying districts were immunized against Diphtheria by one of our Health Inspectors, part of whose time is devoted to this work, and 368 were given combined immunization against Diphtheria and Whooping Cough.

No cases of Smallpox were reported in 1949. There are many areas in the Province in which not more than one-third of preschool and school children have been vaccinated against Smallpox. Should the disease appear in such a community, it would spread with great rapidity, and should such an outbreak be of the malignant type, tragic results would follow. It cannot be emphasized too often that 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 after-life. In spite of the fact that no Smallpox has been reported in this Province for a number of years, this disease may appear at any time and become a serious menace to the unvaccinated. Smallpox vaccine is provided free of charge by the Department to physicians, local boards of health and local school authorities.

In 1949, 732 persons in outlying areas of the Province were vaccinated against Smallpox by our Health Inspector in charge of this work.

In 1949, 865 cases of Scarlet Fever and no deaths from this cause were reported, as compared with 248 cases and no deaths in 1948.

The following is a summary of the cases reported in 1949:

Under 1 year 1 to 4 years 5 to 14 years 15 to 19 years 20 years or over Age not stated	197 548 47 63 10
Total Cases reported by cities	865 446
Cases reported by towns and villages Cases reported by rural areas	91 328

There were 13 cases of Typhoid Fever and no cases of Paratyphoid Fever reported in 1949, as compared with 13 cases and 25 cases respectively in 1948. No deaths were reported from Typhoid Fever in 1949.

I would again emphasize that the supervision and control of Typhoid and Paratyphoid carriers is a matter of vital importance to the public health. The full co-operation of all local health authorities is essential, not only in the investigation of sources of infection, but also in the supervision and control of Typhoid and Paratyphoid carriers. Constant vigilance in the supervision and control of local water, milk and food supplies is essential for the protection of the community. Pasteurization of milk and milk products carried out under proper supervision has proven a safeguard of first importance, providing protection not only against Typhoid and Paratyphoid, but also against the other milk borne diseases.

Poliomyelitis.

In 1949, 127 cases of Poliomyelitis were reported, and 9 deaths occurred from this cause.

Under the provision made for free treatment of persons suffering from paralysis due to Poliomyelitis, 51 patients were admitted to the University Hospital, Edmonton, and 15 to the Junior Red Cross Hospital, Calgary. Assistance was extended by the Department of Public Welfare by which a number of patients were enabled to complete academic and secretarial courses and to take vocational training.

Tuberculosis.

During 1949, 211 deaths were reported from Tuberculosis (all forms), as compared with 259 deaths in 1948. Of these 211 deaths, 105 were deaths of Indians. The death rate for all forms of Tuberculosis in 1949 (including Indians) is 24.2. Excluding deaths of Indians, the death rate is 12.1 (per 100,000 population), as compared with 15.1 in 1948.

Division of Entomology.

This Division deals with epidemiological problems associated with insect-borne diseases, more especially investigations relating to Sylvatic Plague, Rocky Mountain Spotted Fever and Tularaemia. The survey in connection with the migration of rats in Western Canada and in the Western States which was begun some three years ago, was completed in 1949.

In connection with Rocky Mountain Spotted Fever survey work, 2,399 drag ticks and 2,170 host ticks were taken in 125 collections. No positive specimens were reported in 1949. There were 771 persons vaccinated against Rocky Mountain Spotted Fever; 328 in the Manyberries District, 303 in the Redcliff District, 105 in the Thelma-Elkwater District, and 30 at Medicine Hat.

During the Sylvatic Plague survey, 171 collections consisting of 656 fleas and 301 tissue specimens were made from 1,552 animals. Seven of the collections were reported positive for plague, namely, 2 at Hanna, 2 at Cessford, and 3 at Lomond. The finding of positive specimens in the Lomond District confirms the findings of two years ago, an extension of the plague area south-westward.

No positive reports were submitted in connection with Tularaemia investigations in 1949.

Educational work in regard to the prevention and control of insect-borne diseases was carried on along the same lines as in previous years, through moving picture films, lectures and the distribution of literature.

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

Diseases of the Heart and Circulatory System.

Diseases of the heart accounted for 2,033 deaths in 1949, as compared with 1,896 in 1948. These 2,033 deaths represent 28.7 per cent of the deaths from all causes reported for the year, giving a death rate of 233.4 (per 100,000 population), as compared with 224.1 in 1948.

Diseases of the arteries were reported as the cause of 128 deaths in 1949, as compared with 140 in 1948. As mentioned in previous reports, the aging of our population is a factor in the increased number of deaths from diseases of the heart and circulatory system. 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 circulatory system, and would prolong many lives. Here, as in so many other diseases, an ounce of prevention is worth a pound of cure.

Cancer.

In 1949, 957 deaths were registered as due to Cancer, as compared with 975 during the previous year. The death rate from Cancer in 1949 was 109.9 (per 100,000 population), as compared with 115.2 in 1948. Cancer occupies second place in the list of causes of death, and in 1949 accounted for 13.5 per cent of the total deaths registered in the Province. Early recognition of Cancer and prompt and effective treatment by competent physicians would save many lives.

The importance of educational work in the Cancer program cannot be over-emphasized. Educational work has been carried on by the Division of Cancer Services 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 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 for the purpose of establishing the diagnosis. Free hospitalization is provided for this purpose for a period up to, but not exceeding, 14 days, provided the same is authorized by the Cancer Clinic.

The following is a brief summary of the work done by the Diagnostic Clinics in 1949:

EDMONTON CLINIC: Examinations of new patients Re-examinations	2,092 2,086	4.178
CALGARY CLINIC: Examinations of new patients Re-examinations	1.424 1,138	2,562
Total for both Clinics		6,740

Of the new patients examined at the Clinics, 41.3 per cent were found to be suffering from Cancer. There were 1,853 patients referred for X-ray diagnosis, 1,058 were referred for radium or X-ray treatment, and 1,751 referred for surgical treatment.

Deaths Due to Violence.

Deaths reported as due to violence (excluding suicides) numbered 676 in 1949, as compared with 593 in 1948, representing 9.5 per cent of the total deaths registered in the Province for the year, and giving a death rate of 77.6 (per 100,000 population), as compared with 70.1 in 1948.

There were 80 suicides in 1949, as compared with 84 in 1948.

Highway accidents accounted for 169 deaths, of which 164 were due to motor vehicle accidents. It is apparent from these statistics that highway accidents constitute an important cause of death. When one considers the serious injuries suffered by many other persons involved in highway accidents and the great expense incurred in providing hospital and medical care, this problem is one of major importance from the standpoint of public health.

There were 44 deaths reported from drowning in 1949, as compared with 53 in 1948. There is a great need for an effective educational programme in this field. Each year, a number of deaths occur as a result of the destruction of homes by fire, in some cases with parents absent from the home and children of tender years left to their own devices, with no responsible person in charge. There were 19 deaths due to conflagration in 1949.

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

Suicides	80 15	Injury by animals	9
Homicides Railway accidents excluding motor vehicles	23	Hunger or thirst Excessive cold Excessive heat	10
Motor vehicle accidents		Lightning	
Street car and other transport acci- dents	5	Food poisoning Accidental absorption of poisonous	2
Water transport Air Transport	9	gas Acute accidental poisoning of solids	15
Accidents in mine and sand quarries	15	or liquids	5
Agriculture and forestry	47	Conflagration	19
Other accidents involving machinery Accidental drowning	17 44	Accidental burns (conflagration ex- cepted)	14
Accidental mechanical suffocation	14	Accidents due to electric currents	3
Accidental injury by firearms	11	Other accidents	28
Accidental injury by cutting or piercing instruments	1	Legal executions	
Accidental injury by fall or crushing	123		676

Infantile Mortality.

There were 823 deaths of children under one year of age registered in 1949, as compared with 930 such deaths in 1948, a decrease of 107 deaths. The infantile mortality for 1949 is 33, as compared with 39 for 1948.

Of the 823 deaths of children under one year of age in 1949, 500 or 60.7 per cent occurred within the first month of life, of which number 437 occurred within the first week and 237 on the first day of life. In the continued expansion of our preventive health programme and through the organization of additional full-time District Health Units, the solution of this problem will be found. In districts which have had the advantage of the service provided by Full-time Rural Health Units for a number of years, it has been found that the infantile death rate gradually falls to approximately the same level as the rate for the cities of the Province with fulltime public health services. The Department plans to expand the service provided by Full-time District Health Units as rapidly as the medical and nursing personnel required for this purpose can be recruited. An analysis of infant deaths will be found in the report of the Bureau of Vital Statistics.

Maternal Mortality.

The maternal death rate (deaths per 1,000 living births) in 1949 is 1.0 as compared with 1.2 in 1948. The average maternal death rate for the past five years is 1.42.

The following are the chief causes of maternal deaths registered in 1949:

Abortion with mention of infection	3	
Abortion without mention of infection		
Ectopic gestation		
Haemorrhage of pregnancy, death prior to delivery	4	
Toxaemia of pregnancy, death prior to delivery	9	
Other diseases and accidents of pregnancy, death prior to delivery	7	
Haemorrhage of childbirth and the puerperium	3	
Infection during childbirth and the puerperium	1	
Puerperal toxaemias following delivery	2	
Other accidents of childbirth	2	
Other and unspecified conditions of childbirth and the puerperal state		
	25	
Total		

The progressive reduction in the maternal death rate in recent years is most 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 our preventive health programme in both rural and urban districts. Of the births registered in the Province in 1949, 97.2 per cent occurred in approved hospitals.

Full-time Rural Health Units.

The work of the Full-time Rural Health Units has been conducted along the same lines as in recent years. During the year, full-time medical officers of health were in charge of seven of these Units, and part-time service was provided in two. The shortage of qualified public health nurses has made it difficult for district boards of health to keep their staff up to strength. The eight Health Units which were established in 1944 and the one established in 1945, with one public health nurse in charge of the service in each of these Units, have continued to operate. Requests have been received from a number of municipalities for the establishment of additional health units, but as it has not been possible to secure the public health staff required for this work, no additional units were established in 1949.

The activities of full-time health units include the prevention and control of communicable diseases, infant and maternal hygiene, medical examination and supervision of the health of pre-school and school children, immunization, health education, supervision of water and milk supplies, food inspection, general sanitation, routine laboratory services, records and statistics, etc.

Health Education.

Health educational work is carried on through the publication of bulletins, pamphlets, articles in the press, and by means of lectures, radio talks, movies, health exhibits, and demonstrations. More than 100 publications issued by this Department and other organizations are distributed by this Division. More than 100,000 copies of such publications were distributed during the year.

In co-operation with the Audio-Visual Aids Branch of the Department of Education, the preparation of two new films, one on Mental Health and the other on District Nursing, was carried forward. The actual screening of these films was completed in the summer of 1949, and master prints were available before the end of the year. It is expected that these two films will be available for use early in 1950, and these will prove of great value in our health educational work.

Under the Federal Public Health Grant we were able to allocate to each of 17 Health Units a new 16 mm. sound projector and generating plant. In addition, a complete projector unit was placed at the disposal of the School for Nursing Aides, at Calgary.

We now have 120 health films in the Department's Film Library. There were 476 prints of such films shown to a total audience of over 36,000 during the year.

The Department's radio programme was broadcast weekly over four Alberta stations during the year, with a coverage extending over the whole Province. We wish to express our sincere appreciation for the splendid co-operation of the radio stations in broadcasting this programme.

Health education occupies a foremost place in the programme of the modern public health department. We are finding an everincreasing demand for more literature, films, radio talks and lectures on the various phases of health, and a very receptive audience.

Detailed information concerning the various activities in the field of health education will be found in the report of the Division of Health Education.

Nutrition.

The work of the nutrition service has been carried on along the same general lines as during the previous year. This programme is fundamentally one of continuous health education carried on with the active participation of public health personnel in the field. The literature, exhibits and films on nutrition have been reviewed with local medical officers of health, public health and district nurses, and the most effective methods of using this material discussed. Information concerning school lunch literature has been made available to public health personnel assisting in school lunch programmes. A number of field visits have been made by the Nutritionist to assist in the development of such programmes.

A display was prepared in July, outlining the chief findings of the nutrition survey in the Foothills Health Unit, to which reference was made in last year's report. This display was shown at the Edmonton Exhibition, as well as the smaller fairs, and also by a number of the health units.

During 1949, a project was undertaken under which the assistance of the Public Health Nutritionist was made available to small hospitals, school dormitories and other agencies interested in group feeding. A number of the above mentioned institutions were given assistance and advice in the planning of menus and in the purchase of kitchen equipment.

Inquiries were received from various organizations, as well as private individuals, concerning various phases of nutrition, and every effort was made to meet the requests received for information and literature. This is an important service from the standpoint of public health, and one in which there is evidence of greatly increased public interest. More detailed information concerning nutrition services will be found in the report of the Public Health Nutritionist.

Public Health Nursing.

There are 37 nurses on the staff of the Department (exclusive of public health nurses serving in District Health Units). One is in charge of the Child Hygiene Clinic serving the Calgary District, one in charge of the Clinic serving the Medicine Hat and Redcliff Districts, and one serves the Municipal District of Norma and the Town of Vegreville. We have 34 Provincial District Nurses stationed in outlying districts remote from medical and hospital facilities. Service is provided in two of these districts by part-time married nurses living in the district who were formerly full-time members of the staff.

Miss Jean Clark, Director of the Division of Public Health Nursing, was granted leave-of-absence which became effective in September, 1948, in order to serve as a member of the Alberta Health Survey Committee. Miss Blanche A. Emerson was appointed Acting Director of the Division during the absence of Miss Clark, and Miss Marguerite Fitzsimmons was appointed Assistant Director in July.

A new district nursing service was opened in September to serve the Milk River District, and this service has been particularly well received by the people of the district.

Inasmuch as part of the District of Newbrook was included in the enlarged Municipality, this district was closed in February.

We have been fortunate in finding suitable replacements for nearly all the public health nursing personnel who have resigned or retired from the staff during the year. The high quality of the service rendered by our public health and district nurses has been well maintained during the year.

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

Treatment Consultations	21.038
Miscellaneous Public Health Consultations	7.173
Antepartum Consultations	1.540
Postpartum Consultations	326
Infant and Pre-school Consultations	4 10 0.00
Treatment Home Visits	4.642
Miscellaneous Public Health Home Visits	967
Miscellaneous Public Health Home Visits	1.289
Communicable Disease Home Visits	345
Maternal Welfare Home Visits	796
Infant and Pre-school Public Health Home Visits	79
Deliveries	47
Abortions	1.202
Cases sent to Hospital or Doctor	1,202
Deaths under 1 year)	22
Deaths (over 1 year)	
Total number doses Toxoid vaccine and Sera given	20,320
Communicable Disease cases reported	11,272
Public Health literature distributed	3.404
IMMUNIZATIONS:	
Diphtheria Toxoid	4,914
Scarlet Fever Toxin	1,165
Conclinery Versine	1.400
Wheeping Cough Vaccine	1,803
Typhoid Fever Vaccine	28
The second sec	
Total Number of Doses	9,435

Detailed information concerning the activities of the Division of Public Health Nursing will be found in the report of this Division.

Social Hygiene.

Five clinics are operated by the Division of Social Hygiene, one in Edmonton, one in Calgary, one in Lethbridge, one in Medicine Hat, and one in the Slave Lake District. In addition, clinics continued to operate in each of the Provincial Gaols.

The Lethbridge Clinic, with Mrs. Madeline Larson, Public Health Nurse in Charge, has proven of great value in dealing with various problems, not only in Lethbridge, but also in the southwest part of the Province, and the increased personnel made available under the Federal Public Health Grant in the Edmonton and Calgary Clinics, have been of great assistance in carrying on an expanded programme.

A Research Project under the Federal Public Health Grant dealing with the results of Malaria Pyrexia Therapy in the treatment of Neuro-syphilis in Alberta over a period of twenty-five years, has been undertaken by Dr. Margaret McWilliam. It is expected that this study will be completed by the end of 1950.

New cases under treatment in all clinics during 1949 are as follows: Syphilis 100, Gonorrhoea 1,113, making a total of 1,213.

Cases reported by doctors and military authorities are as follows: Syphilis 187, Gonorrhoea 698.

The total cases of Syphilis reported in Alberta (excluding Armed Personnel) in 1949 numbered 287, and the total number of new cases of Gonorrhoea (excluding Armed Personnel) 1,744.

Approximately 85 per cent of the alleged sources of infection in Venereal Disease cases in Alberta have been found, and where necessary, brought under treatment.

Detailed information concerning the various activities of this Division is contained in the report of the Division.

Provincial Laboratory.

The staff of the Provincial Laboratory of Public Health made 161,103 examinations in 1949. The estimated value of the work done by the Laboratory in 1949 on the basis of minimum charges for the various examinations performed is \$291,413.00.

The work of the Provincial Laboratory of Public Health includes examinations of water, ice, sewage, milk, food, various examinations in connection with communicable disease control, bacteriological, serological and pathological examinations of specimens submitted by physicians, local health authorities and hospitals, medico-legal examinations, and many other examinations.

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

Construction of the new Provincial Laboratory of Public Health was begun in May, and it is expected that the new Laboratory will be available for occupation by the fall of 1950. The new building which is located a short distance west of the University Hospital, will provide the most modern facilities for public health laboratory work, and will meet a need which has been felt for a number of years. This is a development of major importance from the public health point of view.

Construction of the building to house the new Southern Branch of the Provincial Laboratory of Public Health located on the grounds of the Central Alberta Sanatorium at Keith will be completed this fall. Through the Southern Branch Laboratory, public health laboratory services will be much more accessible to the people of southern Alberta. The Southern Branch Laboratory will also provide complete laboratory services for the Central Alberta Sanatorium. The opening of the Southern Branch Laboratory marks a distinct forward step in public health service in the Province. The Southern Branch Laboratory is operated under the direction of the Director of the Provincial Laboratory of Public Health. Dr. D. Shute has been appointed Director of the Southern Branch Laboratory.

All public health laboratory service is provided free of charge, with the exception of examinations which involve highly specialized procedures. This service is of vital importance in the maintenance of an efficient public health programme. We have throughout the years been most fortunate in the high standard of service provided by the staff of the Provincial Laboratory of Public Health.

Detailed information concerning the work of the Provincial Laboratory will be found in the report of the Laboratory.

Sanitary Engineering and Sanitation.

Plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants, as well as extensions of the same, have been carefully examined, and where approved, the necessary certificates issued under the provisions of the Public Health Act.

The tremendous expansion in the construction of waterworks and sewage disposal plants, and in the extension of the same, in cities, towns and villages which has been noted in recent years, has continued on an even greater scale in 1949. This unprecedented increase in the number of waterworks and sewage systems has resulted in an enormous increase in the amount of supervision required if proper maintenance and operation procedures and necessary public health precautions are to be observed. In order to take care of this greatly increased load, an additional sanitary engineer qualified in this field, and additional qualified sanitary inspectors, are required.

Mr. J. Butterfield, Chief Sanitary Inspector, who served as a member of the staff of the Sanitary Engineering Division for a period of thirty years, retired in September and was succeeded by Mr. L. E. Stewart. Mr. Butterfield at the time of his retirement was the oldest employee from the standpoint of years of service on the staff of the Department, and it is a great pleasure to express on behalf of the Department sincere appreciation of the outstanding service he gave throughout his long tenure of office.

Mr. W. A. Milligan was promoted to the position of Chief Plumbing Inspector, succeeding Mr. A. L. H. Milligan, who retired from this appointment in October, 1948. Mr. A. L. H. Milligan was the first officer appointed to the position of Chief Plumbing Inspector, and gave splendid service in this capacity over a period of ten years.

The staff of the Sanitary Engineering Division was increased by the oppointment of four additional sanitary inspectors. By virtue of these appointments, decentralization of the inspection staff of the Department has been carried out, thus reducing the time required for travel and increasing the efficiency of the sanitary inspection service.

The tourist camp inspection and classification programme inaugurated in 1947 in co-operation with the Department of Trade and Industry, was carried out along the same general lines as in the previous year. Under this programme there has been a great improvement in the sanitation and general accommodation of these camps. The marked increase in the number of plumbing installations referred to in the report of 1948 has continued at an accelerated rate in 1949. The yearly increase from fees received from plumbing permits shows the magnitude of this increase: 1945, \$2,008; 1946, \$2,928; 1947, \$5,237; 1948, \$6,732; 1949, \$9,682. The appointment of an additional plumbing inspector is necessary in order to keep proper supervision over plumbing installations in towns, villages and rural areas.

I would like once again to direct the attention of municipal authorities to the responsibility which falls on them for the safeguarding of public water supplies. Failure to make certain that the public water supply is safe for human consumption is bound sooner or later to result in a serious outbreak of waterborne disease.

I also desire to direct the attention of municipal authorities to the responsibility resting on them for the supervision and control of milk supplies. Any municipality which permits the sale of unsafe milk is inviting serious trouble. In this regard, an ounce of prevention is worth many pounds of cure, and it is encouraging to note the increasing number of municipalities which have passed by-laws requiring pasteurization of their milk supplies. One new pasteurization plant was installed in 1949.

Detailed information concerning the activities of the Sanitary Engineering Division will be found in the report of the Division.

Division of Hospital and Medical Services.

In 1949 there were 99 approved hospitals in the Province. In addition, 22 private hospitals were licensed under the Private Hospitals Act. In addition to these hospitals, the Lloydminster United Municipal Hospital, located on the Saskatchewan side of the border, and the Fort Smith Hospital in the Northwest Territories, received the Government grant covering Alberta patients admitted to these hospitals.

On the basis of a population of 871,000, there was one hospital bed available (including cribs and bassinets) for every 155 of our population, or 6.4 per 1,000. Excluding bassinets, there was one hospital bed available for every 185 of our population.

Patient days (excluding new born) in 1949 totalled 1,436,927. There were in addition 210,431 patient days for the newborn. Of the births registered in Alberta in 1949, 97.2 per cent occurred in approved hospitals.

Construction of the following new hospitals was started in 1949:

Name of Hospital	Bed	Capacity
Glanden Municipal Hospital		10 582

Construction of additions to the following hospitals was undertaken in 1949:

Name of Hospital	Additional Beds (excluding Bassinets)
Bentley Municipal Hospital	
Claresholm Municipal Hospital	
University Hospital, Edmonton	in the second se
Grande Prairie Municipal Hospital	and a constant of the second
Peace River Municipal Hospital	
Taber Municipal Hospital	and a second sec
St Mary's Hospital, Trochu	

There were 48 Municipal Hospitals in operation in 1949, with a total capacity of 1,547 beds, including bassinets.

The daily average number of patients in all approved hospitals in the Province was 4,513. The average stay in hospital 9.2 days. Excluding D.V.A. patients, orthopaedic, poliomyelitis and Tuberculosis Division patients in general hospitals, the average stay was 8.6 days.

The shortage of nurses, to which reference has been made in reports of previous years, was still evident in 1949, particularly in the smaller hospitals. As of December 31st, 326 nursing aides have been certified under the Nursing Aides Act. These nursing aides have given excellent service in the various hospitals in which they have been placed, and their assistance has been most valuable in meeting the urgent needs of the day.

The cost of hospital construction and equipment has continued to rise in 1949, and as yet, shows little indication of levelling off. The cost of practically all supplies used by hospitals has continued to increase. These rising costs have been reflected in an everincreasing cost for hospitalization, and have resulted in very difficult problems for those responsible for the administration of the hospitals and the public requiring hospital services.

Detailed statistical information concerning approved hospitals will be found in the report of the Division of Hospital and Medical Services.

Canadian Red Cross Blood Transfusion Service.

This service instituted by the Canadian Red Cross Society in 1947 has, during the year 1949, given blood transfusion to 11,661 patients, representing over 20,000 bottles of blood. In addition, plasma was provided for 1,577 patients. Laboratory examinations in connection with the typing of blood and other blood examinations numbered many thousands. From the Central Depot in Edmonton and the Sub-depot in Calgary, this splendid service has been made available free of charge throughout the Province.

The response of the public as blood donors has been excellent. We sincerely trust that the keen interest and support of the public will continue unabated, so that the increasing demands for blood transfusions in grave illnesses in which such transfusions are of the most vital importance, can be adequately met.

Division of Tuberculosis Control.

The number of treatment beds available for tuberculosis in 1949 remained the same as for the previous year, namely 489. Patient days for all santoria and hospitals totalled 160,941.

Non-pulmonary tuberculosis cases for whom free treatment was provided as a project under the Federal Health Grants accounted for 13,677 of the above mentioned days.

During the year diagnostic services were extended to a total of 106,049 persons in the Province. In addition, diagnostic services were provided for 10,120 Indians by the Indian Affairs Branch of the Department of National Health and Welfare. Mobile X-ray Unit Surveys accounted for 73,022 examinations of the above-mentioned total of 106,049.

There were 779 new cases (all forms) of active and inactive pulmonary tuberculosis (excluding Indians) found in 1949. Of these, 415 or 53.4 per cent were considered minimal; 192 or 24.5 per cent moderately advanced; 58 or 7.6 per cent far advanced; 70 or 8.8 per cent primary; and 44 or 5.6 per cent tuberculous pleurisy with effusion.

There were 650 patients admitted to the sanatoria in 1949, and a total of 1,030 patients were treated in all sanatoria during the year.

The two Mobile X-ray clinics examined 73,022 persons in 1949. These two completely equipped Mobile X-ray units, gifts of the Alberta Tuberculosis Association, are operated by the Department, and have made an outstanding contribution in the campaign against tuberculosis in Alberta.

The Alberta Tuberculosis Association has carried on its general programme along much the same lines as in previous years. Under this programme, X-ray equipment to provide for diagnostic service has been installed in a number of hospitals, and assistance has been extended in connection with academic and vocational training. Many patients through such training, have subsequently obtained remunerative employment and have become re-established. This is a constructive programme which means much to patients who have, in many cases, to change their mode of life and type of employment.

Free sanatorium treatment for Non-pulmonary Tuberculosis was put into effect early in the year through a project under the Federal Tuberculosis Grant. The total number of patients admitted to hospital or sanatoria for treatment was 119, and the total patient days 11,085.

Free streptomycin, where authorized by the medical staff, was made available to all sanatorium patients requiring this antibiotic.

Affiliation, for the instruction of nurses in training in general hospitals, was arranged with four hospitals, six courses of eight weeks' duration being given to groups of eight affiliates. This is a noteworthy development in the training of nurses.

The cornerstone of the William Aberhart Memorial Sanatorium was laid by Mrs. Aberhart on October 14th, in a ceremony at which the Honourable Premier Manning presided as chairman. This ceremony marked an important event in the tuberculosis programme in this Province.

New construction at the Central Alberta Sanatorium, some of which began in 1948 was completed in 1949. This included the new Recreation Building with an auditorium providing accommodation for 300. The Alberta Tuberculosis Association donated 250 folding metal chairs, the stage and window drapes, and the equipment in the Occupational Therapy rooms. Two new movie projectors and a new screen were presented to the Sanatorium by the Entertainment Committee. These generous donations are gratefully acknowledged.

The Girls' Home, providing comfortable quarters for 55 girls, was completed in July. This has added much to the comfort and convenience of the staff.

The Chapel was opened for the first religious service on October 30th. The Alberta Tuberculosis Association provided the furniture for the sanctuary. This gift stands as a memorial to the late Mr. E. C. Shaughnessy and the late Mr. W. Way, two of the founders of the Alberta Tuberculosis Association in 1939. Gifts were also made by Mrs. J. H. Woods and the Samaritan Club, in the furnishing of this place of worship. These generous gifts are gratefully acknowledged by the Department.

A new Workshop was completed, providing adequate accommodation for the painter, carpenter, plumber and electrician. This has already proved its value in connection with the maintenance work of the institution.

Detailed information concerning the activities of the Division of Tuberculosis Control will be found in the report of this Division.

Mental Health Division.

On January 1st, 1949, there were 3,131 patients in all mental institutions, and on December 31st, 3,171, an increase of 40 patients. The rate of hospitalized mental patients to general population has increased from 156 per 100,000 population in 1921 to 364 in 1949.

There were 484 patients with psychoses, 56 patients without psychoses, and 47 mental defectives admitted to the Provincial Mental Hospital, Ponoka, in 1949. There were 381 with psychoses, 58 without psychoses, and 20 mental defectives discharged. During the year, 63 deaths occurred, of which number 39 were deaths of male patients and 24 of female patients. There were 23 transferred from the Mental Hospital, Ponoka, to other mental institutions, including 4 male patients and 19 female patients.

There were 1,271 patients in the Provincial Mental Institute, Oliver, at the beginning of 1949, and 1,273 at the end of the year, an increase of 2. In addition, 63 patients were on leave or otherwise absent at the end of the year. During the year there were 211 patients with psychoses, 36 patients without psychoses and 19 mental defectives admitted. There were 143 patients with psychoses and 49 patients without psychoses discharged, 7 patients were transferred to other institutions, and 54 deaths occurred during the year.

In the Auxiliary Mental Hospital at Claresholm, there were 99 female patients on January 1st, 1949, and 98 at the end of the year. During the year, 8 patients were admitted (6 transferred from other institutions), 3 were discharged, 5 transferred to other hospitals, and 1 death occurred.

In the Auxiliary Mental Hospital at Raymond there were 113 female patients in residence on January 1st, 1949, and the same number at the end of the year. During the year, 4 patients were admitted (3 of whom were transferred from other institutions), no patients were discharged, and 4 deaths occurred.

During the year, 40 patients were admitted to the Training School for Mental Defectives at Red Deer, 32 were discharged, 5 were transferred to other institutions, and 8 deaths occurred. There were 298 patients in residence at the beginning of the year and 293 at the end of the year.

Dr. D. L. McCullough, who served for 18 years as Medical Superintendent of the Provincial Training School, and for 10 years previously as a member of the medical staff of the Provincial Mental Hospital at Ponoka, retired on superannuation on July 3rd. The Department desires to express its sincere appreciation of the keen interest shown and the faithful service given by Dr. McCullough over this long period, and to extend to him and to Dr. Mary McCullough, very best wishes for many happy years ahead. Dr. McCullough was succeeded as Medical Superintendent by Dr. L. J. leVann, who assumed the duties of this position on August 17th, 1949.

The construction programme in 1949 was an extensive one, including a new Occupational Therapy Building at Ponoka, a Tuberculosis Building providing accommodation for 200 patients at Oliver, a new Occupational Therapy Building at Oliver, 3 new dormitories and a new Recreation Hall at Red Deer, and an addition providing accommodation for 12 patients at Raymond. The renovation of the Administration Building at Red Deer was almost completed. The above mentioned construction programme will make added facilities of the greatest value, available in the above mentioned institutions.

Guidance Clinics.

The services provided by Provincial Guidance Clinics were again expanded in 1949, with the re-establishment of this service in the Peace River area. This service had to be discontinued during the Second World War due to the shortage of available trained personnel.

This Province pioneered in providing preventive services in the field of mental health, the first clinic having been established in Calgary in 1929. The establishment of Travelling Guidance Clinics marks a further expansion in a programme which has already given convincing proof of its value.

During the year, 1,483 new cases were presented at the various Guidance Clinics. Since the inception of this service in 1929, 8,931 patients have passed through the clinics. The co-operation received from parents, school and health authorities and welfare and other community organizations, has been outstanding.

Eugenics Board.

The work of the Eugenics Board is carried on under the authority of the Sexual Sterilization Act. Eight meetings of the Board were held in 1949. During the year, 116 cases were presented to the Board and 109 cases were passed by the Board (52 males and 57 females). Since The Sexual Sterilization Act was proclaimed in 1929, 2,578 cases have been presented to the Board. During 1949, 20 male and 27 female cases were sterilized, bringing the total number of cases operated on, to the end of December, to 1,175, of which number 475 were male and 700 female. As in previous years, all operations were performed at the Provincial Mental Hospital, Ponoka.

Mrs. J. W. Field, who served as a member of the Eugenics Board continuously from the time the first Board was appointed in 1929 until the end of December, 1948, submitted her resignation, effective as from December 31st, 1948. Mrs. Field made an outstanding contribution in this work. Her keen interest, wide experience and sympathetic understanding were manifest at all times. I wish to express to Mrs. Field the sincere appreciation of the Departmen for the splendid service she gave as a member of the Eugenics Board over a period of twenty years.

The Department was most fortunate in securing the services of Mrs. R. B. Gunn to take the place of Mrs. Field on the Eugenics Board. Mrs. Gunn's appointment became effective as from January 1st, 1949.

It is with deep regret that we have to record the death of Dr. E. L. Pope in November. Dr. Pope served as a member of the Eugenics Board from the inception of this work, and gave outstanding service. His special training, broad experience, and excellent judgment, contributed in a large measure to the success of the work carried on by the Board.

The Department again wishes to express to the members of the Eugenics Board, the honourary surgeons, and the staffs of our various Mental Institutions and Guidance Clinics, its sincere appreciation of the fine service rendered by each and all in the discharge of their responsibilities.

Detailed information concerning the activities of the Mental Institutions, Guidance Clinics and the Eugenics Board is given in reports of these services.

Board of Visitors.

The Board of Visitors is constituted as follows: Dr. J. M. Mac-Eachran, Chairman; Dr. E. L. Pope, Dr. E. R. Selby, and Mrs.R. B. Gunn.

The Board visited the various institutions coming under the administration of the Department, as well as the Provincial Guidance Clinics, during the second half of October, and a report on each of these institutions was submitted by the Board.

The Department desires to express to the Board, its sincere appreciation of the splendid service it has rendered.

General Administration.

The statement of revenue and expenditure for the year ending March 31st, 1950, will be found on page 15 of this report. An analysis of this statement shows that the total expenditure for all activities of the Department was \$8,822,283.06. The total revenue was \$1,852,950.21. The net expenditure of the Department was \$6,969,332.85. The sum of \$2,294,915.00 was expended for the maintenance and operation of the various mental institutions coming under the administration of the Department. The sum of \$922,262.00 was expended for the maintenance and operation of the Central Alberta Sanatorium at Calgary, in providing hospital accommodation and medical care for tuberculosis patients in Edmonton and other hospitals, and in providing diagnostic and other services. The sum of \$1,019,311.50 was expended in grants to approved hospitals. The sum of \$946,181.00 was expended in providing free maternity hospitalization; \$1,033,276.00 was expended in providing hospital, medical, dental and other services for pensioners, and those in receipt of mother's allowances and their dependents. The sum of \$920,141.07 was expended in Hospital Construction Grants, under the Federal Government programme of matching grants in aid of hospital construction, of which amount the Federal Government contributed \$408,088.24; \$375,592.00 was expended in providing cancer diagnostic and treatment services; \$134,925.00 was expended in grants providing for the operation of the Provincial Public Health Laboratory; \$110,015.00 was expended in providing public health and district nursing services; \$75,385.32 was expended in grants to district health units. The sum of \$598,055.03 was received from the Federal Government in grants covering various health services under the Federal Health Grants Programme. Through these grants, the expansion of existing health services and the development of a number of new health services and activities was made possible. More detailed information concerning the same, will be found in reports of various Divisions of the Department.

In concluding this summary of the activities of the Department for the year 1949, I desire to record my sincere appreciation of the fine spirit of co-operation and the splendid service given by the Directors and members of the staff of all Divisions of the Department, including the Superintendents and members of the staff of the various Institutions which come under the administration of the Department. This Department is fortunate in the high quality of its personnel.

Respectfully submitted,

MALCOLM R. Bow, B.A., M.D., C.M., D.P.H., Deputy Minister of Health.

Communicable Disease Division

(N. BASTER, M.D., B.Ch., D.P.H., Director)

(J. A. Gillett, M.D., resigned his appointment as Director in July, 1949.)

The Division of Communicable Diseases is responsible for the co-ordination of measures taken to control communicable diseases throughout this Province. Ascertainment is by notification, information obtained is summarized and disseminated to interested bodies in the Province, in adjacent areas, and to the Dominion Government. Control is exercised by local authorities under the Public Health Act and the Regulations covering communicable diseases; the Division acts in an advisory capacity to the local authorities. In the parts of the Province not covered by the Local Health Authorities, the Division acts directly.

Accurate ascertainment presents a problem, as without it adequate control of diseases is impossible. The extent of notification is difficult to assess; but from several small checks made recently it would appear that much notifiable disease is not notified. The reasons for this need careful examination before suggestions can be made to improve the present position.

Control presents an increasing problem with the growth in population of the Province, which is aggravated by distance from Edmonton, and there seems to be a clear need for a more accessible consultation service for local practitioners, who may very rarely see cases of more serious infectious diseases such as typhoid or diphtheria.

The main features of the year were the considerable number of cases of Scarlet Fever. This disease, though fortunately becoming less severe in character, does not appear to be any less common than it ever was, and the considerable reduction in both the incidence and the mortality rate of Whooping Cough.

TYPHOID

(Cases 13, Deaths 0)

Cases of Typhoid are usually the result of sanitary defects and defence against the disease must be by improved sanitation. Detection and supervision of carriers is important in controlling sources of infection, but is a difficult procedure with so many new arrivals in the Province.

PULMONARY TUBERCULOSIS (Cases 774, Deaths 156)

Both the number of cases reported and the number of deaths showed a further decline compared with the previous year (cases 860, deaths 200). Further detailed information is in the report of the Division of T.B. Control.

DEPARTMENT OF PUBLIC HEALTH

WHOOPING COUGH

(98 Cases, 5 Deaths)

This disease showed a most marked decline during the year, only 98 cases being reported compared with the previous year's 1,178. This is a much greater fall than one would expect from the cyclical regression, and it coincides with the time when we should expect to see some effect of the immunization program. The reduction is probably due to both these factors and a maintenance of these low figures in the year immediately ahead will demonstrate the value of immunization. The considerable rise of the case-fatality rate is probably not significant, as the numbers are too small. It may be some years before the effects of immunization will make an appreciable difference, as it takes time to build up an immune child population, and this year's astonishing improvement should be treated with caution.

MEASLES

(Cases 9,179, Deaths 19)

This was an epidemic year for measles and the numbes of cases reported was undoubtedly large. Apart from the deaths it causes, the amount of damage it leaves in considerable. Its high infectivity makes it a most difficult disease to control, but it is worthy of much more serious attention than it receives.

Poliomyelitis

(Cases 127, Deaths 9)

Following the epidemic of 1948, a fall in the incidence was to be expected, though it was still high. This figure does not represent part of the previous years' epidemic as only nine cases occurred in the first six months of the year. It may have been due to the extensive reservoir of infection left by the previous years' epidemic; immigration of non-immunes into the Province may also have contributed. It is to be expected that 1950 will show a further decline. When one considers the extensive public disquiet aroused by Poliomyelitis, it is worth while comparing the statistics with those of measles in an effort to get its importance in a truer perspective.

SCARLET FEVER

(Cases 865, Deaths 0)

Though there was an epidemic of Scarlet Fever during this year, there were no deaths for the third year in succession. This reflects the general picture of the declining severity of this diseases which appears to have taken place during the past fifty years. Its relationship to other streptococcal infections and the mildness of many cases render assessment of its incidence impossible. Though it is now seldom a fatal illness, it still often leaves unfortunate aftereffects, making its control still a matter of importance. The value of immunization against the disease needs careful assessment and balancing against the very limited public health staffs available.

SMALLPOX

(Cases 0, Deaths 0)

For yet another year no cases of Smallpox were reported. Its severity and high infectivity render it still a potential source of danger to a susceptible population. The position is complicated by

its rarity often leading to failure to diagnose in the early stages, and increasing air travel making the possibility of an imported case resulting in many contacts in the incubation and early stages. Vaccination must, therefore, be kept at a high level.

DIPHTHERIA

(Cass 59, Deaths 12)

The number of cases showed an increase over the previous year's (52 cases), and the number of deaths was doubled. Only seven of these cases occurred in either the two main cities or in those parts of the Province having a fully functioning health unit service. Prior to the introduction of immunization, diphtheria struck most severely in the more urbanized districts as its opportunity for spread is so much greater in the close contact communities. The reversal of this in the Province indicates the value of immunization.

Diphtheria is entirely preventable by immunization, and there is no doubt that if the immunization state throughout the Province could be raised the disease would disappear. A considerable effort to raise the immunization state in parts of the Province other than the big cities or health unit areas is well worth while.

It will be seen from Table 4 that there has been little change in the picture during the past ten years.

RUBELLA

(Cases 1,575, Deaths 0)

Though Rubella is considered a mild disease, work carried out during recent years showing the part it plays in the production of malformation in the foetus when contracted in the early months of pregnancy has focussed attention on it. It is advised by several authorities that it is an indication for the termination of pregnancy when contracted in the early months, in order to avoid the possible birth of a malformed infant. With the evidence at present available it would seem a good deal of thought is necessary before a general policy can be formulated as there are many different aspects of this problem which require study.

UNDULANT FEVER

(Cases 19, Deaths 0)

This shows a marked decline compared with the number reported the previous year (47). Pasteurization of milk prevents this disease from being a major problem, but when it exists in cattle a steady run of cases from rural areas where unpasteurized milk is consumed must be expected. Further improvement in the position will depend on the success of the Department of Agriculture's efforts to rid the Province of the disease in cattle.

TABLE 1

NUMBER OF CASES OF COL	MMUN	VICABLE	DISEASES REPORTED, 1948 A	ND 1	949
	1948	1949		1948	1949
Actinomycosis	2	3	Mumps	1,432	1,013
Anthrax	1		Paratyphoid	25	1
Acute Anterior Polio	380	127	Rocky Mtn. Spotted Fever		init
Chickenpox	2.834	3.067	Rubella	289	1,575
Diphtheria	52	59	Scarlet Fever	248	865
Dysentery	7	17	Smallpox		-
Encephalitis	. 3	2	Tetanus		1
Erysipelas	. 23	24	T.B. Meningitis		
Food Poisoning		14	Tuberculosis, Pulmonary	860	774
Glandular Fever		1	Tuberculosis. Non-pulmonary	68	356
Infectious Hepatitis	5		Trachoma		1
Infectious Mononucleosis	5	7	Tularemia	2	1
Malaria		2	Typhoid	13	13
Measles	2.086	9.179	Undulant Fever	47	19
Cerebro-Spinal Meningitis	7	8	Whooping Cough	1,178	98

TABLE 2

TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR 1948 AND 1949, WITH DEATH RATE PER 100,000 POPULATION

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		1948	1	949
Disease	Total Deaths	Rate Per 100,000 Populatin	Total Deaths	Rate Per 100.000 Population
Acute Poliomyelitis and Polioencephalitis	. 28	3.3	9	1.0
Cerebro-spinal Meningitis	2	.23	1	.11
Diarrhoea and Enteritis	0.2	11.0	63	7.2
Diphtheria	. 6	.7	12	1.4
Measles	. 7	-8	19	2.2
Scarlet Fever	. 0	.0	0	0
Smallpox	. 0	.0	0	0
Tuberculosis, Respiratory		23.5	155	17.8
Tuberculosis, Other	. 59	6.9	54	6.2
Typhoid	. 0	0	1	.11
Whooping Cough	. 11	1.3	5	.57

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TABL 4

INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES FOR THE TEN YEAR PERIOD, 1939-1949

		DIPHTHE	RIA			
			Total	Total	Morbidity	Mortality
		Population	Cases	Deaths	Rate	Rate
1939		789,000	36	7	4.5	0.9
1940 .		795,000	52	12	6.42 3.9	1.5
		796.169	31 58	6 11 .	7.3	1.4
		805,152 792,000	46	11	-5.8	1.4
		818,000	57	5	7.2	0.6
	*	826,000	53	9	6.4	1.1
		803,330	48	7	5.9	0.9
		822,000	86	7	10.5	0.9
		846,000	52	6 12	6.1 6.8	.7
1949 .		871,000	59	12	0.0	1.4
		TYPHOID H	FEVER			
1939		789,000	34	4	4.37	.51
		795,000	36	3	4.5	.40
		796.169	33	5	4.1	.60
		805,152	18	1	2.3 1.4	.10 0.1
		792,000 818,000	11 101	8	12.4	1.0
		826,000	20	2	2.4	0.2
		803,330	9		1.1	
		822,000	17	1	2.07	0.12
		846,000	13		1.6	
1949		871,000	13	1	1.5	.11
	ACUTE	ANTERIOR I	POLIOMY	ELITIS		
1939		789,000	24	5	3.0	0.6
		795,000		4		
1941			167	8	20.9	1.0
		805,152	8 24		1.0 3.0	
			107	1	13.3	0.1
			19		2.3	
		000 000	78	8	9.70	1.0
			84	7	10.2	0.9
1948		846,000	380	28	44.9	3.3
1949		871,000	127	9	14.6	1.0
		WHOOPING	COUGH			
1939		789,000	2.080	33	263.6	4.2
		202 000	1,158	55	45.7	7.0
1941		796.169	364	23	19.8	2.9
1942			1,131	12	141.0	1.5 1.5
1943			1,520 757	12 42	191.0 94.5	5.7
1944			694	43	84.4	5.2
1945 1946		0.00 0.00	308	19	38.3	2.3
1947		000 000	972	9	118.2	1.1
1948			1.178	11	138.1	1.3
1949		871,000	98	5	11.3	.57
		SCARLET	FEVER			
1939		789,000	1,113	19	141.0	2.4
1940		795,000	779	9	98.0	1.1
1941		796.169	792	6	101.0	0.8
1942		805,152	2,265	11 7	286.0 208.0	0.9
1942			1.676 2.615	9	327.0	1.1
1944		000 000	1,358	1	164.0	0.1
1945 1946		000 000	482	1	59.8	0.1
1947		000 000	225		27.4	
1948		. 846,000	248		29.3	· · · · ·
1949			865		99.3	
		SMALL	POX			
1939		700 000	45		5.7	
1940		202 000				
1941		796.169	1		0.1	
1943		792,000	1		0.1	****
1943		792,000	2			
1944			****		****	****
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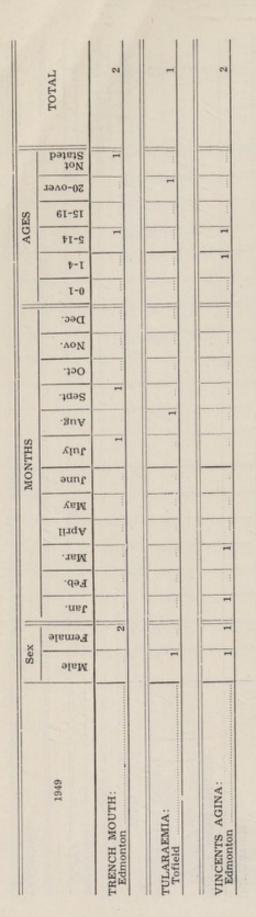
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	1949	GLANDULAR FEVER: Red Deer	IMPETIGO: Bowden	INFECTIOUS HEPATITIS: Drumheller Coaldale Coaldale I.D. No. 42 I.D. No. 42 I.D. No. 42 Totals	UNDULANT FEVER: Edmonton Lethbridge Towns and Villages Municipal Districts Improvement Districts Totals	INFECTIOUS MONONUCLEOSIS: Edmonton Municipal Districts Improvement Districts Totals

42

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MALARIA: Edmonton Stettler No. 54						1 1							1 1	11		-	1.1	11		
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PARATYPHOID: Lac St. Anne No. 93		1							-									1		1
RINGWORM: Edmonton	9				4				1	-	-		1			2 4				 9
SEPTIC SORE THROAT: Edmonton Medicine Hat	4	.=																		4-10
Provost Municipal Districts Improvement Districts	18	13 4 2	63	- 69	- 00	1			TI	1	-	28 2	0100		4	9 10		011-	-	31 22
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TETANUS: Calgary	1											1	1		-	197		1		1
				-						2										
TRACHOMA: Edmonton	180																	1	1	1

DEPARTMENT OF PUBLIC HEALTH



Division of Entomology

J. H. BROWN, B.Sc., M.Sc., F.A.P.H.A.

This Division deals with epidemiological problems associated with insect-borne diseases. A considerable amount of the time of the Division was devoted to investigations relating to Sylvatic Plague, Spotted Fever and Tularaemia. The survey in connection with the migration of rats in Western Canada and in the Western United Staates was continued.

In connection with the survey relating to Rocky Mountain Spotted Fever, 2,399 drag ticks and 2,170 host ticks were taken in 125 collections. No positives were found.

There were 771 persons—396 males and 375 females—vaccinated against Rocky Mountain Spotted Fever; 328 in the Maryberries district, 303 in the Redcliff district; 105 in the Thelma-Elkwater district, and 30 at Medicine Hat.

During the course of the Sylvatic Plague survey 171 collections, consisting of 656 fleas and 301 tissue specimens, were made from 1,522 animals. Seven of the collections were positive for plague. These were made at the following places: 2 at Hanna, 2 at Cessford and 3 at Lomond. The location for the plague infection at Lomond confirms the findings two years ago of a southwestward extension of the Brooks plague area.

Although no positives were found in animals or insects collected during the course of the tularaemia investigations, it is now known that this disease is widespread throughout the province, with an increasing number of human cases being reported each year.

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.

General

During the past year the work of the division has increased greatly through the requests from Medical Officers of Health and the general public for information on the control of insect pests.

Fly control is becoming an important part of the work as considerable interest has been aroused in flies as a probable means of spreading poliomyelitis.

A number towns and villages are establishing mosquito control programs based on recommendations from this division.

The investigation of insect infestations in foodstuffs continues on a much larger scale. Great success has been had through the cooperation of the wholesale houses and the Food and Drug Division of the Department of National Health and Welfare in bringing this infestation under control. A considerable number of cases of myiasis in human beings and animals on fur ranches were investigated and control measures recommended.

The first death in the Province from shock following a bee sting was recorded on July 24th, when a four-year-old female died at Morinville.

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Cancer Services

V. W. WRIGHT, M.D., Director, Cancer Diagnostic Clinics

The following figures indicate the activities of the Edmonton and Calgary Clinics for the year 1949:

NUMBER OF PATIENTS EXAMINED

	New	Follow-up	Total
Edmonton	$2.092 \\ 1.424$	2,086 1,138	$4,178 \\ 2,562$
Totals	3,516	3,224	6,740

It will be noted that the total number of new cases is 3,516 compared with 3,220 in 1948, 2,916 in 1947, 2,258 in 1946, 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, 2,063 were found to be non-malignant and, therefore, did not require treatment under the Cancer Clinics.

A summary of the anatomical distribution of the cancerous lesions in order of frequency is attached hereto, 1,453 in number.

The total number of surgical operations authorized for 1949 was as follows:

E/C

Edmor

dmonton	
anger y	2.091
Total	2,091

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

Edmonton Calgary	1,116 625
Total	1,741
The total number of cases referred to hospitals:	1.015
Edmonton Calgary	
Total	2,182

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

nton	549
Total	1,058

The total number of cases referred for x-ray examinations: Edmonton Calgary Total Total

The total number of cases referred for miscellaneous examinations and treatments in Edmonton was 405.

The total number of cases referred to Specialists for consultations in Calgary was 54.

The total number of cases referred for cystoscopics, pyelograms, genito-urinary opinions by the Edmonton Clinic was 214.

The total number of cases referred for bronchoscopic, bronchograms and oesophagoscopys by the Edmonton Clinic was 111. The total number of cases referred for complete blood counts, gastric analysis, etc., by the Edmonton Clinic was 201.

Since the opening of the Clinic in 1941, the total number of cases examined, exclusive of re-examinations, is 19,428. Of these, 9,280 were diagnosed as cancer, or 47.8%.

1949 ANATOMICAL DISTRIBUTION OF CANCEROUS LESIONS IN ORDER OF FREQUENCY

EDMONTON		CALGARY	
Skin	126	Skin	
Breast		Breast	
Stomach		Lip	
Colon	10	Uterus	
Lip	0.0	Stomach	51
Míscellaneous		Colon	
Cervix		Cervix	
Rectum		Bladder	
Uterus	25	Rectum	
Lung		Ovary	19
Prostate	10	Prostate	19
Bladder	17	Mouth	
Brain	177	Larvnx	
Lymphomas	10	Abdomen	
eukamia		Lung	
Dvary		Kidney	
douth		Pancreas	
Sarcomas	11	Brain	
Pancreas	10	Hodgkin's	
Kidney		Thyroid	
Bone		Lymph Gland	
l'esticle		Leukemia	
arynx		Esophagus	-
Iodgkins		Parotid	
Desphagus		Testicle	
harynx		Caecum	
/ulva		Nostril	
Gall-Bladder		Sarcoma	
Thyroid	9	Penis	
Card.	0	Salivary Gland	
landa	-	Vocal Cord	
renis	e	Vulva	
Total	669	Deser	
Total		Para	
		Fight Id Browles	
		Gall-Bladder	annana 1

Gall-Bladder Hip Knee Liver Nasopharynx Pituitary Rib Shoulder

Vanquez Disease

Total

784

Tonsil ... Urethra

Health Education

C. C. Evoy, B.Sc., Director

Health instruction aims to assist the pupil in acquiring desirable habits, wholesome attitudes and adequate knowledge relating to personal, community and racial health. Health instruction utilizes the life experiences of youth and adults, guiding these experiences toward intelligent self-direction and community group action for improved personal and social welfare.

Inherited capacities and factors in the environment affect the health of a person. Health instruction rightfully takes cognizance of these forces as it integrates school experiences with actual living in the home and community. Within the school itself health instruction combines the educational features of health services and healthful school living, and includes planned activities of direct or incidental teaching.

The general objectives of health education outlined by a prominent committee with modifications to comply with current educational practices are as follows: *

- To guide children and youth in the conservation and improvement of their own health.
- 2. To assist them in establishing the habits and principles of living which, throughout their school life and in later years, will assure that abundant vigor and vitality which provide the basis for the greatest possible happiness and service in personal, family and community life.
- 3. To influence parents and other adults, through the health education program for children, to better habits and attitudes, so that the school may become an effective agency for the promotion of the social aspects of health education in the family and community as well as in the school itself.
- 4. To improve the individual and community life of the future; to ensure a better second generation and a still better third generation.

The health educator visited 74 schools on field trips showing films to 5,816 pupils and teachers in many parts of the Province. At each school there was an opportunity to assist the teacher in outlining to the pupils the services of the Department of Public Health. Specific teaching of certain communicable diseases was given to selected groups at certain schools. This presentation supplemented with appropriate films gave pupils and teacher a better concept of the subject matter required in the health program.

I was accompanied by the district nurse of the area on some of the visitations. She had an opportunity to work with the teacher and pupils outlining her work and correlating its function.

The objectives in preventive medicine and talks on feminine hygiene with a film were given by the nurse to 'teen-age girls. The interest shown in the subject justified the time expended and ex-

^{*}Principles of Health Education Applied. C. L. Brownell, 1949.

emplified the fact that there is a place for the public health-trained nurse in school health instruction.

Part of the time the Public Health Nutritionist assisted in the health education programme by speaking to teachers and pupils about the services of her division. Many teachers took advantage of the opportunity to get first hand information and guidance in the organization of a school lunch programme.

This type of education where the teacher, pupil and health educator work together, I consider one of the most important.

Health Education Media

Health information to be disseminated is either general in scope or pointed toward a specific objective and for both the tools at the disposal of the health educator are essentially the same. They include the spoken word, printed matter, exhibits, motion pictures and the radio. Of these, the spoken word in individual or group contact is the most productive. It is difficult to estimate the respective values of the others, but all have their uses as supplements to direct instruction.

Audio-Visual

In 1947 we entertained the idea of preparing films on various services of the Department of Public Health. During 1948 this project was started by preparing scripts for two films, one on Mental Health and the other District Nursing. The actual screening of these films was completed in the summer of 1949, and master prints were available late in the year. It is hoped that the sound commentary will be added early in 1950 and the films available for distribution by the fall.

The Health Education Division assumed the responsibility of making all the necessary arrangements for the preparation of these films. Co-operating with them were the Division of Mental Health and the Nursing Division. The photography was done by the Film and Photographic Branch of the Department of Economic Affairs.

Each year this division previews many new films and filmstrips with a view to purchase. The Screening Committee consists of heads of divisions, and is called upon to serve in this capacity when a new film or strip relating to their respective service is obtained for preview. Some of our older prints are in need of duplication or replacement. We hope that this next year will bring many needed new films for purchase approval with the hope that a federal health grant project for this may be made available.

New subjects added to our library include: Mental Health, Sex Education, Human Biology, Sanitation, Nutrition and Child Welfare.

It was most gratifying to be able to allocate to each of seventeen health units a new 16 mm. sound projector and generating plant through the Dominion Grant for Health Education in this Province. Also a complete projector unit was placed at the disposal of the Nursing Aides School of this Department at Calgary.

The immediate result of providing this equipment to our field staff has been to open the door of audio-visual health education to 250,000 citizens of the Province. Since the inception of this service there has been a marked increase in the demands upon our film library. Reports indicate that our health prints have been screened for church, home and school, community and school groups. We have 120 films in the library—476 prints were shown to a total audience of 36,012 people through 1,234 screenings.

Radio

The objectives of radio health education are to instruct the public in all matters pertaining to health in the prevention of disease, and in the early and competent treatment of disease. Implied in the term instruction is a motor element—that the public not only will know, but will also act according to its knowledge. These objectives cannot be encompassed in every act of every health educator. They are to be striven for piecemeal and are shared by several different groups.

A better appreciation of the point may be gained by scrutinizing the types of effort put forth by the various groups active in health education. Such a scrutiny suggests a distinct classification: the voluntary organization and the official health department. A number of the voluntary health organizations are interested primarily in some one disease or some one phase of hygiene, for example, tuberculosis, cancer, social hygiene, first aid or nutrition. A second definite group comprises the official health organizations, the Rural Health Unit, the City, the Provincial Department of Health, and the National Department of Health and Welfare. A third group embraces the official medical societies, provincial and dominion.*

Basically, the objectives of radio health education conducted by the Provincial Department of Health should be to gain public support, public appreciation and public participation in the functions of the Department. It should be the aim of the Department officials to acquaint the public with what the Department does, the reasons therefor, and so on.

Regular health radio programmes were broadcast weekly over four Alberta stations during the year. Range of subject matter was wide; presentation, dramatic in form, and coverage would include most of the Province for each broadcast. Two themes, "Melody of Life" and "That Wonderful Feeling", each with thirteen programmes, were selected for the spring and fall periods. No broadcasts were made during the months of July and August.

Exhibition Displays

Although in considerable competition for favor with Edmonton Exhibition visitors, the health display attracted attention from many thousands every day. In addition to an exceptionally fine showing of work done in the Occupational Therapy classes at Alberta Mental Hospitals, the display this year featured the history of a birth certicate, stressing the importance of birth registration and the securing of one of the new plastic birth certificates. The model village prepared through the Division of Health Education included a hospital, recreation centre, playground, stores, creamery, health unit centre, school, sewage treatment and disposal plant, water tower, and a railway system, all of which goes to complete modern health facilities in a small centre. T.B. Control featured a colored motion picture on a daylight screen, and the Health Education Division screened many other health films in a small theatre off the main display.

The Division of Entomology had a unique portable cabinet display of a map of Canada showing the rat invasion from the be-

^{*}Radio in Health Education, 1945. New York Academy of Medicine.

DEPARTMENT OF PUBLIC HEALTH

ginning of the century. A manually operated dial would bring into play a lighting system which showed advances in 10-year periods.

The Division of Mental Health: The Handicrafts display by the Occupational Therapy sections of the Oliver and Ponoka Mental Hospitals was superb; some of the craftsmanship in this section is of the highest order. Children's toys of durable quality, table lamps, racks, candlestick holders, and many other accessories for the home were featured in the Oliver Display Room. None of these articles were for sale, but interested patrons could leave orders to be filled.

All of the various divisions of the Alberta Department of Public Health were represented. Attendants from some of the Divisions were present at all times to guide the public through display sections and to answer the many questions about the services of the Department.

The model village display "Fort Health", which was featured at the Edmonton Exhibition, was also displayed at a local carnival in the Foothills Health Unit area.

In conjunction with the Division of Nutrition, Vital Statistics and Entomology, displays on Nutrition, Birth Certificate, and Rats were shown in various parts of the Province.

A new panel display on "Pathways to Personality" was obtained from the Department of Health and Welfare, Ottawa, for use in Health Units, district nursing areas and on special occasions.

Although very attractively set up, this latter type of display is not in demand as much as other media.

Lectures

Lecture service was provided to a number of groups requesting talks and films on phases of public health. Personnel from the other divisions of the department assisted where possible. Four Home and School meetings showed a special interest in the new film Human Growth and its method of teaching sex education to school children. It is apparent from the discussion at these meetings that parents welcome the opportunity to participate in this type of instruction, and that there is a definite need for adult education in this field of health.

This division arranged for seven speakers to address the St. Andrew's Home and School Association on the last Tuesday of every month during the winter season. Experts in their field, these people discussed the following subjects: Problems of Children, Dental Caries Control, Home Nursing, Nutrition, Behavior Patterns, The Rh Factor, and Your Children's Eyes. The Association was most appreciative of this type of service.

Literature

Many new pamphlets, booklets and supplements were added to the growing list of public health publications this year in the departments of Child Welfare, Nutrition, Personal Hygiene, Sanitation, Mental Health and Communicable Diseases. Those of extraprovincial origin included the Metropolitan Life Insurance Co., the Department of National Health and Welfare, and from within the Province, the Alberta Tuberculosis Association and the Department of Public Health. In all thirty different new approaches have been selected as being appropriate and constructive in the advancement of better health. Booklets most in demand are those covering the services of the department, sanitation, rural health units and the Canadian Mother and Child. These are followed in the number of requests by cancer and communicable disease pamphlets.

HEALTH EDUCATION SERVICES

Mimeograph Service

Through a Dominion Health Grant Project a mimeograph machine was acquired by this division, and is used by most of the divisions in the department.

This new equipment is capable of turning out excellent work at a fast rate, and has been used to prepare news letters, circulars, the Alberta Public Health Worker, forms, etc.

Circulation Service

Many news letters, bulletins, reports, etc., of special interest to members of the department, are received in this office. These are circulated to all the divisions regularly for perusal. On their return to this division they are filed, and are available for reference at any time.

Publicity for Radio Programs

To prepare the radio audience for the series of Mental Health broadcasts entitled "In Search of Ourselves" to be aired in February, 1950, this division sent a circular to our Health Units, District Nurses, School Superintendents, Home and School Association, Farmers' Union of Alberta, Women's Institute, School for Nursing Aides, Film Councils and other key people in the Province, with the result that approximately 9,600 publicity folders were distributed throughout the Province. The publicity campaign was continued into 1950 with the distribution of 6,900 programme guides, announcements over the radio and press releases.

A series of Venereal Disease dramatizations, prepared for the Department of National Health and Welfare, was received by radio station CFRN. With the co-operation of our Social Hygiene division these programmes were auditioned and approved. The organizations listed above were notified and the programmes released for broadcast.

ACTIVITIES

Health Education Conference

The Health Education Conference with representatives from the nine provinces, met in Ottawa, March 1st, 2nd and 3rd. Among the resolutions approved was the following:

The Conference recommends the preparation of units of health education material which will include a film, filmstrip, illustrated pamphlets, and where possible posters: on: Safe Milk Production, Small Milk Plant Operation, Septic Tanks, Communicable Disease, Social Medicine, Family Relations, Small Town Water Supply and Sewage Disposal, Child Guidance Clinics, and V.D. Clinics.

A filmstrip, "The Health of the People", which depicts the services of the Department of Public Health, Alberta, was shown at this Conference, and received very high approval from the group.

Alberta Public Health Association

The members of the Alberta Public Health Association met in conference at the Macdonald Hotel, Edmonton, September 12th and 13th. Papers were presented on School Sanitation, Dental Caries, etc. The Director of Health Education was asked to speak on the use of the projector in health education. Copies of this talk containing instructions on the proper use and care of 16 millimeter projector equipment were forwarded to health units and district nurses as well as outside agencies. This talk was also printed in an issue of the publication, The Alberta Public Health Worker.

The Alberta Public Health Worker

In the fall and winter issues of this magazine this division contributed a section entitled Information Services. This section was in effect a supplement to our catalogue Health Education services, and provided information concerning the latest purchases for our film library, new literature, posters and displays.

Nutrition Services

BESS MORRISON, B.Sc., (Household Economics) ELVA M. PERDUE, B.Sc. (Household Economics)

During the two years since the establishment of a Nutrition Service with the Department of Public Health in 1947, the programme has been extended to keep pace with progress made in research and other channels. In an effort to provide a practical service, various approaches to nutrition education have been introduced, and the most effective incorporated into a continuing programme. Fundamentally, a Public Health Nutrition programme must take the form of a continuous public education, assisting people in their efforts to meet their nutritional problems successfully. In order to do this there must be a breakdown of faulty traditional dietary habits, and the translation of scientific dietary analysis and planning into terms readily understood by the public.

Since the nutritionist cannot expect to work with a large number of individuals personally, the nutrition programme is largely implemented through consultation. The present policy emphasizes the importance of the participation of the field personnel in all local public health nutrition-work. The variety of services provided to all local public health personnel during the year has included assistance with nutrition education in the local health education programme, school lunch work, and other community or individual nutrition problems.

The nutritionist has endeavored, during the year, to spend some time with the public health personnel in the field. While working with the nurses the available nutrition literature, exhibits and films are reviewed and methods of using them in health education programmes are discussed. A mimeographed pamphlet, Nutrition News, is distributed to the public health nurses to assist them in their efforts to keep up to date with advances in the field of nutrition. The current developments in the field of nutrition are brought to the attention of the nurses in order that they can use the information in their daily contacts within the community.

Local public health personnel, in giving assistance with school lunch programmes in their areas, have increased this service substantially. Considerable information through correspondence and school lunch literature has been provided to public health personnel assisting with lunch programmes. Requests for further help, such as technical guidance and direction with food-service problems, have been followed by a visit from the nutritionist whenever possible.

Working in co-operation with the Division of Health Education, the nutritionist visited schools throughout the Province. During these visits a talk on nutrition was given and a film shown to the students. When it was possible, the nutritionist spoke to teachers' groups regarding the available nutrition teaching aids and outlined developments in the nutrition field. In July a large display outlining the findings of a nutrition survey in the Foothills Health Unit was prepared. This material was used at the Edmonton Exhibition and at some of the smaller fairs, as well as in the offices of the various health units. In this way many hundreds of people were contacted and informed of the services. Additional nutrition displays were prepared and shown at conventions and in the high schools.

During 1949 a project was commenced to give assistance to small hospitals, school dormitories and other agencies interested in group feeding. Each month a release containing a week's supper menus and recipes is distributed. The purpose of this material is to offer suggestions to provide variety in the diets and to encourage the use of inexpensive and seasonal foods. Guidance and assistance has been given to small hospitals with the purchasing of kitchen equipment.

Inquiries from private citizens regarding all phases of nutrition were received. Mimeographed materials were prepared to answer some of the more frequent inquiries. During the year numerous small groups and organizations called upon the nutritionist for assistance with programmes. Among these were: Home and School Associations, Ladies' Auxiliaries of the various churches, local community organizations and Red Cross Home Nursing classes. Lectures were also given at institutes arranged for the teachers in various areas of the Province.

The majority of the nutrition publications distributed by the Nutrition Services were produced by the Nutrition Division, Depart ment of National Health and Welfare. These materials are supplied to the Province by the federal department for distribution at the provincial level. In view of the wide coverage given all phases of nutrition by these publications, there have not been any printed materials produced by the Provincial Department of Public Health.

The nutritionists employed by the Dominion and Provincial Departments of Health are members of the Dominion-Provincial Nutrition Committee formed late in 1945. At meetings held annually, the committee discusses Dominion-Provincial problems and plans. The Public Health Nutritionist attended meetings of the committee, which were held in March of 1949.

The staff of the Nutrition Services for the past year has included a nutritionist and the part-time services of one stenographer. Miss Bess Morrison was Acting Public Health Nutritionist until September, at which time Miss Elva Perdue returned from leave of absence.

Public Health Nursing Division

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

The Nursing Division has been fortunate in the past year to have had 32 of the 34 districts fully staffed, and the other two with part-time service provided by two married nurses living in the district who were formerly on our staff.

Miss Blanche A. Emerson has been Acting Director in the absence of Miss Jean S. Clark, B.Sc., M.P.H., with the Dominion Health Survey Committee.

Miss Laura Attrux, P.H.N., was in the office as Assistant Director a short while on her return from a Course in Midwifery in New York.

In July, Miss Marguerite Fitzsimmons, P.H.N., was appointed Assistant Director.

During the year there were nine permanent and four temporary appointments made. Two nurses returned from taking a Public Health Course; one nurse was married and remained on the staff. Three nurses were granted leave of absence to take Public Health courses. Three nurses resigned, one to be married; two because of illness, and five for other employment. Miss Attrux returned from the Course in Midwifery in New York and Kentucky prepared to give the Course in Advanced Practical Obstetrics at the University of Alberta, replacing Mrs. Barbara Eben. This course was not given owing to the shortage of nurses at the time, but Miss Attrux, who is stationed at Smith, gave special obstetrical training to several new nurses coming on the staff.

With potentially more staff available than in the past few years, consideration was given to the requests for new service. A new district was opened in September at Milk River. The community bought a fully modern cottage with complete furnishings, which has added greatly to the comfort and convenience of the nurse. Miss Mary Anderson was detailed to duty to establish this new district.

The district of Newbrook was closed in February when part of the district was included in the enlarged municipality.

Mrs. Barbara Eben, formerly of the district nursing staff, went to the Paddle Prairie Metis Colony in November, and communicated with this office for nursing advice and reports, which are included in our statistics.

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

Regular clinics have been established at other points in the following mentioned districts:

Alder Flats, at Buck Lake and Pendryl; Fawcett, at Jarvie and Flatbush; Kinuso, at Canyon Creek, Widewater and Faust; Milk River, at Coutts; Smith, at Slake Lake; Tangent, at Eaglesham; Whitecourt, at Blue Ridge, Fort Assiniboine, at Timeu.

Vast improvements in the cottages have been made by the Nurses Home Committees by providing better insulation, oil burners, as well as numerous other improvements to the cottages. Our thanks go out to them all for all they have done on behalf of this important service. In addition the Public Health Nursing Division continue to provide supervision for the One-nurse Health Units, and these include: Athabasca Health Unit, Colinton, Alta.; Brooks Health Unit, Brooks, Alta.; McLeod-Pincher Creek Health Unit, Granum, Alta.; Pembina Health Unit, Barrhead, Alta.; Rocky Mountain Health Unit, Rocky Mountain House, Alta.; Spirit River Health Unit, Spirit River, Alta.; Wainwright Health Unit, Wainwright, Alta.; Wheatland Health Unit, Strathmore, Alta.

Urban and Child Welfare Centres-Calgary, Medicine Hat and Vegreville.

Staff Education

New staff members are given an orientation period in the Nursing Branch office before going to a district. If they have not had Public Health training, they spend a short time at the Immunization and Well Baby Clinic in Edmonton. The new nurse spends a few days with a senior nurse in a district before taking full charge of one herself.

A three-day institute was held on "Child Care and Development" at the University of Alberta, Easter week, which the district nurses attended. The fourth day was devoted to problems concerning the Division.

The quarterly twenty-page mimeographd News Letter continues to be sent to the nurses with articles on newer drugs; treatments, and items of interest applicable to their work. Due to limited personal contact with the nurses, numerous problems are dealt with by regular correspondence.

Supervision

Twenty-four supervisory visits were made during the year to the different districts; considerable supervision and guidance was given by office conferences at such time as the various nurses have had occasion to visit the nursing office. The task of supervision was possible through monthly reports submitted by each nurse. The nurses in the districts are very appreciative of any visit from the office, and many problems are solved at such times. On each visit a Nurse's Home Committee meeting is held to the mutual benefit of both nurse and district, and acts as a liaison between the district and the Department. Due to the fact that the nurses work alone, more personal supervision is felt to be essential.

Programme in Rural Areas

In the early part of the year there was an unusual outbreak of Diphtheria in five district nursing areas, with a total number of 22 cases being reported, which led to mass immunization programmes conducted in all of the districts. With more nurses available, more districts have been opened, further increasing the total volume of work as shown in the following statistics. It is a much needed service in the rural areas where there is no medical aid. The programme of the urban area varies.

In Medicine Hat, Miss Hagerman has increased the Baby and Immunizations Clinics, with three clinics a month being held at Redcliff, once a month at the Airport and at Ralston-Suffield Experimental Station respectively. A Guidance Clinic was held once a month with Dr. Carson in attendance; follow-up work for T.B. was done in collaboration with the Central Alberta Sanatorium, and during the year 70 people were tuberculin tested. Eight Rocky Mountain Spotted Fever clinics were held. One-day Baby Clinics were held at Orion, Iddesleigh, Irvine, Walsh, Elkwater and Manyberries. Nineteen students spent three days each observing in the clinic, and two lectures were given to student nurses.

Miss Lavell, in charge of the Well Baby Clinic in Calgary, reports a branch clinic was started at the Nursing Aides School in the north-western part of the city. The Nursing Aides are given instruction in assisting in exchange for the use of two rooms, and the Public Health Nurse and a doctor attends the clinic held every two weeks, also a nurse from the Immunization Clinic. The attendance in nine months was 591. In May, an Infant and Pre-school Clinic was started at Currie Barracks with a nurse and doctor in attendance once a week, their attendance being 304. Lectures were given to the senior students at the Calgary General Hospital and to three other organizations. Miss Lavell also gave a report on 10 private nursing homes in Calgary.

Miss Black is continuing with the baby clinic, immunization clinic and school inspections as well as dealing with numerous welfare problems in her district in and around Vegreville.

Miscellaneous

Besides the usual administrative duties the Acting Director and her assistant arranged a display for the Nursing Division at the Edmonton Exhibition, also being on part-time duty at the exhibit.

Lectures on Public Health activities were given to senior nurses of the four hospitals in Edmonton, and a series of six lectures on Community Health were given at the School of Nursing in Lamont. Three talks on health topics and films were shown to a Young People's Church Group. A film was shown and a talk given to a second group of young people one Sunday evening. An evening was spent discussing the care of infants and children with special emphasis on communicable diseases with the Women's Social Club in Pleasant View Community Hall. Seven groups of fourth year medical students were given lectures on the working of the Nursing Division.

The services of the Alberta Maternity Fund maintained by the Provincial I.O.D.E., Alberta Women's Institutes and F.W.U.A. were continued, and in response to the requests from district nurses and needy families, layettes were distributed throughout the Province. Our thanks are due to these organizations for their generous contributions.

Field

Students from the various Schools of Nursing have had instructions at the Well Baby Clinic. Nineteen Public Health Nursing students obtained two weeks field experience in both district nursing centres and one-nurse health units.

The Public Health Nursing Division would like to take this opportunity to express its appreciation to all those who have aided in the furtherance of the work. To the Hon. Dr. Cross, Minister of Health, and Dr. Bow, Deputy Minister, who have given so generously of their attention to the problems of the Division; to all other Divisions of the Department and to other Provincial and National organizations. In the rural areas our nurses have been greatly helped by members of the medical profession, hospital staffs and teachers in the rural schools.

Finally, the Nursing Office wishes to commend the members of the staff who enable this service to be carried on so efficiently. The statistics which follow cannot begin to tell of the generous way they have served the community beyond the line of duty.

TABLE 1

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

Treatment Consultations	21.038
Miscellaneous P.H. Consultations	
Antepartum Consultations	1,540
Postpartum Consultations	320
Infant and Pre-school Consultations	
Treatment Home Visits	
Miscellaneous P.H. Home Visits	
Communicable Disease Home Visits	
Maternal Welfare Home Visits	345
Infant and Pre-school P.H. Home Visits	
Deliveries	
Abortions	
Cases sent to Hospital or Doctor	1,202
Deaths (under 1 year)	12
Deaths (over 1 year)	22
Doses of different Sera given	
Cases Communicable Disease Reported	1.272
Pieces P.H. Literature Distributed	
Fees Collected	
IMMUNIZATION WORK DONE AT OFFICE OR CLINIC:	
	50
Measles Prophylactic	
Diphtheria Toxoid	
Scarlet Fever Toxin	3.087
Smallpox Vaccine	
Whooping Cough Vaccine	
Typhoid Fever Vaccine	39
Destaura to the start of the st	-
Restaurant Inspections	5
Extra Baby Clinics	2

A very interesting Hot School Lunch programme was instigated by the nurse in the Fawcett school. This effort was extremely well organized and so worth while. When children are away from home all day, leaving early in the morning and not returning until late in the afternoon, hot nourishing food is essential to keep up their strength and build healthy bodies.

Many talks have been given in the communities to groups such as the Home and School Association, and the Nursing Aide Course. Classes consisting of nine lectures on Home Nursing with the use of films were given to a ladies' group.

Schick Tests	 55
T.B. Patch Tests	 4
V.D. Treatments	 28

TABLE 2

REPORT OF CHILD WELFARE CLINICS

	Calgary	Medicine Hat (Redcliff)	Vegreville
Baby Clinic:	9.026	4.195	416
No. in Attendance	1,601	481	73
New Cases Admitted		17	10
Old Cases Readmitted	192	117	
Out of Town Cases	28	90	14
Referred to Family Doctor		1	21
Discharged			
Deaths	2.671	2.464	109
No. of Cases on Roll		122	32
Transferred to Pre-school Clinics	1.706	682	80
Breast Fed	1.433	2.214	276
Bottle Fed	3,785	1.263	60
Other Feedings	3.308	1,200	00
Pre-School Clinic:			
No. in Attendance	3,028	938	6
New Cases Admitted	630	44	
Out of Town Cases	18	55	
Referred to Family Doctor	30	14	
Discharged	1.769	388	40
Deaths	1		
No. of Names on Roll	7,300	370	35
Visits:			
Baby Visits	4.301	215	
Pre-school Visits	2,439	92	
Pre-natal Visits	2	5	
	148	179	
Special Visits	60		
Private Hospital Inspection	14		
Insulin Investigations	6,720	429	55
Total No. Visits	0,120	440	
Attendance:	0 505	271	17
No. Letters Written on work	9,567		37
Total No. Clinics Held	247	159	
Total No. in Attendance	12,054	5,133	422
Total No. seen by Doctor	3,559		
Diphhtheria			676
Scarlet Fever			
Whooping Cough			630
Smallpox			109
Total number of doses given (different se	ra)		1,424

Te

TABLE 3

SCHOOL WORK-DIVISION OF PUBLIC HEALTH NURSING (Including that done by both District Nurses and Child Welfare Clinic Staffs)

31 Districts	1949
1. Visits to Schools	475
2. Individual Inspections	6.824
3. Suspected Defects	4.324
(a) Defective Vision	1.062
is a second s	154
	1.702
(c) Diseased Tonsils	2.569
(d) Unsound Teeth	64
	44
The Party of Constant Clands	624
	111
(h) Enlarged Thyroid Glands	692
(i) Malnutrition	157
(j) Nervous Disorders	400
(k) Faulty Posture	13
(1) Orthopaedic Defects	44
(m) Ringworm	49
(n) Impetigo	57
(o) Scables	205
(p) Other Skin Conditions	31
(q) Pediculosis	143
(r) Exclusions, Suspect Comm. Disease	493
4. Correction of Defects	158
5. Classroom Talks	291
6. Sanitary Inspection of Schools	286
7. Consultations with Teachers	280
8. Consultations with Parents	184
9. School Follow-up Home Visits	184
otal number of doses of the following:	
	4,914
Diphtheria Toxoid	1,165
Scarlet Fever Toxin	1,465
Smallpox Vaccine	1.863
Whooping Cough Vaccine	28
Typhoid Fever Vaccine	40
Schick Tests	

DEPARTMENT OF PUBLIC HEALTH

TABLE No. 4 SERVICE GIVEN BY ONE-NURSE HEALTH UNITS

The second se								_	
Services Offered	Athabasca	Brooks	McLeod- Pincher Crk.	Pembina	Rocky Mtn. House	Spirit River	Wainwright	Wheatland	Total
School Uselth Drogrammer	1						1		
School Health Programme: 1. Visits to Schools	345	135	223	173	157	114	120	114	1.381
2. Students Inspected	1269	634	937	878	1153		859		7,218
3. With Suspected Defects (a) Defective Vision	1197						356	139	4.020
(b) Defective Hearing	56						28	41	857 107
(c) Diseased Tonsils	601	1 2 2 2 2					188	76	1.885
(d) Unsound Teeth							182	32	2,445
(e) Eye Diseases			2	4		93	9		83 77
(g) Enlarged Cervical Glands	225	123			11	177	43		729
(h) Enlarged Thyroid Glands					2	30			110
(i) Malnutrition (j) Nervous Disorders				4			18	15	640 219
(k) Faulty Posture	78	41		4		27	11	1	162
(1) Orthopaedic Defects			2			6		2	51
(m) Ringworm (n) Impetigo			44.44	43	2	47	4		15 123
(o) Scabies	19	20		73		10	2		124
(p) Pediculosis			2				8		47
(q) Other Skin Conditions (r) Exclusions, Suspected Commun-	132			42	1	2	1	6	184
icable Disease		1	3	6		8	2		19
4. Correction of Defects	102					191	103		748
5. Classroom Talks 6. Sanitary Inspection of Schools	172					44 27	16 43	1	283 206
7. Consultations with Teachers	189				85	82	146	120	983
8. Consultations with Parents				49		180		1069	2,068
 School follow-up Home Visits Pre-school Children seen at School. 	123			19 248		80 278	24	59	423 1.092
Clinics:						210	****	1	1.052
1. Child Welfare Clinics Held	73	52	104	77	97	82	73	106	664
Attendance: (a) Infants	152	543	1096	149	541	390	427	978	4,276
(b) Pre-schools	583		1311		1346	607	295	519	5,967
2. Pre-natal Home Visits	28			4		19	9	an	344
3. Infant Welfare Visits 4. Pre-school Home Visits			50 54		68	62 96	18 14	3	169 353
5. Tuberculosis Clinics Held	- uni				00				16
Attendance			17			36	10.00	15	53
6. Tuberculosis Home Visits 7. Mental Hygiene Home Visits		234	9	2 25	2 11	14 32	7 25	3	59 161
Immunizations:						02		1111	101
 Total No. of Doses of the following (a) Diphtheria Toxoid (b) Diphtheria 	1540	1770	2072	1540	100	-	110	101	0.400
(b) Scarlet Fever Toxin	4110	619	2013	1546	428 625	216 72	449	434 1369	8,466 7,147
(c) Smallpox Vaccine	1088	749	360	532	127	419	164	363	3.602
(d) Whooping Cough Vaccine	79			12	98	6	39	210	604
(e) Typhoid Fever Vaccine (f) Whooping Cough Vaccine and		149	9			720		11	889
Diphtheria Toxoid			1470	1186	573	968	603		6,507
2. Mantoux Tests and Patch Tests 3. Schick Tests	5		-		20	47	20	216	310
4. Dick Tests	1 4	90	35		6 45	6	2	1 3	139 56
Measles Serum		19	12		2			43	76
Communicable Disease Control: 1. Visits to Cases, Contacts, Suspects	45	80	147	24	44	20	100	20	CIF
2. Cases Quarantined or Isolated	34	0.000	2	15	44	56 55	190 151	29 8	615 592
(a) Scarlet Fever	4	51	9	9	2		14	2	91
(b) Measles (c) Chickenpox	83		139	30	19	45	33	34	545
(d) Mumps	3		24 48	3		18	43 47	25 13	216 119
(e) Whooping Cough			6		10	5	16		37
(f) Rubella (g) Skin Conditions	9	2 25	32	125		2			170
(h) Other Conditions		17	9		1	3	$\frac{1}{3}$		30 31
3. Contacts Isolated	37				12	6	104	25	184
4. Throat Cultures Taken Health Education;	15	19				1	24		59
1. Interviews		105	1175	25	231	70	23		2.124
2. Lectures		20	13		5	6	5	6	79
		1003	526		170	147 1331	82	288	3.188
3. Literature Distributed (approx.)	972	1090				1001	130	1249	9,356
 Literature Distributed (approx.) Films Shown 	1380 5	1980 10	219 28	35 14	2	19	7	78	144
 Literature Distributed (approx.) Films Shown Newspaper Publicity 	1380 5						7	78	144 203
 Literature Distributed (approx.) Films Shown Newspaper Publicity School Health Papers Published 	1380 5 53	10 53	28 90	14 2	2 5	19	7		203 7
 Literature Distributed (approx.) Films Shown Newspaper Publicity School Health Papers Published Letters and Circulars Restaurant Inspections 	1380 5 53 845	10	28	14 2	2 5 367	19 658	7 76	132	203
 Literature Distributed (approx.) Films Shown Newspaper Publicity School Health Papers Published Letters and Circulars Restaurant Inspections Water Samples to Lab. 	1380 5 53 845	10 53 453	28 90 705 1 3	14 2	2 5 367	19	7		203 7 3.236 1 3
 Literature Distributed (approx.) Films Shown Newspaper Publicity School Health Papers Published Letters and Circulars Restaurant Inspections 	1380 5 53 845	10 53 453	28 90 705 1	14 2	2 5 367	19 658	7 76	132	203 7 3,236 1

Division of Social Hygiene

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

The venereal disease rate is constantly going down, and during the year there were actually 92 fewer cases of gonorrhoea and 60 fewer cases of syphilis than during the preceding year. This is not quite as great a decrease as was noted in 1948, but since we are now at an all-time low, the actual reduction in the number of cases from year to year will be smaller, and then, of course, one must remember that our population is increasing rapidly.

A travelling clinic was fully organized and ready for service in December, 1949.

The Lethbridge Clinic, which was closed in 1945, was re-opened as a fully modern, up-to-date, well-staffed and well-equipped clinic. It is intended to serve not only Lethbridge, but the entire southwest corner of the Province.

A research on results of Malaria Pyrexia Therapy in the treatment of Neuro-syphilis in this Province over a period of twenty-five years has been undertaken by Dr. Margaret McWilliam and should be completed before the end of 1950. This work is being carried out under a special research grant from the Dominion Government.

The work of the Division in other respects has been continued as before. The following statistical report indicates the work of the Division during the year:

ALLEGED SOURCES	OF VE	NEREAL	INFECTION	OR	CONTACTS
For the Period	January	1st, 194	9-December	31st	, 1949

Location of Source of Infection or Contact	Number of Sources of Infection or Contacts Reported	Number of Sources of Infection or Contacts Found and brought under Treatment	Percentage of Sources of Infection or Contacts Found and brought under Treatment
Edmonton Calgary Lethbridge Medicine Hat Slave Lake Area Rest of Province	504 303 32 8 80 444	425 266 27 5 72 397	84% 88% 84% 63% 90% 89%
Alberta Totals	1371	1192	86%
Sources of Infection or Contacts re- ported outside of the Province of Alberta	95	50	53%
	1466	1242	80%

DEPARTMENT OF PUBLIC HEALTH

Unit Forwarding Information	Number of Sources of Infection or Contacts Reported	Number of Sources of Infection or Contacts Found and brought under Treatment	Percentage Sources of Infection or Contacts Found and brought under Treatment
Armed Forces	107	80	75%
Private Doctors and Provincial Clinics Other Provinces	1292 67	1116 46	87% 69%
Totals	1466	1242	85%
Sources of Infection in Alberta who could	not be locat	ed by authori	ties con-

cerned 179

Sources of Infection outside of Alberta who could not be located by authorities concerned 45

DETAILS OF INFORMATION OBTAINED ON THE FACILITATION PROCESS

How Informant Met Source of Infection or Contact		
Pick-ups	456	31 %
Introduction	77	
Friend	87	6 % 6 %
Marital Partner or Common-		
law Wife	64	4 %
House of Prostitution	3	.2%
Appointment	35	
No data available	744	50 %

Where informant Met Source of Infection or Contact		
Boarding house or rooming		
house	31	2 %
Restaurant or beer parlour	244	16 %
Dance hall	121	8 %
Street or outdoors	183	13 %
Friend or private house	86	16 % 8 % 13 % 5 %
Hotel	68	5 %
Marital partner	132	9 %
Domostion on private nontre	90	6 %
Recreation or private party	90	0 70
Train, railway station, or bus	19	22.53
depot	6	.4%
House of prostitution	3	.2%
Taxi or taxi office	15	1 %
Service station, garage	2	102
At work	8	601
	100	0.00
No data available	911	33 %

DETAILS OF INFORMATION OBTAINED ON THE CONTACT INVESTIGATION

Occupation of Source of Infection or Contact

Place of Exposure		
Rooming house or apartment.	119	8 %
Private house	57	3 %
Outdoors	82	6 %
Car or truck	141	10 %
Train, boat, auto-camp	14	1 %
House of prostitution	3	.2%
Taxi	3	.2%
Hotel	193	13 %
Room, house or shack	346	24 %
No data available	508	35 %

Antection of Contact			
Waitress	172	12 %	
Housewife	-84	6 %	
Prostitute or street walker Domestic, hotel or hospital	51		
maid, porter	74	5 %	
Clerk, salesman, steno, teach- er, cashier	60	5 %	
Factory or plant worker	14	1 %	
Service personnel	6	.4%	
Unemployed	43	2 %	
Laundress or dry cleaners	21	2 % 1 %	
Truck or taxi driver	16	1 %	
Farmer, trapper, fisherman	23	2 %	
Student or nurse Dressmaker, hairdresser,	6	.4%	
barber	4	201	
Labourer or transient	70	5 %	
	7		
Business man, conductor		.5%	
Mechanic, electrician, plumber	6	.4%	
Trainman or railwayman	3	.2%	
No data available	806	55 %	

PROVINCIAL CLINIC, EDMONTON-Provincial Building, 10048 101A Avenue

Total number of	f new cases of	venereal disease	classified a	is to	sex and	age of	patient.
-----------------	----------------	------------------	--------------	-------	---------	--------	----------

-	der yr.	1- yr	-	5-1 yr:		15- yr	2020	20 y & o			not	
M.	F.	M.	F.	M.	F.	M.	F.	M	F	7.5	F	Totals
					1	20	39					589
			1									1
			****					7				7
							3	2	2			7
								10	14			24
								1				1
100								2	1			3
				1								1
-			-		-			-			-	-
			1	1	1	20	42	420	148			633
	M.		M. F. M.	M. F. M. F.	M. F. M. F. M.	M. F. M. F. M. F. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M. F. M. F. M. F. M. F. M.	M. F. M. F. M. F. M. F. 1 20 39 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Number of cases of syphilis—Male 23, female 21 44

Number of cases of gonorrhoea-Male 418, female 171

Number and results of Wassermann tests: 6,400, of which 896 were positive.

Number and results of Cerebrospinal Fluid tests: 72, of which 18 were positive.

Number and results of Bacteriological tests for gonococci: 4,228, of which 622 were positive.

Number and results of cultures: 1,706, of which 514 were positive.

PROVINCIAL CLINIC, CALGARY-711 3rd Street East, Calgary

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

	_	der yr.	1- yra	-	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)				****		2	6	35	246	139			428
Syphilis (congenital)													
Acquired—Primary									11				11
Acquired-Secondary										3			3
Acquired-Latent								1	6	6			13
Acquired—Tertiary													
(Cardiovascular)			-				100				ana.	61.00 ····	
Acquired-Tertiary													
(Neurosyphilis)													
Acquired-Tertiary (other)													
Type Undetermined									1				1
				-				-	-			-	
Totals						2	6	36	264	148			456
		-		-				-	-	-	-	-	

 Number of cases of syphilis—Male 17, female 11
 28

 Number of cases of gonorrhoea—Male 252, female 176
 428

 Number and results of Kahn and Wassermann tests: 3,618, of which 516 were positive.
 428

 Number and results of Cerebrospinal Fluid tests: 18, of which 8 were positive.
 Number and results of Bacteriological tests for gonococci: 3,325, of which 329 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 patient.

		-	-					-				
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
							2	6	2			10
1	1											2
											****	****
									1	****		1

1100			A									
			1000	4110					****	-		

-		-	-							-		
1	1						2	6	3			13
			-			-					-	-
	1: M. 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 yr. yr. M. F. M. 1 1	1 yr. yrs. M. F. M. F. 1 1	1 yr. yrs. yr M. F. M. F. M. 1 1	1 yr. yrs. yrs. M. F. M. F. M. F. 1 1 1	1 yr. yrs. yrs. yr M. F. M. F. M. F. M. 1 1	1 yr. yrs. yrs. yrs. yrs. M. F. M. F. M. F. M. F. M. F. 1 1	1 yr. yrs. yrs. yrs. yrs. & 60 M. F. M. F. M. F. M. F. M. F. M. F. M. I. 1 1	1 yr. yrs. yrs. yrs. wrs. & over M. F. M. F. M. F. M. F. M. F. M. F. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 yr. yrs. yrs. yrs. & over stated M. F. M. F. M. F. M. F. M. F. M. F. 1 1

 Number of cases of syphilis—Male 1, female 2
 3

 Number of cases of gonorrhoea—Male 6, female 4
 10

 Number and results of Kahn and Wassermann tests: 110. of which 40 were positive.
 10

 Number and results of Cerebrospinal Fluid tests: 4, of which 1 was positive.
 10

 Number and results of Bacteriological tests for gonococci: 19, of which 5 were positive.

DEPARTMENT OF PUBLIC HEALTH

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- yr		15- yr		20 y & or			not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)									4			****	4
Syphilis (congenital)													
Acquired—Primary									1				1
Acquired—Secondary									1				1
Acquired—Latent				44.75					3				3
Acquired—Tertiary					****				****				
(Cardiovascular)													
Acquired—Tertiary					****						****	****	
(Neurosyphilis)													
cquired—Tertiary (other)			****										
Type Undetermined			****	41.11					3				3
	-	-		-	-	-	-	-				-	
Totals									12				12
		-			-		-					-	
Number of cases of syphilis													8
sumber of cases of gonorrh		-Mal	e 4										4
Number of prisoners examin	ned												1,35

Number and results of Kahn and Wassermann tests: 1,331, of which 153 were positive.

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 & ov		Age	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	. M.	F.	Totals
Gonorrhoea (all forms)				-				12	12	35			59
Syphilis (congenital)					4004							min	****
Acquired-Primary		in the second							1				1
Acquired-Secondary								1	1	2	****		4
Acquired-Latent							1	1	6	2			10
Acquired—Tertiary												****	
(Cardiovascular)													
Acquired—Tertiary													
(Neurosyphilis)													
Acquired—Tertiary (other)	in												
Type Undetermined									1				1
	-		-	-	-	-	-	-				-	
Totals							1	14	21	39			75
							-		-		-		-

 Number of cases of syphilis—Male 10, female 6
 16

 Number of cases of gonorrhoea—Male 12, female 47
 59

 Number and results of Kahn and Wassermann tests: 1,830, of which 221 were positive.

Number and results of Cerebrospinal Fluid tests: 16, of which 1 was positive. Number and results of Bacteriological tests for gonococci: 3,889, of which 129 were

positive.

McLENNAN CLINIC-McLennan, Alberta

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 & ov		Age	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)							2	3	16	2			23
Syphilis (congenital)							****						
Acquired-Primary													
Acquired-Secondary												1	1
Acquired—Latent Acquired—Tertiary	****												
(Čardiovascular) Acquired—Tertiary		****	••••	****	****								
(Neurosyphilis)													
Acquired—Tertiary (other)		****											
Type Undetermined	-			area .			****						
	-	-			-	-		-					
Totals							2	3	16	2		1	24
			-		-		-	-				-	

 Number of cases of syphilis—Male 0, female 1
 1

 Number of cases of gonorrhoea—Male 18, female 5
 23

 Number and results of Kahn and Wassermann tests: 296, of which 10 were positive.
 23

 Number and results of Cerebrospinal Fluid tests: None.
 1

Number and results of Bacteriological tests for gonococci: 75. of which 40 were positive.

PRIVATE PHYSICIANS REPORTING CASES

		der yr.	1- yr:	-	5-1 yr		15- yr		20 y & o			not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Μ.	F.	Total
Gonorrhoea (all forms)	1	2	1	1	1	4	33	46	350	117	45	30	631
yphilis (congenital)	3		1	4	2	2				1	1	1	15
cquired-Primary							2	6	28	8	5	3	52
cquired-Secondary									4	8	2	1	15
cquired-Latent							1	2	17	24	6	7	57
cquired—Tertiary							*		0	1	2		
(Cardiovascular)									3	+	-		
cquired—Tertiary									10	3			
									13	3	1	1	18
(Neurosyphilis)			*****							~			
cquired—Tertiary (other)				****		bank .			2	2	****		
Type Undetermined			3111					2	4	8	3	3	20
	-	-					-	-		-			
Totals	4	2	2	5	3	6	36	56	421	172	65	46	818
			-	-				_			_		2000

 Number of doctors in the Province receiving consultative service
 275

 Number of doses of Arsenicals distributed to private physicians
 3.703

 Number of doses of Bismuth distributed to private physicians
 8,620

Number of units of Penicillin distributed to private physicians: 633 (3,000,000 units) Procaine-G in oil; 542 cartridges Procaine-G in oil (300,000); 306 bottles (200,000) aqueous Penicillin.

NEW CASES OF SYPHILIS AND GONORRHOEA REPORTED IN ALBERTA, 1949

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

		der yr.	1- yr:	-	5-1 yr			-19 rs.	20 y & o			not	
	M.	F.	Μ.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms) Syhpilis (congenital)	1 4	2 1	1	$\frac{1}{5}$	1 2	72	73	137	1086	426 1	46 1		1811 18
Acquired—Primary							2	6	48	8	5	3	72
Acquired—Secondary								4	8	15	2 6	2	31
Acquired-Latent							2	4	42	47	6	7	108
Acquired—Tertiary									4	1	2		7
(Cardiovascular) Acquired—Tertiary (Neurosyphilis)				****					15	4	1	1	21
Acquired—Tertiary (other)	****	****		****					9	2			4
Type Undetermined		****	****	****	1				9	8	3	3	26
Type Ondetermined					-	1999	1000				_	-	
Totals	5	3	2	. 6	4	9	77	153	1214	512	66	47	2098
			-			-		-				-	
Total number of cases of syp	hilis	-M:	ale 16	50, f	emale	12	7						287
Total number of cases of go													1811

2098

RECAPITULATION

NEW PATIENTS ADMITTED TO THE VARIOUS CLINICS OF THE DIVISION OF SOCIAL HYGIENE IN 1949

Sex	Syphilis	Gonorrhoea	Totals
Males Females	59 41	710 403	769 444
Totals	100	1113	1213
CASES REPORTED BY DOCTORS Syphilis Gonorrhoea		RY AUTHORITIES lians Armed Forces 67	Totals 187 698
Totals	818	67	885
Total number of cases of syphilis reported in Total number of cases of gonorrhoea reported	a Alberta d in Alberta		287
Total number of cases of syphilis reported i			287
Total number of new cases of gonorrhoea re armed personnel	eported in Al	berta exclusive of	

Report of the Provincial Laboratory

R. M. SHAW, Director

The varied activities of the laboratory, I think, are rather clearly depicted in the appended tables. The demands on the laboratory were quite similar to those of previous years, but it will be noted there was a moderate increase of total numbers of specimens examined—173,506 as compared to 161,103 in 1948; thus registering an increase of 12,403 (7.7%) for the year. A reference to Table 1 will show that increases were quite evenly distributed among the majority of tests offered—only in the serological tests for syphilis is a remarkably large increase noted. Tests respecting the sensitivity of bacteria to the various antibiotics in current use were more frequently requested. While the numbers of these tests are still small, yet they are more than double those of previous years.

During the years 1948-49, the laboratory in common with other provincial laboratories submitted to a survey in relation to serological tests for syphilis. Some 200 bloods were distributed from Ottawa, and the results of each laboratory compared with those of the control, viz., the Laboratory of Hygiene, The Department of National Health and Welfare, Ottawa. Our laboratory made a very creditable showing in that on standard tests of sera from syphilitic patients under treatment—the result was within 3% of that of the control, while for negative specimens the corresponding figure did not exceed 0.5%.

Two technicians were granted leave for special training in their particular spheres of work.

Miss Jessie Cowles, employed on tissue pathology, received instruction and gained experience in special tissue sectioning and staining at the Banting Institute in Toronto and the University of Montreal in Montreal.

Miss Ethel Shelene, with funds provided from the Dominion Health Grants, was given refresher training of three weeks duration, in serology at the Laboratory of Hygiene, Ottawa, and visited the public health laboratories of Quebec and Ontario, situated respectively in Montreal and Toronto, for purposes of observing the serological techniques of these large laboratories in routine operation.

The Southern Branch, mentioned in last year's report as under construction on the grounds of the Central Alberta Sanatorium, was completed and ready for occupation in December, 1949. Doors were opened for service to the public on January 3rd, 1950. This branch is undertaking for the south of the Province work almost identical in scope with that done in Edmonton.

Dr. Dennis Shute, who arrived from England during the year, was appointed Director. At the opening he was supported by a staff of ten persons whose special training had been received in the main laboratory in Edmonton. At the close of 1949 construction of the Alberta Public Health Institute was well advanced. When completed it will house the Provincial Laboratory.

Mr. Gordon Myers, M.Sc., was granted two years' leave of absence for purposes of pursuing post-graduate studies in bacteriology at McGill University.

Mr. A. B. Lamb, B.Sc., accepted appointment as Assistant Professor in the Department of Bacteriology and Assistant Bacteriologist in the Provincial Laboratory, and reported for duty September 1st.

It is felt that at this time it might serve a useful purpose to introduce a table showing the growth of work during the years the Provincial Laboratory of Public Health has been housed in the East Wing of the Medical Building, viz., 1921-1949. Removal to the new quarters in the Alberta Institute of Health, it is expected, will take place late in the summer of 1950.

The Table No. 14 shows the numbers and kinds of specimens examined every fourth year beginning with the year 1922.

		E .	

WORK PERFORMED IN THE PROVINCIAL LABORATORY DURING THE YEAR 1949

	Total, 1948	Total, 1949	Increase	Decrease
Sputum Examinations	768	973	205	
Diphtheria and Haemolytic Streptococci	3.713	4.704	991	
Typhoid Fever (Agglutination test)	1.698	2.118	420	
Milk	1.278	1.125	1.0	153
Water	4.608	5,190	582	100
Guinea Pig Inoculations	1.886	1.716	17 C 2	170
Miscellaneous Bacteriology	6.805	7.057	252	
Blood Cultures	764	780	16	
Enterobacteria and Intestinal Parasites	1.362	1.079		283
Urinalysis	10	16	6	
Medico-Legal Examinations (Blood, seminal,				****
etc.)	5	7	2	
Cerebro-Spinal Fluids for the Wassermann				****
Test	2.958	3.043	85	
Bloods for Quantitative Kahn test	2.815	2,845	30	
Bloods for the Wassermann Test	10.322	11.286	964	
Bloods for the Standard Kahn Test	9,992	10,903	911	
Bloods for the Presumptive Kahn Test	74,635	85,230	10,595	
Smears for the Gonococcus	14.202	12,701	10,000	1.501
Cultures for Gonococcus	2.897	1.788		1.109
Van Den Bergh Determinations	189	106		83
Pathological Histological Material	11.089	11,240	251	00
Blood Smear Examinations	230	159		71
Post-mortem Examinations (Edmonton)	367	321		46
Post-mortem reports (outside points)		137	137	
Ascheim-Zondek Tests	472	737	265	
Comparative Series	8	13	5	
Fluids for Cancer Cells	116	177	61	
Cancer Cytology	110	36	36	
Bone Marrows	56	40	00	16
Cerebro-Spinal Fluid Examinations (Colloidal	00			20
Gold, Pandy)	3.233	3.426	193	
Bacteriological Examinations (P.M.)	159	67		92
B. abortus Examinations (Agglutination test)	1.719	2.118	399	
P. tularensis (Agglutination test)	1.698	2,118	420	
B. melitensis (Agglutination Test)	3	2,110	120	3
Cattle Blood (Bang's Disease Agglutination				
test)	1.046	150		896
Total	161,101	173,506	16,826	4,423

TABLE 2

DETAIL OF EXAMINATIONS OF MILK PERFORMED THROUGHOUT	THE YEAR	1949
	1948	1949
Number of milks examined bacteriologically	1,278	1,125
Number of milks examined for butterfat	135	155
Number of milks examined for B. coli	384	179
Number of milks tested by the Phosphatase Test	52	77
Number of ice creams examined	59	40
Number of rinse waters examined bacteriologically	32	20

DEPARTMENT OF PUBLIC HEALTH

TABLE 3

DETAILS OF THE BACTERIOLOGICAL AND CHEMICAL EXAMINATIONS OF WATER PERFORMED THROUGHOUT THE YEAR 1949

	1948	1949
Number of samples of water examined bacteriologically and found fit for human consumption Number of samples of water examined bacteriologically and found	2,455	2,541
unfit for human consumption	758	853
Number of samples of water examined bacteriologically and chemi- cally and found fit for human consumption	256	386
Number of samples of water examined bacteriologically and chemi- cally and found unfit for human consumption	262	294
Number of samples of water examined chemically and found fit for human consumption	575	867
Number of samples of water examined chemically and found unfit for human consumption	274	261
Number of samples of ice examined bacteriologically and found fit for human consumption	24	18
Number of samples of ice examined bacteriologically and found unfit for human consumption	4	

TABLE 4

DETAIL OF SOME OF THE WORK DONE BY THE LABORATORY IN RELATION TO THE CONTROL OF TUBERCULOSIS

Examined by

smear, animal

Specimen	and culture	Positive	% Positive	Negative	% Negative
Sputum and Gastric Washings	449	64	14.2	385	85.8
Urine	478	69	12.3	409	87.7
Pleural Fluids	135	34	25.2	101	74.8
C.S.F.	120	23	19.2	97	80.8
Joint Fluids	52	3	5.5	49	94.5
Abdominal Fluids	9	1	11.0	8	89.0
*Miscellaneous Specimens	107	25	23.4	82	76.6
Total	1,350	219		1.131	
Sputums examined by smear only	973	62	7.4	909	92.4
Grand Total	2.323	281		2 040	

*Miscellaneous specimens include swabs and pus of unspecified or unique origin. stools, milks, etc.

TABLE 5

TESTS MADE IN RESPECT TO THE USE OF ANTIBIOTICS, PENICILLIN, STREPTOMYCIN AND AUREOMYCIN

Determination Penicillin sensitivity of a variety of organisms isolated from cases of infection . Penicillin Blood Level 48 Penicillin Blood Level Streptomycin sensitivity of Mycobacterium tuberculosis isolated from cases . Streptomycin sensitivity of other bacteria Streptomycin Blood Level Streptomycin Urine Level 5 64 19 158

Aureomycin sensitivities

TABLE 6

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

Stool and urine cultures Blood cultures	1,079 2.156
Bloods examined by agglutination test for typhoid and related fevers, undulant fever and tularaemia	2.120

	Details	of Results				
Source	Salmonella Typhi	S. para- typhi B.	Other Salmonella	Shigella	Negative	Total
Stool cultures	43	14	37	32	823	949
Urine cultures	19		1		110	130
Blood cultures	9					2,156
Duodenal drainage	1				3	4
Osteomyelitis	1		1.0			2
Total isolations	73	14	39	32	936	3.241
Number of cases	17	11	30	25		
Number of carriers	2	2			1	
and an and the first of the second						

*S. paratyphi C. from osteomyelitis. †Case first identified in end of 1948. Still ill in 1949.

Details of Salmonella Cases and Carriers

		enses and entitles	
S. typhi-murium S. newport	6	S. oranienburg S. paratyphi C.	1 1
S. senftenberg S. barielly S. thompson	1	'Total cases	

No. Done

Cultures received from Animal Sources Supplied by Dr. E. E. Ballantyne, Provincial Veterinarian

······································

hangenne second	
nnei exneri	28 4
	-
Total	32

TABLE 6A

INTESTINAL PARASITES

Number of specimens examined and found negative for parasites-156.

Showing Ova: Trichuris trichiura Enterobius vermicularis Ascaris lumbricoides Hookworm Worms or portions of Worms: Ascaris lumbricoides Taenia saginata Enterobius vermicularis	$ \begin{array}{c} 11 \\ 5 \\ 26 \\ -24 \\ 7 \\ 1 \\ -9 \\ \end{array} $	Showing Cysts and Protozoa; Entamoeba coli Entamoeba histolytica Endolimax nana Chilomastix mesnili Giardia lamblia Iodamoeba butschlii	$26 \\ 11 \\ 3 \\ 1 \\ 4 \\ 1 \\ 46$
Total	235		

TABLE 7

BLOOD AND CEREBRO-SPINAL FLUID EXAMINATIONS BY SEROLOGICAL TESTS FOR THE DIAGNOSIS OF SYPHILIS DURING THE YEAR 1949

Bloods Examined—Presumptive Kahn	85,230
Standard Kahn	10,903
Quantitative Kahn	2,845
Wassermann (Kolmer)	11,286
Cerebro-spinal fluids examined by Wassermann (Kolmer) Test	3.043
Bloods and cerebro-spinal fluids unsultable for examination (N.S.Q., A.C., Haem, Accidentally broken)	2.323
Bloods broken and leaked in transit	294
Bloods and cerebro-spinal fluids "Positive" to reaction	2.750
Bloods and cerebro-spinal fluids Positive to reaction	83,563
Bloods and cerebro-spinal fluids "Negative" to reaction	846
Bloods and cerebro-spinal fluids giving "Doubtful Please Repeat" reaction	1.651
Bloods giving "Please Repeat" reaction	1,031
Bloods giving "Report as is"	
Bloods giving "N.S.Q. Please Repeat"	341
Number of bloods and cerebro-spinal fluids examined in 1948	77.593
Number of bloods and cerebro-spinal fluids examined in 1949	89,173
Increase in number of specimens examined	11,580
Increase in per cent	14.92%
and the part of the second sec	

TABLE 8

BLOOD AND CEREBRO-SPINAL FLUID EXAMINATIONS BY SEROLOGICAL TESTS FOR THE DIAGNOSIS OF SYPHILIS, BY THE MONTH, DURING THE YEAR 1949

	Presumptive Kahn Test	Standard Kahn Test	Quantitative Kahn Test	Blood Wasserm'n	C.S.F. Wasserm'n	(N.S.Q., A.C., Haem.)
Innunru	6,123	862	206	885	250	269
January February	5 954	926	226	948	217	250
Monah	7 190	993	326	1.042	298	114
Amail	7 147	1,195	274	1,235	262	102
3.F	7 204	987	247	1,023	254	117
Trans	130.9	879	265	924	255	143
Tesles	7 177	766	210	775	234	172
August	7 520	1.010	261	1,045	281	190
September	7.048	903	254	927	266	154
October	7 490	689	213	712	229	128
November	7 909	877	184	924	262	177
December	6 1 3 1	816	179	846	235	507
Totals	85,230	10,903	2,845	11,286	3,043	2,323

DEPARTMENT OF PUBLIC HEALTH

TABLE 9

PREMARITAL BLOODS SUBMITTED FOR SEROLOGICAL TESTS FOR SYPHILIS DURING THE YEAR 1949

	Negative	l Positive	Doubtful Please Repeat	Please Repeat	N.S.Q. Please Repeat	Report as is	Unsuit- able	Total
January	669	2	2	4	1		39	717
February	582	1		8	1		50	642
March	762	9	1	4	1		8	785
April	1.022	2	2	11	1	1	22	1.061
May	1,170	11	2	9	1		23	1.216
June	1,803	6	1	9	1		24	1.844
July	1,564	3	3	12			20	1,602
August	1,442	3		6	4		15	1,470
September	1,413	4	1	5	3		13	1,439
October	1,835			11	2	1	22	1,871
November	1.649	5	1	7	2		28	1,692
December	1,126	8	5	9	1		151	1,300
			-	-				15 000
Total	15,037	54	18	95	18	2	415	15,639

TABLE 10

SEROLOGICAL TESTS FOR SYPHILIS DONE FOR THE MILITARY AUTHORITIES DURING THE YEAR 1949

L'OTHING THIS	A SALARS AUXO			
Wassermanns: Bloods	Airforce 36	Army 7	Navy	Total 43
C.S.F. Kahns:	3	7		10
Presumptive	1,551	58		1,609
Quantitative	36	8		44
Quantitative				-
Total	1.630	84		1,714

TABLE 11

SERA AND VACCINE DISTRIBUTED DURING THE YEAR 1949

	Total 1948	Total 1949
Smallpox Vaccine:	2.022	3.474
1 point	4,402	6.497
10 points	4,404	0,401
Diphtheria Antitoxin, in syringe:	453	838
1,000 units	455	143
5,000 units	295	468
10.000 units	200	53
Diphtheria Toxoid: 1 person	3.712	7.545
3 c.c.	287	1.331
6 c.c.	640	1,951
Diphtheria Toxoid and Pertussis (combined)		
Old: 1 person (3x2 c.c. ampoules)	6,128	149
6 persons (6x6 c.c. ampoules)	1.193	145
Diphtheria Toxoid and Pertussis (combined)	1.100	
New:		
1 person (4x1 c.c. ampoules)	4.394	14.189
9 persons (6x6 c.c. ampoules)	1.008	4.021
Schick Test: 25 persons	487	812
	404	OIL
Scarlet Fever Antitoxin: 3.000 units (syringe)	98	467
9,000 units (syringe)	152	157
9,000 units (syringe)	144	242
Scarlet Fever Toxin:		212
Strength "A"—30 doses (large)	106	57
Strength "B"-30 doses (large)	271	180
Strength "C"-30 doses (large)	110	80
Strength "D"-30 doses (large)	131	107
Strength "E"-30 doses (large)	183	188
1 person	2,807	2,704
6 persons	1,605	1,691
3 c.c. (Tannic Acid Precipitated)	400	
Dick Test: 10 persons	663	547
Tetanus Toxoid: 1 person	185	150
Tetanus Antitoxin:		
1.500 units	663	878
5,000 units	11	18
10,000 units	13	141
Pertussis Vaccine, old:		
1 person (3x2 c.c. ampoules)	1,997	152
6 persons (6x6 c.c. ampoules)	331	43

TABLE 11-Continued

	Total 1948	Total 1949
Pertussis Vaccine, new: 1 person (4x1 c.c. ampoules) 9 persons (6x6 c.c. ampoules)	1,975 331	2,874 278
Staphylococcus Toxoid: 2 c.c. vial	213	245
Staphylococcus Antitoxin: 10.000 units 20.000 units	5	6 1
Gas Gangrene Antitoxin: 4,000 units 10,000 units	163 86	232 105
Typhoid-Paratyphoid Vaccine: 1 person 10 c.c.	585 1,208	723 832
Anti-Measles Serum: 5 c.c.	1,171	3,876
Immune Serum Globulin:		
2 c.c. 10 c.c.		100 25
Diluted Diphtheria Toxoid:		20
1 person	8	136
21/2 c.c. (Reactors)	1	1
Anti-H. Influenza Serum: Type B (Serum-		
Rabbit)	3	2
T.A.B.T. Vaccine: 3 c.c.	58	558
Rocky Mountain Spotted Fever Vaccine:	0.00	
1 c.c	878	12
Other Vaccines:		12
Autogenous Vaccine, 25 c.c. bottle	40	24
Stock Vaccine, 25 c.c. bottle	3	

TABLE 12

AMOUNT OF AUTOGENOUS AND OTHER VACCINE PREPARED AND DISTRIBUTED DURING THE YEAR 1949

	Total, 1948	Total, 1949	Increase	Decrease
Autogenous Vaccine (25 c.c. quantity)		24		16
Stock Vaccine (25 c.c. quantity)	3			3

TABLE 13

COMMERCIAL VALUE OF WORK IF M	INIMUM	CHARGE WERE	MADE, 1949
Sputum Examinations	973	\$ 1.00	\$ 973.00
Diphtheria and Haemolytic Streptococci	4.704	1.00	4.704.00
Typhoid Fever (Agglutination tests)	2.118	1.00	2.118.00
Milk	1.125	3.00	3,375.00
Water	5.190	10.00	51,900.00
Guinea pig inoculations	1.716	3.00	5,148.00
Miscellaneous Bacteriology	7.057	3.00	21,171.00
Blood cultures	780	3.00	2,340.00
Enterobacteria and Intestinal Parasites	1.079	3.00	3.237.00
Urinalysis	16	1.00	16.00
Medico-Legal (Blood, seminal, etc.)	7	5.00	35.00
Cerebro-Spinal Fluids for Wassermann Test	3.043	1.00	3.043.00
Bloods for the Quantitative Kahn Test	2.845		
Bloods for Wassermann Test	11.286	1.00	11,286.00
Bloods for Standard Kahn Test	10,903	1.00	10,903.00
Bloods for Presumptive Kahn Test	85,230	1.00	85,230.00
Smears for the Gonococcus	12,701	1.00	12,701.00
Cultures for Gonococcus	1.788	1.00	
Van Den Bergh Determination	1,788	1.00	1.788.00 106.00
Pathological Histological material	11,340	5.00	
Blood Smear Examinations	11,340	2.00	56,700.00
Ascheim-Zondek Tests			318.00
Comparative Series	737	5.00	3,685.00
Comparative Series	13	3.00	39.00
Fluids for Cancer Cells	177	5.00	885.00
Bone Marrows	40	5.00	200.00
Cancer Cytology	36	2.00	72.00
Cerebro-Spinal Fluid Examinations (Colloidal	0.100	0.00	
Gold, Pandy)	3,426	2.00	6,852.00
Bacteriological Examinations (P.M.)	67	5.00	335.00
Agglutination Test:			
B. abortus Examinations	2,118	.50	1.059.00
B. tularensis Examinations	2,118	.50	1.059.00
B. melitensis		.50	
Cattle Blood (Bang's Disease Agglutination			
Test)	150	.10	15.00
Autogenous Vaccine	24	5.00	120.00
Stock Vaccine		3.50	
m-t-1			
Total			\$291,413.00

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	1949 4.704 973 4.704 8.106 8.118 2.118 2.118 2.118 2.118 2.118 2.118 2.118 2.118 3.425 1.12866 1.1286 1.1286 1.128
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	1934 677 722 2.590 2.590 2.4016 1.4016 2.64 1.36 1.21 1.321 3.441 3.441 3.441 3.441 3.441 3.503 3.441 3.503 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 1.320 20,316 2
14	1930 714 2.525 1.365 1.365 1.365 1.365 1.365 1.322 512 512 1.322 6.168 6.168 6.168 6.168 6.168 6.168 6.168 112 112 112 112 112 112 112 112 112 11
TABLE	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
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	Sputum for T.B. Diphtheria and Haemolytic Streptococci Miscellaneous Bacteriology Milks Vaters (Bacteriology) Typhoid and Paratyphoid Agglutinations Fularemia Agglutinations Fularemia Agglutinations Fularemia Agglutinations Mothers' Milk Urialysis Medico-Legal Miscellaneous Medico-Legal Miscellaneous Van den Bergh Leterus Index C.S.F. Colloidal Gold and Pandy Post-mortem Bacteriology Accheim Zondek C.S.F. Vassermann Blood Wassermann Blood Wassermann Presumptive Kahn, Blood Standard Kahn, Blood Stander (c.c.) Polio Serum (bottles) Conteen Bloods Conteen Bloods Conteen Bloods Conteen Bloods Cottle Bloods

*Chicken bloods done by special staff employed for the purpose and paid for by charges for the te

DEPARTMENT OF PUBLIC HEALTH

Report of Routine Mycology carried out at the Provincial Laboratory during the year 1949.

The tissues and exudates of 309 patients were examined for the presence of fungi, and in 89 of them pathogenic fungi were demonstrated.

E. SILVER KEEPING, Mycologist.

Sanitary Engineering Division

D. R. STANLEY, B.Sc., S.M. (C.E.), Director

The extraordinary prosperity that prevailed in Alberta during 1949 created an unprecedented amount of work for the Division of Sanitary Engineering. Since 1946, the picture has completely changed in that there has been a tremendous increase in all phases of the work carried out by the Division. The rate of building has made it very difficult for communities to give the needed water and sewer service or for plumbers to keep pace with the need for proper plumbing facilities. The increased interest of the public in restaurant, milk and general sanitation has greatly increased the work in these lines.

Mr. J. Butterfield, C.S.I. (C), Chief Sanitary Inspector with the Division, retired in September, 1949, after thirty years of service. Mr. Butterfield was the oldest employee from point of service in the employ of the Department, and his loss to the Division will be greatly felt.

Mr. W. A. Milligan, licensed plumber and C.S.I. (C), was promoted to the position of Chief Plumbing Inspector, and Mr. L. E. Stewart, C.S.I. (C), was promoted to the position of Chief Sanitary Inspector. Mr. G. L. Watson, licensed plumber, was appointed as a plumbing inspector with headquarters in Lethbridge.

Under the Dominion Government Health Grant Project for Sanitary Inspectors, the staff was increased as follows: Mr. J. E. Hoskins, C.S.I. (C), was employed in July, 1949, with headquarters in Edmonton. Mr. S. Johnsen, C.S.I. (C), was employed in September, 1949, with headquarters in Calgary. Mr. H. Dean, Cert. S.I.B., A.R.San.I., and Mr. E. Tyler, Cert. S.I.B., A.R.San.I., emigrated from England during the latter part of 1949, and were employed with headquarters at Lethbridge and Vermilion respectively. This decentralization of inspection staff has greatly increased the operating efficiency of the Division, principally by reducing the amount of travelling and having enough staff to carry out a small amount of control work in areas outside of cities and full-time health units.

The general administration of most Public Health Regulations throughout the Province is indirectly the responsibility of the Division of Sanitary Engineering. The direct responsibility for enforcing these regulations is that of the local boards of health of cities, towns, villages, municipal districts and health units. In the health units and cities having full-time qualified sanitary inspectors, the enforcement of regulations is quite satisfactory. However, in areas where full-time qualified inspectors were not carrying out routine inspections, local boards of health found considerable difficulty in coping with their sanitary problems. With the additions to the sanitary inspection staff, it has been possible to give these local boards of health considerable guidance and help especially with restaurant sanitation.

In order to maintain adequate control over restaurants, milk supplies and other phases of sanitation, it would be necessary to

employ more inspectors. The conditions, however, have been greatly improved since the employment of the new men. The work mentioned above is in addition to the established practice of investigating and dealing with all complaints and inquiries. Since placing men in the field, there has been a big increase in the number of these inquiries because the public has become aware that help was available for advice on their sanitation problems.

The year 1949 was the third year in which routine inspection of tourist camps was carried out. This programme has proven to be very valuable in that the sanitation in tourist camps has markedly improved along with the standard of accommodation. Many favourable comments have been received from the travelling public and organizations connected with the tourist trade in regard to the administration of the tourist camp regulations.

The proper sanitary control of restaurants and milk supplies especially in areas not covered by full-time inspectors, continued to be a major problem. With the employment of additional inspectors, indications are that much of the trouble will be overcome. Close co-operation was maintained with the Dairy Branch of the Department of Agriculture, and the Division was always kept informed of conditions in dairy plants they inspected. The Village of Calmar passed a compulsory pasteurization bylaw under the authority of Section 7 (a) of The Public Health Act, and one new pasteurizing plant was installed in the Province.

During the year, 101 complaints and requests for inspection were attended to. Some of these included requests for inspection of complete towns and villages including restaurants, milk supplies and general sanitation. Despite the fact that additional inspectors joined the staff late in the year, a total of 357 inspections were made on restaurants, milk producers and tourist camps.

During the year, copies of reports of 2,739 bacteriological analyses, 1,140 chemical analyses of water and 30 bacteriological analyses of ice were forwarded to the Division. In cases where contamination was indicated, the persons were advised as to procedures to follow, where possible, in order to restore the quality of the water to a safe condition and how to protect their supply from further contamination. Where practical, this advice given by letter was followed up by a visit from one of the sanitary inspectors.

In response to requests received by the Department of Education and different school boards, a number of rural schools were inspected. Conditions were found that revealed a great need for routine inspection of schools for the purpose of aiding school boards to improve sanitary conditions. If more inspectors were employed, the Division would be able to carry out considerably more work in this field.

Final certificates of approval covering the establishment of six cemeteries were issued during the year.

The activity in the waterworks and sewerage fields was greater than any previous year. The Towns of Didsbury, Nanton, Strathmore and Wainwright, and the Villages of Legal and Trochu commenced water and sewer systems. Besides these, many other communities extended and renovated existing systems. The tremendous increase in the number of small community systems has greatly increased the problems of operation. The small town water and sewer system should have a considerable amount of professional supervision in its operation. However, in most cases the systems are too small to justify the employment of a qualified sanitary engineer on a full-time basis, and therefore outside supervision is a very important factor both from a public health and economic point of view. Such supervision should be given by the Division of Sanitary Engineering, but before this service could be rendered it would be necessary to employ more qualified engineers.

The following certificates were issued by the Provincial Board of Health covering waterworks, sewerage and hospital construction:

- Town of Edson, Provisional Certificate No. 610-49. Proposed Sewerage System. Estimated cost, \$139,000.00.
- Town of Edson, Provisional Certificate No. 611-49. Proposed Water Main Extensions and Well Construction. Estimated cost, \$36,000.00.
- Devon Estates Ltd. (Hamlet of Devon), Final Certificate No. 612-49. Proposed Water Works System.
- Devon Estates Ltd. (Hamlet of Devon), Final Certificate No. 613-49. Proposed Sewerage System.
- Town of High River, Final Certificate No. 614-49. Proposed Sewer Extensions. Estimated cost, \$12,750.00.
- Town of Didsbury, Provisional Certificate No. 615-49. Proposed Sewerage System and Water Works. Estimated cost, \$166,000.00.
- Town of Didsbury, Final Certificate No. 616-49. Proposed Sewerage System and Water Works. Estimated cost, \$166,000.00.
- Town of Nanton, Provisional Certificate No. 617-49. Proposed Sewerage Works. Estimated cost, \$48,554.00.
- Town of High River, Final Certificate No. 618-49. Proposed Extensions. Estimated cost, \$40,000.00.
- 10. Certificate No. 619-49 cancelled.
- Town of Strathmore, Provisional Certificate No. 620-49. Proposed Sewerage System. Estimated cast, \$47,000.00. Supersedes Certificate No. 581-47.
- City of Lethbridge, Final Certificate No. 621-49. Proposed Sanitary Sewer including Sewage Pumping Station. Estimated cost, \$67,508.00.
- City of Lethbridge, Final Certificate No. 622-49. Proposed Sanitary Sewer. Estimated cost, \$51,117.00.
- City of Edmonton, Final Certificate No. 623-49. Proposed Watermains. Estimated cost, \$398,330.71.
- City of Calgary, Final Certificate No. 624-49. Proposed Sewers. Estimated cost, \$53,700.00.
- City of Calgary, Final Certificate No. 625-49. Proposed Sewer and Sewer and Water Connections. Estimated cost, \$110,718.73.
- City of Calgary, Final Certificate No. 626-49. Proposed Sewers. Estimated cost, \$13,504.82.
- City of Calgary, Final Certificate No. 627-49. Proposed Sewers. Estimated cost, \$24,769.65.
- City of Calgary, Final Certificate No. 628-49. Proposed Sewers. Estimated cost, \$5,350.03.
- Town of Strathmore, Final Certificate No. 629-49. Proposed Sewerage System. Estimated cost, \$47,000.00.
- Town of Innisfail, Final Certificate No. 630-49. Proposed Water and Sewer Extensions. Estimated cost, \$3,000.00.
- City of Calgary, Final Certificate No. 631-49. Proposed Water and Sewer Connections. Estimated cost, \$125,000.00.
- City of Lethbridge, Final Certificate No. 632-49. Proposed Storm Sewer Extensions. Estimated cost, \$31,083.00.
- City of Lethbridge, Final Certificate No. 633-49. Proposed Water Main Extensions and Renewals. Estimated cost, \$100,000.00.
- Glendon Municipal Hospital District, Final Certificate No. 634-49. Proposed Municipal Hospital. Estimated cost, \$58,000.00.

- Village of Trochu, Final Certificate No. 635-49. Proposed Water Works System. Estimated cost, \$35,000.00.
- Grande Prairie Municipal Hospital District, Final Certificate No. 636-49. Proposed Municipal Hospital. Estimated cost, \$125,000.00.
- Village of Trochu, Final Certificate No. 637-49. Proposed sewerage Works. Estimated cost, \$42,000.00.
- City of Calgary, Final Certificate No. 638-49. Proposed Sewer Construction. Estimated cost, \$81,000.00.
- Town of Vegreville, Final Certificate No. 639-49. Proposed Storm Sewer Construction. Estimated cost, \$28,000.00.
- Village of Lamont, Final Certificate No. 640-49. Proposed Sewer Line and Pump Station. Estimated cost, \$6,000.00.
- City of Edmonton, Final Certificate No. 641-49. Proposed Water Main Construction. Estimated cost, \$163,383.50.
- 33. Village of Fairview, Provisional Certificate No. 642-49. Proposed
 Sewerage Works. Estimated cost, \$43,950.00.
- Town of Stavely, Provisional Certificate No. 643-49. Proposed Water Works Construction. Estimated cost, \$50,287.00.
- Town of Okotoks, Provisional Certificate No. 644-49. Proposed Water Works System. Estimated cost, \$73,176.00.
- Town of Okotoks, Provisional Certificate No. 645-49. Proposed Sewerage System. Estimated cost, \$58,771.00.
- St. Mary's Hospital, Trochu, Alberta. Final Certificate No. 646-49. Proposed Extension. Estimated cost, \$167,000.00.
- Village of Beaverlodge, Provisional Certificate No. 647-49. Proposed Waterworks System. Estimated cost, \$43,737.00.
- Village of Beaverlodge, Provisional Certificate No. 648-49. Proposed Sewerage System. Estimated cost, \$33,240.00.
- Town of Rocky Mountain House, Provisional Certificate No. 649-49. Proposed Sewerage System. Estimated cost, \$53,347.00.
- Imperial Oil Limited (Townsite of Devon), Provisional Certificate No. 650-49. Proposed Water Supply to Leduc Gasoline Plant. Estimated cost, \$60,000.00.
- Imperial Oil Limited (Townsite of Devon), Final Certificate No. 651-49. Proposed Water Supply to Leduc Gasoline Plant. Estimated cost, \$60,000.00.
- Town of Stettler, Provisional Certificate No. 652-49. Proposed Sewerage Works. Estimated cost, \$33,812.00.
- City of Calgary, Final Certificate No. 653-49. Proposed Construction of Sewers. Estimated cost, \$17,000.00.
- City of Edmonton, Final Certificate No. 654-49. Proposed Water Mains Construction. Estimated cost, \$269,645.00.
- City of Edmonton, Final Certificate No. 655-49. Proposed Storm Water Outlet.
- City of Edmonton, Final Certificate No. 656-49. Proposed Sanitary and Storm Sewer Construction. Estimated cost, \$1,363,455.00.
- City of Calgary, Certificate No. 657-49. Proposed Storm Sewer Construction. Estimated cost, \$2,000,000.00.
- Bentley Hospital Board, Final Certificate No. 658-49. Proposed Extension. Estimated cast, \$51,000.00.
- Village of Tilley, Provisional Certificate No. 659-49. Proposed Waterworks Construction. Estimated cost, \$19,000.00.
- City of Calgary, Final Certificate No. 660-49. Proposed Sewer Construction. Estimated cost, \$20,300.00.
- Town of Vegreville, Final Certificate No. 661-49. Proposed Water and Sewer Extensions. Estimated cost, \$10,860.00.
- Town of Hanna, Final Certificate No. 662-49. Proposed Supply Line and Water Treatment Plant. Estimated cost, \$100,000.00.

The plumbing inspection work carried out by the Division continued to increase over previous years. The magnitude of the increase is indicated by the yearly revenues for inspection fees, which were as follows for the years 1945, 1946, 1947, 1948 and 1949 respectively: \$2,008, \$2,928, \$5,237, \$6,732, and \$9,682. On this basis, the work carried out by the Division in 1949 was 4.82 as much as was done in 1945, which was considered a busy year by all previous standards. The amount of work inspected by the Division amounted to an investment of approximately 1¼ million dollars. The magnitude of this work has made it impossible for the two inspectors employed by the Division to keep up-to-date, and it is apparent that if the work is to be accomplished, another plumbing inspector will have to be employed. In order to get as much work done as possible, the Division received the co-operation of Public Works foremen in many towns by getting them to carry out inspection work on the smaller jobs. These arrangements have helped the situation considerably, but have not quite solved the problem.

A breakdown of the plumbing inspection work in the Province for 1949 is as follows on Tables 1 and 2:

Inspections Made	New Con- struction Total No. Fixtures	Reconstruc- tion and Extensions	Permits Granted	Charges Made
Provincial	6,798	399	1.608	\$ 9,682.00
Edmonton	15,531	2.152	2 990	14.613.75
Calgary	9,961	292	2,401	9.911.40
Lethbridge	2.855	670	534	1.292.25
Medicine Hat	1,350	167	226	552.00
Drumheller	52		16	85.50
Red Deer	761	9	157	205.75
High River	163	19	49	98.00
Claresholm	97	*****	21	42.00
Hanna	61		28	
Banff	226	89	43	116.75
Jasper (not reported)				
Waterton	13	16	. 5	12.00
	37,868	3.813	8.078	\$36.611.40

TABLE 1

TABLE 2

Location	w.c.	Lavatory Basin	Showers and Bath	Sinks	Laundry Tubs	Special Fixtures	Septic Tanks	Outside Toilets Eliminate
	935	857	1.635	633	31	133	335	271
Provincial	695	1.069	389	428	52	340	304	362
Edmonton	4.219	4.612	3.930	3,954	320	648	19	41
Calgary	2.181	2,087	1.958	2.004	6	75	1	1
Lethbridge	826	814	524	593	11	739	6	47
Medicine Hat	444	398	290	336	5	44		40
Drumheller	18	17	7	9		1		2
Red Deer	212	205	150	169	13	21	3	14
High River	55	49	32	36	5	5		24
Claresholm	30	26	14	16	8	3	2	4
Hanna	15	15	10	21			1	9
Banff	72	78	67	31	5	62	2	
Jasper (not reported)		have						
Waterton	8	8	8	4	1		5	3
Total	9,710	10,235	9,014	8,234	.456	2,071	678	818
	- Barrison and Bar	-	-	-		-	-	-

Hospital and Medical Services Division

M. G. McCallum, M.D., D.P.H., Director

The number of municipal hospitals increased during 1949 by the opening of a new hospital at Blairmore, and the construction of the hospital at Rimbey. Three Hills began active operation, and Katherine H. Prittie Hospital, Bonnyville and Miners' Union Hospital, Coleman, closed down.

The nursing situation during the year remained much the same as the previous year with a lack of approximately 200-300 nurses.

The Nursing Aide School in Calgary, as of December 31st, 1949, have certified 326 aides, an increase of 138 over December, 1948. There were 285 of these working in Alberta at the end of the year. Number of aides in training, 114. The lack of nurses to some extent is compensated for by this increase in nursing aides.

Approved Hospitals

The approved hospitals in the Province as at December 31st are divided as follows:

	1949	1948
Catholic	31	31
Protestant	5	6
Municipal	49	46
Municipally operated	6	7
Industrial	3	4
Service Group	2	2
Lay Corporation	2	2
Provincial	1	1
	99	99

The Isolation Hospitals in Edmonton and Calgary are not listed as separate from the city hospitals, and the hospital at Hythe is not listed as separate from Grande Prairie Municipal Hospital.

Private Hospitals

There was a further decrease in the number of private hospitals in 1949, there being 22 in operation at December 31st.

Statistics

The following tables are submitted giving the details of each approved hospital in the Province.

Table 1—Bed capacity, bed complement, patients under care during year, admissions, discharges, deaths, and stillbirths.

Table 2-Patient days, average stay in hospital, and occupancy.

Table 3-Staff.

Table 4—Operating expenditure.

Table 5—Operating revenue.

Table 6—Costs and earnings per patient day with percentage costs.

The information for hospitals in operation for only part of the year is given separately at the end of each table. Not included are the hospitals at Fort Smith, N.W.T., and Lloydminster, Saskatchewan.

For convenient reference, the information in the above tables is herewith presented in summary form, together with corresponding entries for 1948, for comparative purposes.

HOSPITAL BEDS 1949 Capacity Complement Ca Beds and Cribs Bassinets 910 1.079	1948 apacity Complement
Capacity Complement Ca Beds and Cribs 4.684 5.617	
Beds and Cribs	apacity Complement
LICUS CITA CLIDS	
Bassinets 910 1.079	4,903 5,437
	889 1,063
	5,792 6,500
Beds per thousand population (exclud-	
ing Bassinets)	5.8 6.5 26.1
Patients accommodated per bed per year 28.6* *Excluding newborn.	20.1
PATIENT DAYS	
1949	1948
Adults and children 1,436,927	
Newborn 210,431	201,935
and the second	1.610.272
All patients	1,010,272
PATIENTS UNDER CARE DURING THE YEAR	
1949	1948
Adults and children Average stay 9.2	9.7
New born 23,653	
Average stay	9.2
Total 182.686	170,228
Average stay	9.6
Average in hospital daily 4,513	
% of population in hospital daily	
% of population admitted per year 20.5	20.1
STAFF	10.10
Administration: 1949	1948
Executive 118	131
Clerical	307
Professional:	21
Salaried doctors 37 Internes 78	89
IIICIIICO	135
Technicians	100
Nurses: Graduate 1,033	960
Student	904
Probation 269	284
Affiliates 36	41
Nurses Aides	*
Dietitians:	
Graduate	35
Student 12	
Orderlies and ward helpers	
Other employees	1.697
Total Staff	5,168
*Not available for 1948.	
BIRTHS	
1949	1948
Births (excluding Indian) in approved	
hospitals 23,039	
Total stillbirths 388	349
Percentage of hirths in approved hos-	
pitals to total births in Province (ex-	96.6
cluding Indian) 97.2	270.0

NURSES IN TRAINING

NURSES IN TRAINING	; 1949	1948
Number of schools	10 340	10 315

FINANCIAL*

	1949	1948
Total operating revenue	\$12.247,500.96	\$10,585,077.46
Total operating cost	11,924,949.73	10.363.011.54
Revenue per patient day	8.14	6.56
Cost per patient day	7.29	6.42
Salaries and wages	48.0%	45.494%
Supplies	34.8%	36.88%
Purchased services	3.2%	3.50%
Insurance	0.9%	.97%
Depreciation	4.2%	3.80%
Repairs and replacements	3.9%	4.90%
Interest and exchange	1.9%	2.19%
Miscellaneous	3.1%	1.82%

*Excluding information for hospitals in operation for only part of the year.

TABLE No. 1

		Stillbirths	4 70 14	1 101-01	38 31 4	∞ ∾	10 4 [I	-
ths	Τ	Newborn	410100	1461	39	4 0 0	-01 0	123
Deaths	-	Children Children	119	11559	384 5 162 1	-15 6 6	1820.96	19 39 15
irges		Newborn	188 57 226 62 121	35 62 224 33 33	1,784 1,810 374	359 36 17 84	35 110 46 67	45 6 102 366 117
Discharges		Children Adults and	1.120 849 1.496 717 506	423 364 1,142 1,128 1,128	10,243 314 9,223 147 402	2,645 336 1,209 231 927	227 971 529 529 456	465 153 741 2.288 1,043
Admissions		Newborn	195 60 230 63 63 126	37 65 148 227 35	1,825 1,844 380	360 36 183 173 81	35 115 46 69 70	47 6 377 377
Admi	-	Adults and Children	1.138 837 1.510 740 519	$^{435}_{1,156}$ 1,156 1,124 180	10,632 335 9,384 143 407	2,701 342 1,224 235 939	241 998 534 534 468	479 159 757 2,339 1,063
L		Total	$1.351\\969\\1.769\\808\\653$	478 447 1.327 1.381 216	12,730 345 11,463 193 797	3,108 381 1,425 257 1,038	281 1.132 297 616 551	532 165 885 885 885 1,195
ig Year	F.	IntoT	771 503 1,008 485 415	274 238 810 826 826	7.705 172 7.003 108 603	1,809 184 892 142 142	152 679 176 366 366 291	304 108 553 1,499 692
Care During	M.	1-1-10	761 761 761 761 238	204 517 555 94	5,025 173 4,460 85 194	11.299 197 533 533 115 486	129 453 121 250 250 250	228 57 332 1.268
Care	ġ.	Newborn	35 35 33 33 33 64	24 34 79 21	930 918 191	180 20 93 93 44	249 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	24 192 192
Under	M.		101 25 63 63	13 32 118 118 118	936 963 194	192 16 93 8 8 8 43	31228813	24 194 58 58 58 58 58 58 58 58 58 58 58 59 58 59 59 59 59 59 59 59 59 59 59 59 59 59
Patients Under	M. F.	Children	675 468 887 887 351	250 204 714 101	6.775 172 6.085 108 412	1.629 164 799 508	533 253 253 253 253	280 107 497 1.307 629
P			479 440 650 298 175	191 177 443 437 80	4,089 173 3,497 85	1,107 181 440 107 443	110 385 96 223 226	$204 \\ 52 \\ 279 \\ 1.074 \\ 445 $
mplement	н	IstoT	44 33 18 18	117 147 147	420 60 53	125 118 22 36	31223	30 37 37 37 37 37 37 37
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city		IstoT	34 31 32 31 31	1333351	361 361 50 53	117 16 30 33	21 38 23	16 322 221 212
Bed Capacity	Number	Bassinets	141-00	4 4 10 1- 00	60 40 28	04040	m 4 m m m	01-1-10
Bed	A	Beds	242 26 26	132817	301 50 25	22222	22259	165 165 165 16
Hospitals		Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Bomyville, St. Louis Brooks, Municipal Cadomin, General	Calgary, General (a) Isolation Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Canmore, Cannore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary.	Cereal. Municipal Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal	Daysland, Providence Desmarals, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal	

DEPARTMENT OF PUBLIC HEALTH

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7,924 292 9,948	14.656 578 8.243 1.557 17. 26	981 1,468 254 425 727	469 413 896 1.856 726 726	639 2.139 1.419 790	347 373 856 1.594 1.090	2.938 3.592 4.397 506	1.250 328 387 598 636
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132 4,564 6,417	9,233 286 4,47 4,407 13 13 48	578 907 167 258 425	274 261 514 1,126 1,26 463	377 1,212 880 480	190 171 538 1.034 699	$ \begin{array}{c} 1.719 \\ 2.289 \\ 50 \\ 2.660 \\ 280 \\ \end{array} $	762 203 381 356
3,508 186 3,694	5,733 304 50 4,087 1,640 7	427 581 96 182 309	204 155 397 759 759 276	278 967 575 332	162 213 325 588 413	$ \begin{array}{c} 1.258 \\ 1.394 \\ 44 \\ 1.827 \\ 232 \end{array} $	502 131 155 222 287
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88 64	30	10 0 0 4 00	4 4 7 0 10 10	6 15 15 6	44 16 8 8	10 8 18 6	4 4 10 00
14 212 234	460	37 26 23	18 15 40 35	10 57 36	230 215 230 215	95 86 98 16	29 10 26
Edmonton, Beulah Home Edmonton, General (a) T.B. Division Edmonton, Miserfcordia	Edmonton, Royal Alexandra (a) Isolation (b) T.B. Division Edmonton, University of Alberta (b) Polio (c) T.B.	Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal Falrview, Community	Ft. McMurray, St. Gabriel's Ft. Vermilion. St. Theresa Galabad. St. Joseph's Grande Prairie, Municipal Hythe, Sub. of Grande Prairie Hanna, Municipal	Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal	Islay, Municipal Jasper, Seton Killam, General Lacombe, Municipal Lac la Biche, St. Catherine's	Lamont, Public Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's General Macleod, Municipal	McLennan, Sacred Heart Magrath, Municipal Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal

DEPARTMENT OF PUBLIC HEALTH

			Stillbirths	10	10 03 01 -4	ea → ¹ 00	4 61 00	-0 -0	01010-0-0
	ths	1	Newborn	17	000 H	H01014	40001-	00011	H4400
	Deaths	-	Adults and	106 11 5 1	23 6 15 18 18	13 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	21 50 20 20	28 114 13	7 28 19 12
	rges	İ	Newborn	701 51 28	175 45 105 164	80 149 98 108 108	1119 65 65 226 236	229 85 105 1105	90 208 82 82 97
	Discharges	-	Children Adults and	4,502 5 538 538 134	662 434 661 1.028 949	646 734 2,456 2,456 2,456	809 355 1.743 1.900	1.235 724 975 272 612 612	2.147 2.147 995 611 410
	sions		Newborn	713 58 28	176 45 112 112 174	82 150 99 405 113	121 69 233 289	242 91 47 76	91 206 164 86 102
	Admissions	-	Adults and Children	4,597 6 871 540 138	682 449 671 1,045 972	665 737 2,482 859	827 353 772 1,809 1,907	1,267 742 993 281 612	2.178 2.178 1.020 623 427
			IstoT	5.410 6 943 600 166	879 499 805 1,192 1,165	757 902 564 2.951 985	967 434 855 2.078 2.236	1.534 833 1.117 709 709	2,428 1,203 722 530
	ng Year	F.		3,142 555 337 72	555 278 459 650 716	428 519 350 1.764 560	538 252 1,229 1,330	900 513 655 207 351	1.562 699 373 336
led	e During	M.	IstoT	2.268 4 388 263 94	324 324 346 542 449	329 383 214 1.187 425	429 182 393 849 906	634 320 133 358 358	407 923 504 349 194
-Continued	er Care	Ŀ.	Newborn	362 23 23 18	862 55 88 89 65 55 88	43 82 54 54 54	66 33 33 33 33 115 115 115	106 55 29 55 55	51 75 42 48
Con	Patients Under	M.		368 29 10	21 21 21 21 21 21 22 22 23 23 23 23 23 23 23 23 23 23 23	41 73 48 60 60	36 36 120 155	140 51 20 35 35	42 95 46 54
No. 1	Patient	F.	Children	2.780 526 314 54	467 2522 414 588 588 588 588 588 588 588 588 588 58	385 437 296 1,564 506	472 219 430 1,114 1,188	794 473 602 178 306	511 1,399 624 331 288
TABLE	_	M.	bue stlubA	1,900 4 359 234 84	232 200 2776 477 362	288 310 971 365	371 146 357 729 751	494 269 401 113 323	365 813 409 303 140
TA	ement	IstoT	188 31 20 19	38 32 42	38283	31 255 38 90 48 88 90	388334	232288	
1	Bed Complement	Number	stenisseB	10 4 10 m	00000	6 17 18	7 6 10 24	00 4 KB 400	10
	Bed		Beds	153 15 15 16	28 29 28	22 23 23 24	24 32 38 38 66	885333	28 18 23 28 18 28
	city		IstoT	128 11 30 16 19	40 31 36 36	23 23 23 23 23 23	28 31 33 47	33 26 219	35 50 20
	Bed Capacity	Number	Bassinets	0 400	0.0400 0		@10 4 @10	104	14 8 4 60
	Bed	A	Beds	118 111 26 13	31	13 19 19	22 24 24	25 25 13	25 14 16 16
			Hospitals	Medicine Hat, General Medicine Hat, Isolation Mundare, General Myrnam, Municipal Nordegg, General	Olds, Municipal Oyen, Municipal Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal	Provost, Municipal Radway, St. Joseph's Raymond, Municipal Red Deer, Municipal Rimbey, Municipal	Rocky Mountain House. Municipal Smoky Lake, George McDougall Spirit River, Holy Cross Stettler, Municipal St. Paul, St. Theresa	Taber, Municipal Three Hills, Municipal Tofield, Municipal Trochu, St. Mary's Turner Valley, Olifields General	Two Hills, Municipal Vegreville, General Vermilion, Municipal Viking, Municipal Vilna, Our Lady's

TABLE No. 1-Continued

00440	381		381
44021	445	1	445
30 30 71	2,869	89	2,780
116 152 276 367 56	22.495	**	22,495
1.258 1.258 1.938 2.091 712	22,978 151,268	2.023	22.978 149.245
123 152 290 379 59	22.978	1	22.978
800 1,280 1,977 2,156 727	.014 154.276	2,103	52,173
1.465 2.298 2.582 795	181,014 1	2,440	92.794 11.991 11.477 74.303 104.271 178.574 152.173
520 849 1,335 1,498 466	104.743 181.0	472	104,271
419 616 963 1,084 329	1,477 76,271	1,968	74,303
58 86 147 170 31	11,477		11,477
67 73 147 218 28	1 166,11	-	166'11
462 763 1,188 1,328 435	93,266	472	
352 543 816 866 301	64,280	1,968	62.312
292322	6,566 64,	1	6,566
10 15 4	1.063	1	1.063
21 51 25 25	5,503	1	5,503
23 62 58 16 16	900 5,512 5,503 1.063	372	900 5.140 5.503 1.063
114 112 112 112	1000	1	
15 48 30 13 13	4,612	372	4.240
Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Total	Less D.V.A., Orthopaedic, Polio, and T.B. Division Cases	

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Hospitals in operation for only part of the year:

ĸ	64
-1	-
19	101
150	30
-	
1,	244 133
154	30
1,107	237
1,261	276
708	156
553	120 60
82	15
72	16
626	141 75
481	104
130	11
16	11
114	11
82	11
10	11
72	11
Blairmore, Crows Nest Pass, Municipal (9 mos.) Bonnergila Katharina H Drittia	(8 mos.) Coleman, Miners' Union (4 mos.)

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	Occu-	l	63.8 157.6 102.1 48.9 88.7	107.6 80.6 73.9 66.8 24.1	100.2 89.6 107.1 49.2	48.1 41.9 76.5 29.1 59.5	80.2 98.7 32.4 70.6 64.5	52.2 25.9 73.8 97.1 98.4	38.0 149.1 87.7	89.2
	ents Dis-	Total	0.9 6.2 4.5 7.4 7.4 7.4	69 19 19 19 19 19 19	17.5 17.5 154.6 11.3	99556 99556 1986	10.4 9.3 10.3 8.7	7.1 8.5 9.3 5.8	16.9 8.9 175.5	9.1 10.2 100.0
	Average Stay of Patients charged or Died	Newborn	8 8 8 9 9 9 6 6 9 9 9 9 7 4 9 9 9 9	10.0 11.3 8.6 6.5 9.9	9.8 8.6 11.6	9.5 9.9 9.9 9.2 2.2	9.0 10.4 8.7 9.8	10.0 6.5 8.4 8.5 8.5	19.0 8.4 8.6	9.0
	Average S cha	Adults and Children	មិនដែលដែរ ភូនដែលដែរ ភូនដែលដែរ	6.3 6.1 6.0 5.4	9.5 17.5 154.6 154.6	6 514 814 81	10.6 9.2 10.5 8.5	6 8 4 8 9 4 4 5 5	14.9 8.9 175.5 7.6	9.2 10.2 100.0
PATIENT DAYS	charged	Total	7,869 27,276 10,904 4,257 3,635	3.094 3.927 9.051 8.341 1.306	120,313 5,582 104,411 22,736 8,798	20.328 2.097 8.138 8.138 2.337 6.230	2,846 10,263 2,226 6,275 4,668	3,705 1.243 7,379 25,135 6,836	4,344 77,880 51,599 90,684	158.754 5.736 6.795
ALL	Total Patients Discharged or Died	Newborn	1.590 460 1.900 408 664	351 709 1,274 1,476 335	17,819 15,893 4,374	3.459 1.451 1.481 169 788	323 1,171 407 666 666	459 39 3,162 3,162 1,018	2,400 7,128 15,518	24,589
TOTAL OF	Total P	Adults and Children	6,279 26,816 9,004 3,849 2,971	2,743 3,218 7,777 6,865 971	$102,494 \\ 5,582 \\ 8,518 \\ 8,518 \\ 22,736 \\ 4,424 \\ 4,424 \\ 10,100 \\ 10,10$	16,869 1.948 6.657 2.168 5,442	2,523 9,092 1,819 5,609 3,972	3.246 1.204 6.359 21.973 5.818	1,944 70,752 51,599 75,166	134.165 5.736 6.795
T	ts, 1949	Total	7,926 24,657 10,852 5,055 3,589	3,107 3,978 8,857 9,025 1,305	$\begin{array}{c} 122,618\\ 5,765\\ 104,138\\ 19,565\\ 8,856\end{array}$	20.548 1.984 8.182 2.294 6.222	2,952 10,219 2,181 6,346 4,945	3.510 1.362 7.757 26.230 6.733	4.397 79.139 43,699 90,464	157.707 5.945 10.814
	f all Patients,	Newborn	1.639 488 1.902 1.902 674	357 738 1.299 1.465	18,208 15,795 4,367	3.495 1.475 1.475 789	316 1.206 407 676 705	459 339 3,167 3,167	2.451 7.347 15.471	24,659
	Total of	Adults and Children	6.287 24,169 8,950 4,648 2,915	2,750 3,240 7,558 7,560	104,410 5.765 88,343 19,565 4,489	17,053 17,053 6,707 2,125 5,433	2.636 9.013 1.774 5.670 4.240	3,051 1,323 6,736 5,749	1.946 71,792 43.699 74,993	133,048 5,945 10,814
	Hospitals		Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Bonnyville, St. Louis Brooks, Municipal Cadomin, General	Calgary, General (a) Isolation Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	Cereal. Municipal Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal	Daysland, Providence Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal	Edmonton, Beulah Home Edmonton, General (a) T.B. Division Edmonton, Misericordia	Edmonton. Royal Alexandra (a) Isolation (b) T.B. Division

TABLE No. 2

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DEPARTMENT OF PUBLIC HEALTH

			ANNU	AL REPO	ORT, 1949			89
83.4	56.1 109.4 42.0 58.2 164.4	66.8 179.2 87.0 96.8	48.1 120.8 109.0 62.9	86.4 59.0 60.7 84.4 84.4	59.9 112.0 21.8 107.4 82.8	79.4 66.8 64.2 76.5 44.9	88.9 1.0 58.4 65.8 15.3	63.8 47.2 125.7 79.1 71.2
13.8 22.1 61.0 167.0	8.3 9.6 11.5 6.0	1231 555 71 555	8.7 7.5 7.5 7.5 7.5 7.5 17.8	872 872 872 872 872 872 872 872 872	6.8 9.9 8.9 8.6 8.6	6.9 6.3 7.4 4 7.2 4 7.2	8.6 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	102 61 73 73 73 73 73
. 9.8	10.7 8.6 9.3 12.1 8.1	7.0 10.1 9.8 7.3	10.1 8.3 8.2 9.5 9.5	10.2 9.9 9.1 10.0	80 87 87 87 87 87 87 87 87 87 87 87 87 87	8.0 8.5 10.6 10.1	9.6 9.4 8.4	9.5 10.7 10.0 8.0
14.2 22.1 61.0 167.0	7.8 9.1 11.4 5.7	1268 1268 711 711	85 695 77 77 77 75 85 11 38	6 8 6 8 5 5 6 8 6 8 5 5 6 8 7 6 8 7 7 6 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10.0 14.7 8.8 8.5	6.7 6.6 6.9 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 7	84 64.4 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8	10.3 6.3 6.9 7.1
$\begin{array}{c} 126,289\\ 38,407\\ 1,219\\ 7,688\end{array}$	9.841 11.617 2.925 5.611 5.081	4,772 5,367 5,287 15,524 1,562	7.772 5.171 18.299 12.815 10.316	3,484 3,608 7,031 15,397 8,925	$21.266 \\ 40.781 \\ 1.236 \\ 43.603 \\ 4.825 \\ 4.825$	9.762 2.407 5.038 5.283	45,591 6,033 3,593 898	8.757 3.268 7.425 8.459 8.249
8,986	2,143 1,272 474 737 993	397 444 549 267 267	1,518 719 2,341 1,746 1,317	286 384 1,110 2,128 1,733	1,571 4,840 4,707 571	1,453 433 609 902 1,161	6.887 528 437 176	1,674 482 1,097 1,228 1,366
117,303 38,407 1,219 7,688	7,698 10,345 2,451 4,874 4,088	$\begin{array}{c} 4.375\\ 4.923\\ 4.738\\ 13.249\\ 1.295\end{array}$	6.254 4.452 15.958 11.069 8.999	3,198 3,224 5,921 13,269 7,192	19.695 35.941 35.941 31.236 38.896 4.254	8.309 1.974 2.369 4.136 4.122	38,704 5,505 3,156 722	7.083 2.786 6.328 7.231 6.883
126,617 48,003 854 9,160	9.693 11.683 2.936 5.631 5.166	4.785 6.347 5.296 15,081 1,608	7,656 5,121 18,650 12,625 9,582	3,430 3,644 7,107 15,358 8,780	22.320 40.037 1.276 43.133 4.807	9.824 2.368 2.949 5,409	45.179 6.040 3.549 959	8.920 3.410 7.536 8.438 8.154
9,064	2.115 1.290 480 737 962	391 457 531 267 267	1,507 708 2,324 1,759 1,312	276 412 1,116 2,160 1,690	1.528 4,844 4,678 574	1,411 416 602 899 1,146	6,859 539 427 177	- 1,692 476 1,106 1,217 1,387
117,553 48,003 854 9,160	7.578 10.393 2.456 4.894 4.204	4.394 5.890 12,805 12,805 1,341	6.149 4.413 16.326 10.866 8.270	3.154 3.232 5.991 13.198 7.090	20.792 35.193 1.276 38.455 4.233	8,413 1,952 2,347 4,192 4,263	38,320 5,542 3,122 782	7,228 6,430 7,221 6,767
Edmonton. University of Alberta (a) D.V.A. (b) Folio (c) T.B.	Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal Fairview, Community	Ft. McMurray, St. Gabriel's Ft. Vermilion. St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Hythe, Sub. of Grande Prairie	Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal	Islay, Municipal Jasper, Seton Killam, General Lacombe, Municipal Lac la Biche, St. Catherine's	Lamont, Public Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's General Macleod, Municipal	McLennan, Sacred Heart Magrath, Municipal Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal	Medicine Hat, General Medicine Hat, Isolation Mundare, General Myrnam, Municipal Nordegg, General	Olds, Municipal Oyen, Municipal Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal

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ANNUAL REPORT, 1949

				PAT	PATIENT DAYS	rs.				
	Total of	all	Patients, 1949	Total Pa	Total Patients Discharged and Died	harged	Average Stay charged	ge Stay of Patients charged and Died	ients Dis-	.
Hospitals	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total	Adults and Children	Newborn	Total	
Provost, Municipal Radway, St. Joseph's Raymond, Municipal Red Deer, Municipal Rimbey, Municipal	4,581 4,212 2,820 17,900 5,668	571 1,609 3,867 1,173	5,152 5,152 5,821 3,569 21,767 6,841	4,448 4,244 2,951 18,125 5,665	569 1,588 3.770 1.119	5,017 5,832 3,705 21,895 6,784	6.17 6.12 6.12 6.12 6.12 6.12 6.12 6.12 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7.0 7.5 9.6 10.4		1.0.12.0
Rocky Mountain House, Municipal Smoky Lake, George McDougall Spirit River, Holy Cross Stettler, Municipal St. Paul, St. Theresa	6.035 2.105 5.480 14.890 13.034	$1.279 \\ 648 \\ 648 \\ 1.847 \\ 2.911$	7.314 2.753 6.128 6.128 16.737 15.945	6,133 2,047 5,733 14,904 13,251	1,325 645 654 1,336 2.919	7,458 2,692 6,387 16,740 16,740	4757 4757 8000	10.8 9.5 9.6 8.0 10.0	7.8 7.6 3.8 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.3 5 0.5 10 10 10 10 10 10 10 10 10 10 10 10 10	000000
Taber, Municipal Three Hills, Municipal Tofield, Municipal Trothu, St. Mary's Turner Valley, Oilfields General	9.252 4.072 5.483 2.549 5.293	1.919 805 906 482 772	11.171 4.877 6.389 3.031 6.065	9.133 4.040 5.489 5.297	1.906 790 797 484 786	11,039 4,830 6,286 3,135 6,083	8.95551 8.95651	8.0 9.0 7.4 10.1	1-10.00.00	401-41-
Two Hills, Municipal Vegreville, General Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal	4,704 15,514 8,347 4,558 4,915	796 1.756 1.756 1.052 1.045	5,500 17,404 10,103 5,384 5,384 5,360 5,360	4,620 15,468 7,658 4,576 5,490 5,065	803 1,949 1,772 1,772 1,772 1,772 1,051 1,025	5,423 17,417 9,430 5,394 5,541 6,090	011111100 0110400	8.8 9.2 9.7 9.7 8.5 8.5	5.1 7.3 6.8 6.6 6.6	0001009
Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	11.065 13.003 11.482 4.409	1,409 2,515 2,627 605	12,474 15,518 14,109 5,014	11.111 12.997 11.622 4.315	1,390 2,450 2,673 589	12.501 15.447 14.295 4,904	8.8 8.6 4.0	8.9 8.7 7.1 10.3	8.7 5.6 6.3 6.3	0000
Total Less D.V.A., Orthopaedic, Polio and T.B. Division cases	1.426.621 132.095	209,180	1.635,801 132,095	1,419,675 128,444	208,298	1,627,973 128,444	9.2	9.1	6	01
	1,294,526	209.180	1,503,706	1.291,231	208,298	1,499.529	00	.5 9.1	8.6	9
Hospitals in operation for only part of the year: Blairmore, Crows Nest Pass Municipal (9 mos.) Bornyville, Katharine H. Prittle (8 mos.) Coleman, Miners' Union (4 mos.)	7,853 1,497 956	970 281	8,823 1.778 956	7,491 1.804 1.049	961 277	8,452 2.081 1.049	7.0	6.4	1.5	CD 12 00

TABLE No. 2-Continued

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DEPARTMENT OF PUBLIC HEALTH

			year during the		11	1 1 1	122	11111	11111	
			with other Institutions Graduated	11111	11		Yes Yes Yes			1.1.1.1
		-	School	00000	0 0	000		NO ON NO ON	NO O O O	NO ONO NO ONO NO ONO
			BulnierT	NO ON ON	No	NoN	Yes Yes No No			
			No. of Doctors	10 10		-	161 137 17	000 140	111-1	1 10
			Medical Staff	Yes Yes No No No	N0 N0	Yes No No	No Yes Yes Yes	Yes Yes Yes Yes	No No No No No	No Yes No
			IstoT	18 81 26 15 12	11 6	46 27 24	445 446 39 39 14	65 10 18 8 19	20 13 13 13	14 3 19 14
		ers	Employees All other	0.43 g 0	en 1=	23 14 6	130 130 109 11	101000	-99199	0 10 g 10
		Others	Orderlies and Ward Helpers	110 11 23 23	11	10 8	10 17 6	16	40 40	40004
		ians	student2	1111	11	111	11111	1	1111	11111
		Dietitians	Graduate	1 1 1		111	100 61	11111	11111	-
ATUTO	FF	-	9biA səsıuN	11111	11	o	0 0		101	12
TOLO		50	Affiliates					1111	1111	
NO.	STAFF	Nurses	Probationers	1111			88	11111	11111	1111
TABLE		4	Student	1111	11	111	142	1111	1111	1111
TVT			Graduate	46444	4-1	8 33 10	75 50 50 50	00 x 4 10	61 00 03 49 03	n H 0 8 N
		al	Technicians		11	1	31	4 0		N N
		Professional	Internes	1111	11	111	1-01	11111	11111	
		Pro	Doctors	11111		111	000	10 H	"	
		hist'n	Clerical	1001	-		11234	414 4		
		Administ'n	Executive		0 H	- 1	-04			
			Hospital	Athabasca, Municipal Barnft, Mineral Springs Barntead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal	Blairmore. Crows Nest Pass Municipal Bonnyville, St. Louis Brooks, Municipal	Cadomin, General Calgary, General Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	Cereal, Municipal Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal	Daysland, Providence Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal

TABLE No. 3-STAFF

DEPARTMENT OF PUBLIC HEALTH

	Administ'n Professional	Graduate Graduate Clerical Executive Executive	Beulah Home 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 11 14 60 59 10 59 59 11 14 60 59 10 59 50 11 25 53 11 25 53 73 118 26 23 73 <th73< th=""> 73 73</th73<>	Edson, St. John's Edson, St. John's Els Point, Municipal 1 2 4 4 Elnora, Municipal 1 1 2 6 6 Enpress, Municipal 2 6 6	Ft. McMurray, St. Gabriel's1112Ft. Vermilion, St. Theresa1111Galahad, St. Joseph's1111Garande Prairle, Municipal2221Hythe, Sub. of Grande Prairle1119Hanna, Municipal1119	Hardisty, St. Anne's 1 1 1 4 High Prairie, Providence 1 3 1 1 4 High River, Municipal 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Islay, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Islay, Seton Killam, General Islay, Municipal Islay, Municipal Islay, Catherine's Islay, Municipal Islay, St. Catherine's Islay, Seton Se	Lethbridge, Galt 3 7 1 3 2 7 Lethbridge, Lethbridge, Isolation	4 10 2 1 5
S	Nu	Probationers	115 36 102 33 150 31 135 47			1111			
STAFF	Nurses	Affiliates	10 10	11111		1111	1111	-	
	-	əbiA səsıuN	. 1 1 1 1	11111	n n ⊣	1111		11	
	Dietitians	Graduate	00000		11111	1111		1	-
	ans	Student Orderlies and	- =	1111		111	11117	11	
	Others	Employees All other	34 125 34 125 81 202 85 241	01+03+10		1 15 2	0004	20 42	10
		Total	2 13 3 13 13 13 13 13 13 13 13 13 13 13 13 13 1	9 19 88 211 5 111 111 111 111 111 111 111 111 1	12 25 33 99 12 25 33 27 25 27 25	3 13 20 46 18 30 18 30	4 9 3 10 19 46 7 16	9 108 2 167	50 140
		Medical Staff	No Yes Yes Yes	No No No No	°°NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	No No No Yes	Yes No No No No	Yes	Vac
		No. of Doctors	144 100 184 91	=	11111	13		9 K	
		Training Training	No Yes Yes Yes	NO NO NO NO NO	NO ON NO	No No No	N0 N0 N0 N0 N0 N0	Yes	
		Affiliation with other Institutions	Yes Yes Yes	11111		4111	11111	Yes	

TABLE No 3_Continued

1111	5	[]]]]		11111	1111	191	11111	340
11111	Yes	1111	1111	1111	1111	Yes	1111	
No No No No	Yes porting No No No	NO ON NO NO	N00 N00 N00 N00 N00 N00 N00 N00 N00 N00	N0 N0 N0 N0 N0	No No No No	Yes No No No	NO NO NO NO	
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No No No No No	Yes No Yes Yes	Yes No No Yes	No No No No No	Yes Yes No No No	Yes No No No	Yes No No No	No No Yes No	
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TITT	t Report	11111	11111	11111	11111	1111		78
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	9 111	1101	33		-	-0-01		328
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McLennan, Sacred Heart Magrath, Municipal Mamning, Battle River Mamville, Municipal Mayerthorpe, Municipal	Medicine Hat, General Medicine Hat, Isolation Mundare, General Myrnam, Municipal Nordegg, General	Olds, Municipal Oyen, Municipal Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal	Provost, Municipal Radway, St. Joseph's Raymond, Municipal Red Deer, Municipal Rimbey, Municipal	Rocky Mountain House, Municipal Smoky Lake, George McDougall Spirit River, Holy Cross Stettler, Municipal St. Paul, St. Theresa	Taber, Municipal Three Hills, Municipal Tofield, Municipal Trochu, St, Mary's Turner Valley, Oilfields General	Two Hills, Municipal Vegreville, General Vermilion, Municipal Viking, Municipal Vilina, Our Lady's	Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Total

Miscel- Expenditure	1,309.85 \$ 48,934.50 2,106.63 191,959.99 638.20 59,039.71 538.20 34,121.76 757.25 25,721.60	192.42 21,848.08 337.90 20,292.45 224.70 35,246.29 591.10 68,466.16 Reporting	25.061.43 962.038.26 34.198.54 773.896.06 217.13 102.011.86 2.250.60 40.050.63 845.60 157.942.85	1,054.28 23,015.62 274.04 63,697.28 271.80 20,712.70 205.85 40,421.01 25.00 23,877.10	67.653.41 125.669.58 278.92 15.525.68 281.55 44.828.44 518.80 33.977.17 167.96 23.689.24	230.00 11.868.00 515.80 61.499.24 2.157.49 189.807.70 439.00 40.464.92 972.94 29.340.66	6,826.85 816,189.36 29,380.84 639,399.42 58,173.82 1,490,302.43 20,488.46 1,600,608.75
Interest and Exchange lan	\$ 11.3.09 113.09 180.91 161.71 232.06	445.70 2.979.73 Not R	8,917.91 7,271.96 8,860.45	71.47 167.62 10.67	1,265.98 4,035.98 205.75 4.11	3.840.37 77.70 2.316.41 96.20	3.686.64 18.614.18 30.508.23 26.164.21 26.164.21
Repairs and Replace- ments	\$ 1,460.36 6.672.27 2.687.47 1.489.91 468.25	897.73 321.86 260.00 4.912.31	48.927.32 32,030.06 944.37 1,460.51	5,276,92 5,276,92 2,307,67 9,938,05 512,85	1.479.75 1.298.42 1.473.64 3.130.00 1.098.62	210.00 4.810.47 6.639.61 1.097.78 5.324.62	13.878.94 24.518.58 39.003.52 79.654.33
Deprecia- tion	\$ 3,160.73 5.042.57 1.301.09 2.218.74 1.700.00	2,000.00 3,820.00 Not Reporting	51,539.45 1.161.36 676.03 7,679.18	2,508.98 1,911.39	2.845.04 446.26 7,100.00 1.580.68 3,278.49	360.00 6,511.85 5,712.75 4,292.62	66,959.22 46,956.70 20,836.01
Insurance	8 502.77 1.384.43 301.17 220.69 221.06	116.54 218.61 310.66	6.584.27 6.632.25 464.33 163.78 1,472.71	377.43 152.00 545.98 102.66	346.78 70.78 163.66 477.53	135.00 326.10 1,394.56 394.80 163.50	10.174.36 4.693.24 40.150.95 40.178.95
Purchased Services	\$ 4.303.39 5.835.76 2.926.63 3.587.75 1.348.03	867.08 1.328.74 1.529.05 1.777.38	18.825.42 16.151.04 5.498.42 6.786.49	1,651.71 2,741.32 1,223.61 1,334.36 1,149.84	$\begin{array}{c} 1.899.36\\ 476.84\\ 1.49.10\\ 1.920.79\\ 1.242.02\end{array}$	657.50 2.045.80 8.977.51 2.3351.60 575.52	12.623.94 16.053.24 28.335.57 43.826.07
Supplies	\$ 15,484.41 71,391.78 21,696.94 11,426.41 10,102.37	9.252.33 6.519.71 13.638.79 22.974.40 Not Reporting	334,448.28 258,931.84 27,637.70 15,455.95 55,989,45	10,574.60 25,292.06 7,055.52 16,656.77 9,919.31	19.760.08 4.546.01 14.317.69 11.775.08 10.561.71	6.735.50 19.775.80 70.032.34 14.152.74 11.366.68	272,182,256 241,117,95 481,064,29 543,661,82 17,654,57
Salaries and Wages	\$ 22,711.19 99,413.46 29,307.30 14,779.69 10,892.58	9.096.28 9.565.63 19.593.75 31.100.58	519.273.63 367.140.92 67.032.92 19.769.15 74.848.46	8.932.59 26.578.91 9.702.10 11.740.00 10.245.38	30,419.18 8,479.23 15,899.70 14,682.41 6,858.80	3.540.00 23.673.05 94.815.74 15.419.97 10.841.20	429,857.15 258,064.69 792,230.04 881,913.08
Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Bonnyville, St. Louis Brooks, Municipal Cadomin, General	Calgary, General Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace Camrose, St. Mary's	Canmore. Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary Cereal, Municipal	Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal Daysland, Providence	Desmarals, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal Edmonton, Beulah Home	Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University of Alberta

- TABLE No. 4-OPERATING EXPENDITURES

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DEPARTMENT OF PUBLIC HEALTH

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53,624.56 27,401.58 31,307.64 29,636.45 45,511.21	25,094.71 28,032.80 96,343.66 68,184.24 29,134.37	91,003.54 81,318.92 56,562.06 21,717.63 26,754.83	44,726.77 112,561.58 47,079.88 154,303.32 252,396.87	5,489.42 316,145.40 53,012.74 63,359.95 23,929.44	27,226.52 30,099.78 51,370.40 328,641.21	30,319.70 42,084.66 90,406.09 26,417.06	60,161.79 41,754.62 62,470.96 45,249.16 28,406.29	26,947.69 146,263.02 58,039.59 39,965.80 25,352.98
$\begin{array}{c} 100.00 \\ 2.784.60 \\ 31.00 \\ 69.00 \\ 720.50 \end{array}$	29.23 306.77 12.477.29 1.348.69 250.26	1,352.63 2,483.31 104.70	349.65 303.00 606.15 4,146.45 2,371.87	$\begin{array}{c} 131.41\\915.78\\343.00\\2.232.94\\1.108.10\end{array}$	439.10 1.891.00 137.48 3.014.33 fot Reporting	4.368.95 163.70 Not Reporting 24,408.62	177.00 25.00 355.81	158.11 829.70 257.20 41.20 334.29
94.65 6.676.02 3.064.18	336.68 1,127.61 1,27.63 375.82 26.67	$\begin{array}{c} 1.571.00\\ 367.50\\ 115.69\\ 10.00\\ 2.540.00\end{array}$	$\begin{array}{c} 1.558.88\\ 5.187.36\\ 1.75\\ 101.68\\ 239.76\end{array}$	8,984.15 874.16 314.80 121.36	29.18 4,776.59 1,095.19	133.51 6.06 7,316.66 856.32	3.057.92 1.006.00 4.267.08 13.56	$\begin{array}{c} 1.722.93\\ 2.035.34\\ 5.875.62\\ 1.130.99\\ 107.50 \end{array}$
8.049.77 130.34 994.01 2.723.05	925.43 3.931.31 3.650.70 238.00	$\begin{array}{c} 6.191.46\\ 2.006.80\\ 1.893.36\\ 727.19\\ 409.50 \end{array}$	1.597.20 289.45 3.791.86 4.032.07 8.526.34	318.35 5,652.53 2,961.47 4,238.53 162.18	6.348.48 291.87 2,438.93 5,438.93	1,313.40 2,997.53 1,409.13 1,689.33	$\begin{array}{c} 1.520.51 \\ 4.701.49 \\ 3.087.74 \\ 5.418.11 \\ 373.94 \end{array}$	276.07 1.681.26 1.146.02 1.816.55 949.00
1,909.03 2,185.00 2,856.00	2,144.71 1,162.00 7,217.42 3,333.04 654.25	3.011.35 4.418.25 3.615.25 896.75	$\begin{array}{c} 3.086.16\\ 11.096.16\\ 2.372.11\\ 10.936.46\\ 1.575.24\end{array}$	$\begin{array}{c} 11.478.09\\ 2.967.58\\ 2.365.78\\ 1.007.93\end{array}$	1,486.31 6.898.83 5,100.88 Not Reporting	1,863.05 2,312.111 9,546.97 1,772.09	1.266.59 3.269.00 8.849.40 2.191.38 1,096.06	1,601.85 6,438.04 8,020.62 1,515.30 3,258.40
266.68 160.00 10.00 227.50 379.90	785.00 150.00 457.23 493.39 328.00	596.35 548.88 377.56 195.92 50.00	1.219-94 1.219-94 114.00 698.57	10.35 1,143.74 718.04 213.03 113.32	65.00 149.20 747.43 1,558.86 N	74.10 342.75 652.39 169.44	317.94 306.55 800.52 243.50 263.68	150.74 873.12 687.05 394.56 88.48
2,505,54 1,098,59 834,36 2,168,81 2,669,32	1,975.29 911.59 4,105.28 2,675.36 995.13	3,040.97 4,520.81 2,906.92 1,111.17 959.43	1,186.37 4,379.69 1,172.32 7,933.21 11,628.34	432.45 6.946.50 4.467.44 2.807.67 1,151.15	1,443.61 2,110.53 3,092.41 11,350.59	2,463.73 2,463.73 2,940.28 2,454.82	4,226,68 2,384,40 2,503,31 1,590,64 1,517,42	1,370.74 9,637.34 3,821.07 2,158.08 1,745.02
21,488.94 6.085.53 14,666.39 11,470.40 14,798.06	14,012.30 9,040.76 29,630.91 21,240.13 10,271.85	34,343,46 27,544,48 19,803.96 6,407.97 10,986.75	16,631.44 38,676.86 10,750.45 63,177.85 126,713.81	$\begin{array}{c} 1.184.62\\ 125,861.44\\ 18,765.01\\ 24,274.70\\ 7,336.52\end{array}$	9.457.08 11.789.89 15.355.40 15.251.15 Not Reporting	11,458.66 14,409.33 Not Reporting 21,829.63 9,454.32	24.364.74 14.242.25 15.911.21 16.756.93 11.739.82	9.417.12 47.676.32 18,558.42 14,524.03 7,206.12
21,118.98 10,466.50 13,856.86 12,521.73 18,300.20	5,811.50 14,408.64 38,511.79 35,067.11 16,370.21	$\begin{array}{c} 40.896.32\\ 41.912.20\\ 27.849.32\\ 9.885.32\\ 11.704.45 \end{array}$	20,203.07 51,(09.12 28,271.24 63,975.60 100,642.94	3,412.24 155,163.17 21,916.04 26,912.50 12,928.88	9,473.25 12,351.80 17,741.30 148,831.28	10.285.78 19.389.45 25.302.41 10.020.74	25,407,41 15,844.93 26,874.70 19,023.60 13,046.00	12.250.13 77.091.90 19.673.59 18.385.09 18.385.09 11.664.17
Elk Point, Municipal Einora, Municipal Empress, Municipal Fairview, Community Ft, McMurray, St, Gabriel's	Fort Vermilion. St. Theresa Galahad. St. Joseph's Grande Prairie. Municipal Hanna, Municipal	High Prairie, Providence High River, Municipal Innisfail, Municipal Islay, Municipal Jasper, Seton	Killam, General Lacombe, Municipal Latombe, Municipal Lan 1, Public Lathbridge, Galt	Lethbridge, Isolation Lethbridge, St. Michael's General Macleod, Municipal MacLennan, Sacred Heart Magrath, Municipal	Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, Isolation Medicine Hat, Isolation	Mundare, General Myrnam, Municipal Nordegr, General Olds, Municipal Oven, Municipal	Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's	Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougall

TABLE No. 4-OPERATING EXPENDITURES-Continued

Total Expenditure	50.105.66 118.492.64 80.519.78 60.947.67 81.161.76	48,577,94 32,073,89 54,489,39 106,377,14	49,351.88 33,071.54 24,590.67 41,435.38 98,580.54	104,965.98 76,162.89 30,511.32	\$11.924.949.73	\$ 112,314,23 20,251.43
Miscel- laneous	4,935.45 1,107.65 588.96 22,232.26	Not Reporting 1,582.82 473.90	68.10 804.57 610.36 568.04	656.10 489.46 3,917.96	\$ 369,216.56	\$ 1,212.26 Not Reporting
Interest and Exchange	1,621.81 5,890.93 1,610.05 2,572.38 4,928.21	4,635.86 1.68 5,153.85	297.21 47.89 18.00 2.932.63 8.287.96	3,878.97 64.82 4.71	\$ 226,360.79	\$ 10,460.00
Repairs and Replace- ments	$\begin{array}{c} 3,126.01\\ 2,574.35\\ 5,679.67\\ 2,590.48\\ 1,852.80\end{array}$	1,255.29 364.96 5,818.57	1,626.70 460.33 2,048.71 1,425.40 1,604.62	20,061.94 3,431.79 337.52	\$ 469,545.49	729.62
Deprecia- tion	1.000.00 6.061.83 4.918.72 2.863.34 9.644.13	7.538.05 5.027.71 5.027.71 6.726.03 10,106.03	$\begin{array}{c} 4,026.51\\ 805.47\\ 1,432.72\\ 2,639.39\\ 16,004.83\end{array}$	2.247.12 6.774.41 1.804.08	\$ 493,432.26	\$ 23,578.06 2,709.10 Not Reporting
Insurance	368.91 583.67 436.02 624.50 591.80	335.40 93.80 1.187.49	325.68 301.60 243.95 890.88	1,332.90 620.24 135.00	\$ 109,486.32	
Purchased Services	$\begin{array}{c} 1.243.52\\ 3.060.89\\ 2.351.26\\ 2.616.45\\ 4.151.51\end{array}$	1,771.06 1,047.42 2,162.21 7,168.55	$\begin{array}{c} 4,449.71\\ 1,692.09\\ 240.15\\ 2,453.07\\ 3,198.07\end{array}$	3.501.78 4.067.55 728.18	\$ 382,302.64	\$ 2,460.44
Supplies	$\begin{array}{c} 15,117.96\\ 50,288.11\\ 29,668.10\\ 20,082.91\\ 15,208.82\end{array}$	16,007.05 7.726.06 Not Reporting 16,783.72 41,302.30	$\begin{array}{c} 15,916.61\\ 13,220.57\\ 7,306.90\\ 13,523.44\\ 29,080.81\end{array}$	25.115.84 26.291.30 10.045.77	\$4,147.406.42	\$ 27,763.37 6.353.20 Not Reporting
Salaries and Wages	22,692.00 48,925.21 35,267.00 29,597.61 22,552.23	17,655.95 17,665.95 20,491.80 40,320.30	$\begin{array}{c} 22.967.04\\ 15.714.94\\ 12.632.23\\ 18.217.50\\ 38.945.33\end{array}$	48,171.33 34,423.32 13,538.10	\$5,727,199.25	\$ 48.052.36 8.887.69
Hospitals	Spirit River, Holy Cross Stettler, Municipal St. Paul, St. Theresa Taber, Municipal Three Hills, Municipal	Tofield, Municipal Trochu, St. Mary's Turner Valley, Oilfields General Two Hills, Municipal Vegreville, General	Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal	Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Total	Hospitals in operation for only part of the year: Blairmore, Crows Nest Pass Municipal (9 mos.) Bonnyville, K.H.P. (8 mos.) Coleman, Miners' Union (4 mos.)

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DEPARTMENT OF PUBLIC HEALTH

Total Revenue	41 \$ 49,985.18 27 186,755.07 58 59,924.90 57 30,638.99 29,639.41	33 22.463.98 59 22.925.88 70,713.37 mg	910.341.64 788.016.70 102.011.86		40.906.96 62 64.314.58 91 17,806.69 00 35,018.56 50 23,842.61	04 126.438.34 00 8.044.05 72 44.157.57 00 37.171.59 18 21.583.48	00 8.816.30 38 60.127.38 08 191.196.09 60 52.799.82 85 29.270.03	22 818,176-52 88 713,549-33 90 1,490,302,43 1,669,625,45 1,663,663,66
Other Revenue	\$ 198.4 132.2 66.8 3,594.5 681.9	1.263.33 788.59 Not Reporting	14.919.75	4,000.0	1,035.6 532.9 6.200.0	93,227.0 386.0 1,719.7 1,200.0 1,913.1	2,940.0 1,187.3 1,187.3 1,187.3 1,187.3 1,187.3 10,239.8	5,003.32 48,642.18 18,026.60
Out-Patient Earnings	\$ 35,925.84 767.56 2.083.35	1.215.90	9,656.00 8,893.02		3,133,63	2,607.50 922.75 117.00	894.00 943.51 3,163.49	7,127.40 25,394.18 102,945.30 2,655.06
Grants	\$ 29,856.62 11,072.60 7,618.10 14,424.48 13,970.30	10,722.95 18,364,40 5,835,20 39,950,20	313,212.31 72,645.20 27,279.16	17,929.49	$\begin{array}{c} 2.182.75\\ 40.555.43\\ 11.155.63\\ 3.847.50\\ 14.635.40\end{array}$	$\begin{array}{c} 7,233.20\\ 840.90\\ 26,141.50\\ 23,619.20\\ 2,461.90\end{array}$	2,351.15 33,734.90 90,273.80 30,086.76 9,932.35	60,739,70 84,206,10 271,180,67 203,043,28 6,406,40
Net Earnings	\$ 19,930.15 139,624.36 52,239.95 11,852.38 11,852.38	10.477.70 9.905.30 25,086.19 30.059.62 Not Reporting	587.473.33 691,558.73	127,172.38	38,724.21 19,589.90 6,118.28 24,971.06 8,410.65	23,370.60 6,817.15 6,817.15 15,373.60 12,235.39 17,208.40	$\begin{array}{c} 2.631.15\\ 24.261.59\\ 100.299.21\\ 18.324.97\\ 9.097.83\end{array}$	$\begin{array}{c} 752,433.50\\ 573,573.65\\ 1.175,700.98\\ 1.363,636.87\\ 42,602.20\end{array}$
Deductions	\$ 24.203.12 18.409.20 3.923.51 14.815.47	9.559.10 16.430.91 20.751.55	285,240.02 118,774.26	4.199.83	19,584.18 5,500.40 4,390.74 5,654.15	24,062.75 1,714.01 10.874.35 3,244.50	3,306.85 18,217.30 58,812.82 15,766.70	114.769.21 85.932.62 242.128.47 206.295.48 6.233.11
Gross Earnings	\$ 44.133.27 158.033.56 56.163.46 26.667.85 12.963.77	$\begin{array}{c} 10,477.70\\ 19,464.40\\ 41,517.10\\ 50,811.17\end{array}$	872,713.35 810,332.99	22,524.45	38.724.21 39.174.08 11.618.68 29.361.80 14.064.80	47,433.35 8,531.16 23,109.74 20,452.90	$\begin{array}{c} 5.938.00\\ 42,478.89\\ 159,112.03\\ 34,091.67\end{array}$	867,202.71 659,506.27 1,417,829.45 1,569,932.35 48,835.31
Special Services	\$ 13,889.97 26,854.91 16,320.91 5,665.95 4,159.52	5,638.18 2,157.95 5,478.45 13,990.17 Not Reporting	262,464.50 282,050.91	3.076.80 56.252.10	38,031.71 8,889.08 2,330.38 6,328.25 2,109.35	6.108.45 1.040.71 3.536.99 5.245.80	30.00 9.109.14 46.105.13 7.094.67 Not Available	228,225.46 221,678.04 446,302.95 449,971.20 12,485.86
Day Rate Services	\$ 30,243.30 131,178.65 39,842.55 21,001.90 8,804.25	4.839.52 17.306.45 36.038.65 36.821.00	610,248.85 528,282.08	19,447.65 88,854.70	892.50 30,285.00 9,288.30 23,033.55 11,955.45	41.324.90 7,490.45 19.572.75 15,207.10	5,908.00 33,369.75 113,006.90 26,997.00	638.977.25 437.828.23 971.526.50 1.119.961.15 36.349.45
Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Bonnyville, St. Louis Brooks, Municipal Cadomin, General	Calgary, General Calgary, Holy Cross Calgary, Junior Red Cross	Calgary, Salvation Army Grace Camrose, St. Mary's	Canmore, Canmore Cardston, Municipal Carnangay, Little Bow Municipal Castor, Our Lady of the Rosary Cereal, Municipal	Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal Daysland, Providence	Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal Edmonton, Beulah Home	Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University of Alberta Edson, St. John's

TABLE No. 5-OPERATING REVENUE

ANNUAL REPORT, 1949

Total Revenue	55,470.43 27,834.81 35,433.89 31,968.16 29,666.64	25,900.25 26,640.16 119,845.58 64,248.88 24,223.19	86,528.68 82,360.15 49,656.08 22,456.89 29,716.57	40.829.38 173.389.17 41.946.78 161.935.07 255,516.37	4.340.20 326,657.85 59,633.37 61.724.30 26,603.38	26,864.21 34,897.91 50,119.37 336,222.28	35.112.79 43.572.65 78.988.33 28.554.73
Other Revenue	1,762.88 17,223.26 1,026.71 30.00 4,507.24	7.186.00 139.60 21.174.72 1.552.17 1.350.00	500.00 4.827.00 249.32 375.70 7.010.58	1.046.24 69.664.70 12.196.45 2.635.37	3,148.75 1,484.76 19,523.82	4,000.00 2,703.83 236.22 890.30 Not Reporting	8.386.67 1.256.04 Not Reporting 24.736.26 804.00
Out-Patient Earnings	210.05	09.767	2,252.80 302.00 1,963.80	1,000.44 1,014.50	526.16 691.72	968.92 565.57 493.75	675.00 1,013.87
Grants	27,964.49 2,766.80 5,437.00 12,334.00 12,809.14	1,694.05 3,661.70 52,712.15 36,768.56 3,100.30	18,782,29 44,288,40 37,967,20 18,457,40 4,261,20	5.083.90 59.062.00 5.614.72 5.614.72 37,733.77	$\begin{array}{c} 894.60\\ 28.979.30\\ 26.486.30\\ 6.866.30\\ 20.786.40\end{array}$	$\begin{array}{c} 8.569.95\\ 19.844.92\\ 33.316.85\\ 59.805.40\end{array}$	3.891.30 30.641.30 24.006.70 19.591.15
Net Earnings	25.743.06 7.634.70 28.970.18 18.180.66 12.350.26	$\begin{array}{c} 17.020.20\\ 22.838.86\\ 45.958.71\\ 25.928.15\\ 18.975.29\end{array}$	64,993.59 33,244.75 11,439.56 3.321.79 16,480.99	34,699.24 43,662.03 35,317.56 137,359.32 215,147.23	3,445.60 294,529.80 31,662.13 34,808.02 5,125.26	13.325.34 11.783.59 16.072.55 275.526.58 ot Reporting	22,159.82 11,675.31 ot Reporting 29,231.50 8,159.58
Deductions	28.216.94 4.740.14 6.907.08 6.828.85 2.423.09	6.966.75 4.080.80 37.719.74 16.527.83 6.692.42	48,376.41 31,785.23 848.06 12,410.50 2,620.43	5,300.11 32,733.95 2,317.11 6,857.32 26,578.77	61.217.00 10.221.20 15.076.79 4.081.35	1.284.20 10.259.82 22.125.33 10,807.38 N	5.198.07 8.188.60 N 17.070.78 6.948.22
Gross Earnings	53,960.00 12,374.84 35,877.26 25,009.51 14,773.35	23,986,95 26,919,66 83,678,45 42,455,98 25,667.71	113,370.00 65,029.98 12,287.62 15,732.29 15,732.29	39,999.35 76,395.98 37,634.67 144,216.64 241,726.00	355.746.80 41.883.33 49.884.81 9.206.61	14.609.54 22,043.41 38,197.88 286,333.96	27.357.89 19,863.91 46,302.28 15,107.80
Special Services	$\begin{array}{c} 7,126.50\\ 1,710.59\\ 10.827.92\\ 6.983.95\\ 2.657.20\end{array}$	3,428,95 7,486,31 23,202,97 10,923,83 5,170.65	28,790.60 13,429.83 4,304.87 2,773.10 3,890.65	$\begin{array}{c} 12.751.56\\ 14.536.21\\ 9.502.27\\ 37.311.14\\ 73.140.29\end{array}$	142,941,95 4,597,83 8,672,31 2,411,65	4.607.77 2.552.38 4.207.88 73.098.91 Not Reporting	4,311.24 5,643.91 Not Reporting 8,531.68 2,251.35
Day Rate Services	46,833.50 10,664.25 25,049.34 18,025.56 12,116.15	20,558 00 19,433.35 60,475.48 31,532.15 20,497.06	84,579,40 51,600.15 7,982,75 12,959,19 15,210,77	$\begin{array}{c} 27.247.79\\ 61.859.77\\ 28.132.40\\ 106.905.50\\ 168.585.71\end{array}$	212.804.85 37.285.50 41.212.50 6.794.96	10.001.77 19.491.03 33.990.00 213.235.05	23,046.65 14,220.00 37,770.60 12,856.45
Hospitals	Elk Point, Municipal Elnora, Municipal Empres, Municipal Fairview, Community Ft. McMurray, St. Gabriel's	Fort Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie. Municipal Hanna, Municipal Hardisty, St. Anne's	High Prairie, Providence High River, Municipal Innisfail, Municipal Islay, Municipal Jasper, Seton	Killam, General Lacombe, Municipal Lac la Biche, St. Catherine's Lamont, Public Lethbridge, Galt	Lethbridge, Isolation Lethbridge, St. Michael's General Macleod, Municipal McLennan, Sacred Heart Magrath, Municipal	Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Medicine Hat, Isolation	Mundare, General Myrnam, Municipal Nordegg, General Olds, Municipal Oyen, Municipal

TABLE No 5-OPERATING REVENUE-Continued

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DEPARTMENT OF PUBLIC HEALTH

Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's	36,377.55 34,289,22 32,428,22 23,630,00 20,933.50	$\begin{array}{c} 12.574.56\\ 9.359.06\\ 10.067.02\\ 10.590.48\\ 7.419.98\end{array}$	48.952.11 43.648.28 42.492.17 34.220.48 23.353.48	25,024,29 5,282,69 19,010,55 14,329,35 4,096,67	23.927.82 38.365.59 23.481.62 19.891.13 24,256.81	26,666.35 12,642.30 42,009.80 23,883.30 4,096.40	1,379.55 2,694.62	2.018.28 1.622.00 1.824.25	52,612,45 51,007.89 68,492.97 43,774,43 32,872.08
Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougall	13.091.00 99.895.00 24.520.80 30.597.25 9.283.00	5,255,55 28,765,92 7,138,00 6,494,48 4,521,67	18,346.55 128,660.92 31,658.80 37,091.73 13,804.67	10.968.15 39.158.60 13.326.23 15.787.65 1,527.20	7.378.40 89.502.32 18.332.57 21.304.08 12.277.47	23,411,09 21,535,05 28,726,80 25,432,00 1,771,70	238.10 1,485.84 1,107.45 111.50	215.56 32.314.52 20.513.38 1.908.32 127.02	31,243.15 144.837.73 68,680.20 48,755.90 14,176.19
Spirit River, Holy Cross Stettler, Municipal St. Paul. St. Theresa Taber, Municipal Three Hills, Municipal	24.643.80 69.751.85 59.624.03 42.558.50 20.458.85	7,694.05 23,652.58 8,681.22 13,973.61 8,606.09	32,337,85 93,404,43 68,305,25 56,532,11 29,064,94	4,821.16 53,278.57 6,201.60 17,125.31 8,737.17	27,516.69 40.125.86 62,103.65 39,406.80 20,327.77	4,166,40 79,057,74 16,804,05 36,3377,35 36,3377,35 35,242,63	1,615.90	15,388,00 53,261.41 683 83 21,994,66	47,071.09 174,060.91 78,907.70 76,427.98 81,992.40
Tofield, Municipal Trochu, St. Mary's Turner Valley, Oilfields General Two Hills, Municipal Vegreville, General	26,577.75 13,461.50 22,138,65 78,466.45	10.575.31 3.032.33 Not Reporting 6.952.15 28.639.33	37,153.06 16,493.83 29,090.80 107,105.78	10.287.12 1,416.51 12,460.30 25,276.29	26,865.94 15,077.32 Not Reporting 81,829.49	24,677.72 2,158.80 42,955.45 22,105.20	957.01 1,615.80 1,040.00	Not Reporting 153.00	51,543.66 30,562.72 61,354.75 104,974.69
Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Walnwright, Municipal	39,016.75 20,694.58 10,914.75 26,044.66 54,670.30	7,971.75 5,405.19 3,624.55 8,979.00 21,116.68	46.988.50 26.099.77 14.539.30 35.023.66 75,786.98	24,313.05 15,668.07 2,110.39 20,158.45 26,411.11	22.675.45 10.431.70 12.428.91 14.865.21 49.375.87	26,528.80 19,817.80 2,524.20 29,973.60 58,104.20	595.42 908.55 3,980.84	1,718,58 865,48 1,415,81 9,807,57 6,182,02	50,922.83 31,710.40 17,277.47 54,646.38 117,642.93
Westlock, Immaculata Wetaskiwin, Community Willingdon, General	59,413.15 58,914.65 20,631.15	16.150.64 19.968.98 5.071.57	74,563.79 78,883.63 25,702.72	$\begin{array}{c} 7.566.17\\ 12.842.51\\ 3.084.35\end{array}$	67,997.62 66,041.12 22,618.37	11,644.30 8,762.60 3,516.10	1,404.83 94.25 258.28	20.414.96 32.22 10.607.00	101.461.71 74,930.19 36,999.75
Total	\$7,581,665.25	\$3,038,683.49	\$10,620,348.74	\$2,224,408.81	\$8,423,856.96	\$2,842,727.95	\$ 247,660.06	\$ 733,255.99	\$12.247,500.96
Hospitals in operation for only part of the year: Blairmore, Crows Nest Pass, Municipal (9 mos.) Bonnyville, (8 mos.) Coleman, Miners' Union (4 mos.)	\$ 38.065.23 6.672.40	\$ 84.959.80 1.963.57 Not Reporting	\$ 123,025.03 8,635.97	\$ 21,046.57	\$ 101,978.46 7.334.02 Not Reporting	\$ 6,157.90 1,176.10		\$ 62,218.14 Not Reporting	\$ 170.354.50 8,510.12

DEPARTMENT	OF	PUBLIC	HEALTH
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		Revenue per per day	\$ 6.31 7.57 5.52 6.06 8.28	7.23 7.11 3.72 7.84	7.09 7.57 5.21 6.95 6.95	20.62 7.86 7.76 5.63 8.08	12.37 3.69 6.96 7.52 5.86	6.47 7.75 7.29 7.84 6.66	6.66 7.89 8.54 9.04 5.33
		Miscel- laneous	2.7 1.1 1.1 0.7 3.0	0.9 1.7 0.6 0.9 Reporting	0.40 0.60 0.60 0.60 0.60 0.60 0.60 0.60	4116 1925 1925 1925 1925 1925 1925 1925 1925	53.8 1.8 1.5 0.7	970 971 971 971 971 971 971 971 971 971 971	0.8 3.9 1.3 1.0
		Interest and Exchange	0.0 0.1 0.5 0.5	2.0 Not Re	0.9 0.9	0.0	0.0 0.6 0.0 0.0	69 210 210 210 210 210 210 210 210 210 210	0.5 2.0 0.1 0.1
		Repairs and Replace- ments	3.0 3.5 4.6 1.8 4.6 1.8	4.1 1.6 0.8 7.2	4.1 23 09 8 0	24.6 24.6 22.5 22.5	12823 8623 862 862 862 862 862 862 862 862 862 862	181 358 181	1.7 3.8 5.0 6.0 6.0
	of Cost	Deprecia- tion	96159 96159 96159	9 9 5 5 5 6 5 6	191116	0.8 3.9 8.0	2.3 15.8 13.9 13.9	3.0 10.6 10.6	8.2 1.4 8.3
	Percentage of	Insurance	1.0 0.5 0.6 0.9	0.5 1.1 Not Reporting	00 00 00 00 00 00 00 00 00 00 00 00 00	0.6 0.7 0.4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 0.5 0.7 0.6 0.7 0.6	1.2 0.1 0.3 0.1
TABLE No. 6		Purchased Services	8.8 3.0 5.0 5.2	65.0 26.3 26.3 26.3 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	2210 224 204 204 204 204 204 204 204 204 20	14004 900908	256315	58739 5873 5873 5873 5873 5873 5873 5875 5875	212 213 211 211 211 211 211 211 211 211
L		Supplies	31.6 37.2 33.5 39.3 39.3	42.4 32.1 33.6 33.6	34.8 335.6 355.6 355.6 355.6	45.9 39.7 34.1 41.2 41.6	15.7 29.3 31.9 34.6 44.6	26.8 32.2 32.5 32.5 32.5 32.5 32.5 32.5 32.5	33.3 37.3 32.3 34.0 34.4 34.4
		Salaries and Wages	46.4 51.8 43.3 42.3 42.3	41.6 47.1 55.6 45.4 Not Reporting	53.9 657.4 657.4 47.4 47.4	38.8 46.9 46.9 42.9 42.9	24.2 54.2 35.5 29.0 29.0	29.8 38.5 36.9 36.9 36.9 36.9 36.9 36.9 36.9 36.9	52.7 40.4 53.2 45.8
		Operating Cost Per Patient Per Day	\$ 6.17 7.78 5.44 6.75 7.17	7.03 5.10 7.59	7.49 7.43 5.21 7.69	11.60 7.78 6.50 8.09	12.30 7.12 7.06 6.87 6.75	8.71 7.93 6.61 6.67	6.64 7.07 8.54 8.67 5.29
		Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Bonnyville, St. Louis Brooks, Municipal Cadomin, General	Calgary, General Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace Camrose, St. Mary's	Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary Cereal, Municipal	Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal Daysland, Providence	Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal Edmonton, Beulah Home	Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University of Alberta Edson, St. John's

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4.75 9.48 6.29 6.20	4.08 5.03 7.18 8.39 4.73	4.64 6.52 6.55 8.15 8.15	5.74 11.29 4.78 6.38 6.38	3.40 7.57 12.40 6.28 11.23		5.77 12.28 8.86 8.37	6.98 6.04 8.50 5.65	8.75 6.65 6.67 6.67 5.15 5.15
0.2 0.1 0.1 1.6	0.1 12.9 2.0 0.9	1.5 	0.8 0.2 0.9 0.9	485624 855624	1.6 6.3 0.3 Reporting	14.4 0.4 Reporting 27.0	0.3 0.3 1.3	0.6 0.6 0.1 1.3
0.1 24.3 6.7	113 016 015 015 015 015 015 015 015 015 015 015	1.7 0.4 0.1 9.5	35 4.6 0.0 0.1 0.1	2.8 0.5 0.5	0.1 9.3 0.3 Not Re	0.4 0.0 4.8 3.3	5.1 5.4 6.8 0.0	6.4 10.1 2.8 0.4
15.0 0.5 6.0	3.3 541 584 08	68 133458 1534558	3.6 0.3 8.1 3.4 6 3.4 6	5.8 5.6 6.7 0.7	23.3 1.0 1.7	4.3 7.1 6.4 6.4	2.5 11.3 12.0 13.0	110 220 38 38
611 633 633	886 2995 2995 2995	333 544 614 4.1	6.9 9.8 7.1 0.6	80.00 80.00 80.100	134 155	6.2 10.6 6.7	21 142 142 142 142 142 142 142 142 142 1	5.9 4.4 3.8 12.9
0.5 0.6 0.8 0.8 0.8 0.8 0.8	32 0.5 1.1	7.0 7.0 2.0 2.0	0.2 1.1 0.2 0.3	0 14 0 5 1 4 1 0 5 0 5 1 4 4 0 5 0 5 1 4 1 2 0 5 1 4 1 2 0 1 2 1 2	0.2 0.5 1.5 0.5 Not Reporting	0.3 0.8 Not Reporting 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.6 0.6 1.0 0.3 0.3
4.1 2.1 5.9 5.9	7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	361 361 361 361 361 361 361 361 362 363 363 363 363 363 363 363 363 363	800 80 90 90 90 90 90 90 90 90 90 90 90 90 90	7.9 8.4 4.8 4.8	3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 3.5.0 5.5.00 5.5.00 5.5.00 5.5.00 5.5.00 5.5.00 5.5.00 5.5.00 5.5.00 5.5.00 5.5.00 5.5.000 5.5.00000000	575 575 575 575 575 575 575 575 575 575	22.00 25.000	5.1 6.6 5.4 6.9
40.1 22.2 38.7 32.5	35.8 30.7 31.2 35.3 35.3	37.7 33.9 35.0 29.5 41.1	37.2 34.4 22.8 40.9 50.2	21.6 39.8 35.4 38.3 30.7	34.8 39.2 29.9 46.3	37.8 34.2 24.1 35.8	40.5 34.1 37.0 37.0 41.3	34.9 32.6 32.6 36.4 28.4 28.4 28.4
39.4 38.2 44.3 40.2	23.2 51.4 51.4 56.2 56.2	45.0 45.6 43.7	45.2 60.1 39.9 39.9	62.1 49.1 41.3 42.6 54.0	34.8 41.0 34.5 45.3 Not Reporting	33.9 46.1 Not Reporting 28.0 37.9	42.3 38.0 42.1 45.9	45.5 52.7 33.9 46.0 46.0
4.59 9.33 5.74 5.74 9.51	3.95 5.77 5.69 5.69	4.88 6.44 6.33 7.34	6.29 7.33 5.36 6.91 6.30	4.30 7.33 11.03 6.45 10.10	9.23 5.91 7.27	4.98 11.86 10.14 7.75	7.98 4.95 7.66 8.78 4.88	7.55 6.72 8.48 5.46 9.21
Elk Point, Municipal Elnora, Municipal Empres, Municipal Fairview, Community Ft, McMurray, St. Gabriel's	Fort Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Hanna, Municipal Hardisty, St. Anne's	High Prairie, Providence High River, Municipal Innisfall, Municipal Islay, Municipal Jasper, Seton	Killam, General Lacombe, Municipal Lac la Biche, St. Catherine's Lamont, Public Lethbridge, Galt	Lethbridge, Isolation Lethbridge, St. Michael's General Macleod, Municipal McLennan, Sacred Heart Magrath, Municipal	Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Medicine Hat, Isolation	Mundare, General Myrnam, Municipal Nordegg, General Olds, Municipal Oyen, Municipal	Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's	Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougall

					Percentage of Cost	of Cost				
Hospitals	Operating Cost Per Patient Per Day	Salaries and Wages	Supplies	Purchased Services	Insurance	Deprecia- tion	Repairs and Replace- ments	Interest and Exchange	Miscel- laneous	Revenue per per day
Spirit River, Holy Cross Stettler, Municipal St. Paul, St. Theresa Taber, Municipal Three Hills, Municipal	8.18 7.08 5.05 5.46 16.64	45.3 41.3 48.6 27.8 27.8	30.2 42.4 33.0 18.7	9888 19889 19889	007 010 010 010	2.0 5.1 6.1 11.9	981-98 991-98	0 1 5 0 0 5 7 9 4 5 0 0 5 7 9 4 5 0 0 5 7	9.9 0.9 0.7 27.4	7.68 10.40 4.95 6.84 16.81
Tofield. Municipal Trochu, St. Mary's Turner Valley, Oliffelds General Two Hills, Municipal Vegreville, General	7.60 10.58 9.91 6.11	35.1 55.1 Not Reporting 37.6 37.9	33.0 24.1 30.8 38.8	3.6 3.3 6.7	0.7 0.3 Not Reporting 1.1	15.5 15.7 12.3 9.5	2.6 1.1 1.8 5.5	9.5 0.0 9.5 Re	Reporting 2.9 0.5	8.07 10.08 11.16 6.03
Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal	4.88 6.14 6.91 6.95 7.90	465 475 514 39.5 39.5	32.3 40.0 29.1 29.5 29.5	3390 339 339 30 30 30 30 30 30 30 30 30 30 30 30 30	1.0 0.6 0.9	8.2 5.8 5.8 16.2	33 14 34 16	0.6 0.2 7.1 8.4	0.1 2.4 2.5 0.6	5.04 5.89 4.85 9.17 9.43
Westlock, Immaculata Wetaskiwin, Community Willingdon, General	6.76 5.40 6.08	45.9 45.2 44.4	23.9 34.5 32.9	800 44 4	1.3 0.8 0.4	6165 6165 6165	19.1 4.5 1.1	3.7 0.1 0.0	0.6 0.6 12.9	6.54 5.31 7.38
Total	\$ 7.29	48.0	34.8	3.2	6.0	4.2	3.9	1.9	3.1	\$ 8.14
Hospitals in operation for only part of the year: Blairmore, Crows Nest Pass, Municipal ((9 mos.) Bomyville, K.H.P. (8 mos.) Coleman, Miners' Union (4 mos.)	\$12.73 11.39	42.8 43.9 Not Reporting	24.7 31.4	182	Not Reporting	21.0	3.6	9.3 Not Re	9.3 6.0 Not Reporting	\$19.31 4.79

TABLE No. 6-Continued

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DEPARTMENT OF PUBLIC HEALTH

Division of Tuberculosis Control

DR. A. H. BAKER, B.A., M.B., F.R.C.P. (C), Medical Superintendent and Director, Division of Tuberculosis

The anti-tuberculosis work of this Division is so closely correlated with that of the Indian Affairs Branch of the Federal Government and with that of the Alberta Tuberculosis Association that any appraisal of the program being carried out necessarily will include due recognition of all activities. All three are co-operating in a co-ordinated effort to cover as fully as possible all phases of anti-tuberculosis work for all residents of this Province, and without duplication of services.

The work of the Division, as regards diagnosis and treatment followed the same general plan as in previous years. However, additional services were made possible under the Federal Tuberculosis Control Grant.

1. Free sanatorium treatment for non-pulmonary tuberculosis was established on February 1st. It is believed that more adequate treatment will result, since the necessary period of hospitalization will not be limited because of financial outlay. Hospital admissions numbered 119 from February 1st to December 31st; hospital patient days were 11,085. There were 36 operations performed.

2. Diagnostic Clinic Physicians: It was planned to employ two full-time physicians in clinic work. One only has been appointed owing to inability to place another physician in this work, but it is hoped that the full programme may be carried out next year.

3. Free Streptomycin: This anti-biotic, along with paraminosalicylic acid (PAS), has been made available to all sanatorium patients needing the same. This new treatment, while not a cureall, has proven to have real value. Lives are saved. Recovery takes place more frequently and apparently in less time. Surgical procedures are undertaken, which without these drugs, would be contraindicated.

4. Sanatorium affiliation with training schools for nurses: Affiliation was brought about with four hospitals, the Galt in Lethbridge, the Medicine Hat General Hospital, the Holy Cross in Calgary, and the Lamont General Hospital. Six courses of eight weeks' duration have been given to groups of eight affiliates. A full-time instructress has been appointed. Lectures and demonstrations are given in all phases of sanatorium treatment. It is believed that this experience has been found well worth while by the affiliates. A number of these nurses, upon graduation, have returned to the Sanatorium to work.

5. Portable clinic equipment has been provided and is available for use in the Province.

6. Travelling X-Ray Technician Instructor: This one project has yet to be implemented, when a suitable appointment can be made. 7. Improvement in Sanatorium Libraries: The libraries in Edmonton and Calgary have added useful reference books and journals.

8. Equipment, Central Alberta Sanatorium: Certain technical equipment has been procured.

9. Technical Equipment, Wm. Aberhart Memorial Sanatorium: A large part of this equipment is now in storage in Edmonton, awaiting the completion of this building.

10. Technical Equipment for Diagnostic Clinic, Central Alberta Sanatorium: A part has been procured, the rest will be made available next year.

William Aberhart Memorial Sanatorium Cornerstone Laying

This ceremony, which marked an important event in the tuberculosis programme of the Province, was held on October 14th. It was most fitting that the cornerstone was laid by Mrs. William Aberhart, who very kindly came to Edmonton for the occasion. A large and representative gathering was present.

The Honourable the Premier Mr. E. C. Manning was Chairman and in his remarks paid tribute to the anti-tuberculosis programme of the Province.

Tea was served in the Nurses' Home of the University Hospital.

New Construction at Central Alberta Sanatorium

The New Recreation Building at the Sanatorium was opened for use September 26th. The auditorium accommodates 300 people, and is attractive in appearance. Two new movie projectors and new screen were presented to the Sanatorium by the Entertainment Committee. The Alberta Tuberculosis Association donated 250 folding metal chairs, the stage and window drapes, and the equipment in the Occupational Therapy rooms. This building, with its equipment, is a credit to the institution. The facilities for handicraft work and for recreation will add much to sanatorium life.

The Chapel was opened for its first religious service October 30th. We are indebted to the Alberta Tuberculosis Association for the furniture in the sanctuary. This gift stands as a memorial to Mr. E. C. Shaughnessy and Mr. W. Way, two of the founders of the Alberta Tuberculosis Association in 1939. Grateful acknowledgment is made of the gifts of Mrs. J. H. Woods and of the Samaritan Club to help in furnishing this place of worship. Religious services are much appreciated by both patients and staff, and it is with real satisfaction that fitting accommodation is now offered.

The Girls' Home—Modern, comfortable quarters became available with the completion of this building in July. Fifty-five girls can now be accommodated. Good living conditions have resulted in greater contentment and less change of staff.

The Workshop—The completion of this building provided, for the first time, adequate shops for the painter, carpenter, plumber and electrician. This institution comprises some thirty building structures, with diversified types of equipment, all of which require maintenance work.

The construction of a duplex home for two physicians was undertaken in the Fall. Experience has shown that provision of housing accommodation is an essential if a medical staff is to be maintained at the Calgary Sanatorium. The inducements of private practice, added to the inconvenience of living ten miles away, deprives the Sanatorium of physicians who otherwise are willing to engage in tuberculosis work.

Diagnostic Services

Clinics operated by the Division of Tuberculosis conducted 8,411 examinations.

Mobile X-ray units X-rayed 73,022.

X-ray films submitted by physicians and hospitals for interpretation numbered 7,575.

All told, the Provincial Government supplied some form of diagnostic service to some 89,000 people.

Surveys including general hospital admissions, tuberculin testing and X-raying, sponsored by the Alberta Tuberculosis Association and carried out at 36 hospitals, numbered 24,616. Abnormal films were referred to sanatorium physicians for reading.

The Indian Affairs Branch surveyed 10,120, an increase of 2,437.

In summary, it may be said that approximately 124,000 residents of Alberta received some form of free diagnostic service.

The large decrease in Mobile Unit examinations was due to a shorter season, and to the fact that the points visited had smaller populations, necessitating more frequent moves.

Through the courtesy of the Indian Affairs Branch, 694 residents of northern portions of the Province were X-rayed by their X-ray unit travelling by aeroplane. In this way, the Division has been able to supply a degree of diagnostic service to people living in more sparsely settled districts.

After excluding the work of the Indian Affairs Branch, which is listed separately, we find that new cases of tuberculosis discovered were as follows:

Active Pulmonary Tuberculosis	361
Inactive Pulmonary Tuberculosis	418
Active Non-pulmonary Tuberculosis	98
Inactive Non-pulmonary Tuberculosis	4
Total	881

ALBERTA INDIAN SURVEYS CONDUCTED BY DR. H. MELTZER CHARLES CAMSELL INDIAN HOSPITAL, EDMONTON, ALBERTA (Department of National Health and Welfare)

Agency	Date 1948	No. X. Ind.	-Rayed White		nonary erculosis Inactive		ilmonary rculoses Inactive	Indians tub. adm. to Chas. Camsell, 1948
		1399	299	38	166	2	1	29
Athabasca	June		233			2	1	
Blackfoot	April	674	4	11	64		1	6
Blood	June	1084	9	16	85			18
Edmonton	June	172		8	47			30
APRILIO TEOPT	Aug.	735	10	13	61			
Fort Vermilion	Aug.	712	3	26	200			11
	Taalar	1297	31	13	146			29
Hobbema		413		12	91			25
Lesser Slave Lake	Aug.			24	68			
	May	728	267			9	****	****
	Sept.	110	5	5	41		-7**	****
Peigan	April	563	21	9	34		· 1	8
Saddle Lake	Tuly	965	19	18	79		1	17
C	June	117	8		19			3
	April	457	18	10	22			11
Stony	mpin	101	10	10				
		9426	694	203	1123	5	4	187

The Department of Indian Affairs conducted 15 surveys or clinics, at which 10,120 persons were X-rayed. There were 185 new active pulmonary tuberculosis cases and 44 new active non-pulmonary tuberculosis cases discovered through this service.

There were 15 whites from the Northwest Territories admitted to Charles Camsell Indian Hospital suffering from active tuberculosis. Of these cases, 14 were pulmonary and 1 was nonpulmonary.

D.V.A. patients treated in Charles Camsell Hospital were 61. Admissions were 21.

Treatment Services

Total sanatorium admissions were 650, an increase of 217 over last year.

Total number of in-patients treated 1,030, an increase of 217 over last year.

Forty-one out-patients received pneumothorax treatments at some fourteen points throughout the Province.

On October 23rd a Children's Ward was opened at Central Alberta Sanatorium with accommodation for 12. It has been occupied to capacity; types of cases under treatment are pulmonary, bone and joint, and meningeal.

The surgical treatment of both pulmonary and non-pulmonary types of disease is extensively used. Details of the volume and nature of the work will be found in the statistical section of this report. Where necessary, the services of specialists are employed and remuneration made according to agreement with the College of Physicians and Surgeons of Alberta.

Training of Nurses

In addition to the 48 undergraduate affiliates who served at the Sanatorium, a course was offered to graduate nurses. Fourteen engaged in post-graduate work.

Nurses aides also received training in tuberculosis work. Twentyeight aides were enrolled.

Auxiliary Services

The Sanatorium schools in Edmonton and Calgary have carried on a splendid work under well-qualified and devoted teachers. Public school, high school, University and commercial studies are carried on.

The Occupational Therapy Departments are very active. Over 200 patients are always taking advantage of this work.

The Rehabilitation Branch continues to survey all patients and to give guidance and help in preparation for the day when they are able to be discharged.

Acknowledgments

The tuberculosis death rate among Indians is some twenty times that of the rest of the population. It is therefore apparent that this load of an infectious disease is of significant concern to the Province. It is a pleasure to give credit to the Indian Affairs Branch for maintaining diagnostic and treatment services which compare most favourably with those of this Division. The improvement in this disease situation among the Indians will undoubtedly result in further improvement in the rest of the population.

The Alberta Tuberculosis Association completed a year of activity in which much was done to assist in the general programme of anti-tuberculosis work. Some of their activities are as follows: assistance in organizing Mobile X-ray clinics; rehabilitation in Edmonton and Calgary; donations of equipment in Edmonton and Calgary; province-wide publicity and education, through newspapers, radio and movies; scholarships for medical students to encourage study of tuberculosis; assistance to full-time physicians and nurses engaged in tuberculosis work to encourage post-graduate study; essay contests among public and high schools; a campaign to give chest X-rays to all general hospital admissions; social work among tuberculosis families; full-time tuberculosis nurses in Edmonton and Calgary.

Last year thirty-five general hospitals X-rayed the chests of 14,730 patients admitted. The object in this admission X-ray is not only the discovery of tuberculosis for the patient's benefit, but also to allow greater protection of the staffs from unnecessary gross exposure.

The Department of Veterans Affairs has extended the benefits of treatment to a large group of ex-service personnel. To this extent the Province benefits, since the cost of treatment is borne by Federal authority.

Staff

The maintenance of an adequate nursing service has been less difficult than formerly, partially due to the number enrolled in our teaching courses as well as the return of some nurses after graduation.

The medical staff is still not complete because of inability to procure physicians.

The domestic and general staff situation has been more satisfactory than for some years.

Retirement of Col. E. R. Knight, Business Superintendent: Col. Knight retired September 30th after 29 years at Central Alberta Sanatorium. His combined service in sanatorium work in Alberta was over thirty years, he having started at the Military Sanatorium at Frank. Throughout all these years he was a loyal, conscientious and efficient member of the staff. A farewell party and presentation on September 26th very fittingly was the occasion of the opening of the new recreation building.

An Aggressive Programme is Still Essential

Alberta, in common with other provinces, realized a remarkable decrease in tuberculosis deaths during 1948. It now appears, from preliminary figures, that 1949 will show a further decrease in mortality from this disease. This is very encouraging, and is no doubt due in no small measure to the Province-wide campaign for discovery of new cases through the examination of thousands of people; to this is added much more effective treatment, so that recovery takes place in more people; and at the same time, more and more people are treated at an earlier stage of disease, when recovery is much more certain.

It must be emphasized, however, that the time has not yet arrived when anti-tuberculosis efforts can be reduced, since more tuberculous people are being found through the aggressive preventive measures, as is evidenced by the larger number of sanatorium admissions. There is good reason to believe that before too long the incidence of tuberculosis will be materially reduced, provided every effort is made in the preventive work.

Administration

These figures refer to the fiscal year ending March 31st, 1950, whereas those in the balance of this report are for the calendar year 1949.

Gross operating cost—Central Alberta Sanatorium Revenue	10	2.808.56 8,279.10
Net cost—Central Alberta Sanatorium	35	4,529.46 5.62 4.41
Hospital cost_Edmonton and elsewhere	31	35,030.97
Revenue Net cost—Edmonton and elsewhere		7,706.38
Cost of Clinic Service:		
Treatment—Out-patient Pneumothorax \$ 4.818.3	50	
Mobile X-Ray Units 20,151.0 Other Diagnostic Services 14,103.0	03	
	- :	39,072.62
Gross expenditure by Province	\$9	06,912.15
Cost of projects under the Federal Tuberculosis Control Grant are in the above figures.	not i	ncluded
Patient Days:		
Pulmonary Tuberculosis:	5.098	
Pulmonary Tuberculosis: Central Alberta Sanatorium Edmonton General Hospital	2,091	
Pulmonary Tuberculosis: Central Alberta Sanatorium 88 Edmonton General Hospital 44 Royal Alexandra Hospital 11	2.091 1.002	i then i
Pulmonary Tuberculosis: 8 Central Alberta Sanatorium 8 Edmonton General Hospital 4 Royal Alexandra Hospital 1 University Hospital 1	2.091 1.002 6.162	i Almič AT
Pulmonary Tuberculosis: 8 Central Alberta Sanatorium 8 Edmonton General Hospital 41 Royal Alexandra Hospital 11 University Hospital 11 Other Hospitals 11	2.091 1.002 6.162 1.711	in all
Pulmonary Tuberculosis: 8 Central Alberta Sanatorium 8 Edmonton General Hospital 4 Royal Alexandra Hospital 1 University Hospital 1 Other Hospitals 1	2.091 1.002 6.162	147 264
Pulmonary Tuberculosis: 88 Central Alberta Sanatorium 84 Edmonton General Hospital 44 Royal Alexandra Hospital 11 University Hospital 11 Other Hospitals 12 Reciprocal Agreements	2.091 1.002 6.162 1.711	147,264
Pulmonary Tuberculosis: 8 Central Alberta Sanatorium 8 Edmonton General Hospital 44 Royal Alexandra Hospital 1 University Hospital 1 Other Hospitals 1 Reciprocal Agreements - Non-Pulmonary Tuberculosis: -	2.091 1.002 6.162 1.711	147,264
Pulmonary Tuberculosis: 88 Central Alberta Sanatorium 88 Edmonton General Hospital 44 Royal Alexandra Hospital 11 University Hospital 11 Other Hospitals 16 Reciprocal Agreements 7 Non-Pulmonary Tuberculosis: 7 Central Alberta Sanatorium 7	2.091 1.002 6.162 1.711 1.200	aubars
Pulmonary Tuberculosis: 88 Central Alberta Sanatorium 88 Edmonton General Hospital 44 Royal Alexandra Hospital 11 University Hospital 11 Other Hospitals 12 Reciprocal Agreements - Non-Pulmonary Tuberculosis: - Central Alberta Sanatorium -	2.091 1.002 6.162 1.711 1.200 4.546	147,264
Pulmonary Tuberculosis: 88 Central Alberta Sanatorium 88 Edmonton General Hospital 44 Royal Alexandra Hospital 11 University Hospital 11 Other Hospitals 12 Reciprocal Agreements - Non-Pulmonary Tuberculosis: - Central Alberta Sanatorium -	2.091 1.002 6.162 1.711 1.200 4.546 9.131	aubarg

Recommendations

It is desired to make the same recommendations as last year:

- 1. The speedy completion of the William Aberhart Sanatorium.
- 2. The construction of a building for nurses and female domestic staff at this new Sanatorium.
- 3. The construction of a laundry at the new Sanatorium.
- 4. An addition to the Administration Building at Central Alberta Sanatorium to provide adequate Operating Room facilities, extension of X-ray Department, and provision of adequate room and facilities for the hundreds of people coming for diagnosis. This is an urgent and vital matter, if the scope of the Tuberculosis Act is to be realized.
- 5. Improved transportation facilities from Calgary to the Sanatorium. This will involve the improvement of the road from the Bowness highway to the Sanatorium.
- Co-operation with the general hospitals and the Alberta Tuberculosis Association in promoting the X-ray chest examinations of all hospital admissions.
- 7. The salary schedule, especially of technical staff, needs revision.

Acknowledgments

It is a pleasure to express my deep appreciation of the great assistance given by the Honourable Dr. W. W. Cross, Minister of Health, and by Dr. M. R. Bow, Deputy Minister.

Grateful acknowledgment is made of the many kind acts of friends and organizations throughout the Province in providing entertainment and comforts for the patients.

To Mr. E. L. Appleby, Chief Engineer, and his staff, I extend my thanks for another year's splendid co-operation in maintaining Sanatorium services.

I wish also to thank every member of the staff, both in Edmonton and Calgary, for their splendid assistance and interest in carrying on the anti-tuberculosis work of the Division of Tuberculosis Control.

DIAGNOSTIC CLINIC REPORT

	essions	New C Tuberc Pul. No	Cases culosis on-Pul.	New		
Place	of Se	ve	ę	umber xams.	umber eview xams.	-
STATIONARY CLINICS:	No. 0	Activ	Active	Numbe	Num Revi	Total
Calgary Camrose	50 4	32		178 21	206 35	384 56
Central Alberta Sanatorium	102 12	36	3	1049 141	1725 125	2774 266
Edmonton Lethbridge	104	150	13	1878 150	2067 181	3945 331
Medicine Hat Red Deer	10 6	6 5	1	145 152	148 103	293 255
Stettler Vegreville	$\frac{1}{4}$	2		11 33	45	$\frac{11}{78}$
Total	297	213	17	3758	4635	8393
TRAVELLING CLINICS:						
Barrhead	1			14	4	18

In addition to these 230 new cases of active Tuberculosis, there were also discovered 507 new cases of inactive Tuberculosis.

TUBERCULIN TESTING AND X-RAY SURVEYS

(Conducted by Public Health Nurses , Teachers, Business Firms, Hospitals, etc.)

(conducted by 1 done median mulses , rec	teners, Dusmess Firms,	mospitals, etc.)
	Number Tested	Number X-Rayed
Central Alberta Sanatorium		268
		1
Blood Transfusion Service Faculty of Education, Calgary Charles E. Frosst & Co. Staff		7
Faculty of Education, Calgary	215	13
Charles E. Frosst & Co. Staff		4
Medicine Hat Seal Survey		40
Student Nurse Aides	209	209
Edmonton District	199	69
*Banff-Mineral Springs Hospital	374	89
Barrhead-St. Joseph's Hospital	34	34
Beaverlodge, Municipal Hospital	160	20
Barrhead-St. Joseph's Hospital Beaverledge, Municipal Hospital Calgary, Holy Cross Hospital	100	1664
Castor, Our Lady of the Rosary Hospital	469	20
Castor, Our Lady of the Rosary Hospital Cardston, Municipal Hospital	734	97
Cold Lake, John Neil Hospital	77	
Consort Municipal Hospital	46	53
Cold Lake, John Neil Hospital Consort, Municipal Hospital Daysland, Providence Hospital	50	7
Didsbury, Municipal Hospital	143	6
Daysland, Providence Hospital Didsbury, Municipal Hospital Drumheller, Municipal Hospital	2206	190
Eckville, Municipal Hospital	282	23
Education Devel Alexandre Tremital		6922
Fairview, Community Hospital Hanna, Municipal Hospital Hardisty, St. Anne's Hospital High River, Municipal Hospital Innisfail, Municipal Hospital Islay, Municipal Hospital	94	4
Hanna, Municipal Hospital	403	43
Hardisty, St. Anne's Hospital	130	7
High River, Municipal Hospital	680	25
Innisfail, Municipal Hospital		23
Islay, Municipal Hospital	67	2
Lac La Biche, St. Catherine's Hospital	192	20
		19
Lamont, Public Hospital		2180
Lethbridge, St. Michael's Hospital		2254
Mundare, General Hospital	45	4
Oyen, Municipal Hospital	68	4
Peace River, Municipal Hospital	201	20
Lacombe, Municipal Hospital Lamont, Public Hospital Lethbridge, St. Michael's Hospital Mundare, General Hospital Oyen, Municipal Hospital Peace River, Municipal Hospital Ponoka, Municipal Hospital Raymond, Municipal Hospital Red Deer, Municipal Hospital	159	15
Raymond, Municipal Hospital	85	2
Red Deer, Municipal Hospital	590	200
Three Hills Municipal Hospital	155	18
Tofield, Municipal Hospital	66	9
Vegreville, General Hospital Viking Municipal Hospital Wataekiwin Community Hospital	1091	135
Viking Municipal Hospital	118	10
Wainwright, Municipal Hospital	325	35
wetaskiwin, Community nospital	399	
Westlock, Immaculata Hospital	924	10
	11,305	14,730

*All points listed after this signal refer to persons patch tested and/or X-rayed upon admission to hospital. This service is under the sponsorship of the Alberta Tuberculosis Association.

N.B.—Total number of persons receiving service through Surveys is 24,616, i.e., number tuberculin tested plus those X-rayed without having been previously tuberculin tested as shown in table above.

MOBILE UNIT SURVEYS

	No.		No.
	X-rayed		X-rayed
Alix		Leslieville	
Athabasca	476	Morrin	
Alberta Nitrogen Plant, Calgary		Morinville	
Barrhead		Newbrook	
Beaverlodge		Oliver Mental Hospital	
Bentley		Pickardville	
Benalto		Plamondon	
Cambria		Red Deer	
Camrose (Rosehaven)		Red Deer Prov. Training School	
Castor	1144	Rimbey	
Chauvin	1066	Rocky Mountain House	1871
Clyde	549	Rosedale	629
Coronation	1007	Ryley	
Debolt		St. Albert	
Delia		Sexsmith	
Drumheller	4134	Smith	
East Coulee	1221	Stettler	3717
Eckville	1319	Sylvan Lake	
Edgerton	816	Tangent	
Flatbush	479	Tawatinaw	
Fort Assiniboine	. 423	Tofield	1869
Grande Prairie	2396	University Hall	
Grassland	654	Valleyview	
Hanna	2066	Viking	
Holden	1336	Wainwright	2063
Hythe	1123	Wayne	261
Innisfail	2666	Wembley	662
Irma	782	Westlock	1240
Jarvie	766	Winfield	1903
Lacombe	2436		
Lac La Biche	2398		73,022
Legal			

SUMMARY

No. X-rayed Probable Tub.: Active	60(3)	Non-Tub. Parenchymal or Hilar Calc Pleurisy:	
Inactive Adm. Adv. Adm. Further examination	34 32	Active Inactive No disease	476

Figures in brackets denote tuberculosis cases previously discovered-these are included in immediately preceding figure.

SUMMARY-CLINICS AND SURVEYS

	No. Sessions	Total No. Exams.
Stationary Clinics	297	8,393
Travelling Clinics	1	18
Surveys (all types) Indians (work done by Department National	43	24,616
Health and Welfare)	15	10,120
Mobile Unit Surveys	60	73,022
	416	116,169

SOURCES OF DISCOVERY OF NEW CASES OF TUBERCULOSIS (Indians excluded)

Clinics Referred for admission by family physicians Surveys Referred by D.V.A. Provincial Laboratory Staff, Central Alberta Sanatorium	1948 636 141 2 22 11	% 76.5 17.0 .2 2.6 1.3	1949 622 226 5 6 3	% 70.5 25.6 .8 .7 .3
Other sources	19	1.9	19	2.1
	831		881	

N.B.—Mobile Unit data not included in above table as Mobile Unit diagnoses only tentative. When established these diagnoses are included in one of above classifications.

CLASSIFICATION OF 881 NEW CASES OF TUBERCULOSIS

(all forms)

lane	
Active pulmonary tuberculosis Inactive pulmonary tuberculosis Active non-pulmonary tuberculosis Inactive non-pulmonary tuberculosis	361 418 98 4
	881

CLASSIFICATION OF 779 NEW CASES OF ACTIVE AND INACTIVE PULMONARY TUBERCULOSIS (Indians not included)

Minimal	415	53.4
Moderately advanced	192	24.5
Far advanced	58 70	7.6
Primary		8.8
Tuberculosis pleurisy with effusion	44	5.6
	779	
Number of non-residents diagnosed as having tuberculosis	10	
Examination of known contacts of newly discovered cases of tuberculosis	1752	
Number of known contacts examined	1251	71.4
TUBERCULIN MAILING LIST, 1949		
Clinics and Health Units		. 12
Hospitals		. 9
Miscellaneous		. 14

13

1,030

to the above the f	following were	sent in respon	ise to	requests
Dilution No. 4 Dilution No. 3			232	bottles
Dilution No. 2 Dilution No. 1				bottles bottles
Patches			263	

INSTITUTIONAL REPORTS

B

	Central Alberta Sanatoriu	Edmonton General Hospital	University of Alberta Hospital	Royal Alexandra Hospital	Others
Patients under treatment Jan. 1, 1949 Patients admitted Patients transferred in	210 235 24	122 289 36	19 39 21	29 77 5	2 10
Total treated	469	447	79	111	12
Discharged and died Patients transferred out	211 4	275 50	43 8	60 21	83
Total discharged	215	325	51	81	11
Patients under treatment Dec. 31, 1949	254	122	28	30	1
Patient days, 1949 (cəlendar year)	87,674	47,369	9,730	11,059	1,960
No. patients under treatment Jan. 1, 1949 No. of admissions during 1949					380 650

Total treated

DIAGNOSIS OF 650 PATIENT ADMISSIONS

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Non-tuberculous	13	6	19
For diagnosis	6	30	36
Pleural Effusion	6	26	32
Tuberculosis, Inactive	2	3	5
Primary tuberculosis	11	18	29
Non-Pulmonary Tuberculosis	33	86	119
Pulmonary tuberculosis active:			
Minimal	45	54	99
Moderately advanced	60	125	185
Far advanced	57	64	121
Miliary	2	1.	3
Silico tuberculosis		2	2
	235	415	650
N.B.—General Section admissions are in- cluded in the above.			
Number with positive sputum on admission. Number with negative sputum on admission,	75	97	172
positive later	20	9	29
Number persistently negative	140	309	449
Of the above 650 admissions, re-admissions	235	415	650
were	55	77	132

Of the above 650 admissions 19 were both admitted and re-admitted during 1949—i.e., 631 individuals were admitted during 1949.

In addition to the above there were 1.293 patient days in other provinces under reciprocal agreement. Number of patients, 7.

Total institutional patient days' including 1.293 paid for in other provinces under reciprocal agreement, 159.085.

Number of institutional patient days provided for non-residents under reciprocal agreements, 618. Number of patients, 7.

OPERATING ROOM REPORTS

	-	onno				
	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University of Alberta Hospital	Others	Total
THORACOPLASTY:				Роц	~	
	89		2			00
Number stages Number of cases	45		3			92 46
Number of revisions	10					10
	10					10
Pneumolysis, closed	32	30				62
Phrenicophraxis	10	17	2			29
Thoracoscopy		13				13
Aspiration, pleural	340	38	4		****	382
Aspiration, other	95	14				109
Instillation gomenal Bronchoscopic examination	17 2	2		3	1110	17
Bronchoscopic examination Lipiodol, chest sinus	2		1112	1000	****	2
Rib resection	6					6
Spinal fusion	2	4		1		7
Nephrectomy	4	5	1	î	1	12
Nephro-ureterectomy		1				1
Pyelonephrolithotomy orchidectomy vasec-						
tomy		1				1
Cystoscopic examination	6	5	1			12
Proctoscopy	4				++++	4
Excision tuberculous sinus	1				++++	1
Excision tuberculous cyst from hip Removal tuberculous cervical gland	1		1	****	1000	2
Lumbar puncture	93	193			1	287
Intercostal drainage	2					2
Intracavity pressure	1					1
Implantation Cortate pellets	1	1				2
Wound closure and drainage	2					2
Suprepubic drainage-abscess	1			****		1
Abdominal drainage extra peritoneal abscess	1					1
Removal cyst from face	1		****	1	****	1
Removal cyst on neck Plaster cast	21	15	2			38
Repair abdominal wound		2				2
Radical mastectomy		1		****		ĩ
Biopsy-skin of ankle		1				1
Tonsillectomy			1			1
Arthrodesis sacro-iliac		2	****			2 1
Arthrodesis ankle		1				1
Arthrodesis ankle and subastragaloid joint		1				1
Arthrodesis knee		2		1		32
Arthrodesis hip Excision great trochanter		1	****		1	ĩ
Drainage knee abscess		2				2
Cystic cavity excision			1			ĩ
Exploratory laparotomy			î		1	2
Intestinal resection		1	****		1	2

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	Total
Summary of Pneumothorax Cases:	155	120	10	285
Under treatment Jan. 1, 1949 New cases started during 1949	56	60	10	126
No. cases under treatment an admission	10	12	1	23
	221	192	21	434
at a strengthered	66	81	8	155
Number cases discontinued Number transferred out of Alberta Number transferred to other sections of	3	2	1	6
Number transferred to other sections of Division	23	4	2	29
	92	87	11	190
Under treatment December 31, 1949	129	105	10	244
Unsuccessfully attempted	14	15	2	31
Refills:				FOFF
Resident	3302	2294	361 32	5957 4139
Out patient	1988	2119	32	4139
Total	5290	4413	393	10,096
				-

In addition to the above, 585 pneumothorax refills were given to 41 ex-sanatorium patients at the following points: Beaverlodge, Drumheller, Elk Point, High Prairie, Lacombe, Lamont, Lethbridge, Medicine Hat, Peace River, Ponoka, Provost, Red Deer, St. Paul, Wainwright. Summary Pneumo-Peritoneum Cases:

Summary Pneumo-Peritoneum Cases: Under treatment Jan. 1, 1949 New cases started during 1949	27	4 20		6 27
Cases discontinued	5	9	****	14
Under treatment December 31, 1949	4	15		19
Number of refills	171	395		566

X-RAY DEPARTMENT REPORT

	Central Alberta Sanatoriu	Edmonton General Hospital	Royal Alexandra Hospital	University of Alberta Hospital	Total
RADIOGRAPHS MADE:					
Thorax Spine Pelvis	5,113 85 19	4,808 23 15	200 4 1	127 6	10,248 118 35
Knee	5	10			15
Skull	1 3	2			1 8
Sinuses	43	12	32		57
Shoulder	20	2			22
Hand	9	3			12
Wrist	2			****	$^{2}_{1}$
Arm	1				1
Elbow Saara Ulaa	25	1		++++	3 5
Sacro-iliac Hips	7	1		1	9
Femur		î			ĩ
Ankles	7	6			13
Feet	2	2			4
Ribs	3	****			3
Nasal bones and orbits			1		1 12
Bronchogram	4	7 4	1	1	12
Abdomen Gall Bladder	23	2	1		6
Gastro Intestinal Tract	11		î		12
Kidneys, ureters, bladder	5				5
Intravenous pyelogram	20	15	4		39
	5,372	4.914	218	135	10,639
FLUOROSCOPIC EXAMINATIONS:					
Thorax	6,380	5,175	336	29	11,929
Gastro Intestinal Tract	11	66	3	1	81
	6,400	5,241	339	30	12,010
Films releared for Interpretation	3,043 13	4,532			7,575
Cardiogram	4	1	1	1	6

LABORATORY REPORTS

		Central Alberta Sanatorium			Edmonton General Hospital	Royal Alexandra Hospital	University of Alberta	
SPUTUM EXAMINATIONS:	In Pts.	Out Pts.	Staff	Total	Edmo Gene Hosp	Roya Alex Hosp	Univ of Al	Total
Positive	973	85		1.058	647	189	82	1,976
Negative	1.741	616		2.357	992	518	125	3.992
URINE EXAMINATIONS	3,583	121	20	3,724	897	686	159	5,466
BLOOD EXAMINATIONS:								
Blood count	737		48	785	1,335	103	11	2.234
Sedimentation	597	522		1,119	768	199	85	2.171
Blood sugar	13 10			13	46	8	1	68
Non-protein nitrogen Urea-nitrogen	11			10 11		****		10
Bleeding, clotting, typing	45			45				45
Packed Cell Volume	10			10				10
MISCELLANEOUS:								
Pleural fluid (figures for C.A.S. included in "others")					20			20
Gastric lavage	17				124	2		143
Gastric analysis					8	2	1	11
Guinea pig inoculation	120	119		239	76		5	320
Spinal fluid	63	****		63	231			294
Others	57 277			57 277	37 172	34		94 483
WASSERMAN REPORTS:								
Positive	10			10	3			13
Negative	262			262	151			413
	8,509	1,480	68	10,040	5,507	1,741	469	17.774

HELIOTHERAPY REPORT

	Central Alberta Sanatorium	Edmonton General	Total
Patients treated	14 836	60 490	74 1,326
Number of treatments	000	430	1,020

DENTAL REPORT

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra	Total
Number of patients	179	126	48	353
Number of treatments	149	356	97	602
Number prophylactic treatments	184	15	16	215
Number of fillings	444	189	62	695
Number of extractions	283	147	13	443
Number new dentures and repairs	44	7	6	57

CLASSIFICATION OF 597 DISCHARGED PATIENTS:

	0.0	Admission.		lence		On I	Discha	arge	
	On	No.	31 days or less	31 days	AA.	Q.	I.	U.	D.
1.	For diagnosis	68	47	21					
2.	Primary tuberculosis Re-infection type pulmonary tuberculosis clinical:	20	8	12	2		16		2
	Minimal	71	12	59	10	14	42	5	
	Moderately advanced		21	74	6	11	64	59	5
	Far advanced	10	2	8		1	7		2
	Re-infection type pulmonary tuberculosis bacillary:								
	Minimal	4		4			3	1	
	Moderately advanced	104	10	94		20	69	8	7
	Far advanced		10	122		24	58	10	40
	Miliary		1						1
4.	Tuberculous pleurisy	18		18		3	15		
5.	Non-pulmonary tuberculosis	74	28	46	2	2	60	6	4
	Total active tuberculosis	529	92	437	20	75	334	39	66
	Total treated			458	9	69	292	29	38
	Total untreated		139		11	6	42	10	23
	Grand Total	597	139	458	20	75	334	39	66

Explanation of abbreviations and terms used: The standard classification is that of the National Tuberculosis Association: "Minimal", "Moderately advanced", and "Far advanced" refer to the 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".

CLASSIFICATION ON ADMISSION OF 597 DISCHARGED PATIENTS:

and a second and a second as	Central Alberta Sanatorium	Edmonton Sanatoria	Total
For diagnosis	22	46	68
Primary tuberculosis Pulmonary Tuberculosis, active	6 167	14 250	20 417 18
Tuberculosis pleurisy Non-pulmonary tuberculosis	16	58	74
tion parameters	215	382	597
			And and a second

DIAGNOSIS ON DISCHARGE OF 68 PATIENTS ADMITTED FOR DIAGNOSIS:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Tuberculosis	1	11	12
Primary healed		3	3
Non-tuberculous pleurisy	4		4
Non-tuberculous pulmonary abscess	1	2	3
Bronchiectasis	1	4	5
Non-tuberculous cystic diseases		1	Ê
Non-tuberculous pneumonia		1	0
Non-tuberculous pulmonary fibrosis		1	1
Pulmonary infarct		1	1
Silicosis			
Non-tuberculous upper respiratory in- fection	the second of the	orta Manada ang	1
Pneumonitis		2	2
Asthma		1	1
Non-tuberculous debility	1		1
Non-tuberculous csteomyelitis of pub with abscess	is 1		1
Non-specific osteomyelitis	1	****	1
Rheumatic spondylitis		1	1
Arthritis		1	1
Carcinoma suspect		2	2
Carcinoma of pancreas with seconda	iry		
to liver			
Thyroid		1	1
Anaemia		1	1
Mal-development		1	1
Non-tuberculous adenitis		1	1
No disease	1	8	2
Undiagnosed		3	0
		10	68
	22	40	00

CLASSIFICATION ON DISCHARGE OF 437 TREATED CASES OF ACTIVE TUBER-CULOSIS AND TUBERCULOUS PLEURISY:

	On Discharge					
On Admission:	Number	Improved	Unimproved	Died		
Minimal	63	57	6			
Moderately Advanced	168	144	16	8		
Far Advanced	130	85	10	35		
Primary	12	12				
Miliary		0.0	6			
Non-Pulmonary Tuberculosis	46	36	0			
Tuberculosis Pleurisy	18	18	1			
	437	352	38	47		
	401	004				
SEX: Male Female	Sanat	Alberta orium 101 114 215	Edmonton Sanatoria 164 218 382	Total 265 332 597		
SOCIAL STATUS:						
Single		91	188	279		
Married		113	167	280		
Divorced		1	3	4		
Widowed		8	17	25 9		
Separated		2	'	9		
		215	382	597		
			0.02			

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
*OCCUPATIONS-WOMEN:			
At Home	10	25	35
Bank teller	1		1
Cashier	1		1
Child	5	3	8
Dish washer		1	1
Domestic	2	8	10
Factory worker	1	4441	1
Hairdresser		2	2
Housewife	58	121	179
Laundry worker	1	1	2
Laboratory technician	-	1	1
Manager (Department Store)	1		1
Matron (Girls' Dormitory)	1		1
Musician	1	5	11
Nurse (Graduate)	0	9	11
Nurse (Student)	2		4
Nursing aide	1		1
Receptionist	1		Å
Religious		1	1
Retired	2	e i	8
Sales clerk	47	e e	13
Stenographer	6	23	32
Student	1	20	1
Switchboard operator Teacher	1	2	3
	2	ñ	8
THE L LEAS	-	3	3
Ward Alde		_	
	114	218	332

MEN:	Central Alberta Sanatorium	Edmonton Sanatoria	Tota
Accountant	2		2
Agricultural worker	26	49	75
Army	3		
At home	1	6	7
	1		-
Attendant (Hospital)		1	-
Baggage man C.N.R.	1		1
Barber		3	
Blacksmith		1	
Bricklayer	1	1	
Butcher	1		1
Butter maker	1		1
Carpenter	1	3	
Child		5	:
Chemist		1	1
Ierical worker	5	9	14
Cook		2	1
Detective sergeant, city police	1	_	-
Dry cleaner	î		-
levator operator	î		-
lectrician	i		-
	1	****	
ngineer, civil	1	1	
lireman		1	
urniture dealer	1		
lrocer	1		1
rain buyer	****	2	2
Junsmith	1]
Iorticulturalist	1		1
Iotel employee		1	1
anitor		ĩ	1
abourer	12	26	38
aboratory technician	2	1	
Aechanic, motor	3	2	1
Mechanic, dental	ĩ	-	1
fechanic, typewriter	2		
diner		5	
dink Rancher		1	
ferchant	2		
fanager, oil company	1		1
ainter	1		1
lasterer	1		1
Postal employee	1	****	1
lumber		1]
rinter		1	1
ool room operator		î	1
leal estate agent		-	-
lace horse owner		1	
letired		9	1
	9	9	
ales clerk	3		
ervice station attendant	1	****	1
alesman	1	4	5
eaman, merchant navy	1	0.0	1
tudent	8 .	18	26
teward		2	2
axi driver	1		1
ailor		1	1
rucker	3	2	1
rapper		ĩ	
elegrapher	4.4.4	1	
laiter		1	1
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	101	101	and the second
	101	164	265

	Central Alberta Sanatorium	Edmonton Sanatoria	Tota
ITIES:			
Calgary	71	1	72
Drumheller	2 16	140	2 156
Edmonton	10 9	140	150
Lethbridge Medicine Hat	6		6
Red Deer	6		6
Wetaskiwin	2	****	2
	110	141	253
	112		250
OWNS:			
Banff	1		1
Blairmore	1	1	1
Camrose		1	i
Castor	1		i
Coleman Daysland		1	1
Edson	1	2	:
Innisfail	1		
Lacombe	1	2	-
Leduc	2	1	
Lloydminster	3		
Macleod	1		
Nanton Okotoks	î		
Olds	2	****	;
Peace River	1	1	
Pincher Creek	2	****	
Ponoka	1	1	
Redcliff	22	****	
Rocky Mountain House	1	1	
Stettler Taber	i		
Taber Three Hills	2		
Vegreville	1	44.14	
Vermilion		1	
Wainwright	****	2	
	28	14	4
		-	-
ILLAGES:			
Alliance	1	****	
Andrew	1		
Bashaw Bentley	î		
Bentley Black Diamond	ī		
Bowness	1		
Champion	1		
Consort	1		
Duchess	1	****	
Empress	1	4438	
High Prairie		1	
Killam Kitscoty		î	
Lac La Biche		1	
Lamont		1	
		1	
Lougheed			
Lougheed	1	****	
Use Contract		1	
Lougheed		1	

	Central Alberta Sanatorium	Edmonton Sanatoria	Tota
	2		2
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and contract of the second sec	****	1	1
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		3	3
		6	6
		7	7
		1	1
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	1	15	16
		4	- 4
		4	
		3	3
		3	3
		3 123	3 160
AL IMPROVEMENT DISTRICTS:	37	3	3 160
AL IMPROVEMENT DISTRICTS:	<u>37</u> 1	3 123 	3 160 1
AL IMPROVEMENT DISTRICTS:	37	3	3 160 1 2
AL IMPROVEMENT DISTRICTS:		3 123 	3 160 1
AL IMPROVEMENT DISTRICTS:		3 123	$\frac{3}{160}$ $\frac{1}{2}$ 1
AL IMPROVEMENT DISTRICTS:		3 123 	3 160 1 2 1 5
AL IMPROVEMENT DISTRICTS:	37 37 1 2 1 4 2 6 1	3 123 	3 160 1 2 1 5 2 7 1
AL IMPROVEMENT DISTRICTS:		3 123 	3 160 1 2 1 5 2 7 1 1
AL IMPROVEMENT DISTRICTS:	37 37 1 2 1 4 2 6 1	3 123 	3 160 1 2 1 5 2 7 1 1
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AL IMPROVEMENT DISTRICTS:	37 37 1 2 1 4 2 6 1 	3 123 1 1 1 1 2 2 2 1 7 5	3 160 1 2 1 5 2 7 1 1 2 2 2 1 7 5
AL IMPROVEMENT DISTRICTS:	37 37 1 2 1 4 2 6 1	3 123 1 1 1 1 2 2 2 1 7 5 16 3	$\begin{array}{c} 3\\ \hline 160\\ \hline \\ 12\\ 15\\ 22\\ 77\\ 1\\ 1\\ 22\\ 2\\ 1\\ 7\\ 5\\ 16\\ 3\end{array}$
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AL IMPROVEMENT DISTRICTS:	37 37 1 2 1 4 2 6 1	3 123 1 1 1 1 1 2 2 2 2 1 7 5 16 3 4 2 12 3	$\begin{array}{c} 3\\ \hline 160\\ \hline \\ 12\\ 15\\ 27\\ 7\\ 11\\ 22\\ 22\\ 17\\ 5\\ 16\\ 3\\ 4\\ 2\\ 13\\ 13\\ \end{array}$
AL IMPROVEMENT DISTRICTS:		$ \begin{array}{c} 3 \\ 123 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 1 \\ 7 \\ 5 \\ 16 \\ 3 \\ 4 \\ 12 \\ 12 \end{array} $	3 160 1 2 1 2 2 7 1 1 2 2 2 7 5 1 6 3 4 2 1 3 3 3
AL IMPROVEMENT DISTRICTS:	37 37 1 2 1 4 2 6 1 	3 123 1 1 1 1 1 2 2 2 2 1 7 5 16 3 4 2 12 3	3 160 1 2 1 2 2 7 7 1 1 2 2 2 1 7 5 160 2 7 7 1 1 2 2 2 7 7 5 1 1 2 2 7 7 5 1 1 2 2 7 7 5 1 1 2 2 7 7 5 1 1 2 2 7 1 1 2 2 7 1 5 2 7 1 1 2 2 7 1 5 2 7 1 1 2 2 7 5 1 5 2 7 5 1 5 2 7 5 1 5 2 7 5 1 5 2 7 5 1 1 2 2 2 7 5 1 1 2 2 2 7 5 1 1 2 2 2 7 5 1 1 2 2 2 7 5 1 1 2 2 2 1 1 2 2 2 1 7 5 1 1 2 2 2 1 7 5 1 1 2 2 2 1 1 7 5 1 1 2 2 2 1 1 7 5 1 1 2 2 2 1 1 7 5 1 1 2 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 5 1 1 1 2 2 1 1 2 2 1 1 5 1 5 1 6 3 4 2 1 3 3 3 3 3 3 3 3 3 3 3 3 3
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AL IMPROVEMENT DISTRICTS:	37 1 2 1 4 2 6 1 	3 123 1 1 1 1 1 2 2 2 1 7 5 16 3 4 2 12 3 3 1 1 1 3 2 20 4 - - - - - - - - - - - - -	$\begin{array}{c c}3\\\hline 160\\\hline 12\\15\\27\\11\\22\\21\\17\\5\\16\\34\\2\\13\\33\\12\\21\\4\\1\end{array}$

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SUMMARI.	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Cities	112	141	253
Towns	28	14	42
Villages	12	7	19
Enlarged Municipal Districts	37	123	160
Local Improvement Districts	22	97	119
Non-residents	4		4
	215	382	597
*RELIGION:			
Anglican	30	37	67
Apostolic		3	3
Baptist	6	10	16
Buddist		1	1
Christian Reformed		1	1
Evangelical		1	1
German Reformed Greek Catholic	1 4	14	18
Greek Orthodox	4	27	31
Hebrew	i	1	2
Jehovah Witness		î	ĩ
Latter Day Saints	3		3
Lutheran	18	38	56
Mennonite	1	-	1
Methodist	1	in .	1
Pentecostal	3	2	5
Presbyterian Roman Catholia	13	16	29
Roman Catholic Seventh Day Adventist	45 2	148	193 3
United Church	59	81	140
Undenominational (Protestant)	20	01	20
Unknown	4		4
	215	382	597
		-	
*AGE ON ADMISSION:			
From 1 to 9 years	7	13	20
From 10 to 14 years	7	15	22
From 15 to 19 years	14	47	61
From 20 to 29 years	81	122	203
From 30 to 39 years	48	55	103
From 40 to 49 years	25	56	81 59
From 50 to 59 years From 60 to 69 years	16 12	43 22	34
70 years and over	5	9	14
re your and over manning and			
	215	382	597
*NATIVITY:			
Alberta	108	208	316
Canada (other Provinces)	40	40	80
Austria	2	15	17
Belgium	1	2	3
Chasheslevekia	1	3	4
Chechoslovakia Denmark	3	0	6 2
East Indies	1		1
England	11	14	25
Finland		1	1
France	2	2	4
Germany	1	4	5
Holland	1	****	1
Hungary	2		2
Iceland	1	+111	1
Ireland	2	4	6
Isle of Man	****	1 2	2
Italy Japan	1	-	1
Lithuania	i	****	î
Malta	-	1	î
Norway		8	8
Poland	8	19	27
Roumania	4424	2	2 5
Russia	1	4	
Scotland	8	9	17
Sweden	3	6	9
Switzerland	1	3	4
Turkey United States of America	1 13	25	38
United States of America Ukraine	10	3	3
Yugaslavia	1	2	3
	-		-
	215	382	597

RESIDENCE IN ALBERTA.	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Born in Alberta	106	208	314
1 year or less	3	5	8
1 to 5 years	21	18	39
6 to 9 years	7	10	17
10 to 14 years	5	8	13
15 to 19 years	11	21	32
20 to 30 years	30	52	82
30 years or more	32	60	92
	215	382	597
RACIAL ORIGIN:			ALL COLLEY
Austrian	1	8	9
Belgian		2	. 2
Bchemian		1,	1
Chinese	23	3	5
Czechoslovakian	3	4	73
Danish	2 9	1	
Dutch	9 41	3	12 88
English	41 2	1	3
Finnish	1	-	ĩ
Flemish	5	22	27
French	7	1	
French Canadian	15	17	32
German	1		1
Greek Hungarian	3	1	4
Icelandic	2		2
Indian	ī	1	2
Irish	33	28	61
Italian		2	2
Japanese	1	****	1
Jewish	1	1	2
Lithuanian	1		1
Manx		1	1
Metis	10	79	89
Norwegian	5	25 .	30
Polish	12	20	32
Roumanian	1 2	2 9	3
Russian	31	37	68
Scottish	7	7	14
Swedish	10	44	54
Ukrainian Welsh	2	2	4
Yugoslavian	ĩ	3	4
Unknown	3	10	13
VIIIIVIII		-	
	215	382	597

*Tables include figures for discharges from General Section of Hospitals.

LENGTH OF STAY IN SANATORIUM OF 597 DISCHARGED PATIENTS:

DEATHS:			
Number in Sanatorium under 31 days	4	22	26
Number of patient days	60	315	375
Average number patient days	15	14.3	14.4
Number in Sanatorium 31 or more days	18	22	40
Number of patient days	17,117	9,892	27,009
Average number patient days	950.9	449.6	675.2
DISCHARGES:			
Number in Sanatorium under 31 days	17	93	110
Number of patient days	342	1,294	1,636
Average number patient days	20.1	13.9	14.9
Number in Sanatorium 31 days or more	176	245	421
Number of patient days	78,393	52,985	131,378
Average number patient days	445.4	216.3	312.1
Total number deaths and discharges	215	382	597
Total patient days	95,912	64,486	160,398
Average number patient days	446.1	168.8	268.7
			Others
No. non-pulmonary admissions(individual)	29	70	8 107
No. non-pulmonary patient days (calendar)	3,329	7.295	461 11.085
Average patient days, non-pulmonary	107.4	104.2	57.5 103.6

122

*RESIDENCE IN ALBERTA:

DONATIONS AND ENTERTAINMENT

CENTRAL ALBERTA SANATORIUM

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EDMONTON GENERAL HOSPITAL

- ENTERTAINMENT—Cribbage Tournament, once per month; Picture Show, once per week; Card Party, once per month; Valentine Party; Easter Party; Hallowe'en Party; Christmas Concert; Church Choirs.
- DONATIONS—Magazine Subscriptions; I.O.D.E., Patients' Recreation Fund; Alberta Tuberculosis Association, Library Books; Dr. McPherson, Library Books; Junior Chamber of Commerce, Gifts; Joyeux Noel Club, Gifts; Ed Berg, Yellowknife, N.W.T., Gifts; Fort Edmonton Chapter I.O.D.E., Gifts; Provincial Command, Canadian Legion Ladies' Auxiliary, Gifts; Catholic Women's Auxiliary, Gifts once each month; Rene Flowers, Gifts each month; Junior Chamber of Commerce Ladies, Cookies and Candy once, each month; Candy once each month.

ROYAL ALEXANDRA HOSPITAL

ENTERTAINMENT—Picture Show, every third week; 3 Bingo Parties; Valentine Party; Easter Party; Hallowe'en Party; Christmas Party.

DONATIONS-R.A.H. Women's Auxiliary, Prizes for Bingo, fruit and candy; Ukrainian Benevolent Society, Magazines; Winodausis Society, Flowers; Salvation Army, Fruit and Candy.

Division of Mental Health

RANDALL R. MACLEAN, M.D., Director

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

Eugenics Board.

Provincial Guidance Clinics.

Provincial Mental Hospital, Ponoka.

Provincial Mental Institute, Edmonton.

Provincial Auxiliary Mental Hospital, Claresholm.

Provincial Auxiliary Mental Hospital, Raymond.

Provincial Training School for Defectives, Red Deer.

Referring to the various Institutions in the Division, the total patient population in them on January 1, 1949, was 3,131. On December 1, 1949, the patient population was 3,171. This was therefore a gain of some 40 patients during the year.

The Provincial Mental Hospital, Ponoka, continued to serve as the chief admission hospital and during the year 587 patients (301 males and 286 female) were admitted. This was some 21 more than the previous year.

The Provincial Mental Institute admitted 260 patients (132 male and 128 female) during the year. This number was within one of the previous year.

Both the Provincial Mental Hospital, Ponoka, and the Provincial Mental Institute, Edmonton, give extensive active treatment to all cases where this is indicated.

The Provincial Training School, Red Deer, admitted 40 children (16 male and 24 female) during the year. This was four more than the previous year. Extensive renovations interfered with the movement of the School population and the Training Programme. Toward the end of the year, however, several new buildings and the Recreation Hall came into use and matters improved thereafter. The former Medical Superintendent, Dr. D. L. McCullough, retired during the year due to ill-health. He had given many years of faithful and efficient service to the Mental Health Division, both at the Provincial Mental Hospital, Ponoka, and at the Provincial Training School. He was replaced by Dr. L. J. le Vann, who received his training and experience in England and Canada.

During the year some 40 patients were involved in transfers and a number were discharged from the Mental Hospitals and accepted at "Rosehaven" in Camrose.

Work went ahead during 1949 on the construction of the new Psychiatric Ward at the University of Alberta Hospital, Edmonton. This ward may be read for occupancy in 1951. No work has as yet been done by the Calgary General Hospital on the Psychiatric Ward, for which plans were drawn up some years ago.

Again in 1949 a considerable amount of new building construction took place. A new Occupational Therapy Building was erected at the Provincial Mental Hospital, Ponoka. The small ward for some 15 patients was completed at the Provincial Auxiliary Mental Hospital, Raymond. Work went ahead on the Tuberculosis Ward at the Provincial Mental Institute, Edmonton, and a new Occupational Therapy Building was also built at the latter Institution. Three new dormitories were opened at the Red Deer Training School, also a Recreation Hall. The renovations to the Administration Building were almost completed.

The services of the Provincial Guidance Clinics were again expanded, and included in the itinerary were some 6-8 points in the Peace River area. This re-inauguration of the latter service was greatly appreciated by the many interested parties and authorities in the territory involved. The Clinic Staffs again participated in Public Education activities, including lectures, talks, radio work, round table discussions and institutes.

In respect to staff conditions, there was some improvement in availability of staff generally, probably more noticeable in connection with female staffs, trained and untrained.

Five meetings of the Eugenics Board were held at the Provincial Mental Hospital, Ponoka, and two at the Provincial Training School, Red Deer. One meeting was held at the Provincial Guidance Clinic in Edmonton: A total of 116 cases were presented for the Board's consideration—six of which were deferred for future consideration. Of the 109 cases passed by the Board, 52 were males and 57 females. The total number of cases operated upon to December the 31st, 1949, was 1,175 (475 male and 700 female). The operations were performed by duly appointed Honorary Physicians, assisted by the medical staff of the Provincial Mental Hospital, Ponoka.

TABULATED SUMMARY-INSTITUTIONS: MOVEMENT OF PATIENTS

Hospital		ts in 1. 1. 1	Hosp. 948	Adr	nissi	ions	Dis	char	ges	I	eatl		Patient	s in F	
mooprior	M.			M.	F.	T.	M.	F.	T.	M.	F.	Τ.	M.	F.	T.
Ponoka Oliver Red Deer Claresholm Raymond	809 966 165		1350 1271 298 99 113	301 132 16		587 260 40 8 4		250 101 21 8	482 199 37 8	39 45 6	24 9 2 1 4	63 54 8 1 4	839 945 159		1394 1273 293 98 113
Total	1940	1191	3131	449	450	899	346	380	726	90	40	139	1943	1228	3171

PROVINCIAL MENTAL HOSPITAL, PONOKA

Patient Population Changes.

On January 1st, 1949, the number of patients in residence was 1,350, of whom 809 were fale and 541 female. On December 31st, 1949, there were in residence 1,394 patients, of whom 839 were male and 555 female. There were 23 patients transferred to other mental institutions in the Province and 25 patients received from these institutions. There was an overall increase in patient population of 44.

Admission of Patients.

Exclusive of transfers from other Provincial mental institutions, 562 were admitted, there being an increase of 17 over the previous year. Of those admitted, 294 were male and 268 female. There were 117 patients admitted voluntarily, 144 by medical certificates, 296 by Warrant of the Attorney General, and 5 under The Mental Defectives Act. As in 1948, approximately 13% of the admissions had one of the Senile Psychoses.

Twenty-nine cases of Neurosyphilis were admitted, of whom 17 were psychotic. There was a decided decrease in the number referred by the Division of Social Hygiene. The decrease noted in 1948 in the number of Neurosyphilitics admitted continued in 1949. There was a decrease in the number of Schizophrenics, and an increase in the number in the Manic-Depressive group. The other diagnostic categories showed only minor variations. Details are set forth in Table 3.

Separation of Patients.

Separation of patients for the year total 545, and of these 271 were male and 274 female. There were 459 discharged and there were 63 deaths. Twenty-three were transferred to other Provincial mental institutions.

Accidents and Elopements.

Among the patients there were 16 fractures, 10 of these being men and 6 of women.

There were 2 suicidal deaths.

There were 21 elopements during the year, all being men, the majority of whom were returned either by the staff of the hospital or the police authorities.

General Health.

The health of the patients was generally good. There were no epidemics. The Tuberculosis preventive programme was continued with no increase in the number of those afflicted with this disease. All active cases were isolated. The continued need for more adequate facilities for the isolation and treatment of Tuberculosis was apparent. The nutritional state of most patients was excellent, and specific diets were provided for a great number. Patients were kept outdoors as much as possible.

Clinical Work.

The medical staff was augmented, and the treatment programme was very active. All patients were examined on admission and as frequently thereafter as seemed necessary. All appropriate laboratory procedures were performed, and all means utilized to ascertain the physical state of the patients.

Psychiatric examinations were as extensive as possible, with the staff available, and treatments were instituted expeditiously with new patients, and continued with those under prolonged care.

In general, the treatment policy was to make available to the patients throughout the hospital all recognized therapeutic agents and procedures. The shock therapies—electro and insulin—were extensively utilized, and did much to make the patients accessible to interviews and other forms of treatment. Malarial fever therapy was used, when indicated, although the need for this was less. Hydrotherapy and physiotherapy was extensively employed. A limited number of pre-frontal leucotomies were performed.

Occupational Therapy.

This Department maintained an active programme with special emphasis on new patients. Classes were also operated for those under prolonged care, who were sufficiently well enough to attend.

New facilities for this Department were constructed during the year. The new building was essentially completed, but not equipped, for use at the year's end. Many of the articles produced were sold to the patients who had made them, either to be taken home by them or to be sent to their relatives.

Undergraduate and graduate nurses were given instruction.

The library and canteen continued to be of great value to the patients.

Beauty Parlour.

The value of facilities such as this to women patients has become increasingly evident. All the usual beauty parlour procedures were available to patients. There were 4,000 shampoos given, which serves as an indication of the work done, and it might be added that women of all ages appreciated the opportunity to attend.

New equipment was added during the year, which resulted in increased efficiency.

Recreational Therapy.

Two Recreational Therapists were appointed to the staff. Both men had previously been long experienced in such activities in the armed forces and elsewhere.

A very active programme was organized and maintained to encompass practically all patients. Moving pictures were shown weekly in the large Recreation Hall, and special pictures were shown to small ward groups. Entertainment was provided regularly on all wards. Outdoor activities were arranged during the summer and winter, and included a great variety of sports, many of which were competitive.

During the year, a number of groups from various points in the Province came to the hospital to entertain the patients. For the most part, these groups were sponsored by the Department of Veterans' Affairs and the Provincial Command of the Canadian Legion. Through these visits, many contributed to the welfare of the patients and, incidentally, learned something of the operation of the hospital.

Religious Services.

Clergymen of the major denominations held services during the year. They were well attended and much appreciated. On many occasions, at the request of patients or their relatives, the visiting clergymen have seen individuals privately.

Social Service.

On April 1st, 1949, Mr. Neil C. Crawford, a graduate of the University of Toronto in Social Work, was appointed to the staff as a full-time worker. The need for such has long been realized. A skilled Social Worker can do much in effecting the patient's rehabilitation in the home community.

It must be recognized that many of our patients come from distant places, and if social work is to be done properly the home must be visited. One Social Worker can therefore make but a beginning in this much needed work.

In spite of this, the institution of this Department has been a great help to many patients. In the last five months of the year, field trips were made for 64 patients. Many interviews were held in the hospital and elsewhere. The addition of a Social Worker to the staff is a great asset.

Dental Services.

A full-time dentist supplied services. All incoming patients were examined and treated when necessary. Replacements were made as required. All patients under continued care were likewise examined and treated.

The following is a summary of the work of this Department: Patient appointments 2166 Operations (all types) 3708 Sundry operations: X-rays, Denture impressions and adjust-

Operations (all types) Operations are divided as follows: Examinations, including new	ments 337 New dentures 55
admissions 1556	Denture repairs 52
Teeth filled 482 Extractions 370	Gold inlays 4 Bridge repairs 4
Prophylaxis 454	And
Perilental treatments	Total

During the year the dentist also visited the Provincial Auxiliary Hospitals at Claresholm and Raymond.

X-Ray Services.

During the year a complete new installation was made. Much more modern and powerful equipment was obtained and installed. The present X-ray plant is basically capable of handling the needs of the hospital. It is now possible to do the great majority of chest plates on miniature films, resulting in lowered cost and easier storage.

With more intensive treatment, however, the work of this Department has increased. It has functioned very efficiently under the direction of a Nurse-Technician.

The following is a summary of the X-ray procedures carried out during the year:

Chasta	2102	Abdomen	28
Chests	519	Stomach (Barium)	9
Dorsal Spine	0.4	Denium (Paome)	5
Lumbar Spine		an ere a sector (many sector)	10
Cervical Spine		Gall Bladder	11
Skull	. 52	Gall Bladder (Reg.)	11
Nose	. 1	Intravenous Pyelogram	1
Jaw		Dental	10
Ribs	. 14	Sternum	1
Shoulder	. 31	Scapula	2
Elbow	12	Sacrococcygeal	1
Wrist	91	Sacroiliac	2
Hand	37	Kidney region	3
Finger	10	Sinuses	3
Deluis	19	Datalla	3
Pervis	50	Moole	2
Remain	17		30
Femur		Buttocks	4
Knee	. 30	Esophagus	
Humerus		Maxilla	1
Leg		Arm	9
Ankle	. 29		
Foot	. 30	Total	3162
Toes	. 4		

Laboratory Services.

The Laboratory, under the direction of a technician, has given excellent service. All the common laboratory procedures have been carried out here. Materials for more involved examinations were sent to the Provincial Laboratory and the Department of Biochemistry, University of Alberta. Assistance was given at autopsies. Facilities were provided for the reception and handling of blood from the Canadian Red Cross Blood Donor Service.

Considerable equipment was added to improve the facilities for diagnosis and treatment.

The following is a list of procedures during the year:

Urinalyses Blood Counts Blood Chemistry Smears (Blood)	1533
C.S.F. Cell Counts	231 597
Sputum for T.B. Examination Miscellaneous: Gastrics, Vag. Smears	312 82
Total	5786
Specimens to the Provincial Laboratory: C.S.F. Blood Wassermann Blood Chemistry Stool Specimens Cultures	597 650 100 150
Total	1527
Post-mortems (partial and complete) The Canadian Red Cross Blood Donor Service:	20
Amount of whole blood received Returned (unused)	33,000 cc. 1,500 c.c.

Nurses' Training School.

A very active programme of teaching was maintained. One of the instructress resigned, and she was replaced by Miss N. Leckie, formerly of the staff of this hospital, and more recently of the staff of an Eastern Psychiatric Hospital.

The Assistant Superintendent of Nurses, Miss M. Nelson resigned, and she was replaced by Miss E. A. Kirkham, who is well trained and skilled in General and Psychiatric Nursing. It is considered she was responsible for a definite elevation in nursing standards.

Twenty-three student nurses from this School, 9 post-graduate students, and 31 male attendants were given instruction. Twentyeight nurses' aide trainees from the School for Nurses' Aides in Calgary, as well as 25 students from the University of Alberta School of Nursing, were given instruction here.

In November, affiliation was completed with the Lamont Public Hospital, Lamont, and the Galt Hospital, Lethbridge, whereby undergraduate students from those Schools could spend eight weeks at this hospital. The first students from both Schools arrived here on November 7th.

Teaching of Medical Students.

Instruction was given at the University of Alberta to junior medical students by the Medical Superintendent. Two medical students acted as undergraduate internes during the summer.

Medical Library.

Substantial purchases of new books were made, and there was some progress in the rehabilitation of the library, which had of necessity deteriorated in the war and immediate post-war years.

Visitohs to the Hospital.

Visits were made from time to time by Dr. W. W. Cross, the Minister of Halth, and by Dr. M. R. Bow, the Deputy Minister of Health. These visits were much appreciated by patients and staff, and the advice and driection given by both was of great value.

The hospital was visited from time to time by distinguished personages from the Province of Alberta and elsewhere. Dr. D. G. McKerracher, Director of Saskatchewan Mental Services, accompanied by Drs. F. S. Lawson and A. R. Coulter, Medical Superintendent of the Mental Hospital at North Battleford and Weyburn, respectively, honoured the hospital with a visit.

Dr. R. R. MacLean, the Director of the Division of Mental Health for the Province, maintained his headquarters at the hospital during the year. On a great many occasions his advice was sought by those responsible for the administration. He inspected the hospital at appropriate times and gave valued direction and guidance.

The Eugenics Board acting as a Visiting Committee, inspected the hospital. Careful inquiry was made as to the care and welfare of patients. The buildings and facilities were rigidly scrutinized. The medical staff was given the opportunity to discuss any existing difficulties with the Visiting Committee.

An increasing number of relatives and friends visited the patients, visitors being allowed on every day of the year.

The Eugenics Board.

The Eugenics Board held four meetings at this hospital during the year. Seventy-six patients were presented, of whom 37 were male and 39 female. The cases were presented to the Board by the medical staff of the hospital.

Surgical Services.

Dr. J. W. Richardson and Dr. J. Ross Vant continued to act as honorary surgeons. Whenever called upon they were most cooperative. They carried out the regular procedures, and on many occasions acted as consultants to the medical staff.

Maintenance Department.

A great deal of repair and replacement work was done. The roof of the older Farm Dormitory was re-covered with slatedsurface asphalt shingles. The septic tank deck was re-covered with a bonded roof. Twelve residences were reshingled. A new main sewer line was laid from the hospital to the septic tank. Most of the farm buildings were re-painted. Numerous repairs were made to the hospital and other buildings on the grounds.

Fire Protection.

A new and modern fire engine was obtained. Regular practises were held. The new equipment assures a much greater degree of safety.

Business Office.

This Department has functioned satisfactorily as in previous years. There was no decrease in the volume of work. Collections were at a very satisfactory level.

Farm.

The dairy herd was largely replaced with good quality Holstein stock, a proportion of this being registered. The policy laid down should ensure an adequate quantity of wholesome milk. Pork production was good, and adequate for the hospital needs. There was an ample supply of eggs. Chickens and turkeys were supplied to this hospital, and some of the latter to other Provincial institutions.

There was some frost damage, but field crops were average.

Gardens.

There was some early drouth which curtailed early vegetable production, and the late crops were damaged by early frosts. In spite of this, 375,000 pounds of fresh vegetables were delivered to the hospital, and 184,000 pounds were stored for winter use.

Cannery.

There were 21,000 large cans of fruit and vegetables processed, and of these, over 3,000 cans were delivered to other Provincial institutions. The cannery continued to be a valuable acquisition to the hospital.

Dietary Department.

Supervision was maintained by the Dietitian over the food supplied to patients and staff. The Dietitian assisted in the instruction of student nurses and visiting student dietitians.

Housekeeping Deparment.

Careful attention was given to furnishings and supplies. Condemned material was salvaged and, whenever possible, put to use. Salvaged material was converted into bed-throws, rugs and door mats. An inventory was taken in all departments. Close supervision was maintained during all operations on the wards and elsewhere.

Laundry.

The new laundry was opened in November, and as might be expected, some minor difficulties were encountered. The hospital laundry needs were met, however, and by the end of the year the new laundry was functioning with fair efficiency. The new ironing and pressing room was not completed for use.

Linen Room.

This Department functioned to a high degree of efficiency, in spite of rather cramped quarters. Linen was sorted, mended and distributed to the wards. Approximately 121,000 pieces of linen passed through this Dpartment each month.

Tailor Shop.

This Department supplied the hospital needs with a great many articles of clothing. It was not possible to secure the services of an assistant tailor, but efforts for such continue.

Sewing Room.

Approximately 22,000 articles of clothing were manufactured in the sewing room, these being for the most part, clothes for female patients, nurses' uniforms, window draperies, aud a diversity of other articles.

Print Shop.

Most of the printing needs of the hospital were met, and considerable work was done for other branches of the Department. The output was of excellent quality.

Department of Chief Engineer.

Throughout the year, adequate heat, light and water were supplied, and repairs received proper attention. There was a very satisfactory degree of co-operation between the personnel of this Department and those of the Public Health Department at the hospital.

Conclusion.

Efforts during the year were directed toward maintaining the previously existing standards and, where possible, improving them. That part of the staff responsible for nursing services was increased in keeping with policies laid down by the Department. Full emphasis was placed on treatment services, with the aim of returning our patients to a productive life as citizens of the Province.

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-		-	-	-	-

MOVEMENT OF PATIENT POPULATION DURING 1949

In residence as of December 31st, 1948	Male	Female	Total	Male 809 12	Female 541 8	Total 1350 20
Admissions: First Admissions: (a) Voluntary (b) Certificates (c) Warrant (d) M.D. Act	27 46 147 1	41 55 76 3	68 101 223 4	221	175	396
Re-Admissions: (a) Voluntary (b) Certificates (c) Warrant (d) M.D. Act	19 15 39	30 28 34 1	49 43 73 1		93	
Transfers in	7	18	25	73 7 1122	93 18 835	166 . 25 1957
Total Admissions Separations: Discharges:				1166	000	1001
As recovered As improved As unchanged Without psychoses Transfers out Deaths	56 78 44 50 4 39	61 105 37 28 39 24	117 183 81 78 23 63			
Totals				271	274	545
In residence as of DeDcember 31, 1949 On leave or otherwise absent				839	555 6	1394 1394 18

TABLE No. 2

	TABLE NO. 2			
	RESIDENT PATIENT POPULATION BY PSYCHOSES, DECE	MBER	31, 1949	
	Psychoses	Male	Female	Total
0	Psychoses with syphilitic meningoencephalitis		12	65
0	2 Psychoses with other forms of syphilis of the central nervous	00		
	system:			
	021 Meningo-vascular type	7		7
	022 With intracranial gumma 023 Other types (Taboparesis)	3	1	4
0	3 Psychoses with epidemic encephalitis	1	2	3
ő	Psychoses with other infectious diseases:		-	
	044 With other infectious disease	1		1
	045 Post-infectious psychoses	1		1
0	5 Aycoholic psychoses: 051 Pathological intoxication			
	051 Pathological moxication	1		1
	053 Korsakow's psychoses	. 3		3
	054 Acute hallucinosis	7	1	8
	055 Other types	. 1	1	8 2 1
0		1		
0	071 Traumatic deligium		2	1 2 2
	072 Post-traumatic personality disorders	2		2
	073 Post-traumatic mental deterioration	. 3		3
	8 Psychoses with cerebral arteriosclerosis	30	10	40
0	9 Psychoses with other disturbances of circulation	. 3	1	4
1	0 Psychoses with convulsive disorders 101 Epileptic deterioration	2	2	2 13
	101 Epileptic clouded states	· 11 6	2	13
	103 Epileptic, other types	5	4	9
1	1 Senile psychoses:			
	111 Simple deterioration	. 4	8	12
	114 Depressed and agitated	- 5	2	7
	115 Paranoid types 2 Involutional melancholia:		2	2
	2 Involutional melancholia: 121 Melancholia	7	15	22
	122 Paranoid types		15	1
1	3 Psychoses due to other metabolic, etc., diseases:			
	135 With other somatic diseases (specify)	- 2	1	3
	4 Due to new growth		1	1
1	5 Psychoses associated with organic changes: 151 With multiple sclerosis			4
	151 With multiple sclerosis 152 With paralysis agitans	. 4	1	3
	153 With Huntington's chorea	. 4		4
	154 With other brain or nervous diseases	. 1		2
1	6 Psychoneuroses:			
	161 Hysteria		1	1
	162 Psychasthenia or compulsive states 163 Neurasthenia			
	164 Hypochonriasis			2
	165 Reactive depressions			22
	166 Anxiety state	. 2		2
1	7 Manic-depressive psychoses:			
	171 Manic type	- 24		55
	172 Depressive type 173 Circular type	. 8		29 2
	173 Circular type			
	175 Perplexed type			
	176 Stuparous type			****
	177 Other types		4	4
1	8 Dementia Praecox (Schizophrenia):	10	10	00
	181 Simple type 182 Hebephrenic type	10	13 16	23 37
	182 Hebephrenic type 183 Catatonic type	252		447
	184 Paranoid type	158		229
	185 Other types	. 2	1	3
1	9 Paranoia and paranoid conditions	5		7
	191 Paranoia	11		13
	192 Paranoid conditions	. 41		70 5
	20 Psychoses with psychopathic personality	57		95
	22 Undiagnosed psychoses			24
	23 Without psychoses	. 3	2	5
	001 Palloner:		-	
	231 Epilepsy only 2312 Epilepsy with mental deficiency	. 7		12 13
	2312 Epilepsy with mental deficiency	. 1		13
	232 Alcoholism 233 Drug addiction			-
	233 Drug addiction 234 Mental deficiency	43	20	63
	2341 Idiot			
	2342 Imbecile	1		1
	2343 Moron			1
	2344 Unspecified	. 1		1
	235 Disorders of personality due to epidemic encephalitis	. 3		3
	236 Psychopathic personality			1
	242 Neurosyphilis	2		2
13	24 Primary behaviour disorders			1
		-		1904
	Totals	839	555	1394

TABLE No. 3

	TABLE NO. 3			
	PSYCHOSES OF ADMISSIONS, RE-ADMISSIONS AND TR.	ANSFEI	RS IN	
	Psychoses	Male I	female	Total
01 02	Psychoses with syphilitic meningoencephalitis Psychoses with other forms of syphilis of the central nervous	7	2	9
	oza Other types (Taboparesis)	6	2	2
03	Psychoses with epidemic encephalitis			
04	Psychoses with infectious diseases			****
05	Alcoholic psychoses: 051 Pathological intoxication			1
	052 Delirium tremens 053 Korsakow's psychosis	25	2	4 5
	054 Acute hallucinosis	5	1	6
	055 Other types	3	1	4
06	With drugs, other exogenous poisons: 064 Due to other drugs (specify)	1	1	2
07	Traumatic psychoses: 071 Traumatic delirium			1
	074 Other types (specify)	1		1
08	Psychoses with cerebral arteriosclerosis	24	8	32
09	Psychoses with other disturbances of circulation:			
10	093 Other types (specify) Psychoses with convulsive disorders:	1	****	1
10	101 Epileptic deterioration	8	2	10
	102 Epileptic clouded states	1		1
	103 Other epileptic types		1	1
11	Senile psychoses: 111 Simple deterioration	17	10	27
	114 Depressed and agitated		5	5
	115 Paranoid types		5	9
12	Involutional psychoses: 121 Melancholia		9	13
	121 Melancholia 123 Other types (specify)	4	1	13
13	Psychoses due to other metabolic, etc., diseases:			
	135 With other somatic diseases (specify)	2	2	4
14	Due to new growth			
15	Psychoses associated with organic changes: 152 With paralysis agitans	1	1	2
	153 With Huntington's Chorea	1		1
16	Psychoneuroses	2	2	4
	161 Hysteria 162 Psychasthenia		1 4	1 4
	163 Neurasthenia		4	4
	164 Hypochondriasis		1	1
	165 Reactive depression	6	7	13 4
	167 Mixed psychoneurosis	3	5	5
17	Manic-depressive psychoses:			
	171 Manic type	13	23	36
	172 Depressive type 173 Circular type	10	26 5	36 5
	174 Mixed type		1	1
18	Dementia praecox (Schizophrenia):	3	1	4
10	181 Simple type	2	3	5
	182 Hebephrenic type 183 Catatonic type	67	65	132
	184 Paranoid type	15	6	21
19	185 Other types Paranoia and paranoid conditions:	2	2	4
19	192 Paranoid conditions	14	22	36
20	Psychoses with psychopathic personality	1		1
21	Psychoses with mental deficiency	2	4	6
22	Undiagnosed psychoses	9	4	13
23	Without psychoses	8	6	14
	2311 Epilepsy only	2	3	5
	2312 Epilepsy with mental deficiency	12	2	3
	232 Alcoholism 234 Mental deficiency	12 2	1	13 3
	2341 Idiot		2	2
	2342 Imbecile 2343 Moron	8	13	21 12
	2344 Unspecified	27	10 2	9
	236 Psychopathic personality	2	ī	3
	2361 With pathological sexuality 241 Tabes Dorsalis	1 3		1 3
	241 Tabes Dorsans 242 Neurosyphilis	6	3	9
24	Primary behaviour disorders	2		2
	241 Simple adult maladjustment		2	3
	Totals	301	286	587

TABLE No. 4 NATIVITY OF FIRST ADMISSIONS DURING 1949

Nativities	Male	Femal	e Total	Nativities	Male	Femal	e Total
Australia	1		1	Japan		1	1
Austria	3	1	4	Jugoslavia	1		1
Belgium	1		1	Lithuania		3	3
Canada	120	104	224	Norway	8	2	10
China	3		3	Poland	5	3	8
Czechoslovakia	1	- 1	2	Roumania	1	1	2
Denmark	4	1	5	Russia	5	3	8
England	16	14	30	Scotland	7	9	16
Finland	1		1	Sweden	2		2
Propos	i	1	2	Switzerland	2	1	3
Company	2	2	4	United States	23	21	44
Holland	ĩ		i	Other Countries	4	2	6
Hundary	*	4	4	Not given	2		2
Hungary	5	1	6	The Berger Human			
Italy	9		2	Totals	221	175	396

TABLE No. 5

AGES OF PATIENTS ADMITTED DURING 1949

	M.	F.	Т.		M.	E.	т.
Under 15 years 15 to 19 years 20 to 24 years 25 to 29 years	15 25 22	$ \begin{array}{r} 4 \\ 16 \\ 5 \\ 10 \end{array} $	41	50 to 54 years 55 to 59 years 60 to 64 years 65 to 69 years	19 12 12	7 6 6	28 26 18 18
30 to 34 years 35 to 39 years 40 to 44 years 45 to 49 years	19 10 16	$22 \\ 31 \\ 16 \\ 13$	32	70 years and over Totals221	31 175		50 396

TABLE No. 6

DISCHARGES BY PSYCHOSES AND CONDITION ON DISCHARGE

	Dischardus Di Torchossa inte	Rec M.		Im M.		Unit M.	mp. F.		otal F.	
01.	Psychoses with syphilitic meningo- encephalitis (general paresis)			1	1			1	1	2
02.	Psychoses with other forms of syphilis of the central nervous system: 023 Other types (Taboparesis)			4	1	3		7	1	8
03.	Psychoses with epidemic encephalitis						4114			-
04.	Psychoses with other infectious diseases:						****			
05.	Alcoholic psychosis: 051 Pathological intoxication 052 Delirium tremens 053 Korsakow's psychoses 054 Acute hallucinosis 055 Other types	1 6	2	2	2	 1		3 10	2	5
06.	Due to drugs, other poisons:									
	061 Due to metals									
	062 Due to gases 063 Due to opium and derivatives	1						1		
	064 Due to other drugs		1					****	1	1
07.	Traumatic psychoses: 071 Traumatic delirium			1				1		1
08.	Psychoses with cerebral arteriosclerosis			3	2	6	3	9	5	14
09.	Psychoses with other disturbances of circulation									
10.	Psychoses with convulsive disorders: 101 Epileptic deterioration 102 Epileptic clouded states 103 Other epileptic types	2	1	2	 4 	 		4	5	9 1
11.	Senile Psychoses:									
	111 Simple deterioration					10	1	10	1	11
	112 Presbyophrenic type									
	113 Delirious and confused types					1	3	1	3	4
	114 Depressed and agitated types 115 Paranoid types					3	3	3	3	6
12.	Involutional psychoses: 121 Melancholia	2		3	10		3	5	13	18
	122 Paranoid types						1		1	1
13.	Due to other metabolic, etc., diseases:									
10.	131 With diseases of endocrine glands						****			****
	132 Exhaustion delirium									****
	133 Alzheimer's disease		****						****	
	134 With pellagra						1		1	1
	135 With other somatic diseases									
14.	Due to new growth	4414								
15.	Associated with organic changes: 154 With other brain or nervous diseases	1	2	1	1	1		3	1	4

TABLE No. 6-Continued

			g. F.		np. F.		mp. F.		Tota F.		
16.	Psychoneuroses: 161 Hysteria 162 Psychasthenia or compulsive		1		2				3	3	
	states 163 Neurasthenia				$^{2}_{1}$	11.11 11.11	3		5 1	5	
	164 Hypochronriasis 165 Reactive depression 166 Anxiety state	1	1	3 1	62	****	2	4	92	13 3	
17	167 Mixed psychoneurosis	8	15	4	5	19.14	1	12	6 18	6 30	
	171 Manic type 172 Depressive type 173 Circular type	4	14	6	17 2	2	2	12	10 33 2	45 2	
	174 Mixed type 175 Perplexed type			****	1	1410			1	1	
	176 Stuporous type 177 Other types	1	2	5	1			6	3	9	
18.	Schizophrenia: 181 Simple type 182 Hebephrenic type			1				2	21	4	
	183 Catafonic type 184 Paranoid type	25 1	23	23 4 2	31 3 1	8 6	6 1 1	56 11 2	60 4 2	116 15 4	
19.	185 Other types Paranoia and paraoid conditions: 192 Paranoid conditions			4	5		3	4	8	12	
20.	Psychoses with psychopathic personality	1				1		2		2	
21.	Psychoses with mental deficiency	1					1	1	1	2	
22.	Undiagnosed psychoses	1	1	5	1			6	2	8	
23.	Without psychoses					9	4	9	4	13	
	2311 Epilepsy only 2312 Epilepsy with mental def 232 Alcoholism				****	2 1 18	3	2 1 19	3	5 1 21	
	233 Drug addiction 2341 Idiot						1		1		
	2342 Imbecile 2343 Moron					3	371	3 1 4	371	6 8 5	
	236 Psychopathic personality 241 Tabes dorsalis 242 Neurosyphilis			1111 1111	****	4 3 6	4	4 3 6	4	3 10	
24.	Primary behaviour disorders 241 Simple adult maladjustment			****		12	1 1	12	1	2 3	
	Totals	56	61	78	105	94	65	228	231	459	

	E	61	00		17	01	16	-	10	16	-		• 53	84	112	101	10	14		459	
	Total F.	-																		231 4	
	M.																			228	
	Over 3 years F. T.	-																		21	
	3 ye	-																		6	
	M.			į.	1.1	-			-					e4 (20 =-		-	-		12	
	"F	1	1			-	1	F	1		1	-			+		-	1		∞	
	Under 3 years	1																		100	
	Under 3 years M. F. T.	-	-																	1 10	
B	H.					-	1	in a	6.3	L			4	100	20	1			-	21	
DEN	Under 2 years M. F. T.																			00	
ESII	M						-		1				4	631	0	1				13	
FR	.:						:01				1.1			-							
NO	Under 1 year																			0 21	
NOIL	M. I.																			11 10	
URA	4																			1-	
C D	SHE	-	00	1	-	-	1.	-	1		-	i"	• 1	15	e ci	1	- 00	4 4	-	156	
NIN	Under month																			40	
SHOWING	Under 8 months M. F. T.	-																	-		
8-6				-										_							
194	ler nths																		T		
DNI	Under 4 months M. F. T.																		-		
DUR	M			-		-				-		-		210	2	-		1.61		201	
ES	-H			-	4	-17		1		12		:	10	r= 1	0			22	-	109	
ARG	Under 1 month F. T.			-	01	-				+ 00			8	40	0			00	1	28	
DISCHARGES	Dul.M.			-	01			1	10	4		1	01	00 0	N			17	-	33	
DI																					
	Psychoses	1. With syphilitic meningo-encempalitis		 With epidemic encephalitis With other infectious diseases 		06. Due to drugs or other poisons			10. With Convulsive disorders		13. Due to other metabolic diseases	 Due to new growth As oriated with organic change. 			 Paranoia and paranoid conditions 		21. With mental deficiency	3. Without psychoses	A	Total	
					0	00	-0	- '			-		-			- 41		4 67			

TABLE No. 7

TABLE No. 8

		TRADES ATON	~	
RECORD	OF	DEATHS	DURING	1949

					F DEATHS DURING 1949
Sex.	Age.		Months.		Cause of Death
M	47	11	2	11	Pulmonary Tuberculosis.
M	73	1	4	17	Senility.
M	47	1			Bronchopneumonia, Carcinoma of Pancreas.
M	71				Chronic Myocarditis. Bronchopneumonia.
M	70 55	4	55		Acute Pancreatitis, General Paresis.
M	65		5		Chronic Nephritis.
M	55			17	Exhaustion, Delirious mania.
M	56	10.00			Cerebral neoplasm.
M	37	7		4	Rheumatic Endocarditis. Senility with Senile Dementia.
M	80 67	****	2	30	Congestive Heart Failure, Myocarditis.
M	84		****	10	Bronchopneumonia, Myocardial Degeneration.
M	74	9	8	13	Coronary Occlusion, Generalized Arteriosclerosis.
M	75		3	23	Generalized Arteriosclerosis.
M	82		2	26 19	Coronary Occlucion, Arteriocclerosis. Pulmonary Infarct, Thrombosis of vessels of right
м	68	2	2	15	arm.
м	79		2	15	Exhaustion, Psychosis with Cerebral Arterio- sclerosis.
M	70		5	29 23	Bronchopneumonia. Generalized Arteriosclerosis.
M	74 60	9	5 8	24	Congestive Heart Failure, Myocarditis.
M	49			11	Bronchopneumonia, Multiple Carcinoma.
M	70	12	9	25	Circulatory Collapse, Myocarditis.
M	73			3	Subarachonoid haemorrhage, Arterioscierosis.
M	36 47	11 12	7 9	14 19	Bronchopneumonia, Statu _e Epilepticu _e . Coronary Occlusion.
M	24	5	1		Pulmonary Tuberculosis.
M	69	1	4		Generalized Arteriosclerosis.
M	77		1	19	Coronary Occlusion.
M	70	1	3	16	Lobar Pneumonia.
M	64 64	34	32	16	Coronary Occlusion. Cerebral hemorrhage.
M	55			7	Hypernephromaa.
M	77		2	10	Senility with Senile Dementia.
M	67		1	11	Small Intestinal Obstruction, right femoral hernia.
M	82	1	56	9 8	Senility with Senile Dementia. Aspiration Pneumonia, Pulmonary Oedema.
M	41 74	****	11	25	Senility with Senile Dementia.
M	88		4	3	Senility with Senile Dementia.
F	39	16	9	10	Cirrhosis of the Liver.
F	61	1111		13	Corculatory Collapse, Exhaustion.
F	26 54	12	23	17	Strangulation by Hanging. Cachexia, Carcinoma of Rectum.
F	72		1	6	Cerebral Thrombosis.
F	66		3	17	Haemorrhage of Gastrointestinal Tract.
F	77		3	25	Exhaustion, Cerebral Arteriosclerosie.
F	65 68	2	7	16 14	Bronchopneumonia, Poct-operatively Gastro- enterostomy. Generalized Arteriosclerosis.
F	42	9		25	Osteogenic Sarcoma of Left Leg.
F	82		3	4	Fracture of Right Femur, Accidental Fall.
F	78		3	13	Generalized Arteriosclerosic.
F	33 68	6 4	7	9 11	General PParesis. Pneumonia.
F	39	11	5	8	Cerebral Softening, Therapeutic Leucotomy.
F	57	3	4	8	Asphyxation, Drowning.
F	73				Bronchopneumonia, Senile Psychosis.
F	49	15		17	Huntington's Chorea.
FF	38 75	9	- 8 2	18 26	Pneumonia following Therapeutic Leucotomy. Senility with Senile Dementia.
F	66	30	õ	25	Chronic Myocarditis.
F	45	4	3		Pulmonary Embolism.
F	66	5	4	16	Paralysis Agitans.
F	86			11	Senilíty with Senile Dementia.
To	tals: 39	males.	24 female	S.	

138

Totals: 39 males, 24 females.

TABLE No. 9

DEATHS DURING 1949 BY PSYCHOSES

	Psychoses	Male	Female	Total
01	Psychoses with syphilitic meningoencephalitis	4	1	5
08	Psychoses with cerebral arteriosclerosis	13	4	17
10	Peychosee with convulsive disorders: 102 Epileptic clouded states 103 Other epileptic types	1		1 1
11	Senile psychoses:			
	111 Simple deterioration 113 Delirious and confused types	8	4	12
	113 Delirious and confused types 114 Depressed and agitated types		1	1
	115 Paranoid types	1		î
13	Psychoses due to other metabolic, etc., disease:			
	135 With other somatic disease	2		2
15	Psychoses associated with organic changes:			
	152 With paralysis agitans		1	1
	153 With Huntington's chorea		1	1
	154 With other brain or nervous dicease	1		1
17	Manic-depressive psychoses: 171 Manic type		2	2
	171 Manic type 172 Depressive type		100	1
18	Dementia Praecox (Schizophrenia):			-
10	181 Simple type	1	1	2
	183 Catatonic type	1	5	6
	184 Paranoid type	1	1	2
19	Paranoia and Paranoid conditions:			
	191 Paranoia	1		1
00	192 Paranoid conditions	1	2	3
23	Undiagnosed psychoses	1	1	1
	in the population in the second			-
	Totals	39	24	63

PROVINCIAL AUXILIARY MENTAL HOSPITAL, CLARESHOLM

Movement of Patients.

In residence on January 1st, 1949, there were 99 patients. On December 31, 1949, there were 98 patients in residence. During the year 6 patients were transferred to this hospital from the Provincial Mental Hospital, Ponoka. There was one patient admitted voluntarily. There was one re-admission by warrant of a patient who had previously been a patient at the Provincial Mental Hospital, Ponoka.

There was one patient transferred to the Provincial Auxiliary Hospital, Raymond.

There were four patients transferred to the Provincial Mental Hospital, Ponoka. Three of these patients were transferred because they were disturbed and one was transferred for further medical care.

There were three patients discharged during the year. Two patients were discharged as unimproved and one as improved.

There was one death during the year. This death was due to carcinoma.

Accidents and Elopements.

One patient sustained a fracture of her wrist, but there were no other accidents of a serious nature.

One patient eloped, but was returned to the hospital by the staff.

General Health.

The general health of the patient was good. All patients were given a complete examination by Dr. McWilliam in July. Two patients were found to have surgical conditions, to which the necessary attention will be given. Four patients were found to be diabetic and are now receiving insulin and the necessary diets. The physical condition of all other patients was found to be satisfactory.

Electric Shock Therapy.

During the month of July 10 patients were given a course of Electro-Shock Therapy. There was no marked change in the mental status of any of these patients.

Weather permitting, all ambulatory patients were taken out on the lawns or on walking parties.

Occupational Therapy.

This Department continued to do excellent work during the year. About 40 patients have been interested in this form of endeavour. Some of these patients do not go to the Occupational room, but do knitting and embroidery on the ward or out on the lawns with the help of the Occupational nurse.

During the summer months, 15 or 20 patients work in the gardens under the supervision of a ward aide. This worked is enjoyed by the patients.

Recreational Activities.

Regular matinees were held for the patients twice a month at the local theatre.

There were musical programmes presented by the United Church Choir at Easter and Christmas.

Parties and the regular sports day were held for the patients. Bingo parties have interested many of the patients this year.

Beauty Parlour.

A small beauty parlour was set up with the equipment obtained through the Dominion Grant.

Religious Services.

Religious services were conducted by the local clergymen.

Dentistry.

Dr. Palmer from the Provincial Mental Hospital, Ponoka, visited this hospital during September and gave the necessary dental care. Emergency dental work was done by the local dentist.

Buildings.

Repairs and redecorating to all the buildings were carried out by the maintenance staff.

The hospital was stuccoed during the summer months.

Gardens and Grounds.

The lawns and gardens were well cared for.

There were sufficient vegetables for the whole year.

Fire Protection.

Regular fire practices were held throughout the year. The fire fighting equipment was checked and kept in proper working order.

Visitors.

Visits were made to the hospital by Dr. R. R. Maclean, Director, Division of Mental Health.

Members of the Eugenics Board acting as a Visiting Board visited and inspected the hospital in October.

Friends and relatives of the patients continued to visit the hospital

MOVEMENT OF PATIENT POL	PULATI	ON DUI	RING	1949		
	Male	Female	Total	Male	Female	Total
In residence January 1, 1948					99	99
Admissions:						
(a) Voluntary		1	1			
(b) Certificate						
(c) Warrant						
(d) Order						
(e) Transfers		6	6			
Re-Admissions:						
(a) Voluntary						
(b) Certificate		44.54				
(c) Warrant		1	1			
(d) Order						
(e) Transfers		-			8	8
				-	107	107
					107	107
Discharged during the year:						
(a) As Recovered		1	1			
(b) As Improved		2	2			
(c) As Unimproved						
(d) As Without Psychoses		5	5			
(e) Transferred to other hospitals						
(f) Eloped						
(g) Deported to other countries		1	1			
(h) Deaths		-	-	1010	9	9
					00	00
					30	20

TABLE No. 1

TABLE 2

SHOWING THE PSYCHOSES OF PATIENTS IN RESIDENCE IN 1949

		Female
03	Psychoses with epidemic encephalitis	2
08	Psychoses with cerebral arteriosclerosis	4
12	Involutional Psychoses:	
	121 Melancholía	3
16	Psychoneuroses:	1
	161 Neurasthenia	
17	Manic-depressive psychoses: 172 Depressive type	1
	172 Depressive type 177 Other types, defective basis	1
18	Dementia praecox (Schizophrenia):	
10	101 Claumle tomo	3
	182 Hebenhrenic type	4
	183 Catatonic type	23
	184 Paranoid type	
19	Paranola and paranold conditions: 191 Paranola	10
21	Psychoses with mental deficiency	8
23	Without neychoses'	
20	231 Epilepsy with mental deficiency	2
	234 Mental Deficiency:	
	2342 Imbecile	5 1 6
	2343 Moron 2344 Unspecified	6
	LOTI CHOPCHICU	
	Total	99

TABLE 3

RECORD OF DEATHS DURING THE YEAR 1949

Register Time in Hospital Years Months Days Sex No. Age Cause of Death 8294 F 55 12 6 17 Carcinoma fundus uterus.

TABLE 4

CLASSIFICATION OF DEATHS ACCORDING TO PSYCHIATRIC DIAGNOSIS, 1949 Female Schizophrenia, Catatonic type, Huntington's Chorea Suspected.

PROVINCIAL AUXILIARY MENTAL HOSPITAL, RAYMOND

Movement of Patients.

On January 1, 1949, there were 113 patients in residence. There were four deaths during the year. One patient was received from the Auxiliary Mental Hospital at Claresholm, two from the Provincial Training School at Red Deer, and one patient was admitted on medical certificates.

Accidents and Elopements.

There were no elopements or attempts during the year.

There were three accidents requiring medical attention during the year.

All patients and staff were innoculated against Typhoid Fever in March. In June all patients were given a complete medical examination by Dr. Margaret McWilliam. Twenty patients received Electro-Shock treatments. Six patients and three staff received chest X-rays. One patient was considered to have an active Tuberculosis lesion, and arrangements were made for her transfer back to the Mental Hospital at Ponoka. All patients and staff receive one "Multiple Vitamine" capsule daily during the winter months. General health of the patients has been good with only a few colds at intervals. No gastric upsets during the year.

Dentistry.

In September, Dr. Palmer from the Mental Hospital at Ponoka visited the hospital for a week, examining and doing all work necessary for patients with teeth. Several patients received new dentures and some dentures were re-lined and adjusted.

Occupational Therapy.

This consists mainly of light tasks about the hospital, and employs part of every day approximately 75 patients. The Occupational Parlour is for needlework, sewing, knitting and all hand work.

Library.

The Library is situated in the Occupational Parlor, and one of the patients has the responsibility of listing new books and checking books in and out to the patients. The Occupational fund purchases one new book each month. Many Raymond and Lethbridge friends bring to the hospital large collections of magazines from time to time. Several patients received magazine subscriptions

in gifts. Many patients who do not do handywork, sit in the Occupational Parlour and read. This year a Medical Library for the staff was started with the purchase of many textbooks and subscriptions to weekly and monthly medical magazines.

Religious Services.

The United Church minister, Rev. W. W. Ward of Magrath, holds church services at the hospital one Sundey afternoon each month. One of the patients plays the piano for these services. The Catholic priest holds services for the Catholic patients once each month also.

Recreation and Entertainment.

Twice each month the nurses escort about 5 patients to town to a special afternoon picture show. These shows of the current pictures are quite a stimulant to these ladies, who dress up in their best clothes, fuss with their hair and make-up, and then enjoy the long walk to and from town.

On special days such as Valentine's, Easter, Hallowe'en, etc., the wards are suitably decorated and a party dance given to the patients.

In July, the Annual Sports Day and Picnic was held, with races and games. Prizes for each event are given. Fresh fruit, ice cream, candy and punch are served all afternoon and supper is served on the lawns also.

The patients are especially remembered at Christmas by the town people. The Women's Choir gave a splendid concert and brought Santa Claus with oranges, ice cream and fancy cakes. Groups of young people came up to sing carols outside the windows. The Rotary Club sent up a bag full of treats for each patient. A special party is held in the Occupational Parlour for all the patients who work. They contribute to the concert and receive a fancy lunch and a gift off the tree. Christmas day they receive a stocking of treats, a gift from the hospital, and the parcels from relatives.

For musical entertainment and stories the radios contribute, and several patients take turn playing the piano on the ward.

Approximately 50 patients have afternoon parole and about 20 have evening parole also. As often as the weather permits, the wards are cleared of all patients, and they spend the afternoons on the lawns. Supper is often served there.

Staff Changes.

There was one staff change during the year for summer relief and garden work.

Visitors.

The hospital has been visited periodically by Dr. R. R. MacLean, Director, Division of Mental Health. The Eugenics Board, acting as a board of inspection, visited the hospital in October. The hospital has been visited by fire inspectors and several members of the Department of Public Works, Maintenance, boiler inspectors, etc. The vegetable garden was inspected by the Department of Agriculture, and the cows were tested for tuberculosis and Bang's disease.

Grouns and Gardens.

Considerable work was done to the grounds about the hospital building. Curbing has been put in and gravel roadways made. The lawns were levelled for re-seeding and the ground raised about the main building to give adequate water drainage from the foundation.

The vegetable garden yielded abundantly.

New Buildings.

The Annex for fifteen more patients was completed and will be occupied early in the new year. A new building was erected behind the Nurses' Home building, which consists of a large carpenter shop, large canning and milk pasteurization room and a greenhouse. The old carpenter shop in the Nurses' Home building is being re-decorated for an addition to the Laundry.

Conclusion.

The general health of the patients and staff has remained very good, and the hospital capacity has been maintained throughout the year.

MOVEMENT OF PATIENT PO	OPULATI	ION DU	RING	1949		
In residence January 1, 1949	Male	Female	Total	Male	Female	Total 113
Admissions:						*10
(a) Valuntana						
(b) Certificates		1				
(c) Warrant	1113	1	1			
(d) Order						
(e) Transfers		3	3			
		_	_		A	
						4
					117	117
Re-Admissions:						
(a) Voluntary						
(b) Certificates		****				
(c) Warrant		****				
(d) Order			****			
(e) Transfers						
Discharges During the year:						
(a) As recovered						
(b) As improved			****			
(c) As unimproved			****			
(d) Transferred to other hospitals		4414				
(e) Eloped						
(f) Deported						
(g) As without Psychoses						
(h) Deaths		4	4			
		-	-		4	4
SIn Residence December 31, 1949					113	113

TABLE 2

SHOWING THE PSYCHOSES IN THOSE ADMITTED IN 1949

	Psychoses	Male	Female	Total
02	Psychoses with other forms of syphilis of the central nervous system:			
	021 Meningo-vascular (cerebral)		1	1
08	Psychosis with cerebral arteriosclerosis		1	1
10	Psychoses with convulsive disorders:			
	101 Epileptic deterioration		. 3	3
	103 Other epileptic types (arteriosclerotic)		4	4
11	Psychoses—senile:			
	111 Simple deterioration		1	1
-	115 Paranoid types		2	2
17	Manic-depressive psychoses:			
	171 Manic type 172 Depressive type		1	1
	172 Depressive type 173 Circular type		3	3
18	Dementia praecox (Schizophrenia):		1	1
10	182 Hebrephrenic 'ype		8	8
	183 Catotonic type		19	19
	184 Paranoid type		24	24
19	Paranoia and paranoid conditions:			100
~	192 Paranoid conditions		11	11
21	Psychoses with mental deficiency		8	8
23	With psychoses:			
	234 Mental deficiency:			
	234b Imbecile 234d Unspecified		8	8
	All all and a second and a second and a second as a se		12	12
	235 Disorders of personality due to epidemic encephalitis		2	2
	, and the specific cheeping and			-
	the second se		113	113

TABLE 3

RECORD OF DEATHS DURING 1949

Register No.	Sex	Age		in Hosp Months		Cause of Death
7599	F	68	13			due to fractured end of left Femur due to Cerebro-Vascular
6116	F	75	15	9	28	accident due to Hypertension. Cerebro-Vascular accident due to Hyper-
1913 11781G	F F	63 81	29	1 4		tension due to Arteriosclerosis. Carcinoma of Bowels. Acute Coronary Thrombosis.

PROVINCIAL MENTAL INSTITUTE, EDMONTON

Patient Population Changes.

On January 1, 1949, there were 986 male patients and 350 female patients, making a total of 1,336. This is a gain during the year of 65. During the year a total of 260 patients were admitted in the usual ways. In addition, 138 cases were remanded by the police authorities. These required as much work as new admissions. There were, in addition, seven juvenile delinquents sent in by the Department of Child Welfare. This gives an actual total of 405 new cases. There were three transfers.

During the year a total of 192 patients were discharged and seven transferred. The number of deaths was 54, of whom 42 were over 50 years. Commonest causes of death were the degenerative diseases.

General Health.

This has been good. There were no epidemics. Routine chest examinations continued to be done on all admissions, and this is repeated annually on those remaining in hospital. We were again helped by the Mabile Clinic of the T.B. Division, who X-rayed approximately 800 cases. T.A.B. injections were given to all patients.

Accidents and Elopements.

There were two suicidal deaths, one male and one female. One patient was killed accidentally while eloping, being struck by a freight train.

Treatment of Patients.

Electric shock treatments were given to 227 patients, a total of 310 series being given. Insulin treatments were given to a total of 120 patients. All new patients were given whatever forms of therapy appeared to be indicated. One case of neurosyphilis was admitted and transferred to the Provincial Mental Hospital at Ponoka for malarial treatment. Hydrotherapy was used to the full extent throughout the year. In addition, continued treatment in the form of both electric shock and insulin was given to a large number of patients who had been in hospital for some time.

Occupational Department.

This department carried out a very active programme. Miss Greer joined the department as a student, and in Lecember Miss Knoll was added to the staff. The daily attendance in the department averaged from 70 to 75. Special programmes were carried out for the insuline and electric shock patients. An exhibit was again entered in the Edmonton Exhibition.

Recreational Activities.

Two recreational workers were added to the staff of the O.T. The whole recreational programme was carried out under the supervision of this department. This was a full-time schedule involving all the wards. We continued to be visited by the recreational staff of the D.V.A., who provided one show and one dance per month throughout the winter. We were also able to obtain a generous supply of tickets to events in town such as hockey games, football games, ice cycles, etc.

Library.

This was again added to and its use has increased.

Beauty Parlour.

The activity of this department has been increaser, and is now working on approximately a half-time basis.

Religious Services.

Religious services were held throughout the year. Mr. Appelt of the Lutheran Church began attendance at the hospital during the year. In addition, United, Presbyterian, Anglican, and Roman Catholic services were held regularly. Regular visits were also made by the Jewish clergy.

X-Ray Department.

This department continued to work overtime. A total of 1,382 major examinations were carried out. The operation of short wave diathermy was added to this department. They also examined all new staff and did annual repeat films on the old staff.

Laboratory.

Tuberculin tests were carried out on all new staff, and where indicated B.C.G. vaccine was given. A total of 3,828 examinations were carried out. Mr. McLuhan, a B.Sc. from the University of Alberta, joined this department.

Surgical Service.

This was not a very active department during the year. Most of the work continued to be done in the hospital by the staff. Several cases had to be referred to the University Hospital.

Dental Department.

This department continued the full-time service begun during the previous year. A total of 1,540 patients were seen, and 2,157 treatments were carried out. Of the patients, 804 have had all dental work completed to date. An effective liaison with the School of Dentistry, University of Alberta, has been established and several clinics were held at the hospital for the dental students. Dr. Scott has carried on some investigative work for the school.

Training School.

A total of 36 men and three women graduated in psychiatric nursing, completing the three year course. The enrolment in the other two years remained high.

Department of Building Maintenance.

The construction of a new T.B. dormitory was commenced, and very satisfactory progress made by the end of the year. Unfortunately it was possible to carry out the expected alterations to the kitchen. The need for suitable accommodation for new cases and mild and early cases remains very great. Repair work and considerable painting was done throughout the year. Construction was started on a new O.T. building in the late fall. Replacement of the sewage system also began in October. This was very urgently required.

Fire Protection.

Monthly fire practices were held and all new staff given instruction. Inspections were carried out by members of the Fire Inspectors' Branch.

Farm.

During the year the dairy herd was completely tested by the Department of Agriculture.

Garden.

The production of vegetables was satisfactory, only small amounts having to be purchased. Flowers and plants were supplied for the hospital wards. The grounds were maintained at the usual efficient level.

Laundry.

This department continued to be very busy.

Tailor Shop.

They continued to be very busy. It is hoped to add several more machines and to increase the facilities.

Shoe Shop.

This department functioned quite efficiently.

Sewing Room.

This department, which is concerned largely with repairs to patients' clothing and the supplying of staff uniforms, was, as usual, very busy.

Dietary Department.

The appointment of Mrs. McLeod as Dietitian has resulted in a great improvement in this department as well as efficiency in the use of supplies. She also gave a course of lectures to the students.

Department of Chief Engineer.

Heat and light were provided throughout the year. The usual difficulty with the water supply has persisted. The main connecting us with the city water supply is being renewed, and it is not expected any further difficulties will arise.

Guidance Clinic.

Members of the staff continue to take clinics at intervals throughout the year, especially in the north-east part of the Province.

Police Court.

Full service to the City and R.C.M.P. courts was continued throughout the year. This work is increasing each year. Its importance from a mental hygiene viewpoint cannot be over-estimated.

Business Office.

This department also had a very busy year.

Staff.

The staff situation on the male side has remained good. There is little movement and the general quality remains high. The situation on the female side is somewhat better. There is not the same exchange of personnel, and we have been able to obtain more registered nurses.

Dr. Davis was added to the medical staff. He has had extensive general practice experience. The shortage of medical staff remains a serious problem.

D.V.A.

The D.V.A. have continued to assist us in the recreational field. We are given one movie a week, a number of stage shows and dances. Ex-service patients are taken for bus rides weekly.

Visitors.

The hospital was visited at frequent intervals throughout the year by Dr. Cross, Dr. Bow and Dr. MacLean. The Visiting Board inspected the hospital in November.

TABLE No. 1

MOVEMENT OF PATIENT POPULATION DURING 1949

n reidence December 31, 1948	Male	Female	Total	966	Female 305 27	Total 1271 58
On leave or otherwise absent				31	21	90
Admissions:						
First Admissions:						
(a) Voluntary	15	9	24			
(b) Certificates	44	62	106			
(c) Warrant	27	62	106			
(d) Mental Defectives Act	9	5	14	95	86	181
				95	00	101
Re-Admissions:	7	16	23			
(a) Voluntary	17	17	34			
(b) Certificates	1	6	7			
(c) Warrant	11	1	12			
(d) Mental Defectives Act	11	1		36	40	76
manualana				1	2	3
Transfers						
				1129	460	1589
Total Admissions	132	128	260			
Separations:						
Discharges:	31	36	67			
(a) As recovered	37	44	81			
	26	18	44			
(c) As unimproved						
Total Discharges	94	98	192			
	4	3	7			
Transfers	45	9	54			
Deaths	40	5		143	110	253
		1000		140	110	
Total Separations	143	110	253			
	110			945	328	1273
In hospital December 31, 1949				41	22	63
On leave or otherwise absent					6+6+	00
					And the second s	and the second s

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DEPARTMENT OF PUBLIC HEALTH

TABLE No. 2

		NO. WE COMPANY AND ADD.			
PSYCHOSES OF THE	PATIENT POPULATION,	DECEMBER			Tetal
		(Female	
01 Psychoses with syphilitic m 02 Psychoses with other forms	of syphilis of the centra	al nervous	37	6	43
system	or opposition or one		2		
023 Other types (tabopares	s)		3		
03 Psychoses with epidemic en 04 Psychoses with other infecti	ephalitis	**************	2	1	3
05 Alcoholic psychoses	us uiseases			1	2
054 Acute hallucinosis			5		5
055 Other types (chronic h	llucinosis)		2	1	3
96 Psychosis due to drugs or o 064 Due to other drugs	her exogenous poisons:			1	1
7 Traumatic psychoses:				-	1
073 Post-traumatic mental			4	-	4
8 Psychoses with cerebral art			24	6	30
9 Psychoses with other distur 0 Psychoses with convulsive of			1	3	1
101 Epileptic deterioration	isorders (epnepsy)		4	3	7
102 Epileptic clouded state			22	5	27
103 Other epileptic types				1	1
1 Senile psychoses					1
111 Simple deterioration			7	52	12 2
112 Presbyophrenic type 113 Delirious and confused	types		1	2	1
114 Depressed and agitated	vpes			.2	2
115 Paranoid types			10	1	11
2 Involutional psychoses:	*			-	-
121 Melancholia 122 Paranoid types				5	7
3 Psychoses due to other met.	bolic, etc., diseases:			*	
135 With other somatic dis	ases		1		1
4 Psychoses due to new grow	1:				
141 With intracranial neop	ams	the entertaint :		1	1
5 Psychoses associated with or 151 With multiple sclerosis	anic changes of the hervo	us system :	1	*	1
1533 With Huntington's che	rea			1	i
154 With other brain or ne					3
6 Psychoneuroses: :					
	eria, conversion hysteria				
	ulsive states (and sub-g		1	1	1
	unive states (and sub-g		1	2	3
165 Reactive depression (si	nple situational reaction,	others)	3	2	5
			1	1	2
167 Mixed psychoneurosis 7 Manic-depressive psychoses:		*****************	1		1
171 Manic type		Martin Carlos	17	18	35
172 Depressive type			17	9	26
				1	1
174 Mixed type			1	1	1
177 Other types 8 Dementia Praecox (schizoph	cenia)		1	2	3
181 Simple type			8	ĩ	9
182 Hebephrenic type			58	8	66
			287	110	397
184 Paranoid type 185 Other types		******	200	42	242
9 Paranoia and paranoid cond			42	4	11 42
191 Parancia				1	1
192 Paranoid conditions			1	9	10
0 Psychoses with psychopathic	personality		2		2
1 Psychoses with mental defi 2 Undiagnosed psychoses	iency		59	31	90
3 Without psychoses:			5	3	8
231a Epilepsy			1	2	3
231b Epilepsy with mental	ieficiency		19	4	23
232 Alcoholism 233 Drug addiction			3		3
234 Mental Deficiency:				1	1
the second secon			21	14	35
234b Imbecile			60	31	91
234c Moron			27	4	31
234d Unspecified 235 Disorders of personali	u due te enidemie encor		2	1	3
this propers of personality	y due to epidemic encep	nalitis	2	1	3
236 Psychonathic personal					
236 Psychopathic personal	emotionality		1		
236 Psychopathic personal	emotionality		1	4444	1
236 Psychopathic personal 2362 With pathologics 2422 Conduct disturbance	emotionality		1 2		2
236 Psychopathic personal 2362 With pathologics 242 Primary behaviour disorders 2422 Conduct disturbance	emotionality				1 2 1
236 Psychopathic personal 2362 With pathologic: 24 Primary behaviour disorder: 2422 Conduct disturbance 2423 Neurotic traits	emotionality		2		

.

TABLE No. 3

PSYCHOSES BY ADMISSION, 1949

	FSTCHOSES DT ADMIDDION, 1940	Male	Female	Total
01 02	Psychoses with syphilitic meningoencephalitis (general paresis) Psychoses with other forms of syphilis of the central nervous	****	2	2
	system: 023 Other types (taboparesis)	1		1
04	Psychoses with other infectious diseases: :	1		1
05				
00	052 Delirium tremens	2		2
	054 Acute hallucinosis	4 2		4 2
00	055 Other types Psychoses with cerebral arteriosclerosis	11	1	12
08 09	The stress with other disturbances of simplification!			
05	991 With cerebral embolism 993 Other types			1
	093 Other types		1	1
10	093 Other types Psychoses with convulsive disorders (epilepsy) 101 Epileptic deterioration 102 Epileptic clouded states 103 Other epileptic types		1	1
	101 Epileptic deterioration	1		î
	102 Epileptic clouded states		2	2
11	Senile psychoses:			
	111 Simple deterioration	4	6	10
	119 Prechyonhrenic Type		2	2
	111 Demessed and agitated types	3	3	6
	114 Depressed and agriated types			
12	Involutional psychoses: 121 Melancholia	2	6	8
14	Developees due to new growth'			
	141 With intracranial neonlasms		1	1
16	Psychoneuroses	1		15
	164 Hyprochondriasis 165 Reactive depression	13	4 8	11
	165 Reactive depression 166 Anxiety state	2	0	2
17		2 2 4	2	4
11	171 M;anic type	4	8	12
	170 Democratics tune	3	9	12
				2
	177 Other types		3	3
18			1	4
			28	57
	184 Paranoid type	6	4	10
	183 Catatonic type 184 Paranoid type 185 Other types	2	1	3
19			3	6
	Paranola and parahold conditions. 192 Paranold conditions Psychoses with mental deficiency	2	3	5
21 22	Undiagnosed psychoses	2	1	3
23	Without psychoses	1	1	2
20			2	3
	231 Epilepsy only 231a Epilepsy only	1 2		2
	231b Ephepsy with mental dericiency			16
	232 Alcoholism 233 Drug Addiction		0	9
	and Mantal Definionau:			
	Oldo Idiot '	2		4 9
	224b Imbecile	. 3		95
	234c Moron 234d Unspecified			1
		i		1
	235 Disorders of personality due to epidemic enceptantis	. 3		4
	2364 Mixed types	1	1	2
24	Primary behaviour disorders:	. 2	,	2
	4 Primary behaviour disorders: 241 Simple Adult Maladjustment		5000	
	Totals	132	2 128	260
	L'OTTES		-	-

TABLE No. 4

NATIVITIES OF PATIENTS ADMITTED DURING 1949

	Male	Female	e Total		Male	Female	e Total
Austria Canada Czechoslovakia England Finland Germany Holland	83 2 10	2 88 12 1 1 2		Poland Roumania Russia Scotland Sweden United States Other Countries	3 5 1 9 2	6 1 5 2 3	$ \begin{array}{c} 10 \\ 1 \\ 4 \\ 10 \\ 3 \\ 12 \\ 2 \end{array} $
Hungary Ireland Norway	6	1 3	1 9 3	Totals	132	128	260

. . . .

TABLE No. 5

AGE OF PATIENTS ADMITTED DURING 1949

		Firs	st		Re-				
	Ad	miss	ions	Adr	nissi	ons	т	s	
Ages	M.	F.	Т.	M.	F.	T.	M.	F.	Τ.
Under 15 years	3	2	5	1	2	3	4	4	8
15 to 19 years	8	9	17	1		1	9	9	18
20 to 24 years	-11	7	18	3	4	7	14	11	25
25 to 29 years	12	16	28	4	2	6	16	18	34
30 to 34 years	9.	12	21	1	2	3	10	14	24
35 to 39 years	7	4	11	9	12	21	16	16	32
40 to 44 years	6	4	10	3	5	8	9	9	18
45 to 49 years	7	8	15	7	6	13	14	14	28
50 to 54 years	1	6	7	1	1	1	2	6	8
55 to 59 years	5	6	11	3	3	6	8	9	17
60 to 64 years	8	4	12	2	3	5	10	7	17
65 to 69 years	6	3	9				6	3	9
70 and over	13	7	20	1	1	2	14	8	22
	-	-							
Totals	96	88	184	36	40	76	132	128	260

TABLE No. 6

DISCHARGES, CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSES AND CONDITION OF DISCHARGE, FOR THE YEAR 1949

-

Recovered Impressed Uningeness

Psychoses	Recovered	Improved	Unimproved	To	otal	
05 Alcoholic Psychoses:						
052 Delirium Tremens	M. F. T.	M. F. T.	M. F. T.	M.	F.	T.
054 Acute hallucinosis		1 1		2		2
055 Other types		2 2				22
0 Psychoses with cerebral arteriosclerosis		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1		1
09 Psychoses with other disturbances of cir		1 2 3	1 1	1	3	4
culation				200		i
091 With cerebral embolism					1	ĩ
10 Psychosis with convulsive disorders	1 1				î	î
(epilepsy)		1 1			î	î
101 Epileptic deterioration				1	î	2
103 Other epileptic types				1		-
11 Senile Psychoses:			2 2		2	2
111 Simple deterioration		1 1 2				3
114 Depressed and agitated types				2	1	
			1 2 3	1	2	3
115 Paranoid types				~		
12 Involutional Psychoses: 121 Melancholia	2 1 3			2	2	4
121 Melancholia		1 1			1	1
16 Pspchoneuroses				1		1
162 Psychasthenia or compulsive states		1 1			1	1
163 Neurasthenia		1 1		1	2	3
164 Hypochondriasis	3 3				6	6
165 Reactive depression		1 1		1		1
166 Anxiety state				1	2	3
17 Manic-depressive psychoses	4 5 9		1 1	4	8	12
171 Manic type	. 3 8 11	1 2 3		4	10	14
172 Depressive type	. 1 1			1		1
173 Circular type	1 1	1 1		1	1	2
177 Other types	. 1. 1	1 1		ĩ	2	3
18 Dementia praecox (schizophrenia)	1 1			î	-	1
181 Simple type	4 11 15	17 14 31		23	25	48
183 Catatonic type						-
184 Paranoid type	. 2 1 3	1 2 3	2 2	5	3	8
185 Other types				i		1
19 Paranoit and paranoid conditions:			A A			
192 Paranoid conditions	. 1 2	2 2	2 2	5		5
21 Psychoses with mental deficiency	··· • • 4	6 6		2		
22 Undiagnosed psychoses	1 1 0					23
23 Without psychoses	1 1 2			2	1	
231a Eniloney only	··· 1 ···· 1			1	1	2
231a Epilepsy only 231b Epilepsy with montal definioney	··· · · · · · · · · · · · · · · · · ·	1 2 3		1	2	3
231b Epilepsy with mental deficiency 232 Alcoholism	10 1111 1111 1111			1	1	2
				11	3	14
	1 1	6 6			8	8
234 Mental deficiency		1 1		1	2	3
234b Imbecile					1	1
234c Moron		1 1 2	3 3	4	1	5
236 Psychopathic personality		1 1		2	1	3
2364 Mixed types	1 1	1 1		1	1	2
2363 With asocial or amoral trends		1 1	1 1	2		2
24 Primary behaviour disorders:						
241 Simple adult maladjustment	1 1		. 1 1	2		2
242 Primary behaviour disorders in chi	-					
dren:						
2422 Conduct disturbance			1 1 2	1	1	2
					-	-
Totals	31 36 67	37 44 81	26 18 44	94	98	192

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	7					12											
	lal	-	**	61	4	00	4									199	
	Tot	4	63	1	03	10	01									98	
		W	4	1	-	00	64	-	100	11	32	10 1	- 27	24	64	16	5
	2 years	H				-			-	-	00	04	1	4		12	
	ove	i.											1	03		1 ~	
	61	W.							-	1	00	-		61	1.	19	
	- 10	H	1-	i		1	-		11	i		1	: :	-		0	
	nden /ear	Ľ.	11	-		1						-				1	
	Under 2 years	M.	-													101	
		-															
E	hs	÷	11			-				-	01			00	-	1 -	
SNC	iont	E.								1	-			-	1	**	
IDE	Under 18 months					-					-			:01		14	
RES	-	R	1.1							-						1	
OF	18	÷			-	-				01	01	-				~	,
	der																
LIOI	Uno	-							-							0	
DURATION	Under 12 months	N			-					-	-	-				15	
DO										_	~						
UN	Under months	F					-				H					11	
WID	Und	14							-	-	-		-			121	
SHOWING	6	M.					1111				10					1 10	1
194	Under months	H	-		-	1	-	-	1	00	18	C1 -	- 6	न्		39	
DN	Dud	E.	1		-	1				6	10		-	01		20	1
DURING 1949-	9	M.					-	-	•	01	00	c1 ·	- 01	101	-	16	
DI																	
SHE	ths	H	4 03	03	0	101	63		10	20	25			100	01	58 107	
ARC	3 months	F.	6.1	-	0	101	¢4		00	13	11		-	16		58 10'	}
DISCHARGES	310	M.	*	-			-		03	1-	14		-	17	64	49	-
DIS																	
			s	Jo				0		-							
			eros	es	L2		- Anna	with organic									
			scl	Dano	orde			org			ula)	Suo	cy				
			terio	turl	disc		and a second	h		-	ure	litio	CIEL				
			art	dis	ve			wit		ses	zopl	con	letti		der		
		ses	oral	t	ulsi		es	p		vcho	chi	D.	al		isor		
		chot	eret	oth	onv		hos	late		fisd	K (3	ano	cho	30	II O		
		Psychoses	choi h	with other disturbances of	vith co	ses)SYC	SOC	s.	ive	ecos	par	n n	1056	viot		
			psyc		wit	cho	al Is	asthe	rose	ress	pra	pu	MIL	sycl	eha	Totals	
			ses	ses	ses sv)	Asd	ion.	ses and	nen	dep	tia	13 3	Ses	t p	y b	To	
			Alcoholic psychoses Psychoses with cerebral arteriosclerosis	Psychoses	Psychoses with convulsive disorders	Senile psychoses	nvolutional psychoses	Psychoses associated with organic	sychoneuroses	Manic-depressive psychoses	Dementia praecox (schizophrenia)	aranoia and paranoid conditions	"sycnoses with mental deficiency	Without psychoses	Primary behaviour disorders		
			Alc	Psy	Psy	Sen	Inv	Psy	Psy	Man	Der	Par	Unc	WIt	Prin		
			028	60	10		12	12	16	17	18	61	100	181	54		
						-			1		-	-			-		

TABLE 7

DEPARTMENT OF PUBLIC HEALTH

TABLE 8

RECORD OF DEATHS, 1949

-			(T)	in Has	Ital	
Registe		1 00		Months.		. Cause of Death
No.	Sex.	Age.		months.		
178	M	55	25			Myocardial degeneration.
243	M	60	24	7		Acute lobar pneumonia.
262	M	76	23	10		Myocardial degeneration.
295	M	76			21	Fatty degeneration of the heart.
314	M	63	23	4		Pulmonary tuberculosis.
355	M	46	15	4	2	Fatty degeneration of the heart.
453	M	47	19	2.12		Gangrene of the bowel.
474	M	35	16	11	5	Encephalitis lethargica, acute exacerbations.
488	M		- 17	1	4	Myocardial degeneration.
497	M	76	17		5	Myocardial degeneration.
494	M	71	21	2	27	Cerebral haemorrhage.
507	M	75	17	4	20	Cerebral haemorrhage.
546	M	68	16	7	6	Chronic myocarditis.
557	M	66	17		15 8	Myocardial degeneration.
866	M	47	14	10	3	Cachexia. Myocardial degeneration.
872	M	76	25	10		
801	M	51	11	10	11 25	Myocardial degeneration. Fatty degeneration of the heart.
907	M	61	18	5	4	Myocardial degeneration.
940	M	57	12	1	18	Pulmonary tuberculosis.
973	M	52	11	7	10	Mitral stenosis.
978	M	57	11	2	25	Acute haemorrhagic pulmonary oedema.
1041	M	49	11	4	13	Acute heart failure.
1089	M	63	10			Myocarditis.
1149	M	28	13	. 1 10	5	
1164	M	56	87	10	6	Acute ventricular fibrillation.
1253	M	32	6	1	19	Septic pneumonia.
1544	M	62	6	2	6	Exacerbation of a chronic encephalitis.
1565	M	56	4	5	21	Terminal pneumonia.
1792	M	47 42	4	5		Bronchopneumonia.
1855	F		3	9	22	Fracture of skull and lacertaions of brain.
1917	M	46 90	3	7	17	Chronic myocarditis.
1953	M	51	4	3	3	Myocardial degeneration.
1956	M	50	6		29	Right coronary artery thrombosis.
1958	M	56	3	9	13	Myocarditis (degeneration).
1974	M	54	3	10	4	Cerebral haemorrhage.
1987	M	31	2	6	10	Chronic endocarditis (rheumatic).
2093 2102	M	61	2	3		Acute circulatory failure with acute pul-
2102	INI	01	-			monary oedema.
2223	м	60	1	2	18	Cerebral haemorrhage.
2325	M	82		5	17	Myocardial degeneration.
2332	F	60	1	ĩ	20	
2396	M	79	î		27	Myocardial degeneration.
2447	M	70		9	17	Myocardial degeneration.
2467	F	70		3	18	Hypostatic pneumonia.
2470	M	63			19	Myocardial degeneration.
2481	F	55			16	Hypertensive heart disease with cardiac
	-					failure.
2489	F	34			17	Acute myocarditis.
2500	F	72			3	Cerebral Arteriosclerosis.
2512	F	60		1		Inanition due to senile psychosis.
2524	F	87			23	Coronary occlusion.
2543	M	64			15	
2556	M	50		1		Death under pentothal anaesthesia.
2585	M	56			11	
2591	M	67	1914		19	Myocardial degeneration.
		Tot	tal, 54			

TABLE 9

DEATHS DURING 1949 BY PSYCHOSES

Male Female Total

		analise.	* contract	
01	Psychoses with syphilitic menengoencephalitis (general paresis)	3		3
03	Psychoses with epidemic encephalitis			ē
08	Psychoses with cerebral arteriosclerosis	4	2	0
	Psychoses with other disturbances of circulation	1	1	2
09	Psychoses with other disturbances of circulation			-
10	Psychoses with convulsive disorders (epilepsy)	1	2011	1
11	Senile psychoses	5	2	7
-			-	
12	Involutional psychoses: :			
	121 melancholia	2010	1	- 1
10	Psychoses due to other metabolic, etc., diseases	1		1
13				
17	Manic-depressive psychoses	3	1111	3
18	Dementia praecox (schizophrenia)	14	2	16
		- 1		1
19	Paranoia and paranoid conditions			4
21	Psychoses with mental deficiency	2	1	3
00	Without psychosis	9		9
60	without psychoaia			
		-		
	Totals	45	9	54

775	A. 1	DI	100	10
C 1 1	A.	PN 2	1000	

NUMBER OF OFFICERS AND EMPLOYEES ACCORDING TO CATEGORIES

	Male	Female	Total
Medical Superintendent	1		1
Medical Officers	4	1	5
Dentist	1		1
Business Superintendent	1		1
Clerical and Stenographic Staff	3	6	9
Laboratory Technicians	1		1
X-Ray Technicians	1		1
Occupational Therapists	1	3	4
Industrial Therapy Instructors	2	2	4
Nurses (Registered)		12	12
Nurses (mental graduates)	45	6	51
Attendants and Ward Aides (non-student)	32	18	50
Attendants and Ward Aides (1st year students)	19	23	42
Attendants and Ward Aides (2nd year students)	8	3	11
Attendants and Ward Aides (3rd year students)	11	4	15
Dietitian		1	1
Kitchen Help	15		15
Laundry Help	2	5	7
Domestic Help		8	8
Garden and Farm Help	13		13
Engineers and Mechanical Help	20		40
Other maintenance help	3		3
		-	-
Total	203	92	295

PROVINCIAL TRAINING SCHOOL, RED DEER

In Residence, Admissions, Paroles, Deaths.

The patient population of the School at the end of this year consisted of 293 patients, of which there 159 male patients and 134 female patients. There were 40 admitted 16 male, 24 female).

Of these admissions, 28 (13 male, 15 female) were first admissions and 10 were re-admissions (one of whom was a transfer from the Provincial Mental Institute), and 2 transfers.

We were able to parole 32 patients (14 male, 18 female) in the core of their families or for outside work on farms or for domestic work, and with notably few exceptions have achieved successful community acceptance of these children and praise of their mode of work and social adjustment. There were 5 transfers (2 male, 3 female) and a total of 8 deaths (6 made, 3 female). Details of these groups are given in Tables 1, 3, 4, 5, 6, 7.

Applications for Admission.

During the year there were 80 application forms sent for admission of Mentally Deficient children. In contradistinction to former years these application forms, accompanied by Guidance Clinic assessment memoranda, have given a greater overall survey of the problem of admission and have permitted us to judge with greater validity the children requiring most urgent admission.

Sterilizations.

Twenty-two cases (5 male, 17 female) were presented to the Eugenics Board. Of these, 1 male was not approved and 5 females were deferred. Four males and 9 females were sterilized this year, including 1 female from 1948 list. Four females were awaiting sterilization.

One Guidance Clinic case was compiled at the School, presented to the Board, and subsequently sterilized.

Staff Changes and Activities, Training, etc.

On 3rd July, 1949, Drs. D. L. McCullough and Mary Mc-Cullough retired after 18 years of devoted service in the School's interest.

The traditions which they set for the care and training of the children were most valuable in forming a central core of trained personnel to train the comparatively large number of female personnel who joined the staff towards the latter half of this year.

Health of Staff and Patients.

There has been little serious illness during the year.

There have been several members of the staff affected with an acute follicular tonsilitis, and we have isolated a Strept. haemolyticus organism in most instances.

One of the patients at the School suffered a double malleolar fracture while playing. There was no loss of function and normal activity has been resumed.

On May 26th, the Mass Miniature Radiography Unit made a survey of the chests of patients and staff of the School and were unable to detect a single case of active Pulmonary Tuberculous infection.

Arrangements have been completed with the Full-time Health Unit of Red Deer to conduct a Tuberculin test survey of the entire School and immunize all members, patients and staff, who do not already show positive response, in an effort to maintain this high standard of respiratory health.

Through the facilities offered by the Dominion Federal Grant we were able to set up a Dental Surgery and obtain the services of Drs. Husband and Oatway, both acting in conjunction as part-time dentists for the School.

Work is at present conducted on one afternoon per week and in 4½ total days' work.

We tabulate as work accomplished:

Examinations	57
Deep Scalings	40
Simple Fillings (1 surface)	11
Extractions	23
Compound Fillings (2 or more surfaces)	38
Prophylaxis	14
Adjusting occlusions	1

In consultation with our part-time dental saff we have reduced the number of children who were having low-grade diet (requiring no mastication) from approximately 175 to barely 25.

Training Programme.

The overall aim of the training programme is to produce selfcontrolled, self-confident, at least partially self-supporting citizens. The training scheme is being expanded and altered in such ways that a larger number of trainees may be returned to the community and successfully adjusted therein. Character building is emphasized in all branches of training. The importance of developing in the trainees proper social attitudes, good habits of thought and action is stressed to all staff members. Not only the qualified teachers and therapists, but every member of the staff is regarded as an instructor in some phase of life.

Co-education has been introduced into the academic classroom

and has resulted, among the school children, in a much better adjustment to members of the opposite sex. Co-education will therefore be gradually introduced into those training departments concerned with the older trainees.

Due to the increased facilities provided through the Federal Health Grant the training programme has been expanded with regard both to the types of training provided and the number of children receiving specialized training. With the increase in instructional staff the trainees receive the benefit of much more individualized supervision and instruction.

The types of training being given may be divided into four main categories: Sense training, academic training, occupational training, and recreational training.

Sense Training: Four sense training classes were established. Three of these classes were concerned with the younger children. The fourth was comprised of older trainees who had some particular sense defect.

Academic Training: Three academic classrooms were set up pre-primary, primary, and elementary. The number of children receiving academic training has been increased to some extent; the number of pupil-hours per day has been tripled to 165 pupil hours daily.

The school programme was revised and more emphasis placed on pupil participation. Although formal lessons are a necessary part of each teaching day, simple projects and other pupil activities play a large part in the classroom programmes.

Occupational Training: School children in their secoid or third year of elementary work were assigned, during out-of-school hours, as helpers in the various work departments and thus receive an initial training therein.

When it was evident that a trainee would receive little further benefit from academic training he (she) was placed in the category "Full-time Worker". Those workers who were somewhat trainable, but of a non-parolable classification, were trained to do useful and necessary jobs around the school. Those of parolable calibre received an intensive training in the work of each of the various departments. A monthly progress report was submitted on each trainee and a record kept of his (her) efficiency in each department. Those who showed special interest and ability in any particular type of work were given additional training and instruction therein.

The girls received contact training in the following departments: Laundry, sewing room, dining room, kitchen, domestic and wards. There were daily classes in which girls receive instruction in sewing, knitting, embroidery, crocheting, dressmaking, and in the use of hand and power sewing machines. Cooking classes have been started.

The boys were given practical training in general farm work, as gardener's helper, carpenter's helper, and in general janitor and handyman work. Daily classes were held in which boys received formal training in carpentry, painting and varnishing. The school baker gave selected boys training as baker's assistants. Recreational Training: In the warmer months the recreational activities are, in the main, of an outdoor nature. In the winter months, apart from skating and sleighing, most activities are carried on in the new Recreational Hall. Children are encouraged to participate in team sports and group activities.

A weekly movie and periodic dances, parties and concerts are held for the children. In the evenings extra staff are assigned to each ward whose duty it is to organize activities which will keep the children interested and occupied until bedtime.

Bedridden and wardbound patients are regularly supplied with toys, games, jig-saws, books, and are encouraged to pursue any hobbies in which they show interest and ability.

There is a summer camp in operation. The children are allowed to stay there, under supervision, for several days at a time, and thus are given a break from the necessary routine of institutional life. Boy Scout and Girl Guide troops are being organized. When these are well established, Brownie and Cub packs will be formed.

Negotiations are in progress to acquire the services of a Recreational Therapist. With this addition to the staff and with the increased recreational equipment made possible by the Federal Health Grant, the Recreational Training programme can be expanded and improved.

Psychotherapy: Those trainees who, because of personality and behaviour difficulties, had become discipline problems were given psychotherapeutic interviews. It was found that because of their low level of intelligence the usual psychotherapeutic measures were not too effective. However, a modified form of psychotherapy, making use of strong suggestion and positive guidance, has resulted in a noticeable improvement in the general behaviour of these problem cases. Individual psychotherapy is a slow, time consuming activity, and is of benefit only to the immediate contact. For this reason it was felt that Group Therapy might provide an even greater facility for character building and strengthening amongst our defective population, and plans have already been implemented to inaugurate this early in the new year.

Training Programme for Nursing Personnel.

We have (due to our large augmentation of staff), reinaugurated an intensive training programme for our nursing personnel.

The direction in which we are attempting to orient this training has been to, in so far as possible, get away from a hospital attitude and more towards an attitude of the School functioning as a homesubstitute. The stress has been placed on the training of children to prepare them for discharge to the community.

We have, however, not been able to neglect the importance of some regular medico-surgical nursing training since there is a not insignificant proportion of bedridden and non?ambulant population.

We are indebted to the Parsons Clinic in Red Deer for donating several hours each week as lecturers in Medicine, Surgery, and Pediatrics; to the Director of the Full-time Health Unit of Red Deer, Dr. Charles More, for lectures in Public Health, Communicable Diseases and First Aid; to Dr. D. L. McCullough for weekly lectures on Anatomy and Physiology; and to Dr. J. L. Edwards for lectures on Anatomy and Psysiology of the Nervous System. Their work has proved invaluable in enabling us to train a large group of over fifty persons to a high level of competency.

Extra-school Activity.

With the co-operation and facilities made available by the Fulltime Health Unit, since October 21st, 1949, we have been able to establish a Psychiatric Guidance Clinic both for adults and children at Red Deer. This meets twice weekly. Since its inception we have seen 28 new cases. In many instances there have been as many as three interviews with each patient. At the beginning, the preponderant type of patient seen was the mental defective. Since mid-November there has been considerable alteration in the picture. It is the normal child whom we are mainly now seeing, who is brought in by parents who seek advice and guidance in solving the numerous difficulties which may arise during the transition from child to adult life. Adult cases have also started turning up, and in December alone there were four.

This service is very favourably regarded by the local medical practitioners, who have indicated this both verbally and by their degree of co-operation.

Guidance Clinics were also attended at Didsbury and Rocky Mountain House.

New Accommodation and Its Benefits.

Three new wards were completed during the year. These are of the villa type and have incorporated many new and original features to facilitate the care and attention necessary for the wellbeing of the children-patient population. Heat is delivered into the day rooms and dormitories via units fixed in the ceiling and under the floor. This permits of equable thermostatically controlled temperature throughout the ward without the previous dangers of being burned by hot radiators. This also makes easy access to all parts of the floors for cleaning instead of (as previously) having areas immediately under and behind the radiators, where dust and dirt would perforce collect.

Perhaps even more important has been the facility now made available by these new wards to reclassify the patient population into mental and chronological age levels and redistribute them in suitable wards, and in this way invite the admixture of various types of defectives in the same ward. This policy has already proved its value by the overall easier management and progress we have been able to make with all the levels of our children population. Nursing has also been made considerably easier by the new groupings of the patients.

Work has progressed considerably on the new higher-grade girls' dormitory. The structure has had the foundation, outer walls, and roof completed. Work continues on the inside when weather permits. This building will be used for the trained higher grade girls who are awaiting placement and parole in the community.

The main building has been reconstructed inside in its entirety. This, one feels, has helped considerably in the recruiting of nursing staff to bring us to a normal level.

The new accommodation is most commodious, and at present we are able to offer our nursing staff many facilities in the way of bedroom accommodation, recreational facilities et al, which might be the envy of several larger and more important hospitals and institutions. Morale amongst the nursing staff has shown considerable strengthening recently, and it is felt that better living conditions are, in the main, strongly contributory.

A new Recreation Hall was completed this fall. It offers facilities of basketball, volleyball, gymnastics, in the way of athletics for many of the children. In addition, it offers many social, cultural and educational possibilities, such as giving us greater scope for sense training for the younger children, also concerts, cinema, and dances for all the children of sufficient mental age.

Farm and Garden Produce.

The farm has not been able to produce the yield of previous years. This has been largely associated with inclement weather conditions which affected many farms of the Red Deer district, and we were obliged to supplement our farm produce by purchases of such basic requirements as potatoes, straw, and farm animal feeding stuffs in the early autumn.

Laundry and Sewing Room.

There is little new to report in these departments. The Laundry has had three new drying machines installed, which has greatly accelerated the handling of the clothing. It is, however, conceivable that in the not too distant future a larger and more commodious building will need to be erected to cope with the expanding requirements of the School.

The Sewing Room is sufficient at present for our requirements.

Kitchen and Diet.

The reconstruction of the Kitchen was completed during the year. Three ice boxes were built in, and a dishwashing machine and two steam kettles added. Gas pipes have been laid for the addition of gas ovens.

Towards the close of the year we were able to add a supernumery assistant cook and baker to the staff. It is hoped to be able to utilize his services, in addition to our culinary requirements, as a means for a special vocational project for our higher grade boys and girls. This instruction in baking will prepare them, when they leave the School, to obtain work as assistants in cake and bread-making establishments.

Acknowledgment.

We are not unaware that our new work has received considerable impetus by the suggestions and facilities made possible by the Hon. Dr. W. W. Cross, Minister of Health, and the Deputy Minister, Dr. Malcolm R. Bow.

We are particularly desirous of expressing our thanks to Dr. Randall R. MacLean, Director of Division of Mental Health of Alberta, for the sympathetic consideration he has always given us and for the patience displayed in helping us solve the infinite problems with which we presented him during our first year in office.

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TABLE 1

MOVEMENT OF FEEBLE-MINDED POPULATION

Defectives on backs of Institution of Tenness		040.		Male	Female	Tota
Defectives on books of Institution at January In Provincial Training School, Red Deer,				165	133	298
ADMISSIONS:		Female				
1. First admissions, voluntary 2. Re-admissions	$13 \\ 1+1$	15 8	28			
3. Transfers:	1+1	0	0			
From P.M.I., Edmonton	1+1		2			
From P.M.H., Ponoka		1	1			
Total number of admissions			_	16	24	40
Total number of Defectives on books d	uring	1949		181	157	338
OUTGOING:						
1. Parole	14	18	32			
2. Transfers: From P.M.I., Edmonton	1					
From P.M.H., Ponoka	1	1				
From P.A.H., Raymond		2	58			
3. Deaths	6	2	8			
Total number outgoing	-		-	22	23	45
Total number outgoing						-40
		. 31st, 1		159	134	293

TABLE 2

AGE OF RESIDENT POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS

			Idio	t	Im	ibec	ile	N	fore	n	Т	'otal	s
A	ge Group	M.	F.	Т.	M.	F.	T.	M.	F.	T.	M.	F.	Т.
0-4 5-9		1	15	1 6	10	R	16	3	2	5	14	13	1 27
10-14		9 12	11	20 16	22 15	11 6	33 21	11	7	18 20	42 34	29 23	71 57
15-19 20-24		10	5	15	15	9	24	1	4	5	26	18	44
26-29 30-34		4	47	11	14 6	6	20 12	2	2	2	21 10	12 15	33 25
35-39 40-44		3	33	3	32	4	10 6	1	1	12	3	11	18 10
45-49 50-54			3	3	1	2	3				1	6	6 1
	Totals	44	46	90	89	57	146	26	31	57	159	134	293

TABLE 3

MENTAL STATUS OF FIRST ADMISSIONS, RE-ADMISSIONS AND TRANSFERS Totals M. F. T. 5 7 12 6 5 11 5 12 17 Mental Status Idiot Imbecile Moron 16 24 40 Totals

TABLE 4

NATIVITY OF INCOMING PATIENTS

Fir	rst Admissions		Re-admissions			Tra	nsfe	rs	Totals			
	M.	F.	Т.	Μ.	F.	Т.	M.	F.	Т.	M.	F.	Τ.
British Columbia	11	113	1 24		1 6	17	2		3	14	2 20	2 34
Saskatchewan	1	1	2							1	1	2
England Unknown					1	1					1	î
Totals	13	15	28	1	8	9	2	1	3	16	24	40

DEPARTMENT OF PUBLIC HEALTH

* TABLE 5

AG	E OF ADMISSIONS C		FIEI		H REF	ERI	ENCE	TO	MEN	TAL	STA	rus	
	1	M. First A		T. ssions	M.	F.	T.	M.	F.	T.	M.	F.	т.
1-4 5-9 10-14		3	1 6 4	1 9 14				1		1	4 10	165	1 10 15
15-19 20-24			4	4	1	3 2	4 2	1		ī	2	7 2	92
25-29						2	2					2	2
00-00	Totals	13	15	28			-9				16		$\frac{1}{40}$

TABLE 6

OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS CHRONOLOGICAL AGE, YEARS IN RESIDENCE DISCHARGES:

DISCHARGE	S:				
Age Group	Idiot M. F. T.	Imbecile M. F. T.	Moron M. F. T.	Condition on discharge	Years in residence
5-9		1 1		Improved	4/0
10-14			1 1	Unimproved	/2
		1 1		Unimproved	/3
			1 1	Improved	2/2
			1 1	Improved	1/5
			1 1	Improved	1/2
	1 1			Unimproved	/1
		***** ***** ****	1 1	Improved	3/4
15-19			1 1	Improved	8/6
			1 1	Improved	1/3
			1 1	Improved	3/0
		*****	1 1	Improved	8/0
			1 1	Improved	2/9
			1 1	Improved	4/0
			1 1	Improved	4/3
			1 1	Improved	/11
			1 1	Improved	4/3
			1 1	Unchanged	2/5
			1 1	Improved	5/9
			1 1	Improved	3/5
			1 1	Improved	4/9
			1 1	Improved	8/1
			1 1	Improved	3/8
			1 1	Improved	/1
20-24			1 1	Improved	4/0
			1 1	Improved	21/5
			1 1	Improved	3/3
			1 1	Improved	15/3
25-29		**** **** ****	1 1	Improved	3/3
30-34		1 1		Improved	18/11
10.11		1 1		Improved	16/11
40-44		1 1		Improved	25/9
TRANSFERS	:				
20-24			1 1	Developing psychosis	2/4
		1 1		THE LAST A LAST	12/2
25-29			1 1	3.5 25	7/2
40-45		1 1		Press and a second seco	20/7
		î î		Cumanammunated	
				Superannuated	19/4
Totals	1 1	4 4 8	11 18 28		248/0

TABLE 7

DEATHS CLASSIFIED WITH REFERENCE TO CAUSE OF DEATH, AGE GROUP, MENTAL STATUS, YEARS IN RESIDENCE

	Age Group	1	dic	ot	Im	bec	ile	Years in residence
Status Epilepticus	5-9		1	1				1/7
Pneumonia			1	1				1/2
Influenza: Respiratory	14.14	1						
Respiratory Respiratory and Abdominal	14-14	1		1				7/11
Bronchopneumonia	15-19	1		1				7/10 8/0
Pneumonia	20-24	1		î				16/0
Inanition due to Psychosis	30-34	1		1				18/0
Cerebral Pressure					1		1	23/4
		-		-		-		
		5	2	7	1		1	83/10

TABLE 8

STAFF-DECEMBER 31, 1949

MEDICAL SUPERINTENDENT		Female	Total
Medical Assistant			
Teachers:			
Grade (Normal Graduate)		1	1
Sense Training		1	1
Occupational Therapist		1	1
Gym Instructress			
BUSINESS SUPERINTENDENT	1		1
Clerk/Assistant		1	1
Medical Secretary		1	1
Stenographer		1	1
Bookkeeper/Stenographer	1	1	1
Clerk/Storekeeper Kitchen Staff		5	5
Kitchen Staff Dining Room Staff		4	4
Laundry Staff		4	4
Sewing Room Staff		3	3
Gardener	1		1
Farmer and Farm Help	2		2
Dairyman	1		1
MATRON, S.R.N. Eng.		1	1
Assistant Matron, Acting only, M.D.G.		i	î
Surgery Nurse, R.N.	. 1		1
Night Supervisors, M.D.G.		2	2
Attendants and Ward Aides:			
Approved		5	12
Student		24	28
Non-student	. 8	5	13
General Maids		1	1 3
Farm Dormitory		-	3
Extra Assistance			
SHORTAGES:			
Gym Instructress Kitchen Maid		1	1
General Maid		1	1
Ward Aide		1	î
PUBLIC WORKS:			-
Boiler Room Staff	6		
Maintenance Staff			65
Night Watchman			1
EMPLOYED UNDER DOMINION HEALTH PROGRAMME:			-
Educational Psychologist			1
Teachers, Grade (Graduates)	· +	2	2
Dentist (part time)	1		ĩ
	-		_
Total number of Employees	. 46	65	111

ROSEHAVEN, CAMROSE

Movements of Residents.

On January 1, 1949, there were 183 residents at Rosehaven— 102 were men and 81 women. In residence on December 31, 1949, there was a total of 202—111 men and 91 women.

Admissions to Rosehaven were as follows: 9 from P.rovincial Mental Institute, Edmonton, 3 from Provincial Mental Hospital, Ponoka, 3 returned from leave of absence, making a total of 30 admissions in 1949.

There were four discharges to other institutions, four discharged on leave of absence, and 16 deaths in 1949, making a total of 24 deaths and discharges.

One resident remained on leave of absence throughout the year.

Accidents and Elopements.

During the year 1949 there were only six accidents requiring medical attention; three of these resulted in fractures, the other three lacerations requiring suturing. There was one elopement, the resident being easily returned to the institution.

General Health.

The general health of the residents has been fairly good considering the age group of these individuals. Physical examination and psychiatric evaluation was made on each resident by Dr. Margaret McWilliam. A chest plate, by the Mobile T.B. Clinic Survey was taken of each resident. Attention was given to recommendations made in these surveys wherever possible.

Medical attention was supplied by local physicians as the need arose. Seven residents required hospitalization at St. Mary's for surgery, plaster cast application and blood transfusion. In addition, a total of 12 X-ray plates were done as well as 24 laboratory tests.

Dentistry.

Emergency dental work was done by a local dentist.

Occupational Therapy.

A small group of female residents participated in needlework classes. A bazaar was held in November, at which their needlework was sold.

A group of 10-20 men assisted with garden work in the grounds. Some 25 individuals helped in various departments, and another group of about 20 assist with light housekeeping duties.

Religious Services.

Protestant Church services were arranged by the Ministerial Association of Camrose for each Sunday. Roman Catholic mass was conducted every other month.

Recreation and Entertainment.

Two parties for the resident population were held, onue at Easter and one at Christmas time.

A selected group of residents were taken for car rides by the ladies of the Hospital Guild of Camrose on two occasions.

Recreation and Entertainment.

Walking parties and lawn groups were taken out whenever weather permitted.

Garden and Grounds.

Many improvements to the gardens and grounds were undertaken this year. A small vegetable garden supplied early vegetables in season, and the flower beds were kept in good condition. A small greenhouse was completed late in the fall which should prove an asset for another year.

Staff.

Various changes took place in the staff personnel. There was no shortage at any time, and relief workers were easily obtainable for the vacation period.

General health of staff has been satisfactory. All female and male attendants were given a physical examination and each had a chest X-ray.

Visitors.

Visits were made to Rosehaven by Dr. R. R. MacLean, Director, Division of Mental Health, Province of Alberta, at intervals throughout the year.

The Eugenics Board, as a Visiting Committee, visited in the fall. Relatives and friends, as well as various church groups, visited from time to time.

TABLE	1					
MOVEMENT OF POPULA	TION	DURIN	NG 1949			
In Residence January 1, 1949	Male	Female	Total	Male 102	Female 81	Total 183
ADMISSIONS: (a) From P.M.H., Ponoka (b) From P.M.L., Edmonton (c) From P.A.H., Claresholm (d) From P.A.H., Raymond (e) Returned from L.O.A.	15 5 2	15 4 2	30 9 4			40
DISCHARGED DURING YEAR:	-	-		$\frac{22}{124}$	$\frac{21}{102}$	$\frac{43}{226}$
(a) To P.M.H., Ponoka (b) To P.M.I., Edmonton (c) On L.O.A. (d) Deaths (e) Eloped	1 1 1 10	2 3 6	3 1 4 16			
In residence as at December, 1949	—			$\frac{13}{111}$	<u>11</u> 91	$\frac{24}{202}$

TABLE 2

SHOWING THE PSYCHOSES OF PATIENTS IN RESIDENCE, 1949

$\substack{01\\02}$	Psychoses with syphilitic meneingoencephalitis (general paresis) Psychoses with other forms of sypihilis of the central nervous system	Total 3
03	Psychoses with epidemic encephalitis	î
08	Psychoses with cerebral arteriosclerosis	38
10	Psychoses with convulsive disorders	2
11	Senile Psychoses:	
	111 Simple deterioration	31
	112 Presbyphrenic type	3 2 3
	113 Delirious and confused types 114 Depressed and agitated types	3
	115 Paranoid types	20
12	Involutional Psychoses:	20
	121 Melancholia	2
17	Manic-depressive Psychoses:	
	171 Manic type	6
	172 Depressive type	8
18	Dementia Praecox (Schizophrenia):	
	181 Simple type	2
	182 Hebephrenic type	2
	183 Catatonic type	18
	184 Paranoid type	22
19	Paranoia and Paranoid Conditions:	07
	192 Paranoid conditions	25 5
21	Psychoses with mental deficiency Undiagnosed Psychoses	1
22	Without Psychoses:	1
23	234 Mental deficiency	3

TABLE 3

RECORD OF DEATHS DURING 1949

Register				in Ment.		
No.	Sex	Age	Years	Months	Days	Cause of Death
80	M	81	3	4	21	Bronchopneumonia due to senility.
10	F	73	8	11	17	Cerebral embolism.
197	M	75		6	1	Angina pectoris.
119	M	76	23	9	8	Leukaemia.
64	F	75	2	6	8	Hypostatic pneumonia, senility.
113	M	73	1	1	19	Bronchopneumonia.
217	M	89		2	20	Pneumonia.
67	F	75	1	7	13	Bronchopneumonia, myocarditis.
53	M	83	16	9	5	Uraemia, cerebral arteriosclorises.
198	M F	73		11	27	Congestive failure due to bronchopneumonia.
120	M	75	7		8	Gastric carcinoma.
116	M	76	6	3	24	Bronchopneumonia, arteriosclerotic heart.
230	M	84		4	11	Bronchopneumonia.
55	M	84	11	6	21	Congestive heart failure, auricular fibrilla- tion, Arteriosclerotic heart disease.
18	F	77	17	8	23	Carcinoma thyroid.
22	F	72	3	2	7	Bronchopneumonia, hypertension.

2	C A .	DI	LE	A
	a		1993	

A substant of the		
Register N	0.	Cause of Death
84	Male	Senile psychoses, simple.
10	Female	Senile psychoses, simple.
197	Male	Psychosis with arteriosclerosis.
119	Male	
64		Senile psychoses, simple.
113	Male	Psychosis with arteriosclerosis.
217	Male	Senile psychoses, simple.
67		Psychosis with arteriosclerosis.
53		Manic-depressive, manic.
198	Female	Senile psychosis, presbyphrenic.
120	Male	Psychoses with syphilitic meningo-encepha-
		litis.
116	Male	Paranoid, on defective basis.
230	Male	Senile psychosis, simple.
55	Male	
55 18		Manic-depressive, manic.
22	Female	Psychosis with arteriosclerosis.

Guidance Clinics

The Provincial Guidance Clinics services again were further expanded during 1949. Of particular note was the re-inauguration of the Clinic Services to the Peace River area. The clinics to this section of the Province had been discontinued during the late war, and plans for holding the clinics in 1948 had to be abandoned because of the Poliomyelitis epidemic. The Edmonton Clinic staff, accompanied by the Director, conducted the clinics in 1949. They were held in key points in the area, as will be seen from the statistical and other reports of the Edmonton Clinic. There was general expression of appreciation of the return of the clinics in the Peace River area by the medical profession, Department of Education officials, and others affected by them. It was obvious from observation and the reports of various interested parties that a great many cases in this area were in need of attention, it being felt that two clinics a year at least would be necessary to handle the situation.

In November, the second annual Clinic Staff Conference was held at the Provincial Mental Hospital, Ponoka, the Director presiding. This conference was attended also by the medical superintendents of the various institutions and other staff members from these who were in some way or other affected by the work of the clinics. Much valuable information of a scientific and administrative nature was exchanged at the conference.

The members of the clinic staff continue to participate in general public education activities. Included among these activities were talks to community groups, round table talks, preparation of radio programmes, and assistance to local institutes and discussion groups.

The major portion of the clinic work was done with children, emphasis being placed on the preventive aspects of mental disease and instability.

Financial assistance from the National Health Grant was again received and was particularly applicable in the case of the Edmonton Clinic.

The intimte details of the activities of the various clinics appear in the reports which follow this general comment. It will be noted by the statistical tables that some 1,483 cases were handled in 1949 as compared with 1,143 seen during the previous year. There continues to be a great demand for clinic services, not only in the areas now served, but in those areas not already included in the clinic programme.

Edmonton and District Guidance Clinics.

During 1949, it was possible to do a considerable amount of treatment of patients, particularly in the City of Edmonton, because of the change to new and more adequate offices in the Health Guidance Building, 10523 100 Avenue. This transfer of location took place in August, shortly after Mr. E. J. Kibblewhite, Chief Clinic Psychologist, was transferred from Ponoka to Edmonton and his presence has strengthened the clinic team; although heavy demands are made on his time for clinics outside the Edmonton area.

There were 767 new patients examined, and the total work load was 4,477; 12.5% of patients were referred by medical practitioners; 10.5% of patients were referred by themselves; 45.4% of patients were referred by school agencies; 30.3% of patients were referred by community agencies including Child Welfare Department, Children's Aid Department, Edmonton, and other work agencies.

Clinics were held in the Peace River District for the first time since 1938. New clinics were established in Stony Plain, Two Hills, Westlock. Clinics at Athabasca, Lac La Biche, St. Paul, Bonnyville and Smoky Lake were attended by Dr. M. Gish, from the Provincial Mental Institute, Edmonton.

Edmonton City—Approximately one-third of the time of the clinic is available to the residents of the City of Edmonton, and appointments are made on days that the clinic team are not travelling. During the year, 264 new cases were examined and the total work load increased to 2,394.

Edmonton Rural Clinics—These clinics are held in city offices; but appointments are made through the Edmonton Rural Health Unit staff and their excellent co-operation is greatly appreciated. Ten clinics were held; 70 new cases were examined, and a considerable amount of re-examination and follow-up work was done. The total work load was 318.

Barrhead—Five clinics were held in co-operation with the Public Health Nurse and the School Superintendent; 33 new cases were examined. Total work load was 124.

Camrose-Eight clinics were held and 23 new cases were examined.

Holden—Five clinics were held; 21 new cases were examined. Total work load was 118.

Lamont—Five clinics were held; 21 new cases were examined. Total work load was 112.

Stony Plain-One clinic was held; 7 new cases were examined.

Two Hills-Two clinics were held; 8 new cases were examined.

Vegreville—Seven clinics were held; 30 new cases were examined. Total work load was 142.

Vermilion—Ten clinics were held; 54 new cases were examined. Total work load was 226.

Wainwright—Four clinics were held; 24 new cases were examined. Total work load was 95.

Wetaskiwin—Eight clinics were held; 73 new cases were examined. Total work load was 287.

Westlock—One clinic was held; 5 new cases were examined.

We extend our sincere thanks to the Department of Public Health staff in the various centres and to the School Superintendents, members of the medical profession, and others who helped to make this, the first year of full-time clinic service, a success.

Calgary and District Guidance Clinics.

During the year the Provincial Guidance Clinic continued to operate in the City of Calgary and to conduct various clinics in the southern part of the Province. The clinics were conducted in 1949 under the supervision of Dr. G. D. arson. Mr. R. E. Pettifor continued as the Psychologist for the clinic. Mrs. Barbara Baker carried on her duties as stenographer-receptionist during the year in her usual capable fashion.

There were a number of staff changes during the year. Miss Kay Lind left the service on March 10th and Mrs. Lois Alger left the service on March 31st.

Mrs. Mignon Donovan joined the staff on May 9th. She had been formerly employed with the Guidance Services in British Columbia. Miss Patricia Ford joined the staff on May 23rd, bringing the clinic up fo tull strength again. Miss Ford is also from British Columbia. Both Mrs. Donovan and Miss Ford are graduates of the University of British Columbia. They are on the clinic staff in the capacity of Psychiatric Social Workers.

No new clinic points were opened up during the year, but the clinic continued to visit all the previously established points regularly.

During the year a total of 580 new cases were seen. The total of new cases seen in the Calgary area since the beginning of the clinics in 1929 is 4,355, up to the end of 1949. Of these, 1,264 have been seen since the opening of the clinics on a full-time basis two years ago.

The total work load for the year was 3,246, which roughly approximates the work load during 1948. This was divided up as follows: 1,378 patient contacts, 1,193 collateral contacts, 162 general contacts, and 514 psychometric examinations. The distribution of the work for the various clinics is indicated below.

Calgary Clinic—There were 206 new cases seen from the City of Calgary itself. Of these 25% were referred from private doctors, 25% from the schools, and 25% from community agencies.

During the year the clinic worked closely with the various community agencies, namely, the Guidance Workers of the Calgary School System, The Children's Aid Department of the City of Calgary, The Wood's Christian Home, The Booth Memorial Home and the Mountview Social Service Home. A number of talks were given to various community agencies.

Calgary Rural—A total of six Calgary Rural Clinics were held, with a total of 10 new patients being seen.

Medicine Hat—A total of 125 new new cases were seen in the City of Medicine Hat. Two days each month were spent here as was done in 1948. One of these days was in the schools and one in the Public Health Clinic at the Courthouse. Miss M. Hagerman, the Public Health Nurse, has continued to be of great assistance to us in the arranging of appointments and so on. The school authorities continued to be very co-operative, notably Mr. C. E. Peasley, Senior Principal of the Elm Street School. A clinic was held at Suffield in March and at Hilda in October in co-operation with Mr. L. A. Walker, rural school superintendent. Lethbridge—A total of 90 new patients were seen at Lethbridge. Clinics were held one day a month in the City School System and one day a month at the Nursing Mission in the City Hall. Mrs. Edith Evans, the Nurse-in-Charge of the Nursing Mission, has been particularly helpful to us in arranging appointments, etc. Several trips were made during the year to the Provincial Gaol to interview prisoners at the request of the Magistrate or the Warden.

Didsbury—Seven clinics were held at Didsbury, at which a total of 23 new patients were seen. The clinics were held in the offices of the Rosebud Health Unit.

High River—Seven clinics were held during the year at High River. Two of these were held in Black Diamond, one at Arrowwood and one at Vulcan, the balance being held in the Foothills Health Unit offices. A total of 34 new cases were seen.

Brooks—Five clinics were held during the year in the Brooks area. The clinic continued to be afforded the privilege of using the offices of the Eastern Irrigation District School Division. Miss Pat Newell, Public Health Nurse at Brooks, has been very helpful to us. A total of 28 new patients were seen at Brooks.

Claresholm—Four clinics were held during the year at Claresholm. A total of 14 new cases were seen. One of these clinics was held at Carmangay. Miss Kay Brandon, the Public Health Nurse, has assisted us greatly in arranging appointments, etc. We have been able to use the United Church Hall and the Town Offices in Claresholm for the clinics. This has been most convenient.

Crowsnest Pass—A total of five clinics were held in the Crowsnest Pass and 21 new cases were seen. The manager of the new Crowsnest Pass Hospital has been kind enough to permit us to hold clinics in the hospital.

Drumheller—A total of six clinics were held in Drumheller and a total of 23 new patients were seen during the year. The clinic was assisted greatly by the Public Health Unit in Drumheller.

Pincher Creek—Three clinics were held at Pincher Creek during the year and a total of six new cases were seen. Use was made of the offices so kindly offered to us by Drs. F. J. MacLean and L. B. Collins for our clinics. Miss Beryl Tiffen, Public Health Nurse, has given a good deal of help to us in arranging clinics, making home visits, and so on.

Public Relations.

Increasing interest has been expressed in the clinics, and requests were made to address quite a number of groups about the clinic work. A number of talks were given during the year.

During the year, 27 formal talks were given and 12 public health films were seen. Requests were received to give lectures on Psychiatry to the student nurses at the General Hospital in Calgary and the student nurses at the Medicine Hat Hospital. These are now being given. An arrangement has been made for groups of nurses from the senior class at the General Hospital to visit the clinic each week in connection with their orientation programme to various health services in the community. Various visits have been made during the year to other agencies, and where possible we participated in their programmes.

Ponoka and Red Deer District Guidance Clinics.

Ponoka and Red Deer District embraces that territory between the area served on the north by Edmonton Regional Headquarters and in the south by the Calgary Regional Headquarters. It extends from just south of Wetaskiwin to just north of Didsbury. Clinics were held in this territory at Red Deer, Ponoka, Stettler, Rocky Mountain House, Castor and Lacombe about every two months, except that during the last four months of the year these were held monthly at Ponoka. Also, at Red Deer clinics were held on two afternoons a week beginning in October. Only one clinic was held at Lacombe in 1949, as this was a new centre opened in November.

The clinics in the Ponoka and Red Deer District are serviced from the Provincial Mental Hospital, Ponoka, and from the Provincial Training School, Red Deer. Dr. F. J. Edwards, Clinical Director for the Provincial Mental Hospital, attended the major number of clinics held. Dr. J. M. Byers, Assistant Medical Superintendent for the Provincial Mental Hospital, also attended several, as did Dr. G. O. Patten of the Provincial Mental Hospital staff. Dr. D. L. McCullough, Medical Superintendent of the Provincial Training School before his retirement attended a number of clinics, mainly at Red Deer and Rocky Mountain House. During the last four months of the year Dr. L. J. le Vann, newly appointed Medical Superintendent of the Provincial Training School, was in charge of the clinics held in Red Deer, assisted by Mr. A. W. Fraser, newly appointed Educational Psychologist on the Provincial Training School staff. Mr. R. N. Crawford, resident Psychiatric Social Worker at the Provincial Mental Hospital, assisted with most of the clinics held during the year. Mr. E. J. Kibblewhite, Chief Clinic Psychologist, attended all of the clinics held, except those held in November and December in Red Deer.

In all, 136 new cases were examined, 81 males and 55 females. This is more than twice the number of new cases seen during 1948, when 62 new cases were examined. The increase in new cases is accounted for by the fact that three new clinic centres were opened, at Castor, Lacombe and Rimbey. Also, additional service was given during the last three months of the year at Red Deer.

Attention should be drawn to the excellent co-operation and assistance given at the different clinics by the Health Unit staffs, and by the Superintendent of Schools and other school authorities. In Red Deer and Stettler the clinics are held in the Health Unit quarters, while in Castor, Lacombe and Ponoka quarters are provided in the School Division offices.

The kindness and co-operation of Dr. T. C. Michie, Medical Superintendent of the Provincial Mental Hospital, in making it possible for the members of his staff to assist with the clinics is very much appreciated.

The general statistics for Red Deer and District are given in the consolidated tables which follow.

DEPARTMENT OF PUBLIC HEALTH

TABLE 1

SUMMARY OF NEW CASES EXAMINED TREATMENT PERIODS, PSYCHOLOGICAL EXAMINATIONS AND INTERVIEWS

k s

Location	M.	F.	T.	Pat.	Col.	Gen.	P.E.	Total Wor Load	Total New Cases Sinc 1929	
Edmonton and District	465	302	767	1273	1788	644	772	4477		
Calgary and District	317	263	580	1378	1193	161	514	3246		
Ponoka and Red Deer District	863		1483	156	265	15	118	554		
				-	-	-	-			
Totals	863	620	1483	2807	3246	820	1404	8277	8931	
	-	-	-							

NOTES:

Edmonton and District includes all of the area served from Wetaskiwin north. It includes Clinics held in the Peace River-Grande Prairie area, and at such points as Athabasca, Barrhead, Bonnyville, Camrose, Holden, Lac La Biche, Lamont, Smoky Lake, St. Paul, Vegreville, Vermilion, Wainwright, Westlock, and Wetaskiwin.
Calgary and District includes the area served from Didsbury south. It includes Clinics held at such points are Claresholm, Crow's Nest Pass towns, Brooks, Didsbury, Drumheller, High River, Lethbridge, Medicine Hat, and Pincher Creek.

Ponoka and Red Deer District includes the area from Didsbury on the south to Wetas-kiwin on the north. It includes Clinics at such points as Castor, Ponoka, Stettler, Rimbey, Rocky Mountain House, and Lacombe.

Pat.-Patient contacts including treatment periods.

Col.-Contacts with a patient's parents, or relatives, or others closely interested.

Gen.-General contacts regarding Clinic activities and work, including those with other Agencies and Community Services.

P.E.-Psychological tests and examinations.

Total New Cases-Due to re-arrangement of territory accurate figures by Districts are not available.

TABLE 2

AGE AND SEX CLASSIFICATION OF NEW CLINIC CASES, 1949

	Ed	mon	ton	C	alga	ry l	Pono	ka é	& Red						
	and	l Dis	trict	and :	Dist	rict	Deer	Dis	strict		Tota	al	Pe	ercen	tages
Age Group	M.	F.	Т.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
0-4	15	28	43	30	23	53	7	2	9	52	53	105	3.5	3.6	7.1
5-9	192	77	269	120	55	175	29	17	46	341	149	490	23.0	10.0	33.0
10-14	173	92	265	86	49	135	31	18	49	290	159	449	19.5	10.7	30.2
15-19	59	54	113	25	35	60	8	7	15	92	96	188	6.4	6.5	12.9
20-24	6	11	17	11	18	29	1	2	3	18	31	49	1.2	21.	3.3
25-29	4	10	14	8	16	24		1	1	12	27	39	0.8	1.8	2.6
30-34	2	13	15	3	14	17	3	3	6	8	30	38	0.5	2.0	2.5
35-39	4	7	11	9	15	24		3	3	13	25	38	0.9	1.7	2.6
40-44	4	3	7	1	4	5	1		1	6	7	13	0.4	0.5	0.9
45-49	2	3	5	10	7	17	and	1	1	12	11	23	0.8	0.7	1.5
50 and over	4	4	8	14	27	41	1	1	2	19	32	51	1.3	2.1	3.4
Unknown			****												
Totals	465	302	767	317	263	580	81	55	136	863	620	1483	58.3	41.7	100.0
M-Male;	F-H	Fem:	ale;	T-Tot	al.								2010		10010

TABLE 3a

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES-PRE-SCHOOL GROUP, 1949 (0 to 5 YEARS, 11 MONTHS)

Nature of Case	Edn	Dist	(PAR	and I Ca	Distr				strict & Red	3	l'ota	ls
	M.	F.	T.		F.		M.		Τ.	M.	F.	T.
Educational Problems with Ade-								-				
quate Intellect		3	5	1	1	2				2	4	7
Intellectual Inadequacy		19	26	11	14	25	3	1	4	21	34	55
Emotional Disorders		6	16	- 5	9	14	3	1	4	18	16	
Thinking Disorders				1		1		-		1		1
Speech Disorders	1	4	5	10	2	12	1		1	12	6	18
Faulty Feeding Habits				1		1	1			1		1
Sleep Disturbances		2	2			-					2	2
Anti-Social Trends	1		1	6		6			4111	7	-	7
Sexual Difficulties		1	1	ĩ		ĭ				i	1	2
Attack Disorders				2		2			1114	2		2
Psychoneuroses		1	1						100	120	1	ĩ
Psychoses												
Non-Psychotic		1	2	1		1				2	1	3
Undiagnosed				1	2	3				ĩ	2	3
		-	-									
Totals	22	37	59	40	28	68	7	2	9	69	67	136
M-Male; F-Female; T-						199		-		55		

TABLE 3b

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES—PRE-SCHOOL GROUP, 1949 (6 YEARS TO 18 YEARS 11 MONTHS)

Nature of Case	Edn	nont		M—Male; Calgary					e: T-&		Total. Totals				
attract or once	M.	F.	T.	and	Dist	rict	Dee	r Di	strict		Tota	ls			
				Μ.	F.	T.	Μ.	F.	T.	M.	F.	Т.			
Educational Problems with Ade-															
quate Intellect		41	142	80	27	107	17	6	23	198	74	272			
Intellectual Inadequacy		73	198	28	16	44	29	24	53	182	113	295			
Emotional Disorders	72	43	115	30	37	67	11	6	17	113	86	199			
Thinking Disorders		6	17	17	7	24	3		3	31	13	44			
Speech Disorders	10	8	26	11	3	14	1	2	3	30	13	43			
Faulty Feeding Habits															
Sleep Disturbances		2	3		1	1				1	3	4			
Anti-Social Trends	4.0%	13	62	36	12	48	3	1	4	88	26	114			
Sexual Difficulties		3	8	5	9	14		1	1	10	13	23			
Attack Disorders		2	11	4	4	8				13	6	19			
Psychoneuroses	1.0	7	11	5	10	15				15	17	32			
Psychoses		5	9							4	5	9			
Non-Psychotic	10	6	12	1		1	1		1	8	6	14			
Undiagnosed	3		3	4	5	9	3		3	10	5	15			
Totals	414	209	623	221	131	352	68	40	108	703	380	1083			
ar Males T. Demales T	Taka	1													

M-Male; F-Female; T-Total.

TABLE 3c

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES—PRE-SCHOOL GROUP, 1949 (19 YEARS AND OVER)

Nature of Case	and	nont Dist F.	rict	and	lgar Dist F.	rict	Dee	r Di	& Red strict T.	M.	Tota F.	
Educational Problems with Ade- quate Intellect Intellectual Inadequacy Emotional Disorders Thinking Disorders	4	2 2 2 11	$\begin{array}{c} 6\\ 2\\ 2\\ 16\end{array}$	1 2 3 2	6 11 6	$\begin{smallmatrix}1\\8\\14\\8\end{smallmatrix}$	1	4	5	5947	2 18 13 17	7 27 17 24
Speech Disorders Faulty Feeding Habits Sleep Disturbances												
Anti-Social Trends Sexual Difficulties Attack Disorders Psychoneuroses	2	2 15	4 21	3 1 12	3 1 39	6 2 51	2	7	9	3 3 20	3 3 61	6 6 81
Psycholic Non-Psychotic Undiagnosed	3	12 4	15 6 1	18 7 7	28 5 5	46 12 12	1	2	31	22 10 8	42 9 5	64 19 13
Totals: Table 3c Table 3b Table 3a	414	56 209 37	85 623 59	56 221 40	104 131 28	$ \begin{array}{r} 160 \\ 352 \\ 68 \end{array} $	68 68 7	13 40 2	19 108 9	91 703 69	173 380 *7	$ \begin{array}{r} 264 \\ 1083 \\ 136 \end{array} $
Grand Totals	465	302	767	317	263	580	81	55	136	863	620	1483

M-Male; F-Female; T-Total.

TABLE 4

SOURCES REFERRING NEW CASES TO CLINICS, 1949

Sources		nont		Ca	lgar Dist				& Red strict		Tota	
Doniett	M.	F.	Т.	M.	F.	Τ.	M.	F.	T.	M.	F.	Т.
From Mental Hospitals (1)		45	9 10	1	22	32	2	2	4	85	87	16 12
From Private Doctors	38	48	86	68	112	180	11	20	31	117	180	297
From Factory Doctors				13		13				13		13
From Schools			348	155	65	220	51	24	75		198	643
From Community Agencies (2).	123	83	206	51	57	108	9	5	14	183		328
Attended Voluntarily	43	38	81	20	18	38	4	1	5	67	57	124
From all other sources			27	9	7	16	4	3	7	25	25	50
Totals	465	302	767	317	263	580	81	55	136	863	620	1483

NOTES: (1) Includes referrals from all Mental Institutions. (2) Includes referrals from Health Units, Child Welfare and Children's Aid. M—Male; F—Female; T—Total.

DEPARTMENT OF PUBLIC HEALTH

TABLE 5

MAJOR RECOMMENDATIONS (DISPOSALS) MADE IN REGARD TO NEW CLINIC CASES, 1949

Disposal	and	non	trict	and		rict			& Red istrict	1	Tot	als
	M.	F.	Т.	M.	F.	T.	M.	F.	Τ.	M	. F.	. T.
To Mental Hospitals (1) To Psychiatric Hospitals or Psy- chiatric Wards in General Homitals				23	39	62	5	6	11	68	71	139
Hospitals To Convalescent or Nursing			****									
Homes (2)	4	. 5	9	13	7	20				17	12	29
Reported to Hospital Consultant										160		
or Private Doctor	9	17	26	10	18	28	3	10	13	22	45	67
Reported to Community Agencies	39	49	88	12	18	30	5	4	9	56		127
Advice to Parents or Relatives.		203	569	248	167	415	62	32	94	676	402	1078
Other Methods	7	2	9	11	14	25	6	3	9	24	19	43
Totals	465	302		317	263	580	81	55	136	863	620	1483
NOTES: (1) Includes measurement	Intio		lan a	due last			Therest					

NOTES: (1) Includes recommendations for admission to the Provincial Training School, Red Deer. (2) Includes recommendations for Foster Home placement, and Special Class placement.

M-Male; F-Female; T-Total.

TABLE 6

SUMMARY OF NUMBER OF MENTAL DEFECTIVES EXAMINED BY YEARS, 1949

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 Totals
on esti	of Menta imates)		ves exami		(based in part	31.4%	1052
1939 1940 1941 1942 1943 1944 1945 1945 1946 1947 1948 1949	M. F. 534 332 612 662 236 634 Nolo: F. 534 54 56 62 236 84 84 84 84 84 85 84 85 85 85 85 85 85 85 85 85 85	M. F. 19 24 20 14 23 16 18 15 17 11 16 19 15 11 16 13 28 14 34 33 27 29 —Female;	M. F. 46 46 39 19 43 25 34 16 15 14 26 30 32 24 40 43 77 48 86 47 54 63 T—Total	M. F. 16 15 13 8 3 2 3 7 10 7 4 5 9 9 19 14 24 12 9 7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 35.5\%\\ 36.5\%\\ 38.7\%\\ 32.9\%\\ 40.1\%\\ 44.6\%\\ 40.7\%\\ 40.6\%\\ 41.9\%\\ 21.9\%\\ 13.2\%\end{array}$	$1195 \\ 1325 \\ 1458 \\ 1560 \\ 1645 \\ 1764 \\ 1867 \\ 2001 \\ 2205 \\ 2455 \\ 2651 \\$

The Eugenics Board

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

The Eugenics Board held eight meetings during 1949 for the consideration of cases. Five meetings were held at the Provincial Mental Hospital, Ponoka, two were held at the Provincial Training School, Red Deer, and one was held at the Provincial Guidance Clinic, Edmonton, on the dates given below:

27 January, 1949—Provincial Mental Hospital, Ponoka.

27 January, 1949—Provincial Training School, Red Deer.

31 March, 1949-Provincial Mental Hospital, Ponoka.

31 March, 1949—Provincial Training School, Red Deer.

1 April, 1949—Provincial Guidance Clinic, Edmonton.

9 June, 1949-Provincial Mental Hospital, Ponoka.

8 September, 1949—Provincial Mental Hospital, Ponoka.

17 November, 1949-Provincial Mental Hospital, Ponoka.

Cases Presented.

The Board considered 116 cases, of which number one had been passed previously, but was reviewed at the request of Provincial Mental Hospital authorities. Six cases were deferred for future consideration. One of these was represented at a later meeting at which time it was passed. Of the 109 cases passed by the Board, 52 were males and 57 females. Most of these were passed subject to the consent of the patient, or parent or guardian, or to both patient and parent or guardian.

Of the 109 cases passed by the Board during the year, 31 had been first examined at a Provincial Guidance Clinic, although some of these had been institutionalized before presentation. This group of 31 cases was made up of 8 male and 23 female cases.

Operations.

Operations were performed on 47 cases during the year, 20 male and 27 female. All the operations were performed at the Provincial Mental Hospital, Ponoka.

Of the 47 cases operated upon during the year, 45 had been presented and passed during 1949, one had been presented and passed in 1940, and one in 1948.

The operations were all performed by one of the surgical consultants, Dr. J. W. Richardson of Calgary, or by Dr. J. Ross Vant, or Dr. R. H. Horner of Edmonton.

Board Member Changes.

Following the death of Dr. E. L. Pope in November, 1949, a Board meeting was held at the Provincial Mental Hospital, Ponoka, at which time the following resolution was presented by Dr. E. R. Selby: "Since the last meeting of the Board the much regretted death of Dr. Egerton R. Pope has removed from its councils one of its original and most valued members. The Act under which the Eugenics Board was constituted called for the complete confidence of the public in those who assumed the responsibility for its administration. No one could have contributed more than the late Dr. Pope in the way of establishing that confidence. As a man of high personal and professional distinction he was widely known and highly respected, not only in this Province, but throughout Canada. His membership on the Board did much to bring to its functioning that good will and co-operation of the medical profession of the Province which was so essential for accomplishing the aims of the Act. We shall greatly miss him for the wisdom of his counsel and the integrity of his judgment which he always displayed in our deliberations, but we will always cherish kindly memories of his humanitarian spirit, his genial companionship and his warm friendship."

The vacancy on the Board caused by Dr. Pope's death had not been filled by the end of 1949.

Staff Changes.

Due to pressure of other duties, Mr. E. J. Kibblewhite submitted his resignation as Secretary to the Board, effective as of May 31st, 1949. This was accepted with great regret, and the Board wishes to acknowledge the very valuable services of Mr. Kibblewhite in preparing case reports, keeping accurate minutes of the meetings of the Board, and in preparing the Annual Reports.

Mrs. E. S. James, who had assisted Mr. Kibblewhite for some years, was appointed to serve as Secretary upon Mr. Kibblewhite's resignation.

Appreciation.

The Eugenics Board wishes to express its appreciation and thanks to Dr. R. R. MacLean, Director, Division of Mental Health, to Dr. T. C. Michie, Medical Superintendent, Provincial Mental Hospital, and to Dr. D. L. McCullough, who was the Medical Superintendent at the Provincial Training School, Red Deer, until his retirement in June, 1949, and to Dr. L. J. le Vann, who succeeded Dr. McCullough, as well as their respective staffs, for their cooperation in connection with the work of the Eugenics Board.

A tabular summary of the work of the Eugenics Board to December 31st, 1949, is appended.

A tabular summary of the work of the Eugenics Board to December 31st, 1948, is appended.

CASES PRESENTED AND PASSED (To December 31, 1949)

	3	early To	tals	Cur	Cumulative Totals				
	Male	Female	Totals		Female				
1929-1933	87	201	288	87	201	288			
1934-1938	557	438	995	644	639	1283			
1939-1943	339	299	638	983	938	1921			
1944		73	129	1039	1011	2050			
1945		64	118	1093	1075	2168			
1946		53	105	1145	1128	2273			
1947	38	53	91	1183	1181	2364			
1948	Of	68	105	1220	1240	2469			
1343	52	57.	109	1272	1306	2578			

OPERATIONS ONLY

(To December 31, 1949)

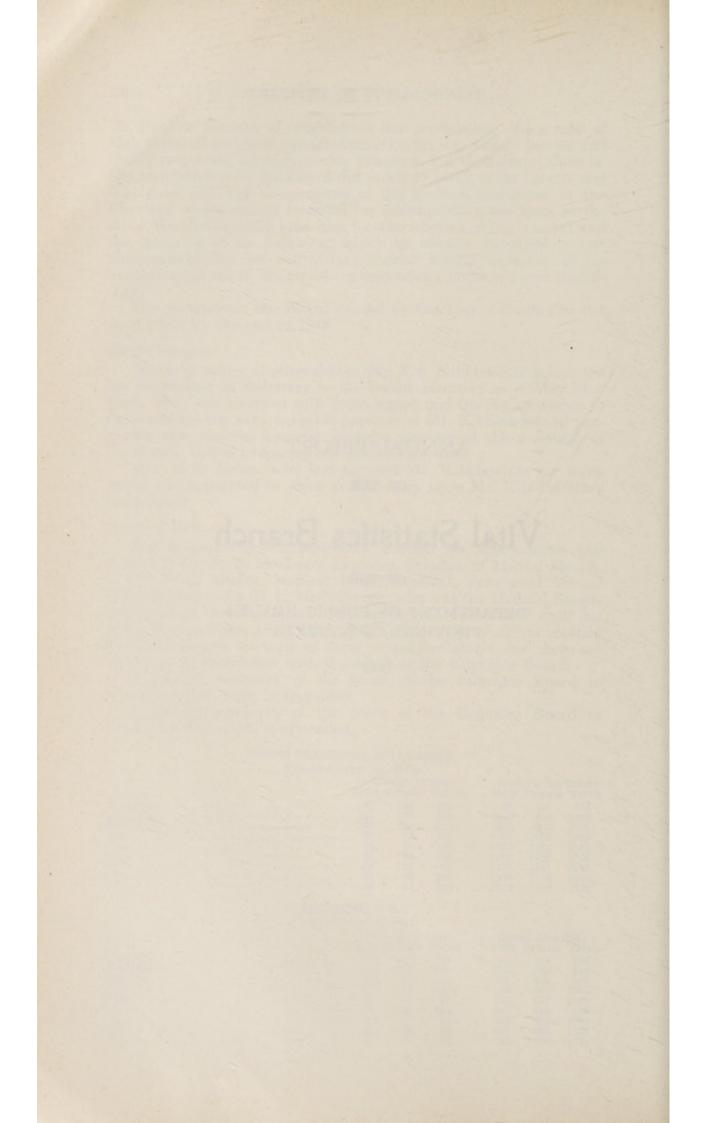
	Y	Yearly Totals			Cumulative Totals		
	Male	Female	Totals	Male	Female	Totals	
1929-1933	. 48	158	206	48	158	206	
1934-1938	. 198	240	438	246	398	644	
1939-1943	. 13	27	40	381	576	957	
1944	. 18	29	47	399	605	1004	
1945	. 24	31	55	423	636	1059	
1946	122	151	273	368	549	917	
1947		15	31	439	651	1090	
1948		22	38	455	673	1128	
1949	. 20	27	47	475	700	1175	

OF THE

Vital Statistics Branch

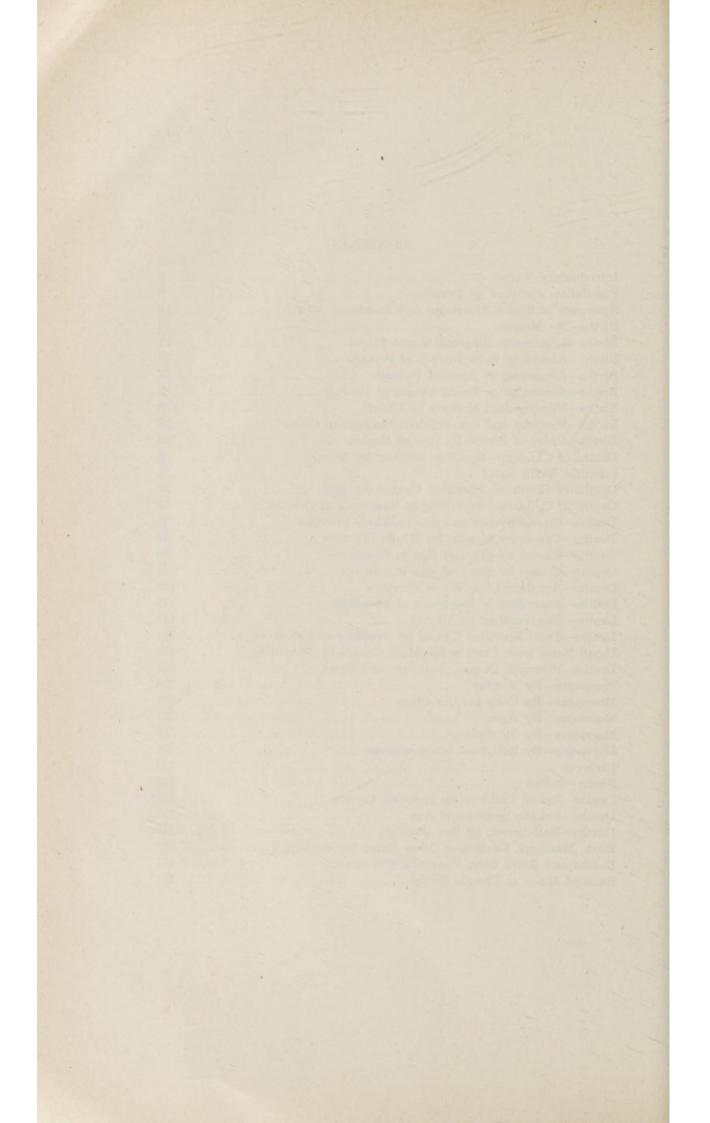
OF THE

DEPARTMENT OF PUBLIC HEALTH PROVINCE OF ALBERTA



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Vital Statistics Division

(ARTHUR PACKFORD, Deputy Registrar General)

The Report of the Vital Statistics Division for the year 1949 shows a slight increase in the birth rate and a small decrease in the marriage and death rates.

The death rates for maternal mortality and infantile mortality were also less than the preceding year.

The death rates for diphtheria, measles and influenza show an increase, but there was a considerable decrease in the rates from the other communicable diseases.

Deaths from diseases of the heart again show a considerable increase, but there was a slight drop in the number of deaths from cancer.

Violent and accidental deaths show a small increase over the previous year.

POPULATION

The population of the Province of Alberta for the year 1949 has been estimated by the Dominion Bureau of Statistics as 871,000, an increase of 25,000, and all rates in this report are based on that figure.

BIRTHS

The number of children born to residents of Alberta, numbered 24,935. The rate being 28.7 per 1,000 population. This is the highest number of births ever recorded in the Province—860 more than in the previous year and an increase in the rate of .2. Indian births numbered 1,235. Of the total births, 12,783 were males and 12,152 were females, the ratio being 1,051 males to each 1,000 females. There were 334 twin births and one case of triplets. Illegitimate births numbered 1,224, being two more than the preceding year; the rate being 4.9 per cent of all live births.

The number of children born to residents of cities and towns of 1,000 population and over was 10,591, and to rural residents 14,344. The number of births to residents of the four large cities were as follows: Edmonton, 4,353; Calgary, 3,143; Lethbridge, 558; and Medicine Hat, 436. The actual number of births in these cities were: Edmonton, 6,556; Calgary, 4,068; Lethbridge, 1,033; and Medicine Hat, 724.

For purposes of comparison the following are the birth rates for Canada, the Provinces, Great Britain and certain other countries for the year 1949:

	BIRTH	RATES	
Canada	26.9 30.1	New Zealand Australia	24.9 22.9
Prince Edward Island	27.5	United States	24.0
Nova Scotia	32.4	Austria	15.8
New Brunswick	30.0	France	21.0
Quebec	24.2	Belgium	17.2
Ontario	24.2	Denmark	18.9
Manitoba			20.0
Saskatchewan	25.2		23.7
Alberta	28.7		19.6
British Columbia	24.6	Norway	17.4
England and Wales	16.7	Sweden	25.0
Scotland	18.5	Portugal	21.4
Northern Ireland	21.4	Spain	18.4
Eire	21.4	Switzerland	10.4

VITAL STATISTICS BRANCH

MARRIAGES

There were 9,037 marriages registered during the year. This is 193 more than the previous year, and 692 more than the average for the five preceding years. The rate per 1,000 population being 10.4. The rate for 1948 was 10.5. Of the bridegrooms, 97 were 18 years of age or under, and 199 of the brides were 16 years of age or under; 2,206 of the brides were 17 to 19 years of age and 3,805 were 20 to 24 years of age. Of the bridegrooms, 89.5 per cent were bachelors, 5.2 were widower's and 5.4 were divorcees. Of the brides, 89.1 per cent were spinsters, 5.7 were widows and 5.2 were divorced. There were 213 bridegrooms and 91 brides 60 years of age and over, and of these, seven of the brides were over 75. Five of the grooms were over 80.

The following are the marriage rates for Canada, the Provinces, Great Britain and certain other countries for 1949:

N	IARRIAG	E RATES	
Canada	9.2	New Zealand	9.5
Prince Edward Island	6.6	Australia	9.2
Nova Scotia	7.8	United States	10.7
New Brunswick	8.2	Austria	9.7
Quebec	8.6	France	8.2
Ontario	9.8	Belgium	8.5
Manitoba	9.3	Denmark	8.4
Saskatchewan	8.2	Italy	7.6
Alberta	10.4	Netherlands	8.3
British Columbia	10.2	Norway	8.4
England and Wales	8.5	Sweden	7.8
Scotland	8.1	Portugal	7.7
Northern Ireland	6.8	Spain	7.0
Eire	5.4	Switzerland	8.0

MARRIAGE RATES

DIVORCES

The final Decrees of Divorce granted during the year numbered 594; this being 65 less than the previous year and 121 less than the average for the preceding 5 years. Of the divorces, 262 were granted to husbands and 332 to wives. Two decrees of nullity were also granted.

DEATHS

Deaths registered during the year numbered 7,083; 415 of these being Indians. Male deaths numbered 4,350 and females 2,733. There were 96 more deaths than the previous year, and 502 more than the average for the 5 preceding years. The death rate per 1,000 population being 8.2. The rate for 1948 was 8.3. At the time of death, 609 males and 457 females were over 80 years of age, and 4 males were 100 years of age and over. The number of deaths of residents of the four large cities were as follows: Edmonton, 990; Calgary, 1,141; Lethbridge, 175; and Medicine Hat, 158. The number of deaths which occurred in these cities were as follows: Edmonton, 1,500; Calgary, 1,340; Lethbridge, 235 and Medicine Hat, 185.

Diseases of the heart, the chief cause of death, again showed a considerable increase. The number of deaths being 2,033 as compared with 1,896 the previous year, the rates being 233.4 per 100,000 population, and 224.1 for 1948.

Cancer deaths numbered 957, the number of the previous year being 975, the rates being 109.9 and 115.2 respectively.

Deaths from tuberculosis, all forms, numbered 211; of these, 105 were Indians. Of these deaths, 156 were due to tuberculosis of the respiratory system, of which 78 were Indians. The death rate for tuberculosis, all forms, was 24.2 and for pulmonary tuberculosis 17.9, compared with the previous year rates of 30.6 and 23.6.

Deaths from pneumonia numbered 376, 14 more than the previous year, and there were 41 deaths from influenza.

Nine deaths were due to poliomyelitis. The epidemic the previous year caused 28 deaths.

Violent deaths numbered 680, an increase of 3. Motor vehicle accidents caused 164 deaths, 35 more than the previous year. Street car and other road accidents 5, railway accidents 23, agriculture and forestry accidents 47, and 44 deaths were due to accidental drowning.

There were 80 suicides, 4 less than the previous year, and 15 deaths due to homicide.

The following are the death rates for Canada, the Provinces and certain other countries for the year 1949:

Canada	9.2	New Zealand	9.1
Prince Edward Island	9.9	Australia	9.7
Nova Scotia	9.3	United States	12.6
New Brunswick	9.5	Austria	13.8
Quebec	8.8	France	12.9
Ontario	9.8	Belgium	8.9
Manitoba	8.9	Denmark	
Saskatchewan	7.7	Italy	10.6
Alberta	8.2	Netherlands	8.1
British Columbia	10.2	Norway	8.8
England and Wales	11.7	Sweden	9.9
Scotland	12.3	Portugal	13.8
Northern Ireland	11.5	Spain	11.4
Eire	12.7	Switzerland	10.7

DEATH RATES

MATERNAL MORTALITY

There was a decrease in maternal mortality. The number of deaths due to puerperal causes being 25, as compared with 29 the previous year. The rates being 1.0 and 1.2 respectively.

MATERNAL MORTALITY RATES PER 1,000 LIVE BIRTHS

Canada Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	British Columbia Scotland Northern Ireland Eire France Netherlands Portugal Spain	1.0 1.3 1.3 1.7 0.9 1.1 2.2 1.2 6.5
Alberta	1.0	Ceylon	0.5

INFANT DEATHS

Deaths of children under one year of age numbered 823, a decrease of 107 from the previous year; of this number, 462 were males and 361 females. Of these children, 237 were less than one day old and 500 were under the age of one month. The infantile death rate per 1,000 live births was 33, the previous year's rate being 39.

VITAL STATISTICS BRANCH

The following are the infant mortality rates for Canada, the Provinces and certain other countries for the year 1949:

Canada Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Eire New Zealand Australia United States 43 $51 \\ 24 \\ 25 \\ 31 \\ 76 \\ 56 \\ 60 \\ 74 \\ 27 \\ 20$ 48 42 59 51 37 41 38 33 31 32 Austria France Manitoba Saskatchewan Alberta British Columbia England and Wales Scotland Belgium Italy Netherlands Sweden Portugal 115 41 45 Spain 74 34 Northern Ireland Switzerland

INFANT MORTALITY RATES PER 1,000 BIRTHS

There were 403 still births, 41 more than the previous year, the rate being 16.2 per 1,000 live births.

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 in blackface type. The former area or areas which make up the new units are listed directly beneath.

	T	otal	Dividen and Subdivision	To	tal
Division and Subdivision	1946	1941	Division and Subdivision	1946	1941
ALBERTA	803.330	796,169	Division No. 1-Continued:		
Rural					
Urban		306,586	Division No. 2	60,982	58,563
Orban	100 1,000		Rural	29,651	29,72
Division No. 1	31,256	29,595	5. Sugar City	5,116	4.745
Rural	1	16,408	7. I.D.	376	43
1. I.D.		947	8. I.D. (pt.)	179	20
1. I.D.		57	37. Sugar City	2,844	2,39
2. I.D.		148	38. I.D.	1,305	1,28
3. I.D.		169	67. I.D. (pt.)	412	44
31. I.D.		62	6. Cochrane	3,735	4,23
32. I.D.		511	8. I.D. (pt.)	945	1,10
2. Burlington	1,275	1,440	9. I.D.		1,53
33. Flowery Plains	409	487	10. Cochrane		1,58
34. Burlington			8. I.D.		
3. I.D.	2,242	2,505	39. Kerr (pt.)		
4. I.D.		521	40. Castle River (pt.).	41	
5. I.D.		1,067	9. Pincher Creek	3,135	3,36
6. I.D.		541	39. Kerr (pt.)	1.422	1.53
35. I.D.		376	40. Castle River (pt.)	605	61
4. Warner			70. Livingston		1,21
36. Warner		1,871	10. I.D.	4,153	4,14
11. I.D.		4,756	71. I.D.	4,153	4,14 6,69
61. I.D.		740	15. I.D. (pt.)	7,171 4,530	4.26
62. I.D.		615 609	67. I.D. (pt.)	2.264	2.42
63. I.D.		1.164	16. Bright 68. I.D. (pt.)		2.42
91. I.D.		890	39. Kerr	6,011	6
92. I.D.	and the second second	738	68. I.D. (pt.)	374	42
93. I.D.		959	69. Bright	1.187	1,15
12. Forty Mile 64. Forty Mile		959	99. Argyle (pt.)	454	47
13. Bow Island		535	100. I.D. (pt.)		30
94. Bow Island		535	26. Argyle (pt.)		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.		2,297	101. I.D.	95	16
	1 1 1 2 3		Waterton Lakes Nat. Park	210	26
Urban	16,229	13,187	Indian Reserves	2,483	2,16
Cities:					
Medicine Hat	12,859	10,571	Urban	31,331	28,83
Towns:		10000	Cities:		
Bow Island		291	Lethbridge	16.522	14,61
Irvine		240	Towns:		
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	437	335	Coleman	1,809	1,870
Warner	. 370	296	Granum	238	23

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

VITAL STATISTICS BRANCH

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

Division and Subdivision Division No. 2—Continued: Towns—Continued: Macleod	1946	1011	Division and Subdivision	1	
Towns-Continued:	1	1941		1946	1941
	1		Division No. 4-Continued:	2	
			Rural-Continued:		
	1,649	1,912	192. I.D.	39	1
Magrath	1,295	1,207	193. I.D.	1	-
Pincher Creek		994	Bow West Areat (pt.)	719	92 24
Raymond	2,116	2,089	96. I.D. (pt.) 127. I.D. (pt.)	176 478	59
Villages: Coaldale	413	290	157. Marquis (pt.)	65	8
Cowley		125			
Frank		204	Urban	9,270	7,06
Stirling	446	437	Towns: High River	1.674	1,43
Division No. 3	14,749	15,518	Nanton	873	71
Rural		12,151	Okotoks	694	59
21. I.D.		2,404	Stavely	299	27
121. Many Islands (pt.)		2,404	Vulcan Villages:	786	73
I.D. 122. Jubilee I.D. (pt.		633	Arrowwood	206	25
22. I.D.		637	Barons	270	23
125. I.D. (pt.)		4	Black Diamond	1,380	89
125 I.D. (pt.)		1,180	Blackie	222 229	22 22
23. I.D. 127. I.D. (pt.)		1,359	Carmangay Caley	140	13
28. I.D. (pt.)		5.475	Champion	279	32
123. Bow Slope (pt.)	5,480	5,475	Milo	108	12
34. Acadia (pt.)		9	Lomond	138	12
241. Acadia (pt.) Army Experimental Range		9 317	Nobleford Picture Butte	126 689	11
121. Many Islands		12	Turner Valley	1.157	67
122. Jubilee I.D. (pt.)		305			
Berry Creek-Sullivan Lak	e		Division No. 5	16,719	18,92
Area (pt.)	661	752 752	Rural 34. Acadia (pt.)	13,409 670	15.56
122. Jubilee I.D. (pt.) Bow West Area (pt.)		1.198	241. Acadia (pt.)	670	73
96. I.D. (pt.)		536	42. I.D. (pt.)	2,761	2,42
127. I.D. (pt.)		662	276. I.D. (pt.)	2,761	2.42
	0.700	0.007	47. Starland	2,627 879	3,21
Urban Towns:	3,786	3,367	277. Michichi 306. Lambton (pt.)	688	84
Bassano	. 590	582	307. Starland	1.060	1,24
Brooks	1.091	888	Berry Creek-Sullivan Lake		
Redcliffe	1,289	1,111	Area (pt.)		4,65
Villages: Duchess	207	149	214. I.D. (pt.) 305. I.D. (pt.)	963 2.383	$1,25 \\ 2.98$
Empress		341	306. Lambton (pt.)	338	42
Enchant		76	Sounding Creek-Neutral		
Jenner		27	Hills Area (pt.)		4,52
Tilley	. 192	193	214. I.D. (pt.) 242. I.D.		18 2.50
Division No. 4	28,402	29.383	273. I.D.		55
Rural	19,132	22,315	331. I.D. (pt.)	992	1,27
25. Barons	19,132			0.010	0.00
97. I.D. 98. Little Bow	2,757	2,939	Urban Towns:	3,310	3,36
127. I.D. (pt.)			Hanna	1,756	1,62
26. Argyle (pt.)			Villages:	2,100	
129. Clear Lake			Cereal		14
130. I.D. (pt.)	232	266	Chinook		14
130. I.D. (pt.)	59		Craigmyle Delia		31
131. I.D.			Morrin		21
Rural:	1. 9	0.000	Munson		1:
29. Vulcan 127. I.D. (pt.)		2,726	Oyen Bumsou		32
127. 1.D. (pt.)			Rumsey Youngstown		18
157. Marquis			Tourigator it	200	-
158. Royal] 1,174	1,367	Division No. 6		
30. Blackie			Rural		
157. Marquis (pt.) 189. Dinton			28. I.D. (pt.) 123. Bow Slope I.D.	663	64
31. Highwood			(pt.)	663	60
159. Riley			22. Turner Valley (pt.)	63	1
190. Sheep Creek	1,811	1,831	222. I.D. (pt.)	63	8
32. Turner Valley (pt.)			39. I.D.	458	55
160. I.D. 161. I.D. (pt.)			217. I.D. 40. Bow Valley	458	2.9
191. Stockland			218. Blackfoot	1.244	1,45
33. I.D. 161. I.D. (pt.)	. 42	28	219. Bow Valley	1,334	

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

Division and Subdivision	Te	otal	Division and Subdivision	Total		
195 7 249	1946	1941		1946	1941	
Division No. 6-Continued:			Division No. 7-Continued:		-	
Rural-Continued:	1					
247. I.D.	686	893	Rural—Continued: 421. Ribstone	1 000		
42. I.D. (pt.)		4.061	422. Gilt Edge	1,229 1,322	1,41	
276. I.D. (pt.)	2.840	4.061	423. Battle River	1,086	1,39	
43. Serviceberry	2,832	3,013	62. Flagstaff	6,461	7.80	
248. Grasswold	1,332	1,400	364. Flagstaff	998	1.53	
249. Keoma	1,500	1,613	394. Asquith	835	1,04	
44. Conrich 220. Shepard	4.892	4,273 2,134	395. Wheatland	1,465	1,65	
250. Beddington		2,139	424. Kinsella	993	1,10	
45. Springbank		3.241	425. Sterling 455. Iron Creek (pt.)	1,688 482	1,87	
221. Springbank	5,008	3.241	73. Beaver (pt.)	1.347	56 1.51	
46. I.D.	3.711	3,598	455. Iron Creek (pt.)	1,347	1.51	
222. I.D. (pt.)	286	405	Berry Creek-Sullivan Lake	-,011		
223. I.D.	1,693	1,546	Area (pt.)	126	14	
251. I.D.	1,365	1,314	305. I.D. (pt.)	126	14	
252. I.D.	361	333	Sounding Creek-Neutral			
254. I.D. 224, 253, I.D.			Hills Area (pt.)	2,555	3,01	
48. Kneehill		0 007	331. I.D. (pt.)	2,555	3,0	
278. Carbon	7.151	8.097 1.580	Buffalo National Park	17		
279. Norquay	1.982	2,184	Urban	7.015	7.1	
308. Ghost Pine	1.786	2,023	Towns:	7,915	7,10	
309. Stauffer	2,176	2,310	Castor	647	6	
49. Mountain View	8,883	9,800	Coronation	633	5	
280. Rosebud	2,141	2,233	Hardisty	494	43	
281. Beaver Dam	2,080	2,327	Wainwright	1,261	9	
310. Mountain View		2,580	Villages:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
311. Westerdale	2,431	2,660	Alliance	243	2	
50. I.D. 282. I.D.	899 899	1,085 1,085	Cadogan		1	
283, 284. I.D.		1,005	Chauvin Consort	383	3	
51. Banff National Park	2.244	2.545	Czar	325	20	
Banff (not)		2.187	Edgerton	121 273	13	
Indian Reserves		1,859	Forestburg	243	2	
	1		Galahad	166	ĩ	
Urban	111,642	100,311	Hughenden	168	10	
Cities:			Irma	345	27	
Calgary	100,044	88,904	Killam	430	34	
Drumheller Towns:	2,659	2.748	Lougheed	171	19	
Didsbury	980	892	Monitor Provost	OAT	-	
Gleichen		435	Sedgewick	645 417	51	
Olds		1.337	Strome	233	2:	
Strathmore	603	560	Veteran	191	19	
Three Hills	952	706	Viking	526	45	
Villages:				5224		
Acme		285	Division No. 8	64,789		
Airdrie	198	191	Rural	44.097	49,29	
Beiseker Carbon	272 369	240	54. Stettler			
Carstairs	309	409 371	336. Success	1,236	1,3	
Cluny		138	337. Vimy 366. Dublin	686 1.071	1 2	
Cochrane		298	367. Waverly	1,790	1,2	
Crossfield	433	409	396. Haig (pt.)	811	1.0	
Forest Lawn	646	899	397. Lakeside (pt.)	499	6	
Hussar		116	55. Red Deer (pt.)	6,681	7,75	
Irricana		172	338. Hays	2,411	2.70	
Langdon		95	339. Pine Lake	2,011	2,71	
Rockyford		201	340. Arthur	2,259	2,36	
Rosebud Standard		99 212	63. Camrose	11,456	12,4	
Swalwell	611	114	396. Haig (pt.) 397. Lakeside (pt.)	413	1.00	
Trochu	515	480	426. Melrose	922 2,760	1,00	
			427. Evergreen	2,469	2.7	
ivision No. 7		33,285	456. Parkland (pt.)	2,197	2.31	
Rural		22,116	457. Lloyd George	2.695	2,90	
52. Provost		4,716	64. Lacombe (pt.)	6,020	6.58	
362. Hillcrest		986	398. Lamerton	2.169	2,47	
363 Stocks (pt.)		617	399. Crown	3,851	4,10	
391. Sifton 392. Vale (pt.)	1,454	1,688	66. Peneka (pt.)	5,625	6,23	
393. Huamha	310 831	384 1.041	428. Waterglen	1,277	1,48	
53. Paintearth	3,503	4,160	429. Fertile Valley	4,348	4.74	
334. Coronation		1.840	73. Beaver (pt.) 456. Parkland (pt.)	398	56	
363. Stocks (pt.)	286	318	74. Wetaskiwin (pt.)	398 6.496	7 26	
365. Progress	1,723	2,002	458. Montgomery	3,185	7,26	
61. Wainwright (pt.) 392. Vale (pt.)	3.984	4,755	459. Bigstone (pt.) Indian Reserves	3,311	3.77	

VITAL STATISTICS BRANCH

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

Division and Subdivision —		tal	Division and Subdivision	Total		
Division and Subdivision	1946	1941		1946	1941	
Division No. 8-Continued:			Division No. 9-Continued:			
Urban	20,692	18,337	Rural-Continued:			
Cities:	1.040	2.924	80. Jasper National Park . Jasper (not)	1,588	1,622	
Red Deer Wetaskiwin	4,042 2,645	2,318	Jasper (not)	1,415	1,000	
Towns:			Urban	4,150	3,187	
Camrose	2,967	2,598 438	Towns: Rocky Mountain	1.017	800	
Daysland Innisfail		1,223	Sylvan Lake	971	805	
Lacombe	1,808	1,603	Villages:	9.09	970	
Ponoka Stettler		1,306 1,295	Bentley Bowden	362 273	279 234	
Villages:	1,100	1,000	Eckville	195	135	
Alix		360	North Red Deer	698	524	
Bashaw Bawlf		494 227	Rimbey	634	410	
Big Valley		291	Division No. 10	51,881	58,807	
Bittern Lake	38	50	Rural	42,510	49,982	
Blackfalds Botha		113 111	61. Wainwright (pt.)	333 259	425	
Clive	227	224	452. Grizzly Bear (pt.)	74	122	
Delburne	379	308	71. Vermilion River (pt.)		11,869	
Donalda Edberg		206 152	451. Merton (pt.) 452. Grizzly Bear (pt.)	1,164 973	1.246	
Elnora		195	481. Wellington	1,566	1,794	
Erskine		172	482. Vermilion Valley	1,819	1,872	
Ferintosh Gadsby		169 141	511. Streamstown 512. Ethelwyn	2,235	3.158	
Gull Lake		21	72. Minburn	6.218	7.05:	
Halkirk		118	453. Buffalo Coulee	1,130	1.370	
Millet Mirror		325 570	454. Lakeview 483. Melberta	1,242 1,716	1,358	
New Norway		169	484. Birch Lake	2,130	2,430	
Ohaton		53	73. Beaver (pt.)	3,173	3,68	
Penhold	134	183	485. Patricia (pt.) 486. Beaver Lake (pt.)	1,080 2,093	1,261	
Division No. 9	31,160	32,232	81. Eagle	11,787	14,48	
Rural			485. Patricia (pt.)	771	848	
55. Red Deer (pt.) 341. Poplar Grove	5,006		513. Ukraina 514. Sobor	2.549	3.179	
371. Golden West			515. Norma	2,502	3.02	
56. Waterloo		1,402	545. Eagle		4,15	
312. Waterloo 57. Raven			82. Lamont 486. Beaver Lake (pt.)	10,427 585	12,470	
342. Raven		2,254	516. The Pines	2,966	3,54	
58. I.D.			546. Wostok	3,812	4,65	
313, 314. I.D. 316. I.D.		12	547. Leslie	3,064	3,590	
		72	Urban	9,371	8,82	
344. I.D. 374, 375. I.D.	6	6	Towns: Lloydminster (pt.)	698	57	
315, 345, 346. I.D. 64. Lacombe (pt.		2,670	Vegreville	1,563	1.69	
400. Lorne	0 00 4	2,670	Vermilion	1 000	1,40	
65. I.D.			Villages:	369	32	
343. I.D. 401. Lochearn			Bruderheim		23	
403. I.D.	. 368	437	Chipman	194	24	
66. Ponoka (pt.)	1,685		Derwent Hairy Hill		17	
430. Blindman 67. Last West			Hairy Hill Holden		36	
431. Last West	1,482	1,898	Innisfree	258	25	
68. I.D.			Islay Kitscoty		13 23	
432. I.D. 69. I.D.		and the second se	Lamont		43	
376. I.D.	1,263	768	Lavoy	127	17	
433. I.D.	0.00		Manville Minburn		39 12	
434. I.D. 435. I.D.			Mundare		75	
436. I.D. (Pt.)	. 2		Myrnam	308	21	
463. I.D. 464, 465. I.D.			Ranfurly Ryley		12 32	
347, 348, 377, 437 (pt.)		-	Two Hills		21	
76. I.D. (pt.)	3,187		Willingdon		42	
460. Columbia			Division No. 11	168 331	149 19	
461. I.D	0.00		Rural			
79. I.D. (pt.)	. 1,682	2,017	73. Beaver (pt.)	2.629	2,99	
436. I.D. (pt.)	1 690		487. Cornhill 74. Wetaskiwin (pt.)	2,629		
466. I.D. (pt.) 437 (pt.), 468. I.D.	1.680	2,014	459. Bigstone (pt.)			

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

Division and Subdivision	Tot	tal	Division and Subdivision	Tot	al
	1946	1941	2012 400	1946	1941
Division No. 11-Continued:			Division No. 12-Continued:		
Rural-Continued:	- rest	harriso	Rural-Continued:		
75. Leduc	11.629	12,741	529, 530, 561, 587. I.D.	131	10
488. Black Mud	3,798	4.239 4.883	168. I.D. (pt.) 612. I.D. (pt.)	131	10
490. Pioneer		3.619	109. I.D. (pt.)	1.189	1.20
76. I.D. (pt.)	1.385	1,479	583. I.D.	830 319	889
491. I.D.		1,479 6,725	612. I.D. 615. I.D.		4:
83. Strathcona 517. Clover Bar	and set of the later.	2,740	616. I.D.		
518. Strathcona	3,868	3,985	110. I.D. (pt.)		3
84. Stony Plain 519. Spruce Grove	11.816 6.923	10,061 4,824	589. I.D. (pt.) 590. I.D. (pt.)		3
520. Inga	2,693	3,013	111. I.D. (pt.		
521. Tomahawk	1,960	2,198	591. I.D. (pt.)		
551. Morthen (pt.)	240 5,429	26 5.115	Urban	1.874	1.93
90. Sturgeon (pt.) 548. Sturgeon		5,115	Towns:		
91. Morinville (pt.)	3,248	3,542	Edson	1,571	1,49
549. Ray 93. Lac Ste. Anne (pt.)	3,248 5,109	3,542 5,654	Villages: Entwistle		21
550. Woodford	2,590	3,045	Mayerthorpe	303	21
551. Morthen (pt.)	2,519	2,609	Obvision No. 12	30,352	33,17
Elk Island National Park Indian Reserves	51 860	50 997	Division No. 13 Rural		30,80
	1.000		71. Vermilion River (pt.)	441	58
Urban	119,783	99,793	541. I.D. (pt.)	441 360	58 51
Cities: Edmonton	113,116	93.817	85. I.D. 541. I.D. (pt.)		15
Towns:	110,110		571. I.D.	228	35
Beverly		981 903	86. St. Paul 542. Lincoln		10,12
Fort Saskatchewan	921 920	871	542. Laurier		3,06
Morinville	735		544. Champlain	1,964	2,21
St. Albert	804	697 566	573. St. Vincent (pt.)		1,35
Stony Plain Tofield	720 608	551	574. St. Lina 605. Ashmont (pt.)		92
Villages:	1		87. Bonnyville	1.737	1,86
Alberta Beach	101	59	572. Bonnyville		1,86
Hay Lakes Kapasawin	199	154	88. St. Vincent 573. St. Vincent (pt.)		1.96
Onoway	175		89. Smoky Lake (pt.)	4,103	4.83
Sangudo	230	173 84	575. Vilna 605. Ashmont (pt.)		3,59
Seba Beach Wabamun	77	201	635. I.D. (pt.)		17
	A Contraction		101. I.D.	5,719	6,25
Division No. 12	16,718		601. I.D. 602. I.D.		1,46
Rural 77. I.D.	1.645		603. I.D.	1,175	1.31
522. I.D.	1,040		604. I.D. (pt.)		
78. I.D.	2,016		631. I.D. 632. I.D.		
493. I.D. 495, 524. I.D.			633. I.D.	92	13
523. L.D.	. 83		634. I.D. (pt.)		
553. I.D.	1,065		102. I.D. (pt.) 604. I.D. (pt.)		2,74
554. I.D. 494. I.D.			634. I.D. (pt.)		21
79. I.D. (pt.)	2.558		635. I.D. (pt.)		
466. I.D. (pt.)	2,555		664. I.D. (pt.)		
498. I.D. 93. Lac Ste. Anne (pt.)			695. I.D.	342	3
582. Kitchener	2,103		121. I.D. (pt.)		
612. I.D. (pt.)	2.710		661, 662. I.D. 663. I.D.		
94. Pembina 552. Pembina	(D. 100 + 0)		664. I.D. (pt.)		1
95. LD.	2,236	2,560	Indian Reserves	1,963	1,8
525. I.D.			Urban	2,577	2,3
526. I.D. 527. I.D.			Towns:		
555. I.D	. 860	930	St. Paul	1,187	1,0
556. I.D.			Villages: Bellis		1
584. I.D. 585. I.D.			Bonnyville	. 730	6
586, I.D.			Elk Point	338	
96. I.D.	166		Vilna	322	3
528. I.D. 557. I.D.	111		Division No 14	44,546	47,8
558. I.D.		44	Rural	. 40,075	44.5
559, 560. I.D.		47	89. Smoky Lake (pt.) 576. Smoky Lake		9,8

VITAL STATISTICS BRANCH

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

Division and Subdivision	T	otal	Division and Subdivision	Total	
	1946	1941		1946	194
Division No. 14-Continued:			Division No. 15-Continued:		
Purel Continued:			Puppl Continued		
Rural—Continued: 577. Unity	3,924	4,798	Rural—Continued: 675, 676, 677, 678, 679,		1
606. I.D. (pt.)	21	46	I.D.		1
607. I.D. (pt.)	928		620, 621 (pt.), 647, 648.		
90. Sturgeon (pt.)	2,619 2,619		674. I.D.		-
578. Opal 91. Morinville (pt.)	2,613	2.838	111. I.D. (pt.) 622. I.D. (pt.)	211	20
579. Hazelwood (pt.)	2,563		623, 650, 651. I.D.		
92. Westlock	9,705		681. I.D.	tata	1 4
579. Hazelwood (pt.) 580. Lockerbie (pt.)		653 2.309	709. I.D.	99	1
608. Tawatinaw		2,256	710. I.D. 591 (pt.), 621 (pt.),	112	5
609. Pibroch	2,341	2,476	624, 649, 680, 711.		1 10
610. Shoal Creek	2,665	2,775	I.D.		
93. Lac Ste. Anne (pt.) 580. Lockerbie (pt.)	2,487 514	3,006 723	123. I.D. 700, 702. I.D.		1
581. Pershing		2,283	672, 673, 701, 703, I.D.		1
102. I.D. (pt.)	3,392	3,557	124. I.D.	2.731	2.5
606. I.D. (pt.)	25	28	730. I.D.	88	11
607. I.D. (pt.) 636. I.D. (pt.)	997 484	1,123 505	731. I.D.		65
665. I.D.	1,508	1.412	732. I.D. 733. I.D.	866	75
726. I.D.	378	489	125. I.D.	2,713	3.0
103. Cartier	1,423	1,397	705. I.D.	28	2
637. Cartier	1,423	1,397	734. I.D.	116	1
104. I.D. 636. I.D. (pt.)	1,909 159	2,112 171	735. I.D. 864. I.D.	200	1 05
667. I.D.	1.750	1.941	765. I.D.	1,312	1.08
105. Nelson	1,733	1,808	794. I.D.	201	20
638. Nelson	1,733	1,808	704. I.D.		
106. Grosmont 668. Grosmont (pt.)	835 835	863 863	126. I.D.	1,719	1.68
107. I.D.	2.925	3,166	706. I.D. 707. I.D.	422 274	41 20
639. I.D.	805	903	708. I.D.	41	- 9
640. I.D.	976	1,029	736. I.D.	149	13
668. Grosmont (pt.) 669. I.D.	27	COT	737. I.D.	206	9
698. I.D.	501 122	695 63	738. I.D. 767. I.D. (pt.)	608	73
699. I.D.	494	476	130. I.D.	19 3,571	4.32
108. I.D. (pt.)	978	1,088	766. I.D.	725	60
611. I.D. 122. I D.	978	1,088	767. I.D. (pt.)	81	9
122. I D. 696. I.D.	1,339 243	1.172 281	795. I.D. 796. I.D.	286	87
697. I.D.	563	588	131. I.D. (pt.)	2.479	2,75
727. I.D.	173	57	825. I.D.	274	27
728. I.D.	33	79	826. I.D.	903	97
729. I.D.	327	167	855. I.D.	447	58
Urban	4.471	3.373	824, 854. I.D. Indian Reserves	938	1,15
Towns:			And ALCOLITED	000	1,10
Athabasca	747	578	Urban	2,742	1,46
Villages: Barrhead	739	399	Towns:	007	~~
Clyde	150	160	Peace River	997	87
Lac La Biche	642	517	Fahler	279	24
Legal	445	462	Grouard		34
Radway Smoky Lake	179 457	430	High Prairie	643	
Waskatenau	258	237	McLennan	823	
Westlock	854	590	Division No. 16	28,733	30,34
ivision No. 15	17 007	17.404	Rural	23,480	26,34
ivision No. 15 Rural	17,097	17,484 16,020	111. I.D. (pt.) 741. I.D. (pt.)	1	1
108. I.D. (pt.)	638	917	742. I.D. (pt.)	1	1
641. I.D.	605	875	127. Grande Prairie	9.505	10.68
670. I.D. 671. I.D.	31	42	739. Grande Prairie	1,962	2.30
671. I.D. 109. I.D. (pt.)	2 134	160	740. Bear Lake	2,575	2.62
613. I.D.	96	149	741. I.D. (pt.) 742. I.D. (pt.)	1,382	1,63
614. I.D.	1	3	769. I.D. (pt.)	78	40
642. I.D.	37	8	770. I.D. (pt.)	352	41
643. I.D. 110. I.D. (pt.)	76	75	771. I.D.	1,682	1,94
589. I.D. (pt.)	2	75	772. I.D. 132. I.D.	1,087	1,22
590. I.D. (pt.)	53	64	769. I.D. (pt.)	2,279 600	2,24
617, 644, 645. I.D.	4		797. I.D.	964	88
618, 619, 646. I.D.	2	3	827. I.D.	154	16

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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	Total	
Divisions and Dabar visions	1946	1941		1946	1941
Division No. 16-Continued:			Division No. 17-Continued:		
133. Spirit River	1.404	1.828	Rural—Continued:		
829. Spirit River	1.404	1,828	760, 820, 848-850. I.D.		
134. I.D.	2,560	2.728	129. I.D.	378	33
770. I.D. (pt.)	602	644	761, 762. I.D.	22	
800. I.D.	358	393	763, 793. I.D.	243	19
801. I.D.	76	93 1.022	852, 853, I.D. 880, 881, I.D.	52	-
830. I.D. 831. I.D.	980 523	538	791, 792, 821-823, 851.	61	
860. I.D.	020	10	I.D.		
861. I.D.	21	28	131. I.D. (pt.)	136	1
135. Peace	1,791	2,003	882. I.D.	127	
857. Peace	1.791	2,003	915. I.D.	9	
136. Fairview 858. Fairview	2.074 2.074	2.326 2.326	137. I.D. 878, 879, 910. I.D.	112 112	2
138. I.D. (pt.)	1.641	1.844	877.908. I.D.	110	
886. I.D.	451	516	138. I.D. (pt.)	2.033	1.9
887. I.D.	578	666	946. I.D.	1,657	1.5
916. I.D.	290	268	947. I.D.	55	1
917. I.D.	322	394	977. I.D.	129	1
139. I.D. 859. I.D.	2.110 884	2,506 824	978. I.D. 143. I.D.	192 2,555	2.3
835. I.D. 888. I.D.	411	564	782. I.D.	35	6,0
889. I.D.	446	681	843. I.D.	2,520	2,2
890. I.D.	45	62	781, 783, 784. I.D.		
891. I.D.	182	164	144. I.D.	89	
919. I.D.	55	80	907. I.D.	24	
920. I.D. 918, 921. I.D.	87	131	1092. I.D. 909. 938, 940, 969-971,	65	
Indian Reserves	115	161	1000-1002, 1029-1031,		
Urban	5.253	4,000	1059, 1119. I.D 145. I.D.	58	
Towns:			945, 975. I.D.	16	
Grande Prairie	2,267	1,724	1005. I.D.	42	
Villages:	110	0.01	911-914, 941-944, 972-		
Beaverlodge	443	331 206	974, 976, 1003, 1004, 1032-1036, I.D.		
Berwyn Clairmont		102	1037, 1038. I.D.	379	2
Fairview	487	432	146. I.D.	382	2
Grimshaw	287	169	1006, 1016. I.D.	3	-
Hythe	288	247	948-951, 979-982, 1007-		
Rycroft	272	202	1011, 1017-1020, 1039-		
Sexsmith Spirit River	302 362	325 276	1042, 1067-1071, 1096- 1098, I.D.		
Wembley	237	188	147. I.D.	1.339	1.3
and the second	-		1065. I.D.	323	3
Division No. 17	10,131	9,712	1094. I.D.	612	5
Rural	10,131	9,712	1124. I.D.	314	3
102. I.D. (pt.)		33	1125. I.D.	90	1
694. I.D. (pt.)	219	224	1066, 1123. I.D. 148. I.D.	12	
121. I.D. (pt.) 693. I.D.		201	1122. I.D.	12	
694. I.D. (pt.)	48	26	1129-1134, 1147-1152,		
723. I.D.	109	139	1179-1184, 1209-1214,	1	
725, 756, 786. I.D.	17	47	1238-1243. I.D.	and	
752, 753, I.D.	29	12	149. I.D.	52	
691, 692, 721, 722, 724, 751, 754, 755, 785			1138-1140. I.D.	52	
751, 754, 755, 785. I.D.		1. 1. 1. 1.	1099-1101, 1135-1137, 1153-1158, 1185-1190,		
128. I.D.	381	356	1215-1220, 1244-1249.		
757, 758, 759, 787, 790.	1 32		I.D.		
ID.	6	1	Wood Buffalo National		
817, 818, 847, I.D.	40	DEF	Park (pt.)	24	
819. I.D.	335	355	Indian Reserves	2,361	2,5

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HS, DEATHS AND MARRIAGES IN ALBERTA BY DIVISIONS, CITIES, TOWNS AND VILLAGES OF 1,000	
ONS,	1040
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	sdfridi	ms	403	1022266210338661268611 20222662103386612686612 202226621033866126	133 54 58 10 10 28 28 28 28 28 28 28 28 28 28 28 28 28	87
natal	ths er 1 th)	H	221	41.899 10.499 10	288 88 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	³ ¹ ³ ³ ³ ³ ³ ³
Neo-natal	deaths (under 1 month)	M.	279	82000000000000000000000000000000000000	99 11 55 11 1 55 1 40 1 40	801 110 10 110
	years	E4	75	01-04-001000000000	4 9	•
	1-4 3	M.	92	00-00000400400000000	12 ⁸⁰ 0 ⁶⁰ 1	
	Under 1 year	F.	361	212 212 212 212 212 212 212 212 212 212	107 59 59 59 107 59 50 50 50 50 50 50 50 50 50 50 50 50 50	0 0 0 1 0 0 0
DEATHS	Un 1	M.	462	31 31 32 33 31 32 33 32 33 32 33 32 33 32 33 32 33 32 33 32 33 32 33 32 33 33	132 55 53 53 14 1 4	401 1010110 1114
		F.	2733	111 36 36 36 35 36 31 32 31 32 31 32 31 32 35 32 32 32 35 35 35 35 35 35 35 35 36 35 36 36 36 36 36 36 36 36 36 36 36 36 36	1057 485 115 393 65 65 57 21 21	239 54 44 17 1 6 8 8 8 8 8 8 8 8 8 8 1 6 1 1 7 7 1 7 7 1 7 7 1 7 7 1 7 7 1 7 7 1 7 7 1 7 7 8 8 8 8
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	Divisions, Cities, Towns and Villages		TOTAL FOR THE PROVINCE	Division No. 1 Division No. 2 Division No. 3 Division No. 5 Division No. 6 Division No. 6 Division No. 7 Division No. 10 Division No. 11 Division No. 13 Division No. 13 Division No. 14 Division No. 14 Division No. 15 Division No. 15 Division No. 16 Division No. 17 Division No. 17 Divis	CITTLES Calgary Drumheller Edmonton Ledmonton Ledmonton Medicine Hat Red Deer Wetaskiwin	TOWNS Beverly Baumore Braitmore Cantoss Cantoss Cantos Can

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Macleod Magrath Magrath Olds Pincher Creek Ponoka Raymond Redeliffe Redeliff	VILLAGES Black Diamond Turner Valley	TABLE 2GENERAL SUMMARY OF BIRTHS, D AND VILLAGES OF 1.0		PROVINCE AND DIVISIONS		TOTAL FOR THE PROVINCE	Division No. 1 Division No. 2 Division No. 2 Division No. 5 Division No. 5 Division No. 6 Division No. 6 Division No. 10 Division No. 11 Division No. 11 Division No. 12 Division No. 13 Division No. 14 Division No. 15 Division No. 15 Divis

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(EXCLUSIVE OF STILLBIRTHS)	IN
3BIRTHS	
TABLE	

		ALBERTA Rural Urban	DIVISION No. 1 Rural Urban City of Medicine Hat Town of Taber	DIVISION No. 2 Rural Urban Clity of Lethbridge Town of Blairmore Cardston Cardston Magrath Magrath Pincher Creek Raymond	DIVISION No. 3 Rural Urban Town of Brooks Redcliff	DIVISION No. 4 Rural Urban Town of High River Village of Black Diamond Turner Valley
	Total	24935 14267 10668	990 436 554 436 118	1856 857 999 558 558 71 71 71 71 71 75 75 75 71 71 71 75 75 75 75 75 75 75 75 75 75 75 75 75	459 355 104 60 44	770 643 50 31 46
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	March	2044 1161 883	78 29 9 9 9 9 9 9	1156 117 117 117 117 117 117 117 117 117 11	36 278 4 5 9 9	12 40 10 10 10
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	May	2223 1253 970	84 54 54 54 5 5 5 5 5 5 5 5 5 5 5 5 5 5	176 176 51 108 108 108 108 108 108 108 108 108 10	838 4 12 12 12 12 12 12 12 12 12 12 12 12 12 1	821404
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	‡su3uA	2216 1291 925	31 37 37 37	1999 1990 109 107 107 107 107 107 107 107 107 107 107	98 t- 4 t	11 22 22 22 22 22 22 22 22 22 22 22 22 2
	September	2077 1165 912	8223	980 987 987 987 987 987 987 987 987 987 987	¥8681	12400 0
	October	2046 1164 882	123433	180 102 102 102 102 102 102 102 102 102 10	458.001	2 20 4 8 8
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ANNUAL REPORT, 1949 19

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TABLE 3.—BIRTHS (EXCLUSIVE OF 1 IN ALBERTA.	STILLBIRTHS), BY MONTHS, BY PLACE OF RESIDENCE	BY MC RESIL	3Y MONTHS, RESIDENCE		MOTHERS,	AS R RS, 19	CLASSIFIED AS RURAL AND URBAN, OF MOTHERS, 1949-Continued	ND UI nued		BY D	DIVISIONS	NS,	
			-	1	-	-	SHLNOW	S.	-	-		-	
	Total	January	February	March	litqA	May	anut	yuly	1suguA	September	October	November	Decemper
DIVISION No. 13 Rural Urban Town of St. Paul	946 881 65 65	82 81 1	61 6 6 6 6 6 6 6 6 7 6 7 6 7 6 7 6 7 6	81 80 1	8811	77 11 6 6	74 86 88 88	99 92 92	85.38	8 00 10 10 0	898000	80 74 6	70 6 6
DIVISION No. 14 Rural	1375	116	100	115	104	123	H	124	116	113	103	128	122 122
DIVISION No. 15 Rural	759	49	62	61 61	88	88	74	22	70	61 61	54	51	88
DIVISION No. 16 Rural Urban Town of Grande Prairie	944 825 119	00 666 4 4	88==	82 111	86 76 10	66 7 8 8 8 8	11 66	19 12 12	36 10 10	79 64 15	1212	71 58 13 13	11 11 12 88 88 11
DIVISION No. 17 Rural	327 327	22	88	88	88	88	33	88	88	222	22	212	នន
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	Tot	al Bir	ths	Le	gitima	ate	Ille	gitim	ate
Province and Cities	Total	Male	Female	Total	Male	Female	Total	Male	Female
TOTAL FOR THE PROVINCE	24935	12783	12152	23711	12156	11555	1224		
Cities of 5,000 and over:	1-1								
Calgary	3143	1597	1546	2975	1522	1453	168	75	93
Edmonton	4353	2248	2105	4096	2104	1992	257	144	113
Lethbridge	558	311	247	529	295	234	29	16	13
Medicine Hat	436	224	212	413	210	203	23	14	9

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, 1949

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, 1949

Classification of Births	Number
WIN BIRTHS	294
Two males (both living)	96
One male and one female (both living)	116
Two females (both living)	94
One male living and one male stillborn	7 2 1 9 4
One male living and one female stillborn	2
One male stillborn and one female living	1
One female living and one female stillborn	9
Two males (both stillborn)	4 5
Two females (both stillborn)	3
TRIPLET BIRTHS	1
Three females (all living)	î
Total multiple births	335
Male	333
Female	338
Fotal single live births Number	24301
Fotal single live births Male	12466
Female	11835
Termite .	11000
Fotal single stillbirths	366
Male	170
Female	196
	25002

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

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	Other	N
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4	China	*
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	uəpəms	2
	(.H.S.S.U)	72 56 6 6 6 6 6 73 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
i	Roumania	28 12 28 21 12 28 21 1 2 28
	Poland	218 218 218 218 218 218 218 218 218 218
	Notway	61 8 4 m m m m m m m m m m m m m m m m m m
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Europe	Netherlands	11 12 1 1 1 2 2 1 1 2 2
Eun	Italy	1001 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Hungary	1 1 1 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Germany	
	France	N
	Finland	0
1	Denmark	2
	Czechoslovakia	4
	Austria Belgium	9 I I I I I I I I I I I I I I I I I I I
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Posses-	Other name	23 TT 1 1 1 TT 23
British	bnslbn'tw9N	N
Isles	Office	
Is	Wales	
British	Scotland	87 270 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 25 5 1 23 39 54 39 54 2 23 39 54 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Bri	Ireland	
	England	4 I I I I I I I I I I I I I I I I I I I
	Prov. Un-	12 13 14 14 14 14 14 14 14 14 14 14 14 14 14
	British British	401 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
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Canada	Manitoba	$\begin{smallmatrix} & 646 \\ & 44 \\ & 1185 \\ & 1185 \\ & 236 \\ &$
	Ontarlo	$\begin{smallmatrix} 488\\ 66\\ 65\\ 25\\ 25\\ 25\\ 25\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 3$
	South	221 221 221 221 221 221 221 221 221 221
	Brunswick	20 10 10 10 10 10 10 10 10 10 10 10 10 10
	Nova Scotia	122 23 233 233 233 233 233 233 233 233 2
	P.E. Island	16 125 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Total Fathers	18546 137 137 137 137 137 137 137 1382 140 45 140 46 48 9 9 339 339 142 143 143 143 143 143 143 143 144 128 143 143 143 143 143 143 143 143 143 143
		CANADA Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia British Isles England Scotland Vales Nvales Nvales Nvales Newfoundland Other Newfoundland Other Newfoundland Scotland Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Other Newfoundland Dennark Dennark

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		4	58 2	63 2
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TABLE 7.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO AGES OF PARENTS IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHERS, 1949

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	456 3 230 2 226 1	0.410	465 3 234 2 231 1 231 1
	593 4 297 2 296 2	0110	599 4 298 2 301 2
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- NH H H	9 747 3 361 6 386	19 2 11 1 8 1	8 769 4 373 4 396
	5 829 7 423 8 406		0 848 4 434 6 414
	9 925 5 477 1 448	10 - 00	7 940 8 484 9 456
	989 535 454	13	1007 548 459
	1128 559 569	24 14 10	1152 573 573
1 1 1 3 1 3	1311 688 623	27 16 11	1338 704 634
	1467 738 729	32 19 13	1499 757 742
	1507 770 737	37 19 18	1544 789 755
	1561 776 785	2722	1615 803 812
	$1674 \\ 870 \\ 804$	51 24 27	1725 894 831
	1616 826 790	8228	1676 558 818
	1614 848 766	31 241	1686 879 807
	1412 720 692	45.23	01509
	1258 663 595	1111 51 60	5 1369 8 714 655
	1092 564 528	54 54 69	1 1215 618 9 597
	809 429 380	152 73	546 961 293 502 253 459
	$\frac{440}{234}$	106 59 47	546 293 253
	35 158 440 8 16 78 234 19 80 206	88 49 39	77 246 45 127 32 119 2
	35 16 19	42 29 13	45
11111111111	44	122	16 11 5
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111111111111	111	111	
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TABLE 8.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO RACIAL ORIGIN OF PATIENTS, IN ALBERTA BY PLACE OF WOTHERS 1949

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Swedish Ukrainian Yugoslavic Other Asiatic Chinese Hindu (East Indian) Japanese Syrian	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 Female

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	rence	In Canada	In United States	In Canada	In United States	residence	rence	In Canada	In United States	In Canada	In United States	residence
Total for the Province	24850	193	18	281	15	24935	23740	188	17	277	14	23826

5		All Live	Live Births					Births in I	Births in Institutions		
Mothe	her's resid	Mother's residence elsewhere	Births to resident mothers occurring elsewhere	resident ccurring here	Place of	Place of occur-	Mother's residence elsewhere	residence	Births to resident mothers occurring elsewhere	resident ccurring here	Place of
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VITAL STATISTICS BRANCH

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IABLE II-UNDER OF BIANE OF LEGETA.		Order of birth of child	1st child 2nd 2nd	TOTAL

TABLE 11-ORDER OF BIRTH OF LEGITIMATE CHILDREN BORN IN 1949 (INCLUDING STILLBORN CHILDREN).

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TABLE 12-DEATHS OF CHILDREN UNDER ONE YEAR (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES, BY SEX AND CALENDAR

VITAL STATISTICS BRANCH

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NI	l und year		Male	462 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
TH	Total under 1 year	1	Tota	$\begin{smallmatrix} & 823 \\ & 823 \\ & 3 \\ & 3 \\ & 3 \\ & 4 \\ & 4 \\ & 4 \\ & 4 \\ & 3 \\ & 5 $
MONTH OF DEATH		CAUSES OF DEATH		CAUSES Cerebrospinal meningitis Scarlet fever Whooping cough Diphtheria Erysipelas Tuberculosis of the respiratory system Tuberculosis of the respiratory system Dysentery Systemey Dyspentery Systemey Meaningits Convulsions Meaning Diseases of the twynux Bronchopmeunonia Diseases of the buccal cavity and annexa and of the Prounonia Diseases of the buccal cavity and annexa (of the Diseases of the buccal cavity and annexa (of the </th
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TABLE 13—INFANTILE DEATH AND STILLBIRTH RATES, ALSO NUMBER OF LIVE BIRTHS WITH OR WITHOUT A PHYSICIAN, BY DIVISIONS AND CITIES IN ALBERTA, BY PLACE OF RESIDENCE, 1949

TANDAL IL CALLY	TOTAL TO WINDOW	OF THEORY PARTY OF	LOT GROATE					-
	Death rate one year 1,000	of children of age to live births	under each	Births	Births with or without physician in attendance	hout a dance	Rates o children live	Rates of stillborn children to 1,000 live births
Divisions and Cities	Rate per 1000 live births	Number of deaths	Total Live births	With physician	Without physician	Not stated	Number of stillbirths	Rate per 1000 live births
No. 1- No. 2-	HR	17 43	554 1298	523 1178	30 116	4 1	7 26	12.6 20.0
Division No. 3—Bow Division No. 4—Nanton	24 39	30	459	454	13 5		17	13.1 22.1
No. 5-	23	6	397	394	60		9	15.1
Division No. 6—Calgary (Cities of Calgary and Drumheller excepted) Division No. 7.—Battle River	38	88	1486	1417	88	1	53 O	19.5
No. 8	100	183	1630	1582	4	000	24	14.7
Division No. 3-nocky mountain nouse Division No. 10-Victoria	88	36	1215	1200	15	a	21	17.3
No. 11-Edmonton (City of Edmonton excepted)	34	60	1749	1680	32	90	21 6	11.7
No. 13-	44	42	946	840	100	9	23	26.4
No. 14-	36	49	1375	1290	82	co =	29	21.1
10	00	16	AC1	008	217	*-	06	6 16
Division No. 17-Athabasea	88	27	327	155	153	19	1	3.1
City of E	26	112	4353	4348	4	1	28	13.3
of	28	87	3143	3139	- 07	1	54	17.0
10 1	0T 0T	101	927	135	1	F	9 00	6.9
City of Red Dar	24	1.0	211	211		•		23.7
jo	31	4	127	127			1	7.9
City of Wetaskiwin	32	3	95	94	1		63	21.1
INIO	98	584	16012	15065	894	22	270	16.9
Cities	27	239	8923	1168	E COM	20	133	14.9
Whole Province	23	879	24333	0/627	2002	00	604	70T

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TABLE 14.—DEATHS OF CHILDREN UNDER ONE YEAR (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES, BY SEX AND AGE AT DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1949

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	Under 1 day	54	108		11		11	-	11	-			1	-	
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tal u		9IsM			00					0.0				_	
Tot	1	letoT	823					-			1.4	000			43
	CAUSES OF DEATH		ALL CAUSES	6 Cerebrospinal meningitis 8 Scarlet fever	o Diphtheria 1 Ervsibelas			33 Influenza 35 Measles	36 Acute poliomyelitis and polioencephalitis 64 Diseases of the thymus gland			Bronchitis Bronchonneumonia			a Diseases of the stomach 9 Diarthoea and enteritis 0 Acute nehritis
			ALL			14-22	14 69 5	nes	00	00 00	105	106	108, 109		119 130

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VITAL STATISTICS BRANCH

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Cities: Calgary Edmonton Lethbridge Medicine Hat

Place of residence

> In United States

Lanada

In United States

In Canada

Deaths of residents occurring elsewhere

Residence

Place of occur-

> Place of residence

> > In United States

In Canada

In United States

Lanada

Deaths of residents occurring elsewhere

Residence

Place of occurrence

Cities

All Deaths under one year

Deaths in Institutions

stitutions	Deaths of residents occurring elsewhere Place of	Lin In residence Canada United States	10 589
Deaths in Institution	nce	In United States	1
	Residence elsewhere	In Canada	53
	Place of occur-	rence	583
	Place of	residence	823
ar	Deaths of residents ccurring elsewhere	In United States	
under one year	Deaths of occurring	In Canada	11
All Deaths u	Residence	In United States	1
A	A Resid elsew LIn Canada	In Canada	22
	Place of		817
			Total for the Province

TABLE 17.--CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1949

1	Not stated	111		
	and over 100 years	44	111	
	62-66 Xests	32 20 12		
	90-94 Years	129 69 69	00.00	
	82-89 Xears	362 201 161	40103	
	80-84 Years	539 324 215	00 <u></u> 04	
	75-79 years	744 3304	Q 10 10	
	10-14 Aests	540 540 323	10 14 00	
	62-69 years	833 556 277	15 20	
	60-64 years	684 551 233	8181 0	
	22-23 Xests	484 315 169	24 8 8	
	20-24 Aests	2398 199	12 6	na
S	42-49 Years	246 155 91	20 8 8	6 6
AGES	40-44 Years	160 160 59	12 8 4	no n
	35-39 years	134 78 56	13	44044
	30-34 Aests	1110 62 48	13	1
	52-53 Aests	888	19 8 11	100100
	50-54 Years	145 92 53	13 13	88 1 130 130 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	15-19 years	. 92 351	19 10 9	
	10-14 years	333	16 10 5	
	2-9 Years	38 38	29 16 13	000 000 000 000 000 000 000 000 000 00
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		Total Male Female	Total Male Female	Male Female Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Female
	CAUSES OF DEATH	DEATHS-ALL CAUSES	CLASS L-INFECTIOUS AND PARASITIC DISEASES	1 Typhoid fever Male 2 Paratyphoid fever Female 5 Undulant fever Female 6 Cerebrospinal meningitis Female 8 Scarlet fever Female 9 Whooping cough Female 10 Diphtheria Female 11 Erystpelas Female 12 Tetanus Female 13 Tuberculosis of the respiratory system Female 13 Tuberculosis of the respiratory system Female 14 Bythout mention of occupational diseases of lungs Female 13 Ubbrout mention of occupational diseases of lungs Female
		DEAT	CLAS	1 2 6 8 8 8 8 10 11 11 13-22 13 13-22 13

ANNUAL REPORT, 1949

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VITAL STATISTICS BRANCH

	CAUSES OF DEATH	(c) Unspecified site Male (d) With mention of dementia pratecox Male Tuberculosis of the meninges and central nervous Female Tuberculosis of the intestines and peritoneum Female Tuberculosis of the vertebral column Female Tuberculosis of the vertebral column Female Tuberculosis of the vertebral column Female Tuberculosis of the skin and sub-cutaneous Male (a) Bones Male Tuberculosis of the skin and sub-cutaneous Male Tuberculosis of the skin and sub-cutaneous Male Tuberculosis of the genito-urinary system (bronchial, measulating and retroperitoneal glands excepted) Male Tuberculosis of the genito-urinary system Male Penale Female Tuberculosis of the genito-urinary system Male Female Female Other and unspecified generalized Female Penale Female Male Female Female Female Female Female Tuberculosis of the skin and sub-cutaneous Female Fuberculosis of the genito-urinary system Female
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AGES	40-44 years	
S	20-24 Aests	
	22-23 Xests	
	60-64 Years	
	65-69 years	
	70-74 years	
	75-79 Years	
	82-89 Years	
	90-94 A6918	
	62-66 Acute	
	and over 100 years	
1	Not stated	

TABLE 17.-CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued

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TABLE 17.--CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued

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	95-99 years	
	90-94 Years	
	85-89 years	33321 15 16 16 16 16 16 16 16 16 16 16 16 16 16
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	75-79 years	34446624 888 888 1333 1333 1333 1333 1333 1333
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	60-64 years	111 122 244 11 123 258 559 559 559 558 558 558 558 558 558 5
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	20-24 Xests	1 12 23 33 33 33 33 33 33 33 33 33 33 33 33
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AGES	40-44 Years	33 33 33 33 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	35-39 years	10111111111111111111111111111111111111
	30-34 Years	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	25-29 years	040 40 HILLING
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	12-13 Xests	· · · · · · · · · · · · · · · · · · ·
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	Total	77777777777777777777777777777777777777
		Male Female Female Male Female
	CAUSES OF DEATH	42 Other diseases due to helminths 43 Mycoses 44 Other infectious and parasitis diseases 45 Other venereal diseases (a) Other venereal diseases (Hodgkin's disease) (b) Lymphogranulomatosis (Hodgkin's disease) (G) Mumps (c) Mumps (Hodgkin's disease) (d) Others under this title (G) Others under this title (d) Others under this title (G) Others and other malignant tumours 45-55 Cancer and other malignant tumours 46 Cancer of the buccal cavity and pharynx 47 Cancer of the organs and 48 Cancer of the outher malignant tumours 49 Cancer of the digestive organs and 60 Of the stomach (a) Of the stomach (B) (a) Of the stomach (B) (b) Of the stomach (B) (c) Of the intestines (B) (f) Of the intestines (B) (f) Of the liver and biliary passages (B)
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	CAUSES OF DEATH		(b) Of the uterus(c) Of other female genital organs	 (d) Of the brain and other parts of the central nervous system (a) Of other and increating automa 	ANA	 58 Acute rheumatic fever (a) Acute rheumatic heart conditions (b) Others under this title (b) Others under this title (c) Others under this title (d) Other rheumatic diseases 60 Gout 61 Diabetes mellitus 62 Diseases of the pituitary gland 63 Diseases of the thyroid and parathyroid glands (a) Simple goitre
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TABLE 17.--CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1949--Continued

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TABLE 17-CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued

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	CAUSES OF DEATH				Female Male			endocarditis (acute, subacute or d)		Male							Male	
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					Female Male			Bacterial endocarditis (acute, subacute or unspecified)	Other acute or subacute endocarditis	Male		Specified valvular diseases (rheumatic)	Other specified valvular diseases (non- rheumatic)				Myocarditis (not specified under 45 years) Male	
		VIL-DISEASES OF THE CIRCULATORY SYSTEM	Diseases of the heart	Pericarditis (acute rheumatic excluded)	e :	(b) Others under this title	Acute endocarditis (non-rheumatic)	endocarditis (acute, subacute or d)		e	Chronic affections of the valves and endocardium			(c) Unspecified valvular lesions and endocarditis Male	Diseases of the myocardium	(a) Acute myocarditis	Male	and myocardial degener-
					Female Male			Bacterial endocarditis (acute, subacute or unspecified)	Other acute or subacute endocarditis	Male		Specified valvular diseases (rheumatic)	Other specified valvular diseases (non- rheumatic)				Myocarditis (not specified under 45 years) Male	

(d) Chronic myocarditis (non-rheumatic).(e) Other myocarditis (not specified)94 Diseases of the coronary arteries and	(a) Diseases of the coronary arteries (b) Angina pectoris	95 Other diseases of the heart		(c) Other diseases of the heart (non-rheumatic)36 Aneurysm (heart and aorta excepted)	97 Arteriosclerosis (coronary or renal cerebral haemorrhage excepted) 98 Gangrene			103 Other diseases of the circulatory system	CLASS VIIL—DISEASES OF THE RESPIRATORY SYSTEM	 104 Diseases of the nasal fossae and accessory sinuses 105 Diseases of the larynx 106 Bronchitis (a) Acute
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	CAUSES OF DEATH	 (b) Chronic (c) Unspecified (c) Unspecified (d) Others under this title (a) Empyema (b) Others under this title (c) Others under this title (b) Others under this title (c) Haemorrhagic infarction, congestion, oedema and thrombosis of the lungs (a) Haemorrhagic infarction and thrombosis of the lungs (b) Others under this title (c) Gangrene of lung (d) Others under this title (e) Gangrene of lung (d) Others under this title

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 S IXDISEASES OF THE DIGESTIVE SYSTEM 5 Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (a) Diseases of the pharynx and gums (b) Septic sore throat (c) Diseases of the pharynx and tonsils (d) Others under this title (e) Diseases of the oesophagus (f) Others under this title (g) Others under this title (h) Duodenum (h) Ulceration of the intestines (h) Ulceration of the intestines (h) Ulceration of the intestines (h) Intestinal obstruction (h) Intestinal obstruction (h) Intestines of the liver (a) With mention of alcoholism
CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM 115 Diseases of the buccal cavity and annexa, and the pharynx and tonsils

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	CAUSES OF DEATH	 (b) Without mention of alcoholism 125 Other diseases of the liver (a) Acute yellow atrophy (b) Others under this title (b) Others under this title 126 Biliary calculi 127 Other diseases of the gall-bladder and bile ducts 128 Diseases of the pancreas 129 Peritonitis without stated cause 130 Acute nephritis 131 Chronic nephritis 132 Nephritis unspecified (10 years and over) 133 Other diseases of the kidneys and ureters 134 Calculi of the urinary passages 135 Diseases of the urinary bladder 	(a) Stricture of the urethra
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TABLE 17-CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued

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Diseases of the prostate	Diseases of the male genital organs (non-venereal)	Diseases ((a) Ovaries, Fallopian tubes and parametria	(h) Uterus	((c) Others under this title	CIDISEASES OF PREGNANC AND THE PUERPERAL STATE	Abortion with mention of infection	Sp				Abortion without mention of infection					
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VITAL STATISTICS BRANCH

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(f) Induced by other person for non-therapeutic		(a)	(a) With mention of infection	(b) Without mention of infection	Haemorrhage of pregnancy, death prior to delivery Female	(a) Placenta praevia	(b) Prenature separation of placenta	(c) Others under this title	Toxaemias of pregnancy, death prior to delivery	(a) Eclampsia 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 prior to delivery	(a) With mention of infection	(b) Without mention of infection	Haemorrhage of childbirth and the puerperium	(a) Placenta praevia	(b) Premature separation of placenta
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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued

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VITAL STATISTICS BRANCH

	CAUSES OF DEATH	CLASS XIII.—DISEASES OF THE BONES AND ORGANS Total OF MOVEMENT Release	Osteomyelitis and periostitis Ma Other diseases of the bones (tuberculosis ex-	Diseases of the joints and other organs of move- ment	 (a) Diseases of the joints (tuberculosis and rheu- matism excepted) (b) Others under this title 	CLASS XIVCONGENITAL MALFORMATIONS Fenal	157 Congenital malformations Male (a) Congenital hydrocephalus Perma (b) Spina bifida and meningocele Perma (b) Spina bifida and meningocele Perma (c) Anencephalus Perma (d) Congenital malformations of the heart Perma (d) Congenital malformations of the heart Perma (e) Others under this title Perma (e) Others under this title Perma (cLASS XVDISEASES PECULIAR TO THE FIRST YEAR Patal OF LIFE Male
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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued

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TABLE 18-CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1949

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TABLE 18.-CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued

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 (a) Other venereal diseases (b) Lymphogranulomatosis (Hodgkin's disease) (c) Mumps (d) Others under this title 			Cancer of the digestive organs and peritoneum (a) Cancer of the oesophagus				Cancer of the liver and biliary passages		Cancer of the mesentery and peritoneum .	Cancer of other and unspecified sites			(c) Of the Mediastinum and other sites				
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 (a) Other venereal diseases (b) Lymphogranulomatosis ((c) Mumps (d) Others under this title 	HER	Cancer and other malignant tumours Cancer of the buccal cavity and phar	Cancer of the digestive organi (a) Cancer of the oesophagus	(b) Cancer of the stomach	Cancer of the Duodenum	Cancer of the intestines	er an	Cancer of the pancreas	sente	and	Cancer of the respiratory system		m a			Of other and unspecified sites	Cancer of other female organs
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	CLASS IL-CANCER AND OTHER TUMOURS	45-55	46								47			48			49
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	(d) Of the brain and other parts of the central nervous system	Male	4		1	1	-	1
	er and unspecified organs	Female Male Female	03 03 04	111	111	17	111	111
CLASS	III.—RHEUMATISM, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS, OTHER GENERAL AND Total VITAMIN DEFICIENCY DISEASES Male Fema	Total Male Female	217 97 120	13 ²² 13	13	20 6 14	23 6 EI	133
58	-	Male	9 %	° .	11	1	- 01 -	-
	 (a) Acute rheumatic heart conditions (b) Others under this title 	Male Female Male	- 10 00	⁵³ 1	111	111		-
59	Chronic rheumatism and other rheumatic diseases	Female Male Female	00 W W	-	11			¢1 -
60	Gout	Male	0	• :	I I	a :	•]	• 1
19	Diabetes mellitus	remaie Male	72	10 0	10 0	90	1-0	60
62	Diseases of the pituitary gland	Female Male	94 1	PT ::	•	<u>ا م</u>	7 j	0
63	Diseases of the thyroid and parathyroid glands	Female	- 10	1.1		1.1	1 1	11
	(a) Simple goitre	Female	13	N	-	N	-	-
	(b) Exonhthalmic coltre	Female	CI 4	1 1	-	-	1 1	-
	(a) Myvaadama and ratinism	Female	10	1	-	61	1	1
		Female	1	1	1	1	1	
10	(n)	Female		1	1	1		
5 6		Female						1.1.
60		Female	100 1	11	11		•	
99	Other general diseases	Female	- 00	1 1	I I	11	11	
	(a) Osteomalacia	Male	1		1		1	1
	(b) Other under this title	Male			11		11	
68	Berlberi	Female	0	1 1	1.1	11	11	-
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	CAUSES OF DEATH		IntoT	January	February	March	April	June May		asuguA July		September	October	November
71	Rickets	Male Female Male	111	111	-111	111	111	111		111		111	111	111
CLASS	IVDISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	Total Male Female	888	40-	- I	01-01	00 10 00	104-	1-03-4	***	10 00 04	00		10 00 01
72	Haemorrhagic conditions	Male	1	1		1	1	E		- 1				
	(a) Primary purpura	Female Male Female	11	11	11	11	11	11	11	11	11	11	11	
	(b) Haemophilia	Male	11	-	11	11	11	11	11	11	11	11	11	
	(c) Others under this title	Male	11	1 1	11	1	11	11	11	11	11	11	11	1.1
73	Anaemias	Male	10	01		.00	1 1	-	-	11	11	1	1	
	(a) Pernicious anaemia	Female Male	910	1	11	c1 c2	1	-	11	11	11	11	-	11
	(b) Others under this title	Female	1010	1	11	0	-		1/1	11	11	1	-	1
74	Leukaemias and aleukaemias	Female Male	28	I	11	- 41	10	.00	101	0	0	01	.00	100
	(a) Leukaemias	Female Male	26		-	4	011	00	01 01	- 00	01 01	1	01 03	0101
	(b) Aleukaemias (Hodgkin's disease excepted)	Female Male	16	-	-	1 1	-	11	CN	-	C1 ==	-	01	64
72	Diseases of the spleen	Female Male	11		1.1	11	1 1	11	11	11	11	11	1	1
76	Other diseases of the blood and blood-forming organs	Female Male Female	C1 -	11	1,1	11	11-	TT.	-	11	11	11	11	11
ASS	CLASS VCHRONIC POISONING AND INTOXICATION	Total Male Female	1=1=	111			• • • • •			1 1 1 1				1 1 1 1
17	Alcoholism	Malo	9	-			1	-	-		-			

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CAUSES OF DEATH	Convulsions (under 5 years of age)	Other diseases of the nervous system	(a) Chorea	(b) Neuritis	(c) Paralvsis agitans	(d) Disseminated sclerosis	(e) Others under this title	Diseases of organs of vision	89 Diseases of the ear and mastoid process	(a) Otitis and other diseases of the ear	(b) Diseases of the mastoid process	CLASS VIL-DISEASES OF THE CIRCULATORY SYSTEM	 Pericarditis (acute rheumatic excluded) (a) Chronic rheumatic pericarditis 	(b) Others under this title	Acute endocarditis (non-rheumatic)

OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued NACANTRU .

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TABLE 18.--CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued

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	CAUSES OF DEATH	100 Diseases of the veins 101 Diseases of the lymphatic system 102 High blood pressure (idiopathic) 103 Other diseases of the circulatory system 104 Diseases of the reculatory system 105 VIL-DISEASES OF THE RESPIRATORY SYSTEM 106 Diseases of the nasal fossae and accessory sinuses 106 Diseases of the larynx 107 Bronchitis 108 Lonnic 109 Bronchitis 100 Bronchitis 101 Bronchoneumonia 101 Bronchoneumonia 102 Bronchoneumonia 103 Lobar preumonia 104 Pleurisy 105 Pneumonia 106 Pneumonia 107 Bronchopneumonia 108 Lobar preumonia 109 Pneumonia 100 Pneumonia 101 Pleurisy (a) Empyema (b) Others under this title
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morrhagic infarction, congestion, oedema and bosis of the lungs	DISEASES OF THE DIGESTIVE SY asses of the buccal cavity and am pharynx and tonsils cavity and am Diseases of the teeth and gums Septic sore throat and tonsils Diseases of the pharynx and tonsils Others under this title asses of the coesophagus cases of the stomach or duodenum Stomach croach or duodenum Stomach and entertits (under 2 years o	rhoea
Haemorrhagic infarction, congestion, oedema bosis of the lungs	 X.—DISEASES OF THE DIGESTIVE SYSTEM Diseases of the buccal cavity and annexa, pharynx and tonsils (a) Diseases of the teeth and gums (b) Septic sore throat (c) Diseases of the pharynx and tonsils (d) Others under this title Diseases of the oesophagus Diseases of the stomach or duodenum (a) Stomach (b) Duodenum (b) Duodenum Other diseases of the stomach Other diseases of the stomach 	(a) Diarrhoea and enteritis
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TABLE 18CAUSES OF DEATH BY SEX A CAUSES OF DEATH Diarrhoea and enteritis (2 years and over) Diarrhoea and enteritis (2 years and over) <
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Continued OF DEATH IN ALRERTA BY PLACE OF RESIDENCE, 1949-ACONTRUE T AND 100

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CLASS X.—DISEASES OF THE URINARY AND GENITAL SYSTEMS Reale Female	Acute nephritis	Chronic nephritis	Nephritis unspectited (10 years and over)	Other diseases of the kidneys and dieters	134 Calculi of the urinary passages	135 Diseases of the urinary bladderFemale	136 Diseases of the urethra, urinary abscess, etc.	(a) Stricture of the urethra	(b) Others under this title	137 Diseases of the prostateMale	138 Diseases of the male genital organs (non-venereal)	139 Diseases of the female genital organs (non-venereal) Female	(a) Ovaries, Fallopian tubes and parametria	(b) Uterus Female	(c) Others under this title Female	CLASS XIDISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE Total	140 Abortion with mention of infectionFemale	(a) Spontaneous, therapeutic or of unspecified origin with mention of pyelitis	peutic or of unspecified origin with ifection	(c) Self-induced Female	(d) Induced by other person for non-therapeutic reasons. Female

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CLASS XIVCONGENITAL MALFORMATIONS	 157 Congenital malformations (a) Congenital hydrocephalus (b) Spina bifida and meningocele (c) Anencephalus (d) Congenital malformations of the heart (e) Others under this title 	CLASS XVDISEASES PECULIAR TO THE FIRST YEAR 158 Congenital debility 150 Premature birth	n n	162 Senility(a) With dementia(b) Without dementia
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TABLE 18.--CAUSES OF DEATH BY SEX AND MONTH OF DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1949-Continued

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	November	65 45 20	1-01	1111	1-0	4-4	-4-		ITT		5400	111	5	97 1
	October	59 44 15	63	1111	01-	- 64	117	111	111	01		01	40	5
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	March	42 88 88	00 01	H 01	6 1		0	en 📋	-		111	111	12	- 61
	E eptrøt A	26 23 25	44	111	4.		01	111	111			111	22	•
	January	42 15 15	004	00 H	10 0		01		1	111		111	18	2
	Total	676 496 180	64 16	00 P= == 01	61 12 F	919	4.62	10 00		10		9 1 1	421	19
		Total Male Female	Male Female Male	Female Male Female Male	Female Male Female	remare Male Female Male	Female Male Female	Male Female Male	Male Female	Female Male Female	Male	Male Female Male	Female Male	Female Male Female
	CAUSES OF DEATH	CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS	163, 164 Suicides 163 Suicide by poisoning	 (a) By corrosive substances, solid and liquid poisonings (b) By poisonous gas 	164 Suicide by other means	(a) By hanging or strangulation(b) By drowning	(c) By firearms or explosives	(d) By cutting or piercing instruments(e) By jumping from high places	(f) By crushing	166-168 Homicides		167 Homicide by cutting or plercing instruments 168 Homicide by other or unspecified means	169-195 Accidental deaths	169 Railway accidents (excluding motor vehicles)
	2	CLA	163,							166-			169-	

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170	Motor vehicle accidents	Male	132 4	21	00	60	13	13	17	1 3	0 17	11	15
	(a) Collisions with trains	Male	13 13	11	67		01	9 =	09]			000	t= 00
	(b) Collisions with street-cars	Female Male	00	11		1					-	¢1	1
	(c) Automobile accidents (excluding trains or street-cars)	Female	118 3	113	9	1.	12	12	1	10			13
	(d) Motorcycle accidents (excluding automobiles)	Female	29				61	9	0		9	-	9
171	Stre	Female Male	3 1				1			1			
	(a) Street-car accidents (excluding trains and motor	Female	2	I	1		-	1	-				1
	(b) Others under this title	Female	1 6	11	11	1.	11	11			11		
172		Female	1010	11		1			-	4 . H	11		
173		Female	- 00	11	11	i I	• 10	-	204			1	
174		Female	15		11	1	1 17	1 17	0			11-	
175		Female	45 2	1 . 00		• • •	+ _ MS	* 10	1	+ 00	- 10	-	
	(a) Accidents involving agricultural machinery and	Female	67 6			• • •			-			**** 6	• • •
	(b) Injury by animals. in agriculture	Female Male	10		1.5	• :-	•	11 01		0 -	1 6	N -	-
	(c) Other agricultural accidents	Female	9	-	101	1	1 1	2		1		-	
	(d) Accidents involving forestry machinery and vehicles	Female Male		11		11	11						
	(e) Other forestry accidents	Female Male	0	61	11	1 1	1				-	I	
176	-	Female Male	14 1	1	1	4	101			6.1	61		1
177		Female Male	1 33	1 1	11		F	1			-		
178		Female Male	1	.es	Г	1	11	-	.00			0	0
	(a) Coal and illuminating gas	Female Male	00 01	-		11			-				
	(b) Motor vehicle exhaust gas	Female	10	-					-			-	11-
		Female	10110	1	1.10		11						
		Female	2 163			i i	11			1.1	1	•	a 1
179	Acute accidental noisoning by solids or liquids	Female	4	1	IT	11		-				11	
	market to correct for Gammana and annexes on the	Female			Π	Π	•]	T		-			

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AND MONTROL Davies of the second seco	Espinary Filmer Sanation Filmers	A1	IirqA Hol Helding Hol Helding <th< th=""><th>YeM Work Hof Helegogg = 0.088.80 H G YeM Val 40.44 40.44 0.1 0.1 0.1 0.1 1 1.4 1</th><th>Way 10 10 10 10 10 10 10 10 10 10 10 10 10</th></th<>	YeM Work Hof Helegogg = 0.088.80 H G YeM Val 40.44 40.44 0.1 0.1 0.1 0.1 1 1.4 1	Way 10 10 10 10 10 10 10 10 10 10 10 10 10
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ANNUAL REPORT, 1949

	 (b) Other accidents due to medical or surgical intervention (c) Lack of care of the new-born 	Male Female Male		111	111	111	111	111	111	111	111	1 1 1
	ncture by ingested objects	Female Male Female		1 2	1.17	10	1 17		11		-	111
	(e) Other and unspecified objects	Male	0.0010		-	1 (01	•	2	1	11	61	01-1
196-198		Male Female			11	11	11	11	-	11	1.1	
198	Legal executions	Male Female			11	11	11		11		1 [11
CLASS	XVIIIILL-DEFINED AND UNKNOWN CAUSES OF DEATH	Tetal Male	194	11		co co	0	40-	400-	6000	10 00 01	oo t
199	Sudden death	Male	20			•	•			1	- 1	61
200		Female Male	23 1		1	1-10			102 -		000	10 -
	(a) III-defined	remale Male Female	The second	11	11	1-0				4 10	101-	
	(b) Found dead	Male				a :	11	• •	•		•	
	(c) Unknown or unspecified causes	remaie Male Female	15 1		I			01	53	61		
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CLAS	CLASSIFICATION OF ACCIDENTAL DEATHS ACCORDING TO 7 ACCORDING TO CIRCUMSTANCES INVOLVING THE ACCIDENT	DING TO THE NATURE OF INJURY. ACCIDENT UNDER RUBRICS 169 TO	INJURY. S 169 TO	THESE 176, 178	ACCIDENTAL DEATHS . 180, 181, 182, 183, 185,	TAL D 182, 1	DEATHS 183, 185,		ARE CLASSIFIED 186, 187 AND 193.	D 193.	ABOVE	8
Accider	Accidental absorption of polsonous gas	Male Female	16	0	1	F	1	4	11	61	-173	10
Acciden	Accidental burns	Male Female		en =-	101	00	1	61	1	61	01 01	11
Accider	Accidental mechanical suffocation	Male Female				61	-	101		61	61	1 1
Accider	Accidental drowning	Male Female	45	11	1 10	9	10.4	16 1	en	4	0	-
Accider	Accidental injury by cutting or plercing instruments	Male Female	61		-	-	•			11	11	I I
Accider	Accidental injury by fall	Male Female	54	1001	6 9 6 3	10 1-1	20	400	0101	co 10		
Accider	Accidental injury by crushing	Male Female				22	19			12	44	10
Accider	Accidents due to electric currents	Male Female	m	-		-	11		11	11	1 1	

TABLE 19CAUSES OF DEATH BY		CAUSES OF DEATH	DEATHS-ALL CAUSES	CLASS IINFECTIOUS AND PARASITIC DISEASES	1 Typhoid fever	2 Paratyphoid fever	5 Undulant fever	6 Cerebrospinal meningitis	8 Scarlet fever	9 Whooping-cough	10 Diphtheria	11 Erysipelas	12 Tetanus	13-22 Tuberculosis of the respiratory system	13 Tuberculosis of the respiratory system	(a) With mention of occupational diseases of	(b) Without mention of occupational diseases of	(c) Unspecified site	
OF DEATH B			Total Male Female	Total Male Female	Male .	Male	Female	Female Male	Male	Female Male	Female	Female	Female	Female	Female Male	f Female		Female Male Female	Female
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		70-74 years	121 1 81 40		-	1 1	1	111	11	1	-	11	1		-		11		
		siear 49-08	64 3 44 3	00											-		11		-
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		90-94 years	64 18 259 8 35 10			1 1											11	111	-
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		and over 100 years	0.01	111	i	1-1	1			1	1		1	11			11	111	-
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	CAUSES OF DEATH	(d) Others under this title	CLASS IICANCER AND OTHER TUMOURS	45-55 Cancer and other malignant tumours 45 Cancer of the buccal cavity and pharynx	46 Cancer of the digestive organs and peritoneum	(a) Cancer of the oesophagus	(c) Of the duodenum	(d) Of the rectum and anus	(e) Of the intestines	(f) Of the liver and billary passages	(g) Of the pancreas	(h) Of the mesentery and peritoneum	(m) Other and unspecified sites 47 Cancer of the respiratory system	(a) Of the larynx	(b) Of the lung	(c) Of the mediastinum and other sites
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TABLE 19.-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1949-Continued

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CAUSES OF DEATH	CLASS III.—RHEUMATISM, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS, OTHER GENERAL AND VITAMIN DEFICIENCY DISEASES	58 Acute rheurnatic fever	conditions	her chronic diseases	60 Gout	61 Diabetes mellitus	62 Diseases of the pituitary gland	63 Diseases of the thyroid and parathyroid	(a) Simple goitre	(b) Exophthalmic goitre	CLASS IVDISEASES OF THE BLOOD AND BLOOD- FORMING ORGANS	 72 Haemorrhagic conditions (a) Primary purpura (b) Haemophilia (c) Others under this title
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TABLE 19-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1949-Continued

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	Ulcer of the stomach or duodenum	(a)	(q)	Other diseases of the stomach	Diar	10)	(4)	Diar		(a)	(q)	Annendicitis	Hernia, intestinal obstruction	(a)	(b) Intestinal obstruction	Other diseases of the intestines	Cirrhosis of the liver	(a) With mention of alcoholism	(b) Without mention of alcoholism
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TABLE 19.-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1949-Continued

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	CAUSES OF DEATH	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE Total 4		(a) Spontaneous, therapeutic or of unspecified origin with mention of pyelitis	(b) Spontaneous, therapeutic or of unspecified Female	-		141 Abortion without mention of infection Female	(a) Spontaneous, therapeutic or of unspecified origin with mention of haemrrhage, trauma or shock and toxaemia			(d) Spontaneous, therapeutic or of unspecified origin without mention of haemorrhage. Female	(e) Self-induced Female	(f) Induced by other person for non-therapeutic Female

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142 143 144 145 145	Ectopic gestation		Without mention of infection					Toxaemias of pregnancy, death prior to delivery		Albuminuria and nephritis of pregnancy	Acute yellow atrophy of liver					Haemorrhage of childbirth and the puerperium				Infection during childbirth and the puerperium				

TABLE 19.-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1949-Continued

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		Female	Female	Female	Female	Female .	Female	Female	Female .	Female	Female	Female	Female	Total Male Female	
	CAUSES OF DEATH	Puerperal toxaemias, following delivery	(a) Puerperal eclampsia			(d) Others under this title	Other accidents of childbirth		(b) Other conditions of childbirth	Other and unspecified conditions of childbirth Female and the puerperal state	(a) Infection of breast during lactation	(b) Psychosis of the puerperal state Female	(c) Others under this title Female	XII.—DISEASES OF THE SKIN AND CELLULAR Total TISSUE Male Female	Carbuncle and furuncle Maie Female Phlegmon and acute abscesses Male Female Other diseases of the skin and the cellular tissue Male Female
	CAUSES OF DEATH			Female	Acute yellow atrophy of liver			Female		Female				SEASES OF THE SKIN AND CELLULAR	

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M	Osteomyelitis and periostitis Other diseases of the bone cepted)		Ţ	Congenital malformations (a) Congenital hydrocephalus (b) Spina bifida and meningocele (c) Anencephalus (c) Anencephalus (c) Congenital malformations of the heart (d,f,g,h,m) Others under this title (d,f,g,h,m) Others PECULIAR TO THE FIRST	OF LIFE
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CLASS XIII.—DISEASES OF THE BONES AND ORGANS Total OF MOVEMENT Fema	154	001	CLASS XIVCONGENITAL MALFORMATIONS	157 Congenital malformations Male (a) Congenital hydrocephalus Male (b) Spina bifida and meningocele Perna (c) Anencephalus Male (c) Anencephalus Perna (c) Anencephalus Male (c) Anencephalus Perna (d.f.g.h.m) Others under this title Perna (d.f.g.h.m) Others under this title Perna CLASS XV.—DISEASES PECULIAR TO THE FIRST YEAR Total	158 159 160
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TABLE 19-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1949-Continued

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	60-64 years			
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	20-24 years			99
	12-19 Years			NN
	10-14 Years			
	2-9 Aests			44
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		Male Female Male Female Female Female Female Female	Total Male Female Female Male Female Female	Total Male Female Male Female Female Male
	CAUSES OF DEATH	 (c) Others under this title 161 Other diseases peculiar to the first year of life (a) Asphyxia (unspecified), atelectasis (b) Infection of the umbilicus, pemphigus and other infections (c) Other specified diseases peculiar to the first year of life 	CLASS XVL—SENILITY 162 Senility	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS 163, 164 Suicides 163 Suicide by poisoning (a,b,c,d) By corrosive substances, solid and liquid poisonings
			CLAY	CLASS 163, 164 163

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Female s	or strangulation Male 2	By drowning Male1	By firearms or explosives2	By cutting or piercing instruments [Female 2]	By jumping from high places 2	By crushing Male	Female Male	Female 4	Female 1	Female 1 Male 1	Male 2	Female 48	Male 4	Female 1 Male 1	Female	Collisions with street-cars	Automobile accidents (excluding trains or Male 17 street-cars)	Motorcycle accidents (excluding automobiles) Male	-	Street-car accidents (excluding trains and Male Male	Female	Female Maile
Suicida hy other means	(a) Sulcide by hanging or strangulation Male 2	By drowning Male1	firearms or explosives Male 2	Female 2 Male	Female 2	Female	The second secon	Homicides 4	Homicide by firearms1	Homicide by cutting or piercing instruments Male 1	Homicide by other or unspecified means	Accidental deaths	Railway accidents (excluding motor vehicles) Male 4	Motor vehicle accidents Male 1	le		accidents (excluding trains or Male 17	Female 3	Street-car and other road transport accidents	Female	is title Male	Water transport accidentsMale
Female s	(a) Sulcide by hanging or strangulation Male 2	By drowning Male1	By firearms or explosives2	By cutting or piercing instruments [Female 2]	By jumping from high places 2	By crushing Male	Female Male	Female 4	Female 1	Female 1 Male 1	Male 2	Female 48	Male 4	Female 1 Male 1	Female	Collisions with street-cars	Automobile accidents (excluding trains or Male 17 street-cars)	Motorcycle accidents (excluding automobiles) Male	-	Street-car accidents (excluding trains and Male Male	Female	Female Maile

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	CAUSES OF DEATH	Air transport accidentsMale	Accidents in mines and quarries Male	Agricultural and forestry accidents Male	(a) Accidents involving agricultural machinery and vehicles Male	(b) Injury by animals, in agriculture [Han]	(c) Other agricultural accidents Male	(d) Accidents involving forestry machinery and vehicles	(e) Other forestry accidents Male	Other accidents involving machinery Male	Food poisoning Male	Accidental absorption of poisonous gas Male	(a) Coal and illuminating gas Male	(b) Motor vehicle exhaust gas Male	(c) Other carbon-monoxide gas Male	(d) Other poisonous gases	Acute accidental poisoning by solids or liquids Male	Conflagration Male
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	CAUSES OF DEATH	CLASS XVIII.—ILL-DEFINED AND UNKNOWN CAUSES Tetal OF DEATH Male Female	199 Sudden death Male 200 Ill-defined and unknown causes Male 200 Ill-defined Male (a) Ill-defined Male (b) Found dead Female (c) Unknown or unspecified cause Male (c) Unknown or unspecified cause Female CLASSIFICATION OF ACCIDENTAL

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Accidental absorption of poisonous gas	Male	63							1		10.10	-		1				1			-	-			I
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Accidental burns *	_	4		-		1						-		1	1				1			-		-	
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	Female	1									1		-		-	1			-	-	-				
Accidental injury by cutting or piercing instruments	Male		A																	1	-	-		1	
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	Female	9			1								-		0	-	110	-	2.	-	-	-	-		
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	Female	3										-				the state		111	-			-	-		
Accidents due to electric currents	Male	-			-	-						-									-	-			
	Female						-			-		-	-									-			

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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	6 Cerebrospinal meningitis	7 Anthrax, malignant pustule	8 Scarlet fever	9 Whooping-cough	10 Diphtheria	11 Erysipelas					a with menuol of occupations in the
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		d Male Female Female Female Female Male Female Female Male Female
	CAUSES OF DEATH	(b) Without mention of occupational diseases of lungs Male (c) Unspecified site Male (c) Unspecified site Male (d) With mention of dementia praceox Male system Tuberculosis of the meninges and central nervous 30 Syphilis Total 31 Locomotor ataxia (tabes dorsalis) Total 32 Other syphilis of the central nervous system Fema 33 Other syphilis of the central nervous system Male 34 Other syphilis of the central nervous system Fema 35 Other diseases due to spirochaetes Male 36 Other syphilis of the central nervous system Fema 35 Other diseases due to spirochaetes Male 36 Other synthils of the central nervous system Fema 37 Muth respiratory complications Male 36 Acute poliomyelitis and polioencephalitis Fema 37 Acute infectious encephalitis Fema

TABLE 20.--CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1949-Continued

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Male Female Male Female Female Female Male Female Female	Total Male Female	Male Female Male Female Male	Female Male Female Male	Female Male Female Male	Female Male Male Male	Female Male Male Male Female	Male Female Male Female	Male Female Male Female Male Female	Female
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CAUSES OF DEATH		IstoT	Under 1 3	1 Year	5 Years	3 Years	2-9 AGULS	10-14 769	12-19 Yea	20-24 Yea	30-34 A69	32-33 A68	40-44 Aeu	42-49 A69	20-24 A63	22-23 A69	con 19-09	eor 69 29	65-69 yea	10-14 Xes 62-69 Xes	65-69 yea	22-69 yea 20-74 yea 65-69 yea
(b) Other and unspecified sites of the uterus	Female	00	1	-	-				1				1			-		1	1 1	1	-	1
Cancer of other female organs	Female	00	÷	i						-	-		-	-	1	01		1		61	61	2
Cancer of the breast	Male	1		;		-												-	-			
Cancer of the male genital organsN	Female	11		11	1.1	11	11			11		-		-	01	eo ==		- S	3 3	35	3 5	3 3
Cancer of the urinary organs	Male	9	1		-				-			-	. 1			-		-	-		0	2
(a) Kidney	Female Male	10.4	F	1 1		1			-	1	1	-	+	1	1			00	0			
(b) Bladder	Female	-0	1	-	1		-		-	11					1.1	4 .		1	1	1	1	1
(c) Other and unspecified sites	Female Male	4			111			1 1 1	1 1 1	11			11		: :	: :		64	0 0	_	11	11
Cancer of the skin	Female		1 1	11	11	1 1	-	1 1	11	1				1	1							
Cancer of the brain	Female	12	i	1	1 1										1	1 1		1 1				
Cancer of other and unspecified organs.	Female	6 1		11	-	1				1		1	11	1 :-	1 1	1 1		1.5	11			
Non-malignant tumours	Female Male	9		1					1	61			: :	•	-	-			-		•	•
(a) Of the ovary	Female	01-1	11												1	-						
(b) Of the uterus	Female			1				i	1													
(c) Other female genital organs F	Female	E	1.14						1	-	111		1	I								
(d) Of the brain and other parts of the central mervous system	Male	1	1	:														-				
(e) Other and unspecified organs	Female	-	11	11	-	11		11	11					11		-			111		111	
Trimouve of undetermined nature	Female	-						-	_	-		-			Inne	-			_		and and	and and and

TABLE 20.-CAUSES OF DEATH BY SEX AND AGE, IN CALGARY, BY PLACE OF RESIDENCE, 1949-Continu

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	F		entral nervous	OF NUTRITION ANDS, OTHER Total ENCY DISEASES Male Fema	reumatic diseases Male Fem Male Fem Male	Total		Fen Mai Fen Fen Fen Fen	<u>1919696</u>
	FO		entral nervous	EASES OF NUTRITION INE GLANDS, OTHER Total DEFICIENCY DISEASES Male Fema	other rheumatic diseases Male Fem Male gland Male	Total		Fon Mai Fen Fen Fen Fen	
	F		entral nervous	DISEASES OF NUTRITION OCRINE GLANDS, OTHER Total IIN DEFICIENCY DISEASES Male Fema	and other rheumatic diseases Male Fem Male fem fary gland	Total			
	F		entral nervous	M, DISEASES OF NUTRITION NDOCRINE GLANDS, OTHER Total TAMIN DEFICIENCY DISEASES Male Fema	sm and other rheumatic diseases Male Fem Male frem frem ituitary gland	Total			
	F		entral nervous	TISM, DISEASES OF NUTRITION ENDOCRINE GLANDS, OTHER Total VITAMIN DEFICIENCY DISEASES Male Fema	atism and other rheumatic diseases Male Fem tus Male Fem e pituitary gland Male	Total			
	and a second		entral nervous	MATISM, DISEASES OF NUTRITION HE ENDOCRINE GLANDS, OTHER Total ND VITAMIN DEFICIENCY DISEASES Male Fema	eumatism and other rheumatic diseases Male Fem Male Tem Tem the pituitary gland	Total			
rry	and a second		entral nervous	EUMATISM, DISEASES OF NUTRITION THE ENDOCRINE GLANDS, OTHER Total AND VITAMIN DEFICIENCY DISEASES Male Fema	s rheumatism and other rheumatic diseases Male Fem s mellitus Male Fem s of the pituitary gland	Total			
Ovary	Uterus	Other female genital organs Fem	Brain and other parts of the central nervous system Male Other and unspecified organs Femal	RHEUMATISM, DISEASES OF NUTRITION OF THE ENDOCRINE GLANDS, OTHER RAL AND VITAMIN DEFICIENCY DISEASES	onic rheumatism and other rheumatic diseases Fem betes mellitus Mal Mal ases of the pituitary gland Fem	Total			
(a) Ovary	Uterus	Other female genital organs	Brain and other parts of the central nervous system Other and unspecified organs	RHEUMATISM, DISEASES OF NUTRITION OF THE ENDOCRINE GLANDS, OTHER RAL AND VITAMIN DEFICIENCY DISEASES	Chronic rheumatism and other rheumatic diseases Male Fem Diabetes mellitus Male Diseases of the pituitary gland Male	f the thyroid and parathyroid Total goitre thalmic goitre			
(a) Ovary	and a second		entral nervous	RHEUMATISM, DISEASES OF NUTRITION OF THE ENDOCRINE GLANDS, OTHER RAL AND VITAMIN DEFICIENCY DISEASES	Chronic rheumatism and other rheumatic diseases Diabetes mellitus Diseases of the pituitary gland	Diseases of the thyroid and parathyroid glands Total (a) Simple goitre (b) Exophthalmic goitre	Diseases of the adrenal glands (Addison's disease IV.—DISEASES OF THE BLOOD AND BLOOD- FORMING ORGANS	Haemorrhagic conditions Anaemias (a) Pernicious anaemia	 (b) Others under this title Leukaemias and aleukaemias (a) Leukaemias
	Uterus	Other female genital organs	Brain and other parts of the central nervous system Other and unspecified organs	CLASS III.—RHEUMATISM, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS, OTHER Total GENERAL AND VITAMIN DEFICIENCY DISEASES Male Fema	 59 Chronic rheumatism and other rheumatic diseases Male 61 Diabetes mellitus 62 Diseases of the pituitary gland 	Total			

TABLE 20.-CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1949-Continued

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	80-84 Aests	1111	11	111	11	111	111	11	111			10000
	12-19 Aests	1111	11	111	11	19 6 13		11	: []		111	13 13
	70-74 years	1111	11	111	11	11 66	-		111		-	102
	65-69 years	1111	11			51- 9	111	11	111		111	1-0000
	60-64 years	1111	:=		11	900	1:	11	111	111	11	0100
	22-23 Aests		11	111		994	111	11	111			10 03 10 01
	20-24 Aests		11	111	11	9	111	11	111	111	111	
0	42-43 AG912		11	111	11	61 61	111	11	114	111	111	1 5
AGES	40-44 Aests	1111	11	111	11	111	111	11	111		111	1111
A	32-39 Aests	1111	11	111	II	111	111	11	111	111	111	1111
	30-34 Aests		11	111	11	111	111	11	111	111	111	1111
	52-59 Aests	1111	11	111	11		111	11	111	111	111	111
	S0-S4 Aesis	1111	::	111	11		111	11	111	111	1	1111
	12-19 Years	1111	11	111	11		111	11	111	111	111	1111
	10-14 Aests	1111	11	111	11	111	111	11	111	111	11	1111
	2-9 years	1111	11	111	11	111	111	11	111		111	111
	4 Years	1111	11	111	11	111	111	11	111	111	111	1111
	3 years	1111	11	111	11	111	111	11	111	111	111	1111
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	and over 100 years			

TABLE 20.--CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1949-Continued

114

 (a) Asphyxia (unspecified), atelectasis (b) Infection of the umbilicus, pemphigus and other infections (c) Other specified diseases peculiar to the first year of life 	CLASS XVI.—SENILITY 162 Senility	(a) With dementia(b) Without dementia	CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS	Suicides Suicide by poisoning (a) By corrosive substances solid and limita	(b) Suicide by poisonous gas Suicide by other means	a) By hanging or strangulationb) By drowning	(c) By firearms or explosives(d) By cutting or piercing instruments(e) By jumping from high places	(f) By crushing
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TABLE 20CAUSES OF DEATH BY SEX		CAUSES OF DEATH	(g) By other or unspecified means Homicides Homicide by firearms Homicide by cutting or piercing instruments Homicide by other or unspecified means Accidental deaths (a) Collisions with trains (b) Collisions with street-cars (c) Automobile accidents (excluding trains or street-cars) (d) Motorcycle accidents (excluding trains and motor vehicles) (d) Motorcycle accidents (excluding trains and motor vehicles) (b) Others under this title (b) Others under this title	1
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			dents in mines and quarries		icultural and forestry accidents	er accidents involving machinery		d poisoning	idental absorbtion of noisonous dis	dentel absorbriot of boronea gas were	Coal and illuminating gas				Other molecures stream	Outri poteotiona Breace	the accidental poisoning by solids or liquids.	flagration		idental burns (conflagration excepted)	idental mechanical suffocation		idental drowning	and a further for filmeness	idental injury by incarms	idental injury by cutting or plercing instru-	CALCULATION OF A DESCRIPTION OF A DESCRI	idental injury by fall or crushing	Accidental injury by fall		Accidental injury by crushing	er accidents			lation or vaccination		intervention

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	Not stated		
	and over 100 years		
	95-99 years		
	90-94 years		
	85-89 years		
	80-84 years		
	75-79 years		
	70-74 years		
	65-69 years	······································	
	60-64 years		
	22-23 Years	1 1 1 1 1 1 1 1 1 1 1 1 1 NN 1 X 1 NN 1 X 1 1 N 1	
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ES	42-49 Years	· · · · · · · · · · · · · · · · · · ·	
AGES	40-44 years		
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	30-54 years		
	52-59 Years		
	20-24 years		
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		Male Female Male Female Male Female Male Female Male Female Male Female Male Female Female Female Male Female Female Female Female	
	CAUSES OF DEATH	(c) Lack of care of the new-born Male (d) Obstruction, suffocation or puncture by ingested objects Perman (e) Other and unspecified objects Perman (e) Other and unspecified objects Perman (e) Other and unspecified objects Perman (f) Deaths of war and legal executions Perman 196 Deaths of var Perman 197 Deaths of operations of war Perman 198 Legal executions Perman 199 Legal executions Perman 198 Legal executions Perman 199 Legal executions Perman 199 Legal executions Perman 199 Legal executions Perman 199 Sudden death Perman 100 Found dead Pound dead Perman	

TABLE 20--CAUSES OF DEATH BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1949-Continued

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VITAL STATISTICS BRANCH

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

nt. Ist CAUSES OF DEATH	Male	Female
Accidental absorption of poisonous gas	16	5
174 Accidents in mines and guarries	1	
178 Accidental absorption of poisonous gas	12 3	32
180 Conflagration	0	-
Accidental burns	21	13
169 Railway accident (excluding motor vehicles)	2	1
170(c) Automobile accidents (excluding trains or street-		
cars) 180 Conflagration	4 9	5
180 Conflagration 181 Accidental burns (conflagration excepted)	6	8
Ist Accidental burns (contragration encepted)	-	
Accidental Mechanical suffocation	16	3
170c Automobile accidents (excluding trains or street-	3	
cars) 175c Other agricultural accidents	2	
175c Other agricultural accidents 182 Accidental mechanical suffocation	11	3
	100	
Accidental drowning	45	. 17
170(c) Automobile accidents (excluding trains or street-	7	1
cars) 171(b) Other road transport accidents (excluding street-		
171(b) Other road transport accidents (excluding street- cars, trains and motor vehicles)		1
172 Water transport accidents	6	3
173 Air transport accidents	1	10
183 Accidental drowning	- 31	13
Accidental injury by cutting or plercing instruments	2	
175(a) Accidents involving agricultural machinery and		
vehicles 185 Accidental injury by cutting or piercing instruments	1	
185 Accidental injury by cutting or piercing instruments	1	
Accidental injury by fall	66	54
169 Poilway accidents (excluding motor vehicles)	1	
171(b) Other road transport accidents (excluding street-)	1	1 1 1 1 2
trains and motor vehicles)	1	
174 Accidents in mines and quarries	3	
175(b) Injury by animals, in agriculture 175(c) Other agricultural accidents	i	
175(c) Other agricultural accidents 186(a) Accidental injury by fall	59	54
	000	1.1
Accidental injury by crushing	209	44
169 Railway accidents (excluding motor vehicles) 170(a) Motor vehicle accidents—collisions with trains	13	3
170(c) Automobile accidents (excluding trains or street-		
(ars)	104	29
170(d) Motorcycle accidents (excluding automobiles)	1	
171(a) Street-car accidents (excluding trains and motor	1	1
vehicles 171(b) Other road transport accidents (excluding street-	*	
cars trains and motor vehicles)	1	1
174 Accidents in mines and quarries	11	
175(a) Accidents involving agricultural machinery and		1
vehicles	22 9	1
175(b) Injury by animals, in agriculture 175(c) Other agricultural accidents	6	
175(e) Other forestry accidents	3	1
176 Other accidents involving machinery	14	
186(b) Accidental injury by crushing	8	2
	3	-
193 Accidents due to electric currents		1

TABLE 22.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS IN CITIES OF 5,000 POPULATION AND OVER, BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE IN ALBERTA, 1949

			All D	Deaths					Deaths in	Deaths in Institutions		
Cities	Place of occur-	Resid	Residence elsewhere	Deaths of residents occurring elsewhere	residents elsewhere	Place of	Place of	Residence elsewhere	ence	Deaths of occurring	Deaths of residents occurring elsewhere	Place of
	rence	In Canada	In United States	Lanada	In United States	residence	rence	In Canada	In United States	In Canada	In United States	residence
Citties: Calgary Edmonton Lethbridge Mediche Hat	1340 1500 235 185	287 591 93 40	1-01-101	87 79 31 15	∞ 4• m	1141 990 175 158	908 1210 183 136	257 562 38 38	10 00 11	54 43 10	P 1 1	707 690 121 107
COMPANY AND												

			All Death	eaths	19				Deaths in	Deaths in Institutions		
rovince	Place of occur-	Resid	Residence	Deaths of resident occurring elsewher	residents elsewhere	Place of	Place of occur-	Residence elsewhere	ence here	Deaths of occurring	Deaths of residents ccurring elsewhere	Place of
	rence	In Canada	In United States	In Canada	In United States	residence	rence	In Canada	In United States	In Canada	In United States	residence

TABLE 23.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE IN ALBERTA 1949

Total for the Province

	Canada	.pund.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.
Typhoid fever† Cerebrosonal meningits	47 38	1	1	eo :	03 04	81	12 13	CJ 4	6110	1	
Scarlet fever Whooping-cough	213 213 84	1- 10	10	- 00	- 6 -	144 144	6130	94	90	12	
Diphtheria Erysipelas Tubucculosis of the reseitedory system	3.588	222	20	149	163	1,565	616	182	154	156	
Tuberculosis of the respiratory system	707	63	61	35	32	333	70	42	31	22	
	527	g or d		36	24	157 458	141 244	28	83	36 41	
Smallpox	ANTIT I		1	1		1	10		6.6	10	
	176			22	21-	44	88		3-1	6	
Cancer and other malignant tumours	16.731	292	111	864	572	4.447	6.002	944	905 32	33	-
Tumours, non-mangnant and not specified	2.748		16	113	92	712	1.155		149	156	
Diseases of the thyroid and parathyroid glands	266		0	19	14	15	137		15	16	
Anaemias Leukaemias and aleukaemias	610	14	0.01	28	14	115	243		43	44	
Alcoholism	74			. et	14	157	47		9	16	
	10,590	215	92	622	392	1,833	4,647	637	574	666	
Mental disorders and deficiency (general paralysis of the incare excented)	143	6	1	24	1	33	40	1	4	6	
Epilepsy	248	1-0	5	19	12	177	76	00 4	16	12	
Diseases of the ear and of the mastoid process Diseases of the heart	35,537	361	249	1.550	1,197	7.742	14.788	2.022	1,840	2,033	3,755
Diseases of the artarias	2.458	41		151	81	578	935	214	129	128	
Bronchitis	398	151	1.52	32	315	1 751	1.884	312	399	376	
Pleurisv	119	I		000	210	44	34	00	9	10	
hagic infarcti	410	6	6.0	25	11	151	86	30	24	32	
Asthma	289	10	10	11	6	30	93	20	13	16	
10	156	4		10	5	48	58	C1 1	11	00 2	
Diseases of the stomach	1,083	18	-	35	193	322	351	130	986	63	
Diarrhoea and enteritts	411			11	19	160	107	19	32	8	
Jernia, intestinal obstruction	661			32	26	207	272	52	19	43	
Cirrhosis of the liver	. 680		001	19	13	215	224	37	25	49	
Nephritis	6.812			353	220	3,368	1.684	223	235	217	
of the prostate	533	11	10	88	16	233	134	25	27	583	
Congenital maiformations	2,374			114	95	717	833	129	147	132	

TABLE 24.-DEATHS FROM CERTAIN SPECIFIED CAUSES BY PROVINCE OF RESIDENCE, 1949

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555 528 528 528 528 528 528 528 528 528	6,578 18 6,596	Sas	0.2 0.6 0.7 0.7 0.2 0.2 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9
242 542 542 542 155 15 15 15 15 15 15 15 15 15 23 8 23 8 23 8 23 8 23 8 23 8 23 8 23	6,865 54 6.919	an. 1	$\begin{smallmatrix} 0.3 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.1 \\ 0.5 \\ 0.4 \\ 0.1 \\ 0.1 \\ 0.5 \\ 0.3 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.0 \\ 0.$
244 3,244 413 413 62 71 88 88 33 33 33 88 33 88 33 1,673 1,673	43,239 132 43,371	PROVINCES	$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$
2,145 1150 150 23 23 23 46 41 23 23 23 23 23 23 23 23 23 23 23 23 23	33.962 152 34.114	BY Que.	$\begin{smallmatrix} & 0 \\ & $
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118 438 438 438 438 102 102 102 102 102 102 102 102 102 102	5.929 51 5.980	SPECIFIED	$\begin{array}{c} 0.5 \\ 0.2 \\$
622 623 1 1 4 1 1 235 1 1 24 25	914 10 924		111 10.6 11.1 11.7 21.3 22.1 3.2 11.7 9.6 2.1 2.1 9.6 2.1 17.0 11.0 11.0
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1,496 9,385 1,026 171 171 171 2,350 2,377 110 110 237 234 234 234 3,835 3,835	123.023 1.021 124.044	on FROM CE Canada Nfld.	$\begin{array}{c} 0.3\\ 0.3\\ 0.1\\ 0.6\\ 0.5\\ 0.2\\ 0.2\\ 0.3\\ 0.2\\ 0.2\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5$
162 Senility 198 Violent deaths 198 Suicides 164 Suicides 168 Homicides 168 Homicides 169 Motor vehicle accidents (excluding motor vehicles) 170 Motor vehicle accidents 171 Street-car and other road transport accidents 172 Water transport accidents 173 Arctidents in mines and quarries 175 Other accidents involving machinery 176 Other accidents involving machinery 177 Other specified causes	Total specified causes 199, 200—III-defined and unknown causes All causes	 Kon and Northwest Territories are not included. includin TABLE 25.—DEATH RATES PER 100,000 POPULATI Causes of Death 	1-2 Typhoid fever 8 Scarebrospinal meningitis 8 Scarebrospinal meningitis 9 Whooping cough 10 Diphtheria 11 Erysipelas 12 Tuberculosis of the respiratory system 13 Furberculosis, of the respiratory system 14-22 Purulent infection and septicaemia 23 Syphilis 24-22 Purulent infection and septicaemia 23 Syphilis 24 Fundenza 25 Furneut infection and septicaemia 26 Furneurs 27 Measles 28 Measles 29 Suphilis 20 Suphilis 21 Tuberculosis, of the thyroid and parathyroid glands 25 Diabetes mellitus 26 Diabetes mellitus 27 Leukaemias 28 Measles 29 Anter discuerced) 217 Leukaemias 228 Diabetes mellitus 239 Suboolism 24 Leukaemias
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S Enterport 11.8 0.0 5.3 0.0 1.0 0.1 0.	Int. list No.	Causes of Death	Canada *	.pun	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	85 90-95	Epilepsy Diseases of the ear and of the mastoid process Diseases of the heart	1.8 1.8 262.8	2.0 0.6 103.7	5.3 264.9	240.3 240.3	2.3 1.7 232.0	2.0 4.8 199.2	1.7 0.8 335.3	$ \begin{array}{c} 1.0 \\ 0.8 \\ 259.9 \end{array} $	100	$ \begin{array}{c} 1.4 \\ 0.1 \\ 233.4 \end{array} $	1.4 0.3 337.1		
	99, 102 106 107-109 111	Pue	18.2 2.9 44.5 0.9	11.8 43.4 0.3 0.3	21.3 1.1 56.4	23.4 5.0 1.2 1.2	15.7 15.7 61.0 1.0	14.9 2.8 45.0 1.1	21.2 2.9 2.9 0.8	27.5 3.3 40.1 1.0			16.2 2.2 44.2 0.7		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	112						$2.1 \\ 1.7$						3.5		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	16-118	cavity and annexa, and of	1.2 8.0 16.5	5.2	1.1	1.6	5.2	833	8.0	6.8	1.3	6.0	0.8		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	121	Appendicitis Herria, intestinal obstruction	0.00	1.7	500	1.7	0.0	4.1	24	2.4	3.7	299 799 799 799 799	00 03		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Outrnosis of the liver Other diseases of the liver	20.0	1.1	2.1	2.9	400	0 12 C	5.9	4.0	63	5.6	00 10 1		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Puerpering Puerperail cause	6.6	4 61 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	9.01	1997 1997	42.6	86.6 4.6	200	1.00	655 812 812 812 812 812 812 812 812 812 812	24.4	11.0		
Semitive Violation Semitive Violation <th colspa="</td"><td>158-161</td><td>Congenital maiformations Diseases peculiar to the first year of life</td><td>17.6</td><td>10.1</td><td>22.3 48.9</td><td>45.9</td><td>18.4</td><td>18.4</td><td>18.9</td><td>16.6</td><td>17.1 42.0</td><td>15.2</td><td>13.6</td><td></td></th>	<td>158-161</td> <td>Congenital maiformations Diseases peculiar to the first year of life</td> <td>17.6</td> <td>10.1</td> <td>22.3 48.9</td> <td>45.9</td> <td>18.4</td> <td>18.4</td> <td>18.9</td> <td>16.6</td> <td>17.1 42.0</td> <td>15.2</td> <td>13.6</td> <td></td>	158-161	Congenital maiformations Diseases peculiar to the first year of life	17.6	10.1	22.3 48.9	45.9	18.4	18.4	18.9	16.6	17.1 42.0	15.2	13.6	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	63-198	Sentify Violent deaths	11.1 69.4	69.0	111.7	18.3 67.9	30.6	8.4 55.2	5.5	14.7 69.7	1.5 61.3	8.6	12.8		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	66-168	Sulcides Homicides	1.3	0.3	3.2	6.5	4.7	3.9	9.4	10.5	8.1 1.6	9.2	14.5		
Street-car and other road transport accidents 0.5 0.9 1.1 0.3 0.2 0.6 0.3 1.0 0.2 0.6 0.1	170	Railway accidents (excluding motor vehicles) Motor vehicle accidents	1.5	5.7		15.8	17.4	16.7	1.61	13.6	2.3	2.6	15.4		
Air transport accidents 0.8 1.4 0.9 0.2 1.1 0.9 1.9 0.1 0.1 Accidents in mines and quartes 0.8 1.4 0.3 1.1 0.9 1.9 0.1 0.1 1.7 Accidents in mines and quartes 1.0 0.3 1.1 0.3 1.0 1.3 1.8 2.7 0.4 1.6 Accidents in volving machinery 2.2 0.6 1.1 4.0 2.5 2.2 1.9 2.4 1.6 Conflagration 2.2 0.6 1.1 4.0 2.5 2.2 1.9 2.4 1.6 2.2 Conflagration 2.5 3.6 3.7 $3.0.1$ 30.0 2.5 3.7 2.9 2.6 31.2 Conflagration 0.6 1.1 4.0 2.5 2.2 1.9 2.6 31.2 Conflagration 2.6 3.7 3.6 3.7 2.9 2.9 2.6 31.2 Other specified causes 2.6 3.7 2.6 3.7 2.6 3.2 2.9 Total specified causes 7.7 9.91 2.91 2.91 2.91 2.91 2.9 2.6 3.2 All causes 7.6 3.7 9.7 9.7 9.7 9.7 9.7 9.7 9.2 1.0 Anot causes 7.7 9.11 8.21 $9.82.4$ $7.64.0$ $8.92.3$ $7.66.1$ 81.2 1.0 All causes 1.0 1.0 <t< td=""><td>171</td><td>Street-car and other road transport accidents Water transport accidents</td><td>0.5</td><td>6.0</td><td>1.1</td><td>90 90 90</td><td>0.2</td><td>0.6</td><td>2.03</td><td>1.0</td><td>150</td><td>0.6</td><td>212</td><td></td></t<>	171	Street-car and other road transport accidents Water transport accidents	0.5	6.0	1.1	90 90 90	0.2	0.6	2.03	1.0	150	0.6	212		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	173	Air transport accidents Accidents in mines and marries	0.8	1.4		6.0	0.2	1.1	6.0	1.9	0.1	0.1	0.5		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	176	Agricultural and forestry accidents	2.4	000	4 ·	60	1.0	200	810	E ci	4.4	100	1000		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	180	Conflagration	5.5	0.6	11	4.0	12	100	1.9	2.4	1.6	5 6	5 60		
Total specified causes 909.6 727.6 919.2 914.9 873.7 980.3 882.4 764.0 809.0 1008 Ill-defined and unknown causes 7.5 96.6 10.6 7.9 29.7 3.9 873.7 980.3 882.4 764.0 809.0 1008 All causes 917.1 824.1 983.0 927.1 944.6 877.6 983.3 766.1 813.2 1015	101	Other specified causes	33.0 28.4	30.5 48.6		30.1	30.0	25.4 27.6	37.9 24.5	32.1	29.7	32.3	48.9		
917.1 824.1 983.0 927.1 944.6 877.6 983.2 889.3 766.1 813.2	99, 200	Total specified causes Ill-defined and unknown causes	909.6	727.6 96.6		19.				882.4 6.9	764.0		1008.7		
			917.1	824.1	983.0	927.1	944.6	877.6	983.2	889.3	766.1		1015.7		

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	10	Rate per 100.000 population	1288428842884288428842884288428842884288
	1940	Number of Desths	1086 759 517 517 517 517 517 2332 2355 2355 2355 236 96 92 96 92 96 92 96 92 92 96 92 96 92 96 92 96 92 96 92 96 92 96 96 96 96 96 96 96 96 96 96 96 96 96
DD	1	Rate per 100.000 population	117 190 111 132 132 133 133 133 133 133 133 133
PERIC	1941	Number of Deaths	1394 712 86 574 573 576 575 576 576 576 576 576 576 576 576
INIAL	53	Rate per 100,000 population	188 97 98 98 98 98 10 88 13 13 13 13 13 13 13 13 13 13 13 13 13
DECENNIAL PERIOD	1942	Number of Deaths	1483 784 97 97 97 97 83 83 869 869 869 869 869 869 869 106 1106 111 122 122 112 111 112 112 112 112 11
THE LAST	2	Rate per 100,000	194 944 944 144 145 139 369 369 369 109 114 114 114 114 114 114 114 114 114 11
THE	1943	Number of Deaths	1550 748 116 588 497 234 472 116 116 116 116 116 116 116 116 1117 1116 1101100000000
EACH YEAR OF	14	Rate per 100.000 population	188 846 599 590 531 144 144 144 114 114 114 114 114 114 1
CH YE	1944	Number of Deaths	1534 7534 7534 753 753 753 753 753 753 755 753 753 753
	10	Rate per 100,000	1000 1100 110 110 110 110 110 110 110 1
ES FO	1945	Number of Desths	1663 1388 1388 1388 1388 1388 2555 2369 2369 2369 2369 2369 2369 2369 2369
NUMBERS AND RATES FOR	9	Rate per 100,000 population	214 107 127 129 266 29 114 112 128 129 128 129 128 129 129 129 129 129 129 129 129 129 129
AN SS	1946	Number of Desths	1721 1721 102 102 102 102 102 102 113 113 113 113 113 113 113 113 113 11
UMBEI	7947	Rate per 100,000 population	213 107 107 107 107 107 107 107 107 107 107
BY NI	19	Number of Deaths	1756 8774 8878 8774 775 775 775 775 775 77 77 777 777 77
EATH	00	Rate per 100.000	224 115 115 115 115 115 115 115 115 115 11
OF D	1948	Number of Deaths	1896 975 975 975 975 975 936 293 588 888 5884 1348 1348 1348 1348 1348 1348 1348 1
AUSES	6	Rate per 100,000 notheluqu	2333 1099 688 688 688 688 688 688 688 688 688 6
AL CI	1949	Number of Deaths	2033 257 128 5596 5596 155 155 156 156 156 156 123 23 23 23 23 25 5 5 12 12 12 12 12 12 12 12 12 12 12 12 12
TABLE 26.—PRINCIPAL CAUSES OF DEATH		CAUSE OF DEATH	Diseases of the Heart Cancer Diseases of the Arterles Diseases of the Arterles Violent Deaths (Suicides excepted) Pheumonia (all forms) Pulmonary tuberculosis Influenza Nephritis Appendicitis Suicides Cerebral Haemorrhage Diarrhoea and Enteritis Diarrhoea and Enteritis Puerperal Causes Whooping Cough Scarlet Fever Diphtheria Typhoid and Parathyphoid

VITAL STATISTICS BRANCH

		-					MON	MONTHS					
	Total	January	February	March	lingA	May	əunr	July	tsuguA	September	October	November	Decemper
Edmonton Calgary Lethbridge Medibre Hat Red Deer Drumheller Wetaskiwin Rural Districts	2503 1826 392 317 152 79 66 3702	113 84 84 84 6 6 6 13 6 163	123 101 14 20 4 4 1 167	130 23 27 11 4 4 129	197 143 27 263 263 263	203 142 32 20 32 20 20 20 20 20 20 20 20 20 20 20 20 20	312 231 231 231 49 338 338 314 514	243 243 201 229 21 23 23 243 243 243 243 243 243 243 243 2	273 185 185 185 185 185 16 6 7 341 341	252 177 51 43 10 10 270 270	242 159 41 30 23 8 8 8 8 8 477	223 31 31 5 5 23 23 23 23 23 23 23 23 23 24 60 8 8 60 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	192 157 33 33 33 28 10 10 280 280
Total for the Province	9037	405	434	428	691	629	1173	960	869	822	988	924	714

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Br	Spinsters	89.1
re	Divorced	5.4
legroon to were	Widowers	5.2
Brid	Bachelors	89.5
gg	Women	93
Divorced men and	swobiW	57
BA	sreters	336
and	Divorced Women	62
Vidowers	swobiW	241
Wid	Spinsters	163
and	Divorced	315
chelors	swobiW	220
Bach	Spinsters	7550
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		Total for the Province

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Ages of Brides 30 31 31 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 5		····································	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	11 0 0 0 0 0				9 3 7 5 1 6 3 3 17 1 2 3 2 2 2 3 5 22 1 3 2 1 1 2 2 2 2 3 2 2 2 3 17 1 3 2 1 1 1 2 12 1 3 1 1 1 1 2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• 1 1	29 29 26 28 29 27
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Ages of Brides 30 31 31 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	11 0 0 0 0 0	1010	10001				29 29 26 28 29
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Ages of Brides 30 31 31 33 34 35 36 37 38 39			111	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		-0100-0100		-00	111	47
Ages of Brides Ages 31 31 33 34 35 36 37 38			1 1 1 1	and and the party of the party	-010100-0	200	0000-0	-00-01	1 1 1	
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Ages of Bridegrooms									75-79 80 and over Not Stated	t Stated

1 VETABLE 29-MARRIAGES-AGES OF BRIDEGROOMS AND BRIDES, ALBERTA, 1949

ANNUAL REPORT, 1949

VITAL STATISTICS BRANCH

1		Unspecified	01 01
		Other American Countries	
		United States	141 141 14 14 14 14 14 14 14 14 14 14 14
		Office	
	Asia	ueder	
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		Other	6
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	-	Roumania	¹
		Poland	13 33 53 53 53 53 53 53 53 53 53 53 53 53
		Notwey	N 000 H 0
		Netherlands	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	British Posses-	bnslbnuolw9N	2
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	British Isles	Wales	
	4g	Scotland	49 66 66 67 77 11 12 122 123 116 116 116
	riti	Ireland	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	m	England	116 115 66 66 66 66 66 66 66 66 66 66 66 66 66
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1		British Columbia	41 84
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	ida	Saskatchewan	924 924 3321 30 86 87 87 87 86 86 86 86 86 86 86 86 86 86 86 86 86
	Canada	Manitoba	174 174 117 117 117 117 117 117 117
		Ontario	128 174 174 4 25 25 25 25 25 25 25 25 26 15 27 16 28 11 29 15 21 26 23 26 24 11 25 12 26 11 27 28 28 11 29 26 20 26 21 27 28 11 29 26 20 26 21 28 23 28 29 28 20 28 21 28 21 28 28 15 29 28 20 28 21 28 28 15 29
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		Nova Scotia	2 10 H 0 H 4 H H H H H H H
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		Bridegrooms	CANADA Prince Edward 7 Prince Edward Island 1 Island Nova Scotia 1 New Brunswick Outber 1 New Brunswick Outber 1 Ontario Manitoba 1 Alberta Columbia 1 British Isles England 1 England Scotland 1 Newfoundiand Vales 1 Other Other 1 Newfoundiand Other 1 British Possessions 1 1 Newfoundiand Other 1

TABLE 30.-MARRIAGES-BIRTHPLACE OF BRIDEGROOMS AND BRIDES, IN ALBERTA, 1949

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

	Unspecified of unknown	
	Non-religious denominations	
	Other religions	I
	United Church of Canada	277 277 90 33 33 35 55 11 11 11 12 12 12 12 12 12 12 12 12 12
	Unitarians	
	Swedenborgians	
	Spiritualists	
	Society of Friends	
	Salvation Army	
	Roman Catholics	24 24 38 38 38 38 38 38 38 38 38 38 38 38 38
	Reformed Churches (Christian)	
	Presbyterians	1 1 2 20 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Plymouth Brethren	
	Pentecostal Assemblies	44
	Oriental religions	N
	Isnoitsnimonsb-noN	11 1 2 1 1 2 2 1 1 2 2 1 1 1 1 1 1 1 1
bride	Mormons	
of	Moravian Church	m m m m m m m m
denomination	Methodists	····
min	Mennonites	
	Lutherans	361 361 361 361 361
sno	Jewish	33
Religious	International Bible Students	1 1 1
Re	Holiness Movement	4
	Greek Catholic Churches	2 2 2 2 2 8 2 2 8 2 2 8 2 2 8 7 7
	Gospel bodies	
	Evangelicals	1010 III III III 14 III 4 III
	Eastern Orthodox Churches	200 20 20 20 20 20 20 20 20 20 20 20 20
	Doukhobors	
	Church of God	112
	Churches of Christ (Disciples)	n n
	Christian Scientists	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
-	Christians Christian Missionary Alliance	35 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-	Christadelphians	
	Brethren including United	
	Baptists	22 23 33 31 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-	Apostolic bodies	
	Anglicans	447 31 33 13 13 13 13 13 13 13 13 13 13 13
	Adventists	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Total Grooms	1091 8 352 352 12 12 11 12 12 12 12 12 12 12 12 12 12
	Religious Denomina- tion of bridegroom	Adventists Anglicans Apostolic bodies Baptists Bethree including United Christadelphians Christians Christians Christian Missonary Alliance Churches of Christ Churches of Christ Churches of Christ Churches Eastern Orthodox Churches Evangelicals Evangelicals Gospel bodies Greek Catholic Churches Bevagelicals Greek Catholic Churches Bevagelicals Bevagelicals Greek Catholic Churches Bevagelicals Bevagelicals Greek Catholic Churches Movement International Bible Students Morenonites Morenonites Morenonites

TABLE 31.-MARRIAGES-RELIGIOUS DENOMINATIONS OF BRIDEGROOMS AND BRIDES, OF ALBERTA, 1949

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Mormons Non-denominational Oriental religions Pentecostal Assemblies Plymouth Brethren Presbyterians	Reformed Churches (Christian) Roman Catholics Salvation Army	Society of Friends	Swedenborgians Unitarians	United Church of Canada Other religions		Unspecified or unknown	Total brides

VITAL STATISTICS BRANCH

		Divorc	es	1	Nullities	
Judicial Districts	Number of Divorces	Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife
Edmonton Calgary Lethbridge Medicine Hat Peace River Grande Prairie Hanna Red Deer Drumheller Macleod Wetaskiwin	266 241 34 21 7 5 2 9 3 2 4	$ \begin{array}{r} 113 \\ 98 \\ 23 \\ 10 \\ 4 \\ 3 \\ $	153 143 11 11 3 2 1 3 1 3 1 3	2		2
Total	594	262	332	2		2

TABLE 32.—DIVORCES AND NULLITIES BY JUDICIAL DISTRICTS FOR THE YEAR 1949 IN ALBERTA

Year	Granted to Husband	Granted to Wife	Total
)19	3	3	6
00	74	26	100
101	50	37	90
100	00	49	129
100	E77	32	89
	CC	53	119
)24)25	50	42	101
925	70	75	154
026	83		149
927	91	66	
928		84	175
	77	71	148
330		87	151
931		87	156
)32		81	149
033		79	135
34		106	168
335		135	209
936		135	209
937	109	139	241
338	105	162	267
339	104	163	267
940	110	154	273
041	195	176	311
140	170	201	380
	100	223	413
	0.45	243	488
	202	273	575
945	404	480	974
		478	882
947			659
948		357	
049		332	594

DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

TABLE 33.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS AND BY PLACE OF RESIDENCE OF MOTHERS, ALBERTA, 1949

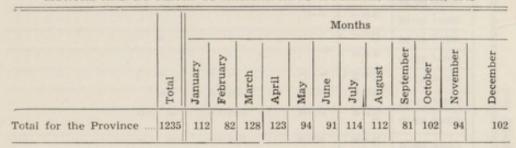


TABLE 34.—LEGITIMATE AND ILLEGITIMATE BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHERS, 1949

	Total Births			Legitimate			Illegitimate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Fotal for the Province	1235	621	614	932	469	463	303	152	1

TABLE 35.—DEATHS OF INDIAN CHILDREN UNDER ONE YEAR (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES BY SEX IN ALBERTA. BY PLACE OF RESIDENCE, 1949

Int. list No.	Causes of Death	Total	Male	Female
	ALL CAUSES	146	87	59
6	Cerebrospinal meningitis			
8	Scarlet fever			
9	Whooping-cough	2	1	1
10	Diphtheria			
11	Erysipelas			
13	Tuberculosis of the respiratory system	2	1	1
14-22	Tuberculosis, other organs	3	1	2
27	Dysentery	1	1	in the second
30	Syphilis	1		1
33	Influenza	9	7	2
35	Measles	4	2	2
36	Acute poliomyelitis and polioencephalitis			
64	Diseases of the thymus gland			
81	Meningitis (non-meningococcal)	3	3	
86	Convulsions	3	1	2
	Diseases of the ear and of the mastoid process			
89		1		1
105	Diseases of the larynx	1		1
106	Bronchitis	10	15	
107	Bronchopneumonia	19	15	4
08, 109	Pneumonia	35	19	16
115	Diseases of the buccal cavity and annexa, and of		1	
	the pharynx and tonsils	1	1	
16-118	Diseases of the stomach		10	
119	Diarrhoea and enteritis	16	13	3
130	Acute nephritis		1944	
157	Congenital malformations	5	4	1
	(a) Congenital hydrocephalus			
	(d) Congenital malformations of the heart	4	3	1
	(b, c, e) Others under this title	1	1	
158	Congenital debility	5	2	3
159	Premature birth	15	6	9
160	Injury at birth	3	3	
161	Other diseases peculiar to the first year of life	8	2	6
66-168	Homicides	100		
69-195.				1
197	Other violent deaths	3	2	1
191		4	1	3
00.000	Other specified causes Ill-defined and unknown causes of death	3	2	Ĩ
99, 200	In-defined and unknown causes of death	0	-	-

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EX AND AGE IN ALBERTA BY PLACE OF RESIDENCE. 1
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	92-99 Years		111	1 1	111	11	11	1	11	11	1	11	11	11	111	
	60-64 Years	- 100		11	111	11	11	1	11	11	1	11	11	11	111	
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	12-13 AGBLS	11		11	111	-	-	1	-	11	1		11	11	111	
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		IV-	NI	Whooping cough	Tuberculosis	Tuberculosis of the respiratory system	(a) V	(q)	(c) Unspecified site	(p)	Tuberculosis of the meninges and central nervous system	Tuberculosis of the intestines and peritoneum	Tuberculosis of the vertebral column	Tuberculosis of other bones and joints	(a) Bones	
		DEATHS-ALL CAUSES	CLASS L-INFECTIOUS AND PARASITIC DISEASES	0 0			0	-)	-						
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CAUSES OF DEATH	(d) Motorcycle accidents (excluding automobiles) Male Female	171 Street-car and other road transport accidents (a) Street-car accidents (excluding trains and	motor-vehicles)Others under this title	172 Water transport accidents	180 Conflagration	181 Accidental burns (conflagration excepted)	182 Accidental mechanical suffocation	183 Accidental drowning	184 Accidental injury by firarms	185 Accidental injury by cutting or piercing instru- ments	186 Accidental injury by fall or crushing	(a) Accidental injury by fall	(b) Accidental injury by crushing	195 Other accidents	(a) Sequelae of preventive immunization. inocu- lation or vaccination	(b) Other accidents due to medical or surgical	THEFT AND THE ADDRESS OF ADDRESS
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(c) Lack of care of the new-born [Male (d) Obstruction, suffocation or puncture by in- male	l objects gal executions	CLASS XVIIIII.L.DEFINED AND UNKNOWN CAUSES Total OF DEATH Male Female	199     Sudden death     Mal       200     Ill-defined and unknown causes     Mal       7em     Mal       7em     Mal       7em     Mal       7em     Fem       7em     Fem       7em     Mal	(c) Unknown or unspecified cause Mail

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Accidental injury by Iall	Male	-			-	artes artes		- 10-		-	-	-			-	-			-	-					
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Accidental injury by crushing	Male	0			-			N	1	-		-			-	11.14			-						
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TABLE 37.-DEATHS OF HALF-BREEDS IN ALBERTA FROM CERTAIN CAUSES OF DEATH. BY PLACE OF RESIDENCE, 1949

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84	Other violent or accidental deaths (automobile		-	-	-		-			-		*				-		ter in	-	-	-		-	*		
	accidents excepted) Male	Male	101	1		-		t			-	1					-			1111	-	-	-	-		
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		Female	17	21		-		1	1		1		-	1	-	21		-	-	50		-	-			
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Rate of Natural Increase	13.04 14.07 14.22 14.07 14.07 14.07 14.28 15.13 14.65 11.46 14.65 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73 15.73
Puerperal Death Rate per 1,000 Births	6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02
h Infantile beath Rate per 1.000 Births	$\begin{array}{c} 90.00\\ 126.57\\ 126.57\\ 126.57\\ 128.57\\ 124.75\\ 124.75\\ 124.75\\ 124.75\\ 124.75\\ 100.54\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87.9\\ 87$
r Death Rate	7.73 8.28 9.64 9.64 9.64 9.65 9.65 9.65 9.65 9.65 9.65 9.65 9.65
	$\begin{array}{c} 114\\ 1.578\\ 1.578\\ 3.526\\ 3.526\\ 3.526\\ 3.526\\ 3.526\\ 3.526\\ 3.526\\ 5.527\\ 4.432\\ 4.432\\ 3.588\\ 3.526\\ 5.532\\ 6.532\\ 5.532\\ 5.536\\ 5.539\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.536\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.556\\ 5.55$
Marriage Numbe Rate of Death	$\begin{array}{c} 6.77\\ 6.77\\ 7.63\\ 7.63\\ 7.63\\ 7.63\\ 7.50\\ 7.26\\ 8.55\\ 8.55\\ 8.55\\ 8.55\\ 7.26\\ 6.09\\ 6.09\\ 7.26\\ 6.09\\ 7.26\\ 8.56\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\ 7.26\\$
of Number eived Marriages	187 1927 1927 1927 1927 1927 1927 2032 2032 2032 2032 2032 2032 2032 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,202 4,203 4,202 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 4,203 5,503 5,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,503 6,5
No. of Births Received to Date	$\begin{array}{c} 4,032\\ 4,032\\ 5,900\\ 7,436\\ 7,436\\ 1,937\\ 7,434\\ 10,732\\ 10,732\\ 10,732\\ 15,557\\ 10,732\\ 15,566\\ 15,668\\ 15,668\\ 15,668\\ 15,668\\ 15,668\\ 15,668\\ 15,668\\ 15,668\\ 15,668\\ 15,668\\ 17,7396\\ 15,768\\ 16,127\\ 16,127\\ 16,127\\ 16,127\\ 16,126\\ 17,7396\\ 16,127\\ 17,7396\\ 16,127\\ 10,127\\ 16,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,127\\ 10,$
Number Rate Birth Reco	20.41 20.41 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45
Number of Births	$\begin{array}{c} 421\\ 3,003\\ 6,897\\ 6,897\\ 6,897\\ 6,897\\ 6,897\\ 6,823\\ 10,284\\ 10,284\\ 11,871\\ 13,576\\ 11,871\\ 13,576\\ 13,576\\ 14,455\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 15,153\\ 1$
Population	185,000 266,000 266,000 330,000 331,000 331,000 374,000 429,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,000 592,00
Year	
ţı	1905 1906 1906 1906 1908 1908 1908 1908 1912 1912 1912 1912 1912 1922 1923 1923

TABLE 38-POPULATION BIRTHS. MARRIAGES. DEATHS. AND RATES FOR THE YEARS 1905-1949

150

	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province	24,955	25	1.0
City of Edmonton City of Calgary Small Cities Rural Indian	4,353 3,143 1,427 14,797 1,235	4 2 3 15 1	.9 .6 2.1 1.0 .8

#### TABLE 39.-DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1949

#### 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
1906           1907           1908           1909           1910           1911           1912           1913           1914           1915           1916           1917           1918           1919           1920           1921           1922           1923           1924	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1928           1929           1930           1931           1932           1933           1934           1935           1936           1937           1938           1939           1940           1941           1942           1943           1944           1945           1946           1947           1948	$\begin{array}{c} 1.064\\ 1.042\\ 1.027\\ 1.075\\ 1.052\\ 1.053\\ 1.032\\ 1.055\\ 1.049\\ 1.019\\ 1.046\\ 1.046\\ 1.046\\ 1.033\\ 1.054\\ 1.058\\ 1.041\\ 1.060\\ 1.061\\ 1.036\\ 1.061\\ 1.049\\ \end{array}$	$\begin{array}{c} 2.75\\ 2.71\\ 3.21\\ 3.25\\ 3.08\\ 3.01\\ 3.04\\ 2.81\\ 2.57\\ 2.38\\ 2.70\\ 2.85\\ 2.79\\ 2.71\\ 3.02\\ 2.96\\ 3.08\\ 3.36\\ 3.76\\ 3.44\end{array}$
0.07	1,053 1,065	2.80 2.94	1949	1,051	3.52

