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

#### **Contributors**

Alberta. Department of Public Health.

#### **Publication/Creation**

Edmonton: Queen's Printer, [1938]

#### **Persistent URL**

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## ANNUAL REPORT

OF THE

# Department of Public Health

PROVINCE OF ALBERTA

INCLUDING

# Vital Statistics Branch

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

PRINTED BY A. SHNITKA, KING'S PRINTER 1939





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Edmonton, December 15, 1939.

To HIS HONOUR

J. C. BOWEN,

Lieutenant Governor of the Province of Alberta.

SIR,-

I have the honour to transmit herewith the Annual Report of the Department of Public Health for the year 1938.

I have the honour to be, Sir,

Your obedient servant,

Wallace Warren Cross, Minister of Health. Digitized by the Internet Archive in 2019 with funding from Wellcome Library

Edmonton, December 15, 1939.

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

Administration Building, Edmonton, Alberta.

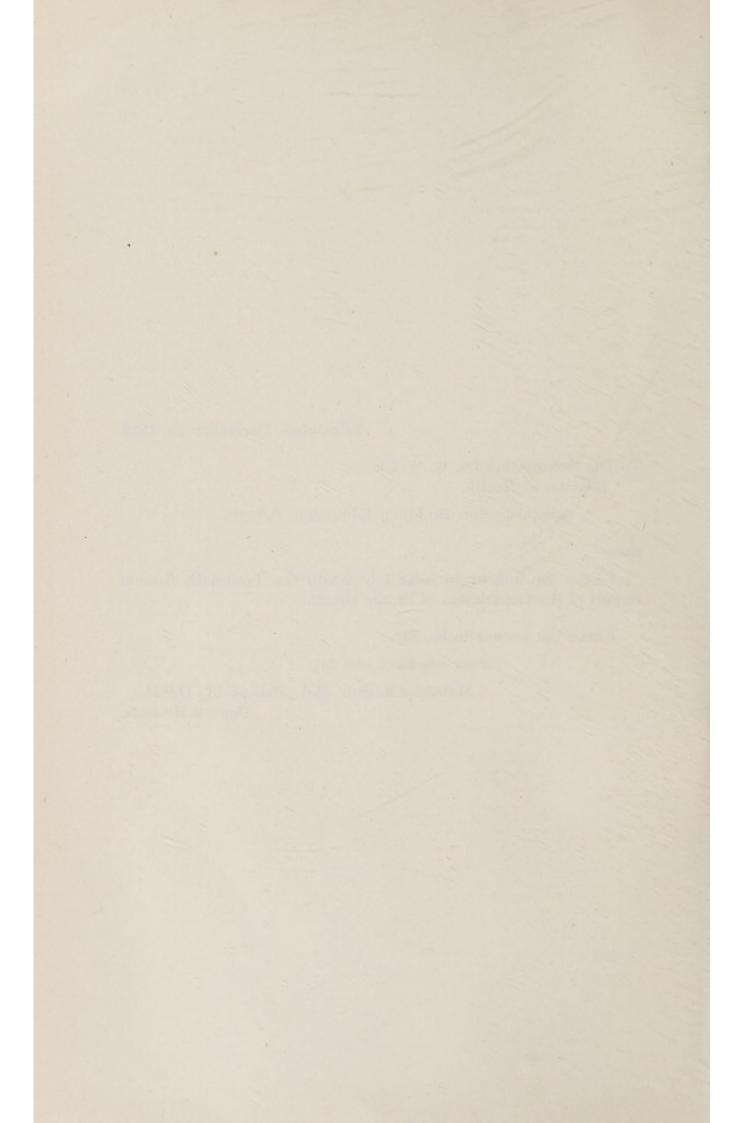
SIR,-

I have the honour to submit herewith the Twentieth Annual Report of the Department of Public Health.

I have the honour to be, Sir,

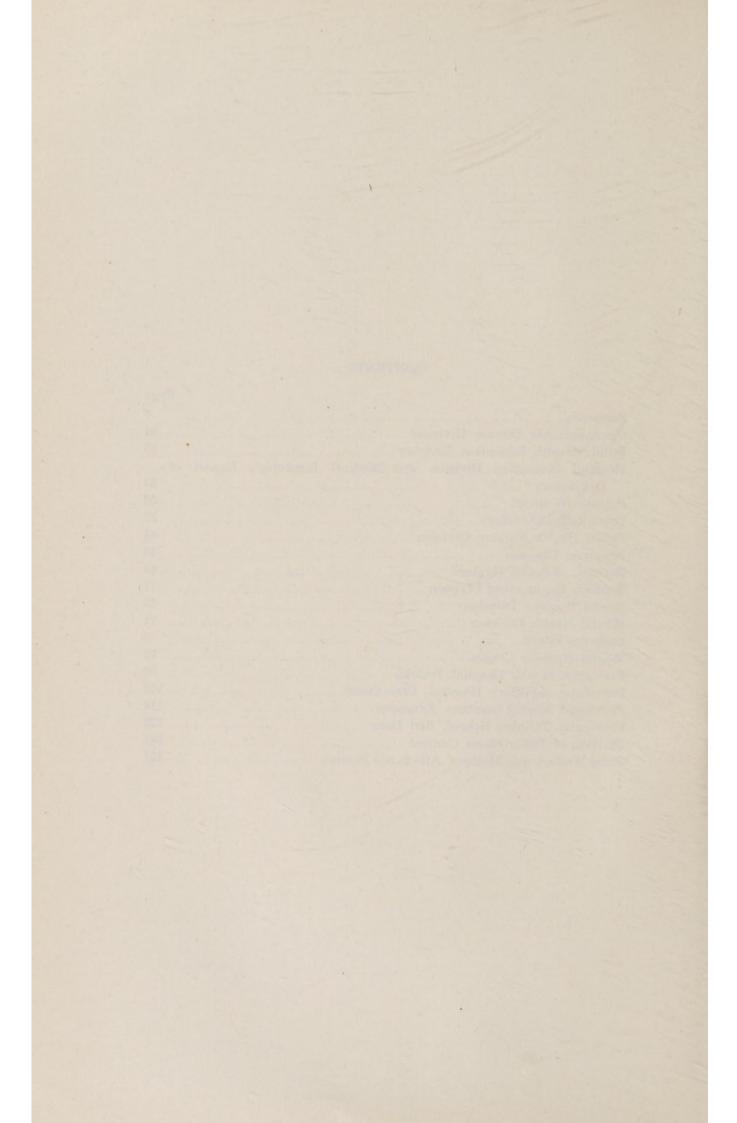
Your obedient servant,

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



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# TWENTIETH ANNUAL REPORT OF THE PROVINCIAL DEPARTMENT OF PUBLIC HEALTH INCLUDING THE VITAL STATISTICS BRANCH

#### THE DEPARTMENT

#### Divisions:

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

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

#### PROVINCIAL BOARD OF HEALTH

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

#### REGULATIONS PASSED DURING THE YEAR

Contagious Disease Regulations were amended by O.C. 533-38.

The Regulations regarding Embalmers were amended by O.C. 694-38.

The Regulations regarding Food and Drink were amended by O.C. 6-38.

Regulations regarding Plumbing and Drainage came into effect by O.C. 159-38.

Regulations regarding Industrial and Construction Camps came into effect by O.C. 4-38.

The Regulations regarding Nuisances and General Sanitation were amended by O.C. 5-38 and by O.C. 862-38.

The Regulations regarding Permits, etc., were amended by O.C. 40-38.

Regulations regarding Restaurants came into effect by O.C. 1123-38.

Regulations regarding Funerals and Interment of the Dead came into effect by O.C. 1124-38.

#### LEGISLATION PASSED DURING THE YEAR

The Hospitals Act, 1938 (Chapter 77).

This Act amends and consolidates the provisions of The Hospitals Act which is thereby repealed.

The more important changes made by this Act are noted hereunder:

By Section 2 "Approved hospital" is defined as any hospital for the time being in receipt of any allowance under section 3; and "Medical practitioner" and "Relief" are defined.

The provisions of section 5 relating to the duties of Local Authorities are restated; "Indigent person" is defined as a person who is actually destitute of means from his own resources of obtaining medical attention and hospital care necessary for the immediate wants of himself and his dependents; "Resident" is defined as: (i) any person who has resided within the boundaries of the area controlled by the local authority for a period of at least twelve consecutive months out of the twenty-four months immediately preceding the date of application for placing such person in a hospital, without receiving relief; and every such person shall be deemed to be a resident of the area controlled by the local authority within whose boundaries he has last so resided; or (ii) any person who has failed to reside for twelve consecutive months within the boundaries of the area controlled by a local authority, as aforesaid, but has resided, or has been a sojourner, within the boundaries of the area controlled by a local authority for at least three consecutive months out of the six months immediately preceding the date of application for placing such person in a hospital, without receiving relief; and every such person shall be deemed to be a resident of the area controlled by the local authority within whose boundaries he has last so resided; Provided always that such person has not, at the date of such application, a permanent home elsewhere than in the Province.

The following are declared to be cases of urgent and sudden necessity for the purposes of this section: (a) an expectant mother applying for admission to a hospital and certified by the attending physician as requiring hospitalization; (b) any person having or suspected of having cancer and applying for admission to a hospital for a diagnosis and initial treatment, whose condition, in the opinion of the attending physician, may be cured or improved by hospitalization.

Written orders for hospitalization or medical attention are made binding upon a local authority when signed on behalf of that authority by any member of the council thereof or by the secretarytreasurer or by any person authorized by resolution of the council thereof.

A baby born in a hospital is deemed to be a resident of the municipality of which its parents are resident at the date of birth.

Section 6 deals with the liability of local authorities for its indigent sick residents and repeats with some modifications the substance of a similar section in the repealed Act.

Section 13 contains new provisions as to the liability for the costs of hospital, medical or other services provided in a hospital—

(a) to a person who is an infant and unmarried, in which case that person and his parents and guardians and their executors and administrators are liable; (b) to a person of full age, in which case such person and the spouse of such person (if any) and their executors and administrators are liable; and (c) to a person who is an infant and married, in which case that person and the spouse of that person and their executors and administrators are liable.

Section 18 requires actions for damages against the Board of any approved hospital for nonfeasance or misfeasance in providing any service in a hospital, to be commenced within one year after the cause of action arose.

This Act came into force on April 8th, 1938.

The Municipal Hospitals Act, 1929, Amendment Act, 1938, (Chapter 73).

Section 2 of the Act enables the Hospital Board, with the approval of the Minister, to defer from time to time the acquisition of a hospital and to enter into agreements with any other Board or any other hospital for the provision of hospital facilities for the residents of the municipal hospital district, and every agreement so made is declared to be valid and binding upon the parties thereto. This section is retroactive to the first day of April, 1937.

Section 3 provides that where a vote is taken for the addition to or detachment of any area from a hospital district and the addition or detachment is not approved, the expenditures incurred in taking the vote are to be paid by the municipality or improvement district in which the vote is taken, and if the vote is taken in more than one municipality or improvement district in that proportion which the amount of the last requisition made upon that municipality or improvement district bears to the total of all the requisitions last made upon all the municipalities or improvement districts in which such vote is taken.

Section 4 strikes out subsection (4) of section 55 of the Act.

The amendments made by sections 5 and 6 provide for the establishment of a reserve fund and for expanding that fund in altering, improving or adding to hospital buildings, lands or equipment, erecting and equipping a new hospital, nurses' home and acquiring any property real or personal required for the purpose of so doing.

The amendment made by section 7 clarifies the provisions of section 67a which relate to the maximum tax and makes provision for the case of ratepayers who hold land under agreements of sale. A further amendment provides that a non-resident ratepayer shall be entitled to hospital facilities as if he were a resident ratepayer. A further amendment provides that on, from and after the 1st day of January, 1939, all sums collected by any contributing council shall apply to paying requisitions made upon it pursuant to this Act.

This Act came into force on March 31, 1938, except paragraph (c) of section 7, which comes into force on January 1, 1939.

The Poliomyelitis Sufferers' Act (Chapter 70).

This Act empowers the Minister of Health, with the approval of the Lieutenant Governor in Council, to enter into agreements with the Board of any hospital which is equipped and has proper facilities for the treatment of persons who have been afflicted by Poliomyelitis (Infantile Paralysis), and who are suffering from the consequences thereof, providing for the reception, hospitalization, care and treatment in such hospital of such persons upon such terms and conditions as may be prescribed by the agreement.

The Minister of Health is further empowered with the approval of the Lieutenant Governor in Council to make provision for the training and instruction of persons who have been afflicted by Poliomyelitis and who are suffering from the consequences thereof.

This Act came into force on March 31, 1938.

#### The Public Health Act Amendment Act, 1938 (Chapter 72).

The amendment made by this Act defines the expressions "Municipality" and "Council" for the purpose of sections 22a to 221, both inclusive. These sections relate to Full Time Health Districts.

This Act came into force on March 31, 1938.

#### DEPARTMENT OF PUBLIC HEALTH

#### FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDED MARCH 31, 1939

	FINANCIAL STATEMENT FOR THE FIL	JCA.	LI LEAR E	ADE	DMARCH	21	, 1909
DIV.	Vote.		Salaries.	E	xpenses.	1	Revenue.
1. 2. 3.	605. Communicable Diseases 605. Public Health Education 603. Hospital Inspection Grants	\$	2,186.13 2,258.36 2,900.00	\$	23,309.83 2,285.01 890.23 463,783.50	\$	1,414.03
4.	626. Laboratory				4,750.00		
5.	606. Public Health Nursing Clinics		37,153.39		12,952.32		3,938.57
6.	608. Municipal Hospitals		2,629.94		1,532.15		
7.	610. Social Hygiene 605. Sanitary Engineering and Sani-		8,757.34		8.479.31		
0.	tation		5.175.26		3.524.97		1,200.05
9.	621. Dental Hygiene		0,110.20		1,000.00		1,200.00
10.	622. Mental Hygiene		4.403.51		8.126.51		************
	Institutions:						
	614-15. Prov. Mental Hosp., Ponoka 623. Prov. Aux. Hosp., Claresholm		284,420.30 17,815.29		152,669.57 10,513.60		153,875.86 6,182.23
	612-25. Prov. Mental Institute, Oliver		117,420.37		59,960.51		56,273.88
	613. Prov. Training School, Red Deer		52,836.66		21.343.91		41,892.76
	604. Central Alberta Sanatorium		130,112.73		228,350.02		55,562.70
	619. University of Alberta Hospital				20,000.00		
	607. Vital Statistics		15,521.56		4,478.55		46,843.41
	609. Insulin				10,936.02		
	611. Grants to Homes Administration		18.673.48		3,950.00		070.04
	605. Full Time Health Districts				3,607.72 15,522.67		972.04
	631. Poliomyelitis Sufferers' Act		***********		14,501.28		***********
		\$	702.264.32		076,467.68	\$	368,155.53
	629. Mothers' Allowance		2,238.62	3	621,570.66		138,533.45
	627-28. Child Welfare		13,821.34		57,198.51		14,369.13
		\$	718,324.28	\$1,	755,236.85	\$	521,058.11
Total	cost Public Health Departmentss: Expenditure Child Welfare and	\$2	473,561.13				SALES OF THE PARTY
	Mothers' Allowance Branches		694,829.13				
Le	ess: Public Health Revenue	\$1	,778,732.00 368,155.53				
	Net cost Public Health Revenue	\$1	.410,576.47				

NOTE: Expenditure and Revenue of Child Welfare and Mothers' Allowance Branches have been eliminated in arriving at net cost of Public Health Department.

#### VITAL STATISTICS

#### Vital statistics registrations during 1938 were as follows:

Births	15.891
Marriages	6.973
Deaths	5,871

In all cases in which rates are shown these are based on an estimated population of 783,000 (the estimate of the Dominion Bureau of Statistics). In the following table the numbers of births and the birth rate, the number of marriages and the marriage rate, and the number of deaths and the death rate are shown for each of the years from 1933 to 1938:

Year	Births	Rate	No. of Marriages	Marriage Rate	No. of Deaths	Death Rate
1933	16.123	21.33	5,389	7.10	5.346	7.06
1934	16,236	21.10	6.053	7.86	5.337	6.93
1935	16,183	21.00	6.010	7.80	5.729	7.40
1936	15,786	20.40	6.020	7.80	6.147	8.00
1937	15,903	20.40	6.345	8.20	6,261	8.00
1938	15,891	20.30	6.973	8.90	5,871	7.50

The birth rate has been practically stationary for the last three years, and the birth rate for 1938 (20.3) is the lowest rate recorded in the history of the Province. The marriage rate for 1938, namely, 8.90, although not constituting a record for the Province, is the highest in Canada for the year 1938. The death rate for 1938 is 7.5 as compared with 8, being the rate for 1937.

#### General Health Conditions.

There was a reduction of 390 deaths in 1938 as compared with the number registered in 1937. Deaths from contagious diseases showed a decrease of over 50% as compared with the previous year. This is largely due to the reduced number of deaths from Influenza and Measles. The following are the chief causes of death which showed increases as compared with the previous year: Cancer, Diseases of the heart, and Pneumonia.

The infantile mortality rate for 1938 is the lowest on record, and the maternal mortality rate shows a slight decrease over the rate for 1937. Special reference is made to the chief causes of infant deaths in another section of this report.

Thirty deaths were reported as due to Whooping Cough in 1938 as compared with 49 such deaths in 1937. Of these 30 deaths, 26 were of children under 3 years of age, 14 of whom were infants under 1 year. There was a marked reduction in the number of deaths from Whooping Cough in 1938 as compared with the years 1936 and 1937. This disease, however, must be considered one of the most serious diseases of childhood. Until such time as there is general recognition of this fact by the public, the prevention and control of the disease cannot be properly carried out.

The combined death rate (deaths per 100,000 population) for Diphtheria, Scarlet Fever, Measles and Whooping Cough is 13 as compared with 26 for 1937. The decrease in the rate is almost entirely due to the decrease in the number of deaths from Measles and Whooping Cough.

Seventy-four cases of Diphtheria, with 18 deaths, were reported in 1938 as compared with 30 cases and 10 deaths in 1937. Of the 74 cases in 1938, 19 were reported by cities, 19 by towns, and 36 by rural districts. The death rate for Diphtheria in 1938 is 2.3 per 100,000 as compared with 1.3 in 1937.

The increase in the number of cases and deaths serves to emhasize the importance of protecting school children and particularly pre-school children against Diphtheria. As in previous years, this matter has been brought to the attention of every school district in the Province. In some districts provision has been made for the protection of both the school population and the pre-school group, but we still have many districts in which no action has been taken to safeguard the children against this highly dangerous disease. The 18 deaths from Diphtheria in 1938 represent a tragic loss of child life which is entirely preventive.

The Department supplies the Diphtheria Toxoid used for immunization purposes free of charge, and urges every community to see that the menace of Diphtheria is eliminated.

In 1938, 2,379 children residing in 49 outlying districts were immunized against Diphtheria by a specially qualified Health Inspector on the Departmental staff, part of whose time is devoted to this work.

There were 34 cases of Smallpox reported in 1938, and no deaths were reported from this cause as compared with 57 cases and 1 death in 1937; 22 of the Smallpox cases in 1938 were reported by rural districts, and 12 by towns and villages.

It is necessary to again stress the fact that vaccination is the only effective means of preventing Smallpox. We have a large unvaccinated population in Alberta. Surveys have shown that in a number of districts not more than 30% of the school children are vaccinated. Should a malignant type of Smallpox make its appearance in such a community, the result is almost certain to be disastrous. Children should be vaccinated in childhood—preferably during the first six months of life.

In 1938, 1,964 persons in 49 outlying districts were vaccinated by the Health Inspector engaged in this work. Many of these outlying districts are much better protected against Smallpox than the well settled areas in which local medical service is available.

Seventy-seven cases of Typhoid Fever and 8 cases of Paratyphoid Fever were reported in 1938 as compared with 34 and 8 cases respectively in 1937. Eleven deaths were registered as due to Typhoid in 1938 and 1 as due to Paratyphoid, giving a death rate of 1.5 for Typhoid and .13 for Paratyphoid.

The increase in the number of cases reported in 1938 was largely due to one outbreak of Typhoid Fever in which the source of infection was traced to cheese. As a result of an exhaustive investigation of this outbreak, the carrier was found to be a shipper of milk to the factory manufacturing cheese. The role of carriers in the spread of Typhoid Fever has been demonstrated in the investigation of a number of outbreaks of Typhoid in recent years. The carrier is to-day the greatest single factor in the spread of Typhoid Fever, and such persons must be kept under constant supervision to be sure that they do not become factors in the spread of infection. It is essential that the local health authorities co-operate with the Provincial Department of Health in the investigation of sources of infection, and also in the supervision and control of carriers. The need of constant vigilance in the supervision and control of water, milk and food supplies cannot be over-emphasized.

The cases of Poliomyelitis numbered 105, and 15 deaths were reported in 1938 as compared with 169 cases and 4 deaths in 1937. A great majority of the Poliomyelitis cases reported in 1938 occurred in the southern part of the Province.

The distribution of cases reported by months is as follows: January 6, February 1, March 2, June 2, July 15, August 45, September 20, October 10, November 4.

The age distribution is as follows: 0-1, 2; 1-4, 25; 5-14, 32; 15-24, 28; 25-44, 15; 45-59, 2; and over 70, 1.

Under the Poliomyelitis Sufferers' Act which went into effect on April 1, 1938, free treatment is provided for patients suffering from paralysis and certified by the attending physician and an Orthopaedic Specialist as likely to benefit from treatment in hospitals equipped to provide the special type of treatment indicated in these cases. Under this Act provision is also made for vocational training and academic instruction of children whose parents are not in a financial position to provide such training, the objective being to assist such persons in becoming self-supporting as far as possible.

During the year, 12 children were admitted to the University Hospital, Edmonton, and 9 were admitted to the Junior Red Cross Hospital in Calgary under the agreement between the Department and these hospitals for the care of these children. Assistance was extended to 17 children to obtain vocational training, and to 3 to complete academic and secretarial courses.

Influenza was responsible for 174 deaths in 1938 as compared with 472 in 1937. There was a very decided decrease in the prevalence of Influenza in 1938, and a very marked decrease in the number of deaths as compared with 1937. The deaths registered as due to Pneumonia numbered 488 in 1938 as compared with 463 in 1937. Influenza and Pneumonia together accounted for 662 deaths, or 11.3% of all deaths reported during the year.

Recent developments in connection with the use of new drugs and sera in the treatment of Pneumonia have aroused widespread interest and give promise of splendid results.

Tuberculosis.

There were 280 deaths reported from Tuberculosis in 1938 as compared with 340 for the previous year, a decrease of 60 deaths. The death rate for all forms of Tuberculosis, including the Indian and Metis population, is 35.8 per 100,000 population. The total deaths from all forms of Tuberculosis in 1938, excluding the Indian and Metis population, numbered 141, giving a death rate of 18 per 100,000 population. This is the lowest rate recorded in the history of the Province.

The work of the Tuberculosis Division has been further developed under the supervision of Dr. A. H. Baker, Director of the Tuberculosis Division and Medical Superintendent of the Central Alberta Sanatorium.

Twenty-five additional beds were provided in the Edmonton General Hospital, bringing the total number of beds available for Tuberculosis treatment in Edmonton to 189. The number of treatment beds in operation in the Province on December 31st was 399, representing an increase of 7% over the preceding year.

The diagnostic clinic service was extended in 1938 with a view to making this service available in every section of the Province so far as possible during 1938. Patients to the number of 185 were admitted to the Sanatorium, and 247 to the hospitals providing special facilities for Tuberculosis patients.

A detailed report of the work of the Tuberculosis Division will be found in the report submitted by Dr. A. H. Baker, Director of the Division.

The new Tuberculosis service under The Tuberculosis Act of 1936 is working out very satisfactorily. Adequate provision for the surgical treatment of Tuberculosis is the most urgent need with which we are faced at present, for which provision should be made at the earliest possible date.

The need of a modern nurses' home which would provide suitable housing accommodation for the nursing staff is most urgent in the interests of the health of our nurses.

Diseases of the Heart and Circulatory System.

Reported deaths from diseases of the heart numbered 895 in 1938, representing 15% of the total deaths recorded for the year, giving a death rate of 114.3 per 100,000 population.

Diseases of the circulatory system caused 455 deaths, representing 7.8% of all deaths registered in the Province during the year, and giving a death rate of 58.1 per 100,000 population.

For every 1,000 deaths registered in 1938 from all causes, diseases of the heart and circulatory system accounted for 230.

Cancer.

Deaths registered as due to Cancer in 1938 were 681, an increase of 83 deaths over the number registered in the previous year, and giving a Cancer death rate of 87 as compared with 77 for 1937.

Cancer is in second place in the list of causes of death, 11.6% of all deaths registered in 1938 being due to this cause. The vital importance of early diagnosis and prompt and effective treatment of the disease in its early stages cannot be too strongly emphasized.

Educational work in this field has been actively carried on by the newly organized Alberta Branch of the Canadian Association for the Control of Cancer as well as by the Alberta Division of the Canadian Medical Association. The Department has co-operated with the Cancer Committee of the Alberta Division of the Canadian Medical Association in this educational work.

There were 734 cases of Cancer reported to the Department by physicians and hospitals during the year. A summary of the cases reported has been prepared as in previous years.

Deaths by Violence.

Deaths due to violence numbered 358 in 1938, a decrease of 14 over the previous year, representing 6% of the total deaths registered for the year, and giving a death rate of 45.6 per 100,000 population.

There were in addition 100 suicides in 1938.

Accidents on the highways accounted for 91 deaths during the year, of which 77 occurred in automobile accidents, an increase of 22 deaths over the number due to automobile accidents in the previous year.

The deaths and injuries due to automobile accidents constitute a public health problem of major importance. The need for scientific study of the whole problem is receiving widespread attention. It is becoming increasingly apparent that if we are to deal with this menace to life and limb in an intelligent manner we must have accurate information as to the relative importance of the various factors responsible for automobile accidents, and so be in a position to apply those measures which will prove effective in their prevention.

There were 38 deaths registered as due to drowning in 1938 as compared with 53 during the previous year. Practically all these deaths are preventable. The hazards connected with swimming and the use of boats, canoes and other watercraft by inexperienced persons need to be much more generally recognized if deaths from drowning are to be prevented. Attendants experienced in methods of resuscitation should be on duty at all swimming beaches and swimming pools in the Province.

In the following tables deaths due to violence are classified:

	TABLE 1	
Homicides Attack by venomous animals Food poisoning Accidental absorption of toxic gases Other acute accidental poisoning (except by gas) Conflagration Accidental burns (conflagration excepted) Accidental mechanical suffocation Accidental drowning Accidental injuries by firearms Accidental injuries by cutting in-	15 Accidental injuries from falling, 1 crushing or landslides 3 Injuries inflicted by animals 16 Hunger or thirst Excessive heat 3 Excessive cold 8 Other accidents Violent deaths (accidental, suicide or homicide), unknown 13 Lightning 38 Capital punishment	181 9 0 1 4 12 3 1 0 358
struments	6	

#### TABLE 2

#### SPECIAL CLASSES OF ACCIDENTAL DEATHS INCLUDED IN ABOVE

Accidents in mines and quarries Accidents caused by machines Railway accidents Street car accidents	21 21 9 2	dents Other land transportation Water transportation Air transportation	77 12 7 0
Automobile and motorcycle acci-			

#### Infantile Mortality.

There were 812 deaths registered of children under 1 year of age in 1938 as compared with 994 during the previous year, a decrease of 182 deaths.

The infantile mortality rate for 1938 was 51 as compared with 63 for the previous year. The present infantile death rate is 9 less than the average rate for the five preceding years, and is the lowest in the history of the Province, being half of the rate of 20 years ago.

As in preceding years, attention is directed to the higher death rates among children residing in the towns, villages and rural districts. In 1938 the average infantile mortality rate for rural districts (including the smaller urban centres) was 55, and for the 7 cities of the Province, 38. This means that the death rate for infants in rural districts is 45% higher than the death rate for infants in the cities.

Of the 812 deaths of children under 1 year of age in 1938, 425 occurred within the first month of life, of which number 258 occurred within the first week and 160 on the first day of life. This means that 52% of the deaths of children under 1 year of age occurred

during the first month of life, 32% during the first week, and 20% during the first day of life.

Attention is again directed to the urgent need of making available in our rural districts and smaller urban centres the same type of preventive health service as is enjoyed in the larger cities of the Province. Such service is provided by the Full-Time Rural Health Units.

#### Maternal Mortality.

Maternal causes were responsible for 68 deaths in 1938 as compared with 78 in 1937, a decrease of 10 deaths. The maternal mortality rate (deaths per thousand living births) in 1938 is 4.3 as compared with 4.8 in 1937. The average maternal mortality rate in the last five years is 4.6.

The following are the chief causes of maternal deaths registered in 1938:

Puerperal Septicaemia		Puerperal Haemorrhage	10
Abortion with Septic condition	10	Puerperal Albuminaria and	
Abortion without Septic condition.	9	Eclampsia	7
Ectopic Gestation	5	Puerperal Embolism	6

Health authorities consider that the maternal death rate could be reduced by one-half, and a marked improvement effected in the extent of invalidity preceding and following childbirth, if our present knowledge in regard to maternal hygiene were fully applied. It is of interest to note that two-thirds of the births in the Province in 1938 occurred in hospitals.

#### Full-time Health Units.

The work of the two units established in 1931, namely, the Red Deer Health Unit and the Foothills Health Unit, has been carried on along the same lines as in previous years.

In August, 1938, a third Health Unit was established, namely, the Lamont Health Unit. The following Municipal Districts and Villages are included in the Lamont Health Unit: M.D. of Eagle No. 545, M.D. of Leslie No. 547, M.D. of Pines No. 516, M.D. of Wostok No. 546, Villages of Lamont, Bruderheim, Mundare, Willingdon, Andrew and Chipman. The total population of the Unit area is 21,000, and the headquarters are located in the Lamont Public Hospital.

Through these Health Units preventive health services are made available to the residents of rural and urban municipalities included in the unit such as those enjoyed by the residents of the larger cities. Inquiries have been received from a number of other districts in regard to the organization of Health Units, and there is evidence of a growing interest in the extension of these services.

The activities of these units include health education, sanitation, prevention and control of tuberculosis, prevention and control of communicable diseases generally, child and maternal hygiene, mental hygiene, school hygiene, supervision of water and milk supplies, food inspection, sewage disposal, etc.

#### Health Education.

Each year marks an increase in the demand for information in regard to health. The value of a health educational programme has been thoroughly demonstrated, and as soon as increased funds can be made available the activities of the Department in this field should be extended.

The chief means by which our health educational work is carried on are as follows: through the publication of bulletins, by articles in the press, by means of lectures, radio talks, movies, and health exhibits. Thirty bulletins and leaflets dealing with various phases of health are available for distribution. There were 2,500 requests for health literature received during the year, and approximately 20,000 bulletins and leaflets were distributed by the Department. 117 lectures were given by the Director of the Health Education Division, at which the total attendance was 16,587. Approximately one-half of this number were children in the school age group.

Public Health Nursing and Child Welfare.

There are 19 nurses on the departmental staff, of these, one is in charge of the Child Welfare Clinic serving the Edmonton district, one in charge of the Child Welfare Clinic serving the Calgary district, one in charge of the clinic serving the Medicine Hat district, and one in charge of the clinic serving the Drumheller district. One serves the Municipal District of Norma and the Town of Vegreville. There are 13 district nurses stationed in outlying districts remote from medical and hospital services.

There were 325 Child Welfare Clinics held in Edmonton, Calgary, Medicine Hat, Redcliff and Drumheller, with a total attendance of 11,016 infants and pre-school children. A full account of the splendid service rendered by our public health and district nurses will be found in the report of the Public Health Nursing Division.

Travelling Clinic.

The Travelling Clinic visited 16 centres in the Province during the year, the clinic being in the field from the end of May to the latter part of July. There were 3,205 persons examined by the clinic staff, and 395 operations for the removal of tonsils and adenoids were performed, as well as a considerable number of minor operations.

The staff consisted of a surgeon in charge, one physician, two dentists, three nurses, and two truck drivers.

The dentists on the Travelling Clinic staff examined 1,302 children, gave dental treatment to 860, and extracted 1,404 teeth.

The need for this service, more especially in the outlying areas remote from medical, dental and hospital service, is great.

Social Hygiene.

Four regular clinics are conducted by the Division of Social Hygiene, and in addition a clinic is held at each of the Provincial Gaols.

The total number of cases under treatment at all clinics in 1938 was as follows: Syphilis 765, Gonorrhoea 1,208, Chancroid 1, Nonvenereal 797, making a total of 2,759.

The records of the Department indicate that while 16% of those committed to Provincial Gaols in 1920 were found to be syphilitic, in 1938 only 3.5% were so.

Educational work in regard to the prevention and control of venereal diseases has been conducted along much the same lines as in previous years. There were 27 lectures given during the year to 2,135 people. There is an urgent need for the extension of our educational programme in this field. Additional films and health educational material are being provided as the funds available permit, and there is an increasing public demand for information and advice in regard to prevention and control of venereal diseases.

#### Provincial Laboratory.

There were 132,460 examinations made by the Provincial Laboratory staff in 1938. The elimination of chicken blood examinations resulted in a net decrease of 13,422 examinations as compared with the number of examinations made during the previous year. The public health examination showed a marked increase as compared with the previous year, and the present staff is now taxed to the limit of its capacity in carrying on this work.

The work of the laboratory includes examinations of water, ice, sewage, milk, examinations in connection with communicable disease control, examinations of pathological material submitted to the laboratory by hospitals and physicians, medico-legal examinations, and many others too numerous to mention.

All vaccines and sera used for the prevention and treatment of communicable diseases are distributed by the Provincial Laboratory. The convalescent Poliomyelitis serum supplied by the Department is produced at the Laboratory. The Provincial Laboratory provides a most efficient service to local boards of health, hospitals and physicians, which is of vital importance in the maintenance of public health. The estimated value of the work done by the Laboratory in 1938, even if only minimum charges were made for the services rendered, is \$209,585.15. No charge is made by the Laboratory for any work of a public health nature.

Sanitary Engineering and Sanitation.

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

There were 624 reports of analyses of water, ice and milk received from the Director of the Provincial Laboratory during the year, and after careful examination of these reports the necessary steps were taken to deal with conditions requiring attention.

The revised Regulations governing plumbing and drainage came into effect during the year, and arrangements were made for the appointment of a plumbing inspector. This appointment made possible the supervision of plumbing installations in a number of districts in the Province in which no adequate local supervision is available. For many years there has been an urgent need for more efficient supervision of plumbing work in such districts, and the advantages of the plan now in effect are already apparent.

As in past years, we would again emphasize the responsibility resting on local authorities for the safety of public water supplies. Raw water from streams, irrigation ditches and other such sources of supply are unsafe, and any municipal authority which permits the use of the same will sooner or later experience a serious outbreak of water borne diseases, with all the consequences which inevitably follow such an experience.

We would also point out the responsibility resting on municipal authorities in the safeguarding of milk supplies. Municipalities permitting the use of unsafe water supplies and permitting the sale of unsafe milk have been found negligent by the courts. The only wise course for a municipality is to take such measures as will ensure a safe water supply and a safe milk supply for its citizens.

There were 129 complaints and requests received from different municipalities throughout the Province, and all were dealt with by the Health Inspector. Thirty inspections of lumber, tie, saw-mill, and mining camps were made by the Health Inspector during the year. With only one inspector available, it is only possible to deal with the most urgent situations and requests from local municipalities for assistance. It is hoped that funds will be made available for the appointment of an additional sanitary inspector in the near future.

Dental Hygiene.

Dental service was provided for patients in all Provincial institutions as in previous years. A report of this dental work will be found in the reports of the various institutions. An outline of the work done by the dentists on the staff of the Travelling Clinic will be found in the report of the Travelling Clinic.

Hospital Inspection.

Government grants were given to 93 approved hospitals in the Province during 1938, and 70 private hospitals (largely nursing homes and baby shelters) were licensed under the provisions of The Private Hospitals Act. There were 124 inspections of hospitals and baby shelters made during the year.

The number of operations reported by hospitals in 1938 was 38,407. The number of deaths following these operations was 501, giving a mortality rate of 1.30% as compared with 1.40% for the previous year.

The total capacity of approved hospitals, including the Central Alberta Sanatorium, at the end of 1938 was 4,964, divided as follows:

liberta banatoriani, at the	SERVE OF	2000 1100	2,000	
General Maternity	2,567 652 707	Isolation Pediatric	ele	232 359 447

This represents one bed for every 165 of the population, or approximately 6 beds per 1,000 population.

Patients treated in the approved hospitals in 1938 numbered 93,971, representing 11.9% of the population. The average length of stay in hospital, excluding Sanatorium, Orthopaedic and D.P.N.H. patients, was 10.7 days. The average cost per patient day in all approved hospitals was \$2.82 as compared with \$2.79 in 1937 and \$2.69 in 1936.

A splendid new hospital, providing accommodation for 15 patients, was opened at Rocky Mountain House in July of this year.

Municipal Hospitals.

There were 24 municipal hospitals in operation during the year, with accommodation for 760 patients, including babies. In the

municipal hospitals, 18,131 persons received treatment in 1938, representing 17% of all patients receiving hospital treatment in the Province during the year.

A detailed statement giving general information in regard to hospital administration and covering all hospitals in receipt of Government grant will be found in the report of the Hospital Division.

Division of Tuberculosis Control.

There was a marked increase in the work of this Division in 1938. The number of treatment beds available for Tuberculosis was increased during the year from 374 to 399. There was an increase of 11.4% in the total patient days in the Sanatoria as compared with 1937.

There was a marked increase in the work of the diagnostic clinics in 1938. At these clinics 4,595 examinations were made during the year, an increase of 28% over the previous year. As a result of the activities of the Tuberculosis Division, 451 new cases of Tuberculosis were discovered. If we include in this summary the examinations made of children attending Indian schools, we find that 7,244 examinations were made during the year by the diagnosticians on the staff of the Tuberculosis Division.

Two new permanent clinic centres were established in 1938, namely; Bonnyville and St. Paul. There are 13 clinic centres now in operation. Travelling diagnosticians visited 60 centres in the Province during the year.

At the request of the Department of Indian Affairs, 1,440 children attending 10 Indian schools were examined during the year. This service was paid for by the Department of Indian Affairs.

In addition, surveys of the Normal schools and the Provincial Institute of Technology were made during the year, 1,209 students being examined.

The year 1938 marked a further advance in the activities of the Department in connection with the prevention and control of Tuberculosis. While much remains to be done, we may look forward with confidence to the results which will follow the unrelenting campaign against Tuberculosis in this Province.

Detailed information in regard to the various activities of the Division of Tuberculosis Control will be found in the report of the Division.

Mental Health Division.

MOVEMENT	OF PATIENTS	-MENTAL	INSTITUTIONS.	1938
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	On Books Jan. 1, 1938			Admissions 1938		Discharges 1938		Deaths 1938		ooks 1, 1938
	Psychotic	Mental Defectives	Psychotic	Mental Defectives	Psychotic	Mental Defectives	Psychotic	Mental Defectives	Psychotic	Mental Defectives
Oliver Ponoka Red Deer Claresholm	503 1567 92	49 118 215 6	244 574 6	15 46 14	14 610 4	25 10	28 104 3	5	705 1427 91	64 139 214
Totals	2162	388	824	75	628	35	135	5	2223	423

This table indicates that there was an increase in patient population in the Provincial Mental Institutions of 96 during the year. On January 1, 1938, there were 2,550 patients in all institutions, and on December 31, 1938, there were 2,646. Since the year 1911, when the Provincial Mental Hospital, Ponoka, was opened to receive patients, there has been a steady increase of from 5% to 8% annually in the patient population in the Provincial Mental Institutions. During 1938 this increase was 4% over the previous year.

The rate of hospitalized patients to general population has shown an increase from 156 per 100,000 in 1921 to 338 per 100,000 in 1938.

The new unit at Oliver, providing accommodation for over 200 patients, was opened early in 1938, and enabled the Department to arrange for the transfer of 236 chronic male patients from Ponoka, thus relieving the serious overcrowding in the chronic male wards at Ponoka. Overcrowding in the wards for disturbed women patients at Ponoka constitutes the most serious problem with which we are faced at the present time. Suitable provision for the necessary accommodation is an urgent matter.

At the beginning of 1938 there were 552 patients in the Mental Institute at Oliver, and at the end of the year, 769. These are all chronic male cases.

There is great need for psychopathic ward accommodation both in Edmonton and in Calgary. With suitable facilities available in each of these centres for observation and treatment of mild, borderline and doubtful cases, our mental health programme would be placed on a much more efficient and satisfactory basis.

Provincial Training School.—This institution provides accommodation for 217 patients, 75% of whom are of the low grade type requiring the maximum of nursing care and supervision. During the year 14 patients were admitted, 4 discharged, and 3 deaths occurred.

Additional accommodation for the large number of mental defectives on our waiting list is urgently required. The institution at Red Deer has been filled to capacity for some years, and the problem becomes more pressing each year.

The Auxiliary Mental Hospital at Claresholm provides accommodation for 100 women patients. The population of this institu-

tion is stationary, with the exception of occasional transfers to and from our other institutions. There were 98 patients in this hospital at the beginning of the year and 97 at the end of the year.

Mental Hygiene Clinics.

Regular clinics were conducted in Edmonton, Calgary, Lethbridge, Medicine Hat and Drumheller, as in previous years.

New clinic centres were established at Lamont and Vermilion, and in addition 9 clinics were held in the Grande Prairie district.

Patients are referred to the mental hygiene clinics by local health and school authorities, local physicians, by welfare and other organizations. Many parents visit these clinics for the purpose of obtaining advice concerning mental hygiene problems in the home. It is the aim of the Department to extend this service as soon as the necessary funds can be made available.

There were 97 Mental Hygiene Clinics conducted in 1938; 406 new cases were presented, and 632 follow-up cases were dealt with Since the mental hygiene clinics were established in 1929, 3,348 cases have been dealt with by the staff.

Eugenics Board.

The work of the Eugenics Board is carried on under the authority of the Sexual Sterilization Act, which was passed in 1929. Six meetings of the Board were held during the year, including five sessions at the Provincial Mental Hospital, Ponoka, and one in Edmonton. During the year 168 cases were presented to the Board. Since the Act was proclaimed, 1,283 cases have been presented to and approved by the Board.

During the year, 63 operations were performed by surgeons appointed by the Board, bringing the total number of operations performed up to the end of 1938 to 643, of which 245 were male cases and 398 female cases.

Detailed information in regard to the work of the mental institutions, the Mental Hygiene Clinics and the Eugenics Board will be found in the reports of these services.

Child Welfare and Mothers' Allowance Branch.

The Child Welfare and Mothers' Allowance Branch was placed under the administration of the Department in July, 1936. Under The Child Welfare Act any child who is declared by a judge of the Juvenile Court to be a negleced child is made a ward of the Superintendent of Child Welfare.

During the year 306 children were declared permanent wards as compared with 337 in the previous year.

Juvenile Delinquents.

In 1938, 795 cases were dealt with by the Juvenile Court as compared with 606 for the previous year. The increase is largely accounted for by the number of by-law cases dealt with in 1938, such as riding bicycles on sidewalks, and other minor infractions of city by-laws.

The Mothers' Allowance Act.—Under this Act during 1938, assistance was extended to 2,304 widows, having in their custody 4,970 children. The expenditure for mothers' allowances in 1938 was

\$622,836.71 as compared with an expenditure of \$613,564.00 for the previous year.

Detailed information concerning the activities of the Child Welfare and Mothers' Allowance Branch will be found in the report of that Branch, which is included herewith.

General Administration.

A statement of revenue and expenditure for the fiscal year ending March 31st, 1938, will be found on page 10 of this report. An analysis of this statement shows that the total expenditure for all activities of the Department was \$2,473,561.13. The expenditure of the Child Welfare and Mothers' Allowance Branches amounted to \$694,829.13. The balance, namely, \$1,778,732.00, is the amount expended in carrying on the usual activities of the Department. Of the latter sum, \$1,568,392.71 was expended for the maintenance and operation of the various institutions under the administration of the Department, for grants to hospitals and homes, and for other forms of treatment services; \$210,339.29, representing 11.8% of the total budget of the Department, excluding the amounts expended for Child Welfare and Mothers' Allowances, was expended for all other activities, including clinic services, vital statistics, communicable disease control, public health units, general administration and all preventive services. Thus, out of every dollar expended by the Department in 1938, 12c was spent for preventive health activities. There is urgent need for the extension of preventive health activities, more particularly in the rural districts. Funds wisely expended for preventive health services yield dividends out of all proportion to the amount invested.

In bringing this summary of the activities of the Department during the year 1938 to a conclusion, I desire to express my sincere appreciation of the devoted service and splendid co-operation given by the directors and the members of the staff of all divisions of the Department, including the superintendents of all institutions and the members of all institutional staffs under the jurisdiction of the Department. We are indeed most fortunate in the quality of our personnel.

All of which is respectfully submitted.

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

### Communicable Disease Division

(A. C. McGugan, M.D., Director)

This division of the Department of Health is particularly concerned with the formulation of policies for the control of communicble diseases throughout the Province. The control is provided through co-operation in and supervision of the work of local health officers and local boards of health. The educative work is carried on by means of publications, meetings held at various points throughout the Province, and radio addresses. There has been a gratifying response to our educative programme in recent years. Local authorities, particularly local boards of health and school boards, are providing immunization services on a larger scale each year.

A consultation service is maintained in this branch whereby assistance in the diagnosis of cases of suspected communicable diseases has been provided at the request of attending physicians.

In certain localities where the more serious communicable diseases have reached endemic proportions, epidemiological surveys have been made in an attempt to discover the source of the disease. In several instances, such as local outbreaks of Typhoid Fever, it has been possible to discover the source, usually a carrier, and thereby materially decrease the incidence of such diseases.

In local improvement districts and other areas not served by a local board of health this branch provides supervision and control. One health inspector is employed who serves both this branch and the Vital Statistics Branch. He vaccinates against Smallpox and inoculates against Diphtheria in pioneer districts so remote from a medical doctor that otherwise this type of service would not likely be available. A summary of his work for the year follows:

Number of points visited	114
Number vaccinated against Smallpox	1.964
Number inoculated against Diphtheria	2,379
Number of lectures given	46

### TYPHOID FEVER

(Cases 77, Deaths 11)

In 1938 there was an increase in the incidence of Typhoid Fever over the incidence in 1937. This increase can be attributed to one outbreak. An epidemiological study in this district revealed the presence of a carrier. Since the discovery of the carrier, no further cases developed in this area during 1938. A large proportion of our cases are the result of either direct or indirect contact with a carrier. A large number of cases developed because individuals used food and water from sources which were likely to be contaminated. The control of Typhoid Fever is essentially the control of sanitation and the discovery and control of carriers. In certain areas where Typhoid Fever has been endemic, vaccination has been carried out on a large scale, and the incidence of the disease materially reduced thereby.

#### Scarlet Fever (Cases 1,452; Deaths 25)

The incidence of Scarlet Fever in 1938 was materially reduced. In those districts where inoculation against Scarlet Fever has been carried out on a large scale, the incidence of the disease has been materially reduced. The comparatively low rate of Scarlet Fever which maintains in our rural full-time health districts appears to be good evidence that immunization against this disease is effective.

#### SMALLPOX

#### (Cases 34, Deaths 0)

All the Smallpox cases which occurred in 1938 were limited to one area. A visitor to the United States appears to have contracted Smallpox in the United States and returned to Alberta. The children in the area concerned had not been vaccinated. The first cases were mild ones and the outbreak had become fairly widespread before a physician was called. No deaths occurred.

#### DIPHTHERIA

#### (Cases 74, Deaths 18)

An outbreak of Diphtheria is a rather isolated area was responsible for a large proportion of our Diphtheria cases. It is obvious that systematic periodic immunization is necessary if we are to maintain an improved Diphtheria record.

#### Pulmonary Tuberculosis (Deaths 206)

The reporting of Pulmonary Tuberculosis is still far from complete. The number of deaths occurring in 1938 from Pulmonary Tuberculosis was 60 less than in 1937. With provision for the free treatment of cases of Pulmonary Tuberculosis in Provincial sanatoria, we may expect a continued reduction in the incidence of this disease.

#### Acute Anterior Poliomyelitis (Cases 105, Deaths 15)

In 1938 there was a reduction of 64 cases over 1937. The morbidity rate was 13.4 as compared with 21.72 in 1937. The mortality rate was 1.9 as compared with 1.67 in 1937. The case fatality rate was 14.3 as compared with 7.69 in 1937.

#### WHOOPING COUGH (Cases 310, Deaths 30)

The incidence of Whooping Cough in 1938 was 47% of the incidence in 1937. With the improvement which has been made in Whooping Cough vaccines in recent years and with more intensive vaccination against this disease, one can expect a continued reduction in the incidence of Whooping Cough.

#### MEASLES

#### (Cases 1,550, Deaths 30)

Both the morbidity and mortality rates in Measles in 1938 were 25% of those rates which maintained in 1937. However, the number of cases and number of deaths from Measles in 1937 were unusually high.

TABLE 1
COMMUNICABLE DISEASES AS REPORTED FOR 1937 AND 1938

	1937	1938
Actinomycosis	1	1
Acute Anterior Poliomyelitis	169	105
Chickenpox	2.093	2.145
Diphtheria	30	74
Encephalitis Lethargica		1
Erysipelas	87	44
Infectious Mononucleosis	2	
Measles	6.643	1,550
Meningococcic Meningitis	6	10
Mumps	1.175	6,675
Paratyphoid Fever	8	8
Typhoid Fever	34	77
Pulmonary Tuberculosis	318	89
Rubella	1,001	137
Scarlet Fever	2.123	1,452
Smallpox	57	34
Trachoma	3	, som
Undulant Fever	250	4
Whooping Cough	658	, 310

#### TABLE 2

## TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR 1937 AND 1938

	1937	1938
Pneumonia (all forms)	464	488
Influenza (all forms)	473	174
Pulmonary Tuberculosis	266	206
Tuberculosis (all other forms)	74	74
Erysipelas	16	5
Scarlet Fever	24	25
Encephalitis Lethargica	9	11
Whooping Cough	49	30
Diphtheria	10	18
Meningococcic Meningitis	8	4
Typhoid Fever	4	11
Paratyphoid Fever	2	1
Acute Anterior Poliomyelitis	13	15
Smallpox	1	
Measles	123	30
Rubella	2	1
Chickenpox	2	2
Actinomycosis	2	4

#### TABLE 3

# DEATHS DUE TO COMMUNICABLE DISEASES IN THE CITIES OF EDMONTON AND CALGARY FOR THE YEARS 1937 AND 1938

	Edme	onton	Cal	gary
	1937	1938	1937	1938
Pneumonia (all forms)	62	94	56	36
Influenza (all forms)	58	22	37	12
Pulmonary Tuberculosis	56	40	11	12
Tuberculosis (all other forms)	15	23	5	7
Diphtheria	4	6		
Whooping Cough	3	1	3	
Acute Anterior Poliomyelitis		3	2	4
Meningococcic Meningitis	2	1	2	
Typhoid Fever		3	1	1
Paratyphoid Fever	1			
Erysipelas	4		3	2
Scarlet Fever	9	7	3	2
Encephalitis Lethargica	4	4	2	2
Measles	7		2	
Smallpox				
Actinomycosis	1	2		

TABLE 4

DEATHS DUE TO COMMUNICABLE DISEASES IN THE SMALLER CITIES, TOWNS AND RURAL DISTRICTS FOR THE YEARS 1937 AND 1938

	1937	1938
Pneumonia (all forms)	251	358
Influenza (all forms)	310	140
Pulmonary Tuberculosis	159	154
Tuberculosis (all other forms)	26	44
Diphtheria	5	12
Whooping Cough	30	26
Acute Anterior Poliomyelitis	11	8
Meningococcic Meningitis	4	3
Erysipelas	8	5
Typhoid Fever	3	7
Paratyphoid Fever	1	1
Scarlet Fever	12	16
Encephalitis Lethargica	3	5
Measles	80	29
Actinomycosis	1	2
Chickenpox	2	2
Rubella	1	1
Smallpox	1	

#### TABLE 5

DEATHS OF INDIANS IN THE PROVINCE DUE TO COMMUNICABLE DISEASES FOR THE YEARS 1937 AND 1938

	1937	1938
Pneumonia (all forms)	95	83
Influenza (all forms)	68	11
Pulmonary Tuberculosis	142	102
Tuberculosis (all other forms)	28	37
Whooping Cough	13	14
Typhoid Fever		1
Measles	34	3
Diphtheria	1	
Erysipelas	1	1
Rubella	1	

#### TABLE 6 (POPULATION, 783,000)

	Total	Total	Morbidity Rate	Mortality Rate	Case
Acute Anterior Poliomyelitis	105	15	13.4	1.9	14.3
Cerebro-Spinal Meningitis	10	4	1.3	0.5	40.0
Chickenpox	2,145	2	274.0	0.2	0.1
Diphtheria	74	18	9.4	2.3	24.3
Encephalitis Lethargica	N.R.	11		1.4	
Erysipelas	44	5	5.6	0.6	11.4
Influenza (all forms)	N.R.	174		22.2	
Mumps	6.675		852.0		
Measles	1.550	30	198.0	3.8	1.9
Pulmonary Tuberculosis	89	206		26.3	
Pulmonary Tuberculosis, Indians Excepted	N.R.	104		13.2	
Pneumonia (all forms)	N.R.	488		62.3	
Smallpox	34		4.3		
Scarlet Fever	1.452	25	185.0	3.2	1.7
Typhoid Fever	77	11	9.8	1.4	14.2
Paratyphoid Fever	8	1	1.0	0.1	12.5
Whooping Cough	310	30	39.6	3.8	9.7
Rubella	137	1	17.5	0.1	0.7

CASES OF COMMUNICABLE DISEASES REPORTED IN 1938

SCARLET FEVER

SMALLPOX	7 5 1 3 8 2 2 1 12 1 12 1 12 1 2 2 2 2 1 12 1 12 1 12 1 12 1 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 13 1 3 17 1 12 1 1 3 34	GERMAN MEASLES	3     1     1     2     2     7     1     3     7     13     5       1     1     1     1     1     1     2     2     7     13     5       1     1     1     1     1     2     1     1     1       1     1     1     1     1     1     1     1       1     2     2     7     1     1     1     1       2     4     6     2     1     16     1       39     46     4     8     25     16     1     4     1     5     2     2     85	67 70 11 12 40 17 21 4 7 3 8 10 4 5 22 70 32 6 2 137	TYPHOID FEVER	1 2 1 1 1 1 2 1 1 1 2 2 2 4 1 1 1 2 2 2 2	50 27 4 1 3 3 3 4 9 23 6 9 9 2 2 20 24 21 8 2 77	PARATYPHOID FEVER	2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 1 1 2 2 3 2 1
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Cities: Calgary Drimheller	364	210	120	108	88-	20	09	2 2	21	10	60	4	27	2	9	535	22	6				574
Edmonton	2880	2880 2845	809	1077	and.	7 227	185 3	347 12	124 7	19 33	3 24	17	=	21	533	1226	929	285	53	01	T	5725
Medicine Hat Red Wetaskiwin				II	N	11			. 10	-		111							11	11	01	2000
Towns Rural Districts	78	0.00	2,03	122	20	13	14	14	12 1	9 16	3 6	273	14.	63	123	126	31	12	63	-	1 9	172
Totals	3435	3435 3240	755	1220 1	755 1220 1527 1300		884 4	479 18	180 105	9 9	. 51	48	59	25	39577	572 5014	704	323	22	6.3	6	6675

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	Cities: Calgary Edmonton Lethbridge Red Deer Villages Rural Districts	Totals		Cities: Edmonton Towns and Villages Rural Districts	Totals		Bashaw		Lethbridge		Cities: Calgary Edmonton Towns and Villages Rural Districts	Totals

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1938	Male	Female	.nst	Feb.	Mar.	April	May	July	-BuA	Sept.	Oct.	.voV.	Dec.	1-0	1-4	PT-9	12-24	Z2-44	42-29	19V0-08	Stated	TOTAL
Edmonton Rural Districts	98	4		11	11	11	11		1	11		63	10 01		-	12	27.1	21-12	. 63	-	11	100
Totals	6	4	-			111			1	-		63	10		1	60	6.0	63	61	-		13
						UN	DOL	UNDULANT FEVER	FEVE	od .												
Edmonton Rural Districts	6161	1.1	-			15			11	-	-	-						1.2	-		11	0101
Totals	4	-	-	1		7	-		-	-	1		-				-	63	-			4
			- /		PUI	MO	NAR	PULMONARY TUBERCULOSIS	BERC	ULOS	SIS											
Cities: Calgary Calgary Edmonton Lethbridge Medicine Hat Towns and Villages Rural Districts	11 10 1 8	242 24 28 8	200 01-	6 04	40 1	<b>64</b> □□□	40 4	HH [ H ]	4 4	H 21	-60   -	224 44	1000 101	04 40			2 1 10 2 3 6 3 6	100 100	494404	4 1	- 2	23 34 11 16 16
Totals	35	53	7	-6	7	6	11	60	10	9	13	-1	11	6		63	7 25	29	18	10	60	88

## Division of Public Health Education

(F. T. Cook, Lecturer)

Health education continued to be an important public health activity in Alberta in 1938. The increase in requests for literature, lectures, exhibits, and general information, noted in recent years, continued this year. Health educational courses in public and high schools have been chiefly responsible for this increase. It is also gratifying to note the growing interest of women's organizations in health education.

Beginning in September of this year, the Grade X course included Social Diseases in the curriculum. At once teachers began a search for suitable material for teaching purposes, and requests for suitable literature and lectures began to flow in to the Department. Lectures on venereal diseases, illustrated with motion pictures, were given at 27 places to 2,135 people. In addition, the film, "How Life Begins," was shown a great many times.

During the year 117 meetings were addressed by the official lecturer, at which the total attendance was 16,587, approximately one-half of which were children of school age.

Radio talks were given every two weeks over CKUA by various members of the staff, assisted by the professional staff of the University Hospital.

The Workmen's Compensation Board co-operated with the Department in an Accident Prevention display at the Edmonton Annual Exhibition. This proved to be one of the most interesting and successful exhibits shown by the Department, and is one which will stand repetition. A part of this exhibit was loaned to the Division of Publicity and Health Education at Ottawa, and proved equally popular in the East.

## Hospital Inspection Branch and Medical Inspector's Report of Operations

(E. A. Braithwaite, M.D., Inspector of Hospitals)

All approved hospitals in the Province were inspected. The total number of inspections was 84.

The total number of operations, taken from the weekly hospital operations reports, was 38,407, and the number of deaths following operations was 501

The following is a list of operations performed and deaths which occurred in the approved, municipal and private hospitals during the year 1938:

	Approved Hospitals	Deaths	Municipal Hospitals	Deaths	Private Hospitals	Deaths
GENERAL:		-	F-1 PM	-	best heet	-
Abscess	752	13	212	5	9	1000
Adenectomy	46	1	5	1	2	
Adhesions	192	3	15	1		
Abee's Operation	1			****	****	
Amputation	366	7	86	2	3	
Anus	15		3			
Appendectomy	4622	80	1152	34	38	
Arthroclasis	1					****
Arthrodesis	31	1	****			
Arthroplasty	2					
Aspiration	175	21	30	4	1	1
Balder	3	1	1	2000		
Bone Graft	5				7	****
Bone Plating	6		1		****	****
Bowel	29	10	11	1		****
Bronchoscopy	6					****
Bunionectomy	25		8	2121	and a	1000
Burns Cancer	7	100	3			
Carbunala	273	97	17	18		400
Cauterization	41	1	5	2111	11110	
Plant and the state of the stat	28		8	4000	2	1111
Cholecystectomy	17	1000	1	1 +112	1110	2100
	435	23	66	3	2	1111
Colonexy	460	1000	90		4	****
Colostomy	27		****	1111	****	****
Craniotomy	21	2	5			
Curetting	74	1111	1		1111	****
Cyst	388		28	4444	****	1111
Cystectomy	4	1	75	****	1	****
Cystoscopy	627	1	37	1111	****	0100
Cystotomy	138	7			-0.00	4191
Decompresia	4		3	2	2111	0.01
Dilatation	96	2	4		2111	100
Dislocation	101		20	****	1111	****
Enterectomy	4		1	1111	****	****
Epididymotomy	5			1010	1111	****
Evulsion Nail	70		29	10.00	****	1111
Examination	100		10	1010	1111	1111
Excision	145	1	26	101	****	0000
Extraction Teeth	730		115	1-1-	11	****
Fasciotomy	2					****
Fistula	86	5	9	1415	****	****
Fracture	1247	8	309	****	2	
Foreign Body	67		23		347.0	1010
Fulguration	50		23		1100	1-14
Gastrectomy	5			1111	****	****
Gastroenterostomy	73	4	10	1		

	Approved Hospitals	Deaths	Municipal Hospitals	Deaths	Private Hospitals	Deaths
Gastrostomy	9		1			
Hammer Toe	9		4		1414	
Hare Lip	45		2	1911		
Haemorrhoidectomy Herniotomy	316 901	10	62 183	6	6	1011
Hydrocele	63	10	14		0	****
Illeocolostomy	8					
Incision	394	3	62	1	1	
Injection	312 19		42		1000	nin.
Jejunostomy Laminectomy	11		1			2000
Laparotomy	232	8	78	1	4	
Ligation	121	1	13			****
Lithotomy	53	5	- 8	1	****	1101
Manipulation	12 385		33	****	9	
Nephrectomy	46	1	2			
Nephrotomy	25	1				
Neurectomy	7	****		****	****	
Orchidectomy Osteoplasty	33		6			****
Osteotomy	47	1	7		****	1111
Paralysis	2					
Phlebectomy	21		8	O	****	
Plaster Cast Plastic	200		15			
Pneumothorax	28		1			
Proctoscopy	57		5			
Prostatectomy	200	19	3		****	
Puncture Pyloroplasty	53		2		1	4444
Removal	251	1-14	28	****	****	****
Repair	338	4	104	1	2	
Resection	149	2	18		3	
Sequestrectomy	29		7			
Skin Graft Splenectomy	46		****		****	****
Suturing	421		99		1	
Sympathectomy	1					
Synovectomy	4				1000	
Tenotomy	16 25				1	****
Thoracotomy	5		4	1 333	****	****
Thyroidectomy	417	12	30			****
Transfusion	2151	14	23	****		****
Tumor Tuberculosis	651	18	50	1	1	1
Urethrotomy	90 18	4	23			****
Varicocele	11		3			****
Vasectomy	130		4		1111	
Wounds	154	5	23		1	
DBSTETRICS:						
Abortion Adhesions	59 15	3	12	****	1111	100
Cervix	250	1	67		1111	rest.
Caesarean Section	85	3	38		1	
Cauterization	69		9		****	4444
Colportably	86		6	****	****	****
Colpotomy Curretage	1203	4	163		9	411
Dilatation	605		64		1	
Examination	92		61			
Hysterectomy Today	304	2	41	2		2111
Induction Labor Insertion Radium	127		42	****	1000	****
Oophorectomy	110	1	16		1000	4400
Ovariotomy	14		6			****
Panhysterectomy	3					****
Perineorrhaphy Salpingectomy	250 383	1	20 37	111	1	****
Salpingo-Oophorectomy	64		5	1	1	1000
Sterilization	56		8			101
Trachelorrhaphy	54		2			****
Uterus	444	5	36		1	
EYE, EAR, NOSE, THROAT:						
Abscess Adenoidectomy	46	****	11	****	100	****
Antrum	39		7	****	****	
Cataract	124	1111			1	1
Cautery	9		1		****	
Dacryocystectomy Dilatation	11 8	****	2000			
- Andrews	8	****	2404		****	****

	Approved Hospitals	Deaths	Municipal Hospitals	Deaths	Private Hospitals	Deaths
Enucleation Eye	73	1000	9			****
Esophagoscopy	- 5					
Ethmoidectomy	7	1100			****	****
Examination	16		3			
Excision	7			1000		4114
Foreign Body	51		4			
Glaucoma	2	1000	1110		****	*****
Iridectomy	62	True .	1	70.00	1111	
Laryngoscopy	2	1000	1			
Mastoidectomy	112	4	16	1111	100	
Myringotomy	5	3111	100	1111	****	
Otitis Media	64		15	1000		1111
Plastic Eye	17	1000	3			4000
Pterygium	15	1000	1	****	2111	1117
Polypi	108		8	****	1111	21111
Scierotomy	5 39	1010		1111		****
Suturing	29	1111	3	,	****	1111
Submucous Resection	86	****	2	1111	2224	
Cymostomy	2	1000	1	****		100
Toneillostomy	3637	1	1106	1100	36	4810
Trochectomy	5	3	1100	1	36	****
Turbinectomy	22		q	1414	1011	11111
Tonsils and Adenoids	3580	1	543	1110	7	****
	0000	*	010			1000
Total number of operations in hosp Total number of deaths following ope	oital				07 01	

In addition to the operations classified above, the following operations were performed by the Travelling Clinic:

Percentage	1.304
Tonsils and Adenoids	395
Circumcisions	40
Other Minor Operations	4

# ANNUAL REPORT OF THE PRIVATE HOSPITALS DIVISION FOR THE YEAR 1938

(E. A. Braithwaite, M.D., Inspector)

Forty private hospitals and baby shelters were inspected during the year.

Seventy licenses were issued to private hospitals and baby shelters.

# Report of the Provincial Laboratory

(ALLAN C. RANKIN, C.M.G., M.D., D.P.H., Provincial Bacteriologist)

During the year a decrease of 38,500 chicken blood examinations is responsible for a reduction of 13,422 in the total number of examinations carried out. These chicken blood examinations, however, were special work carried out for the Department of Agriculture, and cannot be looked upon in any way as of a public health nature. Aside from these, and the preparation of 17,959 doses of horse encephalomyelitis vaccine, as an emergency measure for the same Department, there has been an increase of 7,119 examinations in the work of the Laboratory. It can be said that the Laboratory has again been pushed to capacity in congested quarters.

The amount of work undertaken at the request of the Department of Agriculture, in connection with the control of disease in domestic animals, has put a considerable strain on all our facilities. It is, indeed, apparent that a public health laboratory is being required to carry the responsibility of animal work for which adequate provision does not seem to be available.

The accompanying tables include some of the details of the year's work. As in previous years, the staff have shown loyalty and diligence, and the work has proceeded harmoniously.

TABLE No. 1

***************************************				
WORK PERFORMED IN THE PROVINCIAL	LABORATO	DRY DURIN	IG THE Y	EAR 1938
WORLD TENE GROWING	Total 1937	Total 1938	Increase	Decrease
	937	858		79
Sputum	2.482	2.226		256
Diphtheria	375	627	252	
Typhoid Fever	1.381	1.309		72
Milks	1.719	1.563		156
Waters	2.766	3.504	738	**************
Miscellaneous Examinations	2,100	1	1000	1
Mothers' Milk	123	112		- 11
Urinalysis		25	10	
Medico-Legal Examinations	15	30.530	4.235	
Bloods for the Wassermann Test	26,295	4.877		859
Smears for the Gonococcus	5,736			446
Van Den Bergh Determination	4.088	3,642	849	
Pathological Histological Material	8,576	9,425		************
Blood Smear Examinations	57	109	52	************
Post-mortem Examinations	243	249	6	
Ascheim Zondek Examinations	117	167	50	
Cerebro-Spinal Fluid Examinations	1,753	1,941	188	
Bacteriological Post-mortem Examinations	113	128	15	
B. Abortus Examinations	363	623	260	
B. Tularensis Examinations	363	623	260	00 800
Chicken Blood Examinations	86,765	48,265	**********	38,500
Cattle Blood Examinations	487	2,384	1,897	***************************************
Cattle Blood Examinations	432	390		42
Typhoid Vaccine (25 c.c. quantity)	4	25	21	***********
Autogenous Vaccine (25 c.c. quantity)	334	283		51
B.C.G. Vaccine (10 c.c. quantity)	356	315		41
Poliomyelitis Convalescent Serum (20 c.c.)		17.959	17,959	
Horse Vaccine (1 c.c. quantity)		300	300	
Fox Vaccine (10 c.c. quantity)	***************************************		-	
	145,882	132,460	27,092	40,514

#### TABLE No. 2

Table No. 2 shows the number of water and milk, special and blood containers prepared and distributed during the year 1938:

	1937	1938
Water Containers	1.161	1.760
Special Containers	1.974	2,398
Wassermann Containers	27.784	30,600
Chicken Blood Containers	86,765	48,265
Total	117.684	83.023

#### TABLE No. 3

The following table shows the number of cubic centimeters of autogenous and other vaccines prepared and distributed during the year 1938:

	1937	193	38
Typhoid Vaccine	10,800 c.c.	9.750	-
Autogenous Vaccine	200 c.c.	625	c.c.
B.C.G. Vaccine	3,320 c.c.	2,830	c.c.
Poliomyelitis Convalescent Serum	7,120 c.c.	6,300	c.c.
Horse Vaccine		17,959	C.C.
Fox Vaccine		3,000	c.c.
Total	21,440 c.c.	40,464	c.c.
Increase in the preparation and distribution of Vaccines	and Serums-	-19.024	c.c.

#### TABLE No. 4

Table No. 4 shows the detail of some of the work done by the Laboratory in relation to the control of infectious diseases:

		o. of imens	No. of	No. of					
Diseases	Posi- tives	Nega- tives	Post Offices	Physi- cians	Month.	Sputum.	Diph.	Typhoid Fever.	Total.
					Jan Feb	93 70	302 258	43 46	438 374
Pulmonary	0=	700			Mar	80 79	158 176	50 93	288 348
Tuberculosis	. 95	788			April May	91	87	39	217
Diphtheria	. 57	2169			June	85 57	129 96	47 54	261 207
Typhoid Fever	. 184	443			Aug Sept	57 60	87 127	77 62	221 249
			211		Oct	58 81	401 177	46 41	505 299
				400	Dec.	47	228	29	304
	Tota	al				858	2226	627	3711

#### TABLE No. 5

Table No. 5 shows the number of blood examinations by the complement fixation test for the diagnosis of syphilis:

Bloods received	30,569
Bloods examined	30,530
Bloods positive to reaction Bloods negative to reaction	27.897
Bloods unsuitable for examination Bloods broken in transit	294 39
Male Bloods examined Female Bloods examined	16.032 10.476
Out of 20 520 of those the following details can be given	

### Out of 30,530 of these, the following details can be given:

Male married Male married positive Male married negative	3,546 466 3,080
Male single	6,051 707 4,939
Female married positive Female married negative	7,057 426 6,631
Female single Female single positive Female single negative	2,998 227 2,771

Bloods received from Calgary and south Bloods received from north of Calgary	7.627 22,903
Number of blood examinations made in 1937 Number of blood examinations made in 1938	
Increase in number of specimens examined	4,235 15%

### TABLE No. 6

Table No. 6 gives the details of the bacteriological and chemical examination of water performed throughout the year:

1937	1938
875	1.016
63	126
612	683
82	111
53	90
22	10
12	24
400	****
1,719	2,060
	875 63 612 82 53 22

### TABLE No. 7

Table No. 7 gives the details of the bacteriological, bacteriological and chemical, and chemical examinations of milk performed throughout the year 1937:

out the year 1937:			
		1937	1938
Number of samples of milk examined bacteriologically		1,250	1,157
Number of samples of milk examined bacteriologically	and chemi-	125	140
Number of samples of milk examined chemically		5	12
Total		1,380	1,309
Number of samples of milk examined showing low butt	er fat	24	32
Number of pasteurized milk samples examined bacter with a bacterial count above 30,000	eriologically	68	52
with a bacterial count above 30,000  Number of non-pasteurized milk samples examined bacterial count above 300,000	eriologically	87	87
Number of pasteurized milk samples examined		494	518
Number of non-pasteurized milk samples examined		886	791
SERUMS AND VACCINES DISTRIBUTED—JANUARY	. 1038-DECE	MBER.	1939
Smallpox Vaccine:	,		
10 points	2,891 pkgs.		0 points
2 points	178 pkgs.	35	6 points
Total		29.26	6 points
Diphtheria Antitoxin:			A STATE OF
1,000 units	1,717 pkgs.	1,717,00	
5,000 units 20,000 units	119 pkgs. 394 pkgs.	7.880.00	0 units
Diphtheria Toxoid:		10,192,00	0 units
1 person	3,536 pkgs.	3,536	persons
6 persons	811 pkgs.		persons
12 persons 1 person "diluted"	1,808 pkgs. 1 pkg.	21,696	persons
1 person unuted	1 pkg.	1	person
Total		30,099	persons
Shick Test—25 persons Scarlet Fever Antitoxin:	239 pkgs.	5,975	persons
6.000 units Vial	255 pkgs.	1,530,00	0 units
6.000 units Syringe	182 pkgs.	1,092,00	
2,000 units Syringe	1,107 pkgs.	2,214,00	0 units
Total		4.836.00	0 unite
4044		. 2,000,00	o mines

Scarlet Fever Toxin: 1 persons		1.374	pkgs.	1.374 person
6 persons			pkgs.	9,432 person
6 persons "B"			pkgs.	60 person
30 persons "B"			pkgs.	120 persor
30 persons "C"			pkgs.	120 persor
1 person "D"			pkgs.	4 person
6 persons "D"			pkgs.	132 persor
30 persons "D"		50	pkgs.	1,500 persor
1 person "E"		15	pkgs.	15 persor
6 persons "E"		26	pkgs.	156 persor
30 persons "E"		52	pkgs.	1,560 persor
Total				14.473 person
Dick Test—10 persons			pkgs.	4,560 persor
'etanus:				
1,500 units			pkgs.	199,500 units
5,000 units			pkgs.	60,000 units
10,000 units		13	pkgs.	130,000 units
Total				389,500 units
anti-Meningococcus—20 c.c. Vial		90	pkgs.	1.800 c.c.
Pertussis:				
5 c.c.			pkgs.	145 c.c.
20 c.c.			pkgs.	1.700 c.c.
8 c.c.		200	pkgs.	2,128 c.c.
Total				3,973 e.e.
taphylococcus Toxoid—2 c.c. Vial			pkgs.	524 c.c.
taphylococcus Antitoxin:				
5,000 units			pkgs.	15,000 units
10,000 units			pkgs.	290,000 units
Total				305,000 units
Anti-Pneumococcus Serum—20,000 units		269	pkgs	5,380,000 units
Gas Gangrene: 4,000 units		40	nlege	102 000 mite
10,000 units			pkgs.	192,000 units 840,000 units
Total				
				1,032,000 units
COMMERICAL VALUE OF WORK IF M				
Sputum Diphtheria	858 2,226		\$ 1.00	\$ 858.0
Diphtheria Typhoid Fever	627		1.00	2,226.0 627.0
Milks	1,309		3.00	3,927.
Vaters	1,563		10.00	15,630.0
discellaneous Examinations	3.504		3.00	10,512.0
Iothers' Milk	1		2.00	2.0
Jrinalysis	112		3.00	336.
ledico-Legal Examinations	25		5.00	125.
Bloods for Wassermann Test	30,530		3.50	106,855.
mears for the Gonococcus	4.877		1.00	4,877.
an Den Bergh Determination	3,642		1.00	3.642.
athological Histological Material	9,425		5.00	47,125.
Blood Smear Examinations	109		2.00	218.
scheim Zondek Tests erebro-Spinal Fluid Examinations	167		5.00	835.
erebro-Spinal Fluid Examinations	1.941		2.00	3,882.
ost-morten Examinations (Bacteriological)	128		5.00	640.
Abortus Examinations	623		1.00	623.
	623		1.00	623.
Salakan Dland Francisch	48,265		.03	1,447.
hicken Blood Examinations	9 994		.20	476.
hicken Blood Examinations	2.384		1.00	390.
Aicken Blood Examinations Sattle Blood Examinations Syphoid Vaccine (25 c.c. quantity)	390		8.00	
Chicken Blood Examinations Cattle Blood Examinations Cyphoid Vaccine (25 c.c. quantity) Autogenous Vaccine (25 c.c. quantity)	390 25		5.00	
Chicken Blood Examinations Cattle Blood Examinations Cyphoid Vaccine (25 c.c. quantity) Autogenous Vaccine (25 c.c. quantity) 3.C.G. Vaccine (10 c.c. quantity)	390 25 283		3.00	849.
B. Tularensis Chicken Blood Examinations Cattle Blood Examinations Cyphoid Vaccine (25 c.c. quantity) Autogenous Vaccine (25 c.c. quantity) B.C.G. Vaccine (10 c.c. quantity) Coliomyelitis Serum (20 c.c. quantity)	390 25 283 315		3.00 2.50	849. 787.
Chicken Blood Examinations Cattle Blood Examinations Cyphoid Vaccine (25 c.c. quantity) Autogenous Vaccine (25 c.c. quantity) 3.C.G. Vaccine (10 c.c. quantity)	390 25 283		3.00	125. 849. 787. 1.795. 150.

## Public Health Nursing Division

(KATE SHAW BRIGHTY, Superintendent)

The total number of districts and centres served by the Provincial Public Health Nursing Division is as follows: Edmonton, Calgary, Medicine Hat, Redcliff, Vegreville, Drumheller, Valleyview, Kinuso, Blueberry Mountain, Fort Assiniboine, Pendryl, Peers, Smith, Worsley, Tangent, Hines Creek, Fawcett, Lindale, Alder Flats.

There are 22 permanent Public Health nurses on the staff, divided in their occupations as follows: Five nurses in city and urban centres conducting Child Welfare Clinics, and doing a routine programme of public health in the schools and homes; 13 in permanently established district centres; the district of Alder Flats, which was created as a teaching centre, absorbs annually 2 nurses for a period of six months each, for instruction in district work under the supervision of one of the senior district nurses. The Municipal District of Woodford No. 550 entered into an agreement to finance a Public Health nurse for that municipality during the year. The nurse is supervised by this office. The district of Wanham is served by a Public Health nurse. This service is financed by the community and by a grant from the Grande Prairie Municipal Hospital. The nurse receives supervision from this office.

Miss Jeanne Morton, who served the district of Worsley, resigned during the summer to take post-graduate work in the United States. Miss Nora McCoy replaced Miss Morton in the Worsley district.

Miss C. Elizabeth Sage received the appointment of district nurse for the Blueberry Mountain district on January 1st. Miss Sage was the 1936 winner of the Florence Nightingale Scholarship which provided a post-graduate course of one year at Bedford College, London, England. Miss Sage spent a short time as a member of the staff of the Chicago Maternity Nursing Centre.

Miss Helen Garfield, B.Sc., who took the training course at Alder Flats, came on the permanent staff in May.

Miss E. Irene Stewart returned from her leave of absence in England, having secured her Central Midwifery Board Certificate at the Queen Charlotte Hospital, London, and resumed her duties on the staff.

During the summer, 9 temporary appointments were made for relief work, occasioned by holidays, travelling clinic, and sick leave.

The district of Stanmore was closed.

In Edmonton, the Child Welfare Clinic is supervised by Miss Blanche A. Emerson. There were 100 clinics held, with an average attendance of 56. Ninety-eight out of town cases visited the clinic, and 59 letters were received from rural districts requesting information regarding the care and feeding of infants.

Drs. Folinsbee, Calder and Newell have given untiringly of their services throughout the year. Medical students, senior nurses from all the hospitals, and home economic students have received clinic and field work.

In May the offices were removed from the Civic Block to 10182 100th Street. The new quarters are commodious and satisfactory in every way.

Grateful acknowledgement is made to the City Health Department, the Red Cross Society, and all the relief officers for their hearty co-operation at all times; also to the Keomi Club, the Westaway Club, the Four-in-One Club of First Baptist Church, and to members of the Civil Service, as well as many private citizens for donations of layettes and clothing for needy families.

Visits have been made to diabetic cases, children's shelters and private nursing homes. Creche meetings have been attended, and cases investigated as to eligibility for creche services. Forty-five pre-natal cases received instruction and supervision.

In Calgary, the Child Welfare Clinic is supervised by Miss Marion F. Lavell. The clinic rooms are located on the top floor of the City Hall, and are open five afternoons a week. One hundred clinics were held, with an average attendance of 34; 70 out-of-town cases visited the clinic; 23 letters were sent out with pre-natal advice and information on the care and feeding of infants. Senior nurses from the city hospitals were in attendance.

Our thanks are due to the Good Cheer Club, the American Women's Club, the North Hill Club, business firms and private individuals for generous donations of cod liver oil, medicines, clothing and literature.

There were 120 inspections made of baby shelters and private hospitals, and 7 investigations made with regard to the need for insulin in diabetic cases.

The Child Welfare Clinics in Edmonton and Calgary are used as teaching centres for medical students, student nurses and students in home economics.

In Medicine Hat and Redcliff, the Child Welfare Clinics are supervised by Miss M. E. Hagerman. During the year 125 Child Welfare Clinics were held, with a total attendance of 2,016, and 1,315 homes visits were made.

In addition to the above, a Venereal Disease Clinic is held every Thursday afternoon, a Tuberculosis Clinic every second month, a Baby Clinic at Redcliff every second Wednesday, and a Mental Hygiene Clinic about every third month. The Mental Hygiene Clinic staff spends one day in examining referred cases, and one day in the Medicine Hat schools.

Dr. Lewis of Redcliff was assisted by Miss Hagerman in the inspection of some rural schools, and assistance was also given in the immunization of the Medicine Hat school children.

During the summer, one-day "Well Baby Clinics" were held in the districts of Hilda, Seven Persons, Walsh, Bow Island, Tilley, Schuler and Manyberries. The total attendance was 173.

Two lectures on public health were given to the student nurses and 15 lectures on home nursing to the Grade X High School girls.

The attendance at the Redcliff Baby Clinics has increased considerably. The Medicine Hat Baby Clinic attendance was higher than in 1937. Health conditions were good in Medicine Hat and Redcliff during 1938.

The following is the statistical report of these three Child Welfare Clinics for the year 1938:

FATI	STI	CAL	REPO	RT

EDMONTON	
Number of clinics held Number of babies in attendance 4,42 Number of pre-school children 1,213	5
Total attendance Average attendance Number weighing clinics (Wednesday p.m.) Number in attendance Number of babies referred to family doctor Number of pre-school children referred to family doctor Deaths—Babies under 1 year Pre-school children	56 50 675 22 49
Total number of deaths Number of home visits	2,982
CALGARY	
Number of clinics held Number of babies in attendance Number of pre-school children  2.919 Number of pre-school children	)
Total number in attendance Average attendance Number of home visits Number of calls where people not found Attending meetings outside organizations Number of babies referred to family physician Number of pre-school children referred to family physician	34 1,551 317 3 14

#### DEFECTS FOUND IN EDMONTON, CALGARY, MEDICINE HAT AND REDCLIFF CHILD WELFARE CLINICS FOR 1938

		Pre-			Pre-
	Babies.	school		Babies.	school
Congenital malformation		6	Rectal fissure	1	*****
Conjunctivitis	9	1000	Urethral ulcer	9	44.00
Cataract in right eye	1		Vaginal discharge	1000	1
Obstruction in tear duct	1		Club foot	3	444
Strabismus	4	3	Congenital heart	2	1
Sty	1	2	Cretin	4	
Infected eyes	1	****	Congenital malformations		
Coryza	1		of ear	1	4444
Otitis media	23	15	Enlarged thymus	1	
Deafness	2		Flat feet	1	
Enlarged glands	7	69	Epilepsy	1	****
Enlarged tonsils	17	330	Gypothroidism	1	
Enlarged adenoids	12	166	Mental defectives	3	1
Tonsilitis	2	5	Micro-cephalic	1	****
Epistaxis	1		Spastic dipligia	1	1000
Geographical tongue	1	2	Ammonical dermatitis	12	1
Thrush	7		Burns	4	2
Carious teeth	3	597	Eczema	116	13
Tongue-tie	1		Dermatitis	4444	2 2
Bronchitis	13	2	Furunculosis	3	2
Colds	14		Hives	****	1
Asthma		1	Miliaria	25	1
Anorexia	3	1	Impetigo	30	12
Gypertonic infant	3		Nevus	13	1
Intestinal indigestion	48		Ringworm	4	4460
Rickets	35	2	Scabies	3	5
Malnutrition	25	55	Seborrhoea	11	****
Stomatitis	7	1	Worms		4
Nutritional anaemia	6	9	Abscess on neck	1	
Umbilical hernia	106	12	Bow legs	1	
Inguinal hernia	2		Cut on hand	1	
Moist umbilicus	4	4111	Diarrhoea	66	1144
Hydrocele	3	1	Ears	31	30
Phimosis	58	14	Eyes	44	40
Rectal abscess	1	1111	The State of the S		

In the town of Vegreville and Municipal District of Norma No. 515, Miss Mary R. Black conducts a generalized programme of public health nursing and child welfare work. Routine school inspections are made in both the town and rural schools, and a close

check is kept on communicable disease cases and contacts. Toxoid and vaccination campaigns are also carried out.

Miss M. Ethel Jones supervises the work in the City of Drumheller and surrounding Local Improvement District No. 276. A generalized programme of public health nursing is conducted in that city and district, and a weekly Child Welfare Clinic is held. An extensive anti-tuberculosis campaign is conducted in the district under the auspices of the Kinsmen Club. Thirteen tuberculosis clinics were arranged, at which the attendance was 269. Four Mental Hygiene Clinics were held, at which the attendance was 33. The follow-up work in connection with the tuberculosis and mental hygiene clinics is carried on by Miss Jones.

The following is the statistical report of the school work done in Vegreville, Drumheller and the rural areas served from these centres:

#### STATISTICAL REPORT

First inspections	2.194	With defective vision	316
Second inspections	1.531	With defective hearing	108
Classroom inspections		With throat symptoms	655
Number not vaccinated		With adenoid symptoms	4
Number with defects		With carious teeth	1.434
Number of vaccinations, smallpox	285	With molecutaltian	
Number of vaccinations, smanpox	200	With malnutrition	264
Diphtheria toxoid	606	With faulty posture	85
Weighed and measured. Drum-		Glasses fitted	35
heller	940	Glasses refitted	21
Schoolroom talks	14	T. & A. operations	86
Home visits	384	Dental treatments	175
Child Welfare Clinics	99	Medical treatments	17
Attendance at clinics	991	Communicable diseases	44
T.B. clinics	16	Communicative diseases	44

The Emergency Hospital at the Edmonton Exhibition in July was in charge of Miss A. L. Conroy, with student nurses from the city hospitals assisting. There were 253 cases treated for cuts and burns, exposure to heat, etc., and 3 patients were sent to hospital.

### District Nursing Service.

The districts of Valleyview, Kinuso, Fawcett, Peers, Pendryl, Smith, Worsley, Hines Creek, Tangent, Lindale, Blueberry Mountain, Fort Assiniboine, and Alder Flats are served by District Nurses. The nursing service in Plamondon and Wanham districts is carried on under the supervision of the Public Health Nursing Division. Nurses serving these districts have had special training and experience in obstetrics, and show particular adaptability in carrying on such a programme of work in isolated communities. There is a gradual increase of work in the districts. The nurses took care of 277 obstetrical cases and 39 abortions, making a total of 316 cases, and showing an increase of 42 over last year's figures. There is an increase of three over last year's figures in abortions. One maternal death was reported. This death occurred in the Peace River country, and was due to eclampsia. The nurse was unaware of the existence of the family until she was called to the patient's bedside an hour or two before death occurred.

The number of patients immunized against Diphtheria by the district nurses was 2,536, and the number vaccinated against Smallpox, 961.

Fees collected in the districts show a slight increase over the previous year, the total amounting to \$1,604.16.

In one district an extensive campaign against Venereal Disease has been carried on, the nurse working under the direction of Dr. Harold Orr, Director of the Division of Social Hygiene. The following is the statistical report of the work done in the districts:

STAT	TISTIC/	AL REPORT	
Number home visits	3,477	Number deaths (under 1 year)	18
Number consultations	8,636	Number deaths (over 1 year)	29
Number dressings		Number cases sent to hospital	364
Number medical cases	4.652	Visits to Indian Reserves	2
Number surgical cases		Number dental extractions	56
Number obstetrical cases	277	Number vaccinated	961
Number abortions	39	Number inoculated	2,536
Number pre-natal visits	349	Number whooping cough inocula-	
Number pre-natal consultations	843	tions	36
Fees collected \$1,	604.16	Number scarlet fever inoculations	8
Number child welfare visits	236		

### Travelling Clinic:

The Travelling Clinic visited sixteen centres during the summer. The itinerary was as follows: Onoway, Cherhill, Peers, Mackay, Wildwood, Drayton Valley, Evansburg, Tawatinaw, Plamondon, Rich Lake, St. Lina, Glendon, Willow Trail, Norway Valley, Newbrook, and Thorhild.

Dr. C. E. Holmes, surgeon in charge, Dr. Margolus, anaesthetist, Dr. Gilchrist and Dr. Ross, dentists, three nurses and two truck drivers made up the personnel of the clinic. A survey of each district to be visited by the travelling clinic was first made by Miss M. E. Jones, Public Health nurse, who made all arrangements through a local committee for the service.

The following is the statistical report:

STATISTIC	AL REPORT
Number clinics held 3,206  Number children examined 3,206  Number recommended for T. & A. 811  Number T. & A. operations 395  Number recommended for circumcision 40  Number recommended for stripping 92  Number circumcisions 22	Number strippings 71 Number referred to physician 27 Number referred to hospital 27 Number prescribed for 369 Number anaesthetics 577 Number anaesthetics for teeth only 158 Number minor operations 4 Number of vaccinations 1,324 Number goitre cases (11 clinics) 300
DENTIST	S' REPORT
Number children given treatment Number of fillings (number of teeth) Number of extractions (number of teeth)	1,534 860 1,094

During the summer Miss E. Irene Stewart spent six weeks at Fort Vermilion during the absence of Dr. Hamman, local physician.

Routine radio talks dealing with Health in the Home have been given over CKUA. Addresses were given to women's organizations in various parts of the Province, also lectures in Public Health to nurses in training in several of the training schools in the Province.

The Alberta Mothers' Book and other literature dealing with health has been distributed from the Nursing Branch throughout the Province: 1,341 sets of post-natal letters, 724 sets of pre-natal letters, 959 sets of pre-school letters, and 34 sets of school age letters, making a total of 3,058 sets mailed during the year.

An annual inspection of the nursing centres was made by the Superintendent.

Our appreciation is extended to the medical profession, who have given so generously of their time to the Child Welfare Clinics in various centres throughout the entire year. We also desire to express our sincere appreciation of the continued interest of service clubs, philanthropic organizations and various women's organizations in the Province, whose splendid co-operation has been of great assistance and an inspiration to our staff.

## Hospitals Division

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

The total number of hospitals approved under the provisions of The Hospitals Act of the Province of Alberta, as at the 31st of December, 1938, was 93.

The total grant paid to hospitals and homes for the year 1938 amounts to \$467,407.70.

The approved hospitals had a total bed capacity of 4,754, divided as follows: General 2,567, maternity 652, infants 707, pediatrics 359, isolation 232, tuberculosis 237. These figures do not include the Central Alberta Sanatorium, which has accommodation for 210 patients. For further details, see the report of Tuberculosis Division.

On the basis of a population in the Province of 783,000, we had one hospital bed for every 165 of the population, or 6 beds per 1,000 population; 93,971 patients were treated during the year, and received 1,089,155 days' treatment. This means that in 1938 hospital treatment was provided for 11.9 per cent. of the population, or 1 in every 9 persons.

There was an average daily admission of patients to hospital of 252.8. The average number of days spent in hospital by each patient was 11.6.

If the isolation cases and Orthopaedic, S.C.R. and Tuberculosis cases in the University Hospital, Royal Alexandra Hospital and General Hospital were eliminated, this would be reduced to an average of 10.7. The average number of patients in hospital daily was 2,974.7, or 1 in every 263.3 of our population. Each bed provided accommodation for 19.7 patients during the year.

The nursing staff of the approved hospitals consisted of 654 graduate nurses, 747 pupil nurses, and 284 other attendants.

There were 10 nurses' training schools in the Province, and the number of nurses who graduated during the year was 209. There were 16 dietitians employed.

During the year 11,462 maternity cases were cared for. These cases comprised 12.4 per cent. of the total cases admitted.

Living births were: Male 5,356, female 5,220, making a total of 10,576. Multiple births totalled 122, and there were 256 stillborn.

The maternal deaths reported were 23, thus giving a total death rate of .20 per cent. of total maternity cases admitted, and 2.18 per 1,000 living births.

The living births in Alberta for 1938 were 15,891. Of this number, 66.5 per cent. took place in Government approved hospitals.

The approved hospitals reported that 25,473 general anaesthetics were administered, and 11 deaths occurred from these.

There were 611 autopsies performed. Infections developed in hospitals totalled 271, divided into: Medical 76, surgical 112, obstetrical—mothers 28, infants 55.

The number of communicable disease cases treated, excluding Typhoid Fever and Tuberculosis, totalled 1,624; Typhoid Fever numbered 111, and Tuberculosis reported by general hospitals, 540. For further details regarding tubercular cases admitted, see special report.

Amongst other cases treated in hospital, there were 1,519 cardiac, 769 rheumatic, 523 goitre, 401 venereal, and 976 malignant.

There were 353 deaths within ten days of surgical operations and 596 within 48 hours after admission. Communicable diseases accounted for 98 deaths.

The approved hospitals reported 206,371 laboratory examinations and 48,615 X-ray examinations.

The total operating expenditure of approved hospitals for the year 1938 was \$3,067,911.39, divided as follows: Administration \$317,769.29, professional care \$1,145,482.16, kitchen and dining room \$733,218.49, general house and property \$571,409.21, and maintenance \$300,032.24.

Earnings of these hospitals amounted to \$3,859,357.90.

On referring to the details of the earnings, a difference will be noted in the total amounts shown as paid by Government grant and the amount stated previously in this report. This is accounted for by the fact that homes have not been included in this report, and quite a number of the hospitals presented financial statements covering a fiscal year which differs from the calendar year.

Of the earnings shown, \$479,109.64 was from Government grant; patients' fees earned amounted to \$2,728,171.60; donations of cash and services were \$138,315.16; taxes for municipal hospital purposes were \$273,417.58; the sundry earnings amounted to \$59,963.47.

The average cost per patient day was \$2.82. Excluding the Isolation, Junior Red Cross, University Hospital and hospitals operating wards for incurables, the average cost was \$2.58. The average earnings per patient day was \$3.55. The average cost was divided as follows: Administration 10.3%, professional care 37.3%, kitchen and dining room 23.9%, house and property 18.6%, and maintenance 9.8%.

The statistical and financial information given in this report has been obtained from financial and statistical returns received from the approved hospitals for the year 1938.

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

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

nursing staff, etc.

No. 2—Nursing statistics, cases treated, anaesthetics, autopsies,

No. 3—Expenses of administration, professional care, kitchen and dining room, house and property, maintenance, reserve and capital payments.

No. 4—Revenues.

No. 5—Costs per patient day and earnings per patient day with percentage of costs under the different divisions of expenses.

### MUNICIPAL HOSPITALS

The statistics of Municipal Hospitals will be found with the other approved hospitals of the Province.

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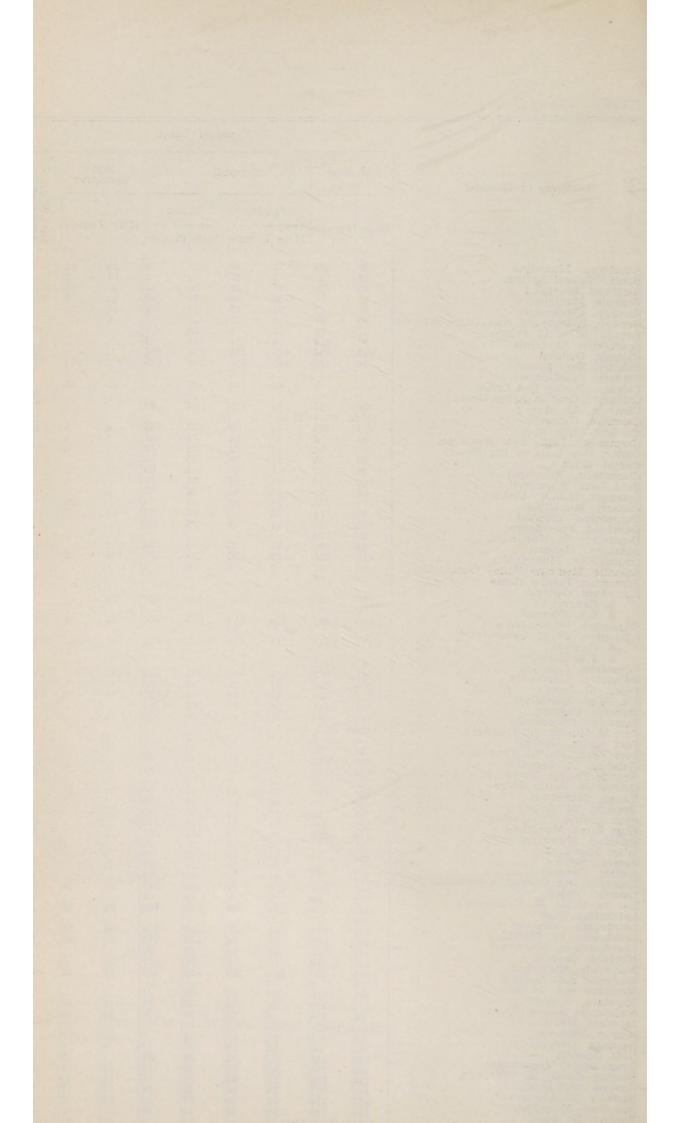
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st	Affiliation w other hospita for nurses	X Kes
bed	Murses gradua during year	2
Bu	Murses' traini	X X S X X S S X X S S X X S S X X S S X X S S X X S X X S X X X S X X X X X X X X X X X X X X X X X X X X
Staff	Other	04-1 1005 1-08-1 0-101-1000 8 0 9 10
	Pupil nurses	111111111111111111111111111111111111111
Nursing	Graduates	mannessen in readmanase signed in the
Treatment	Aver No. of patients in hospital daily	244 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
for Treat	Aver. days stay in hospital	2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010
Admitted for	No. of hospital days	6.446 6.316 6.316 6.316 6.316 6.316 7.25 7.25 7.25 7.35 7.35 7.35 7.35 7.35 7.35 7.35 7.3
- 03	Lemale	252 203 278 281 281 199 1139 1236 227 236 237 236 237 236 237 236 237 236 237 237 237 237 237 237 237 237 237 237
Patients	Male	266 206 309 309 200 200 200 200 200 200 200 200 200 2
14	Bassinettes	74444444444444444444444444444444444444
	Public	37 14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16
	Semi-Private	88 8 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	Private	Nuccess 88 500 11 1 12484 17 1 1 10 10
city	Total	220 22 23 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24
Capacity	Tuberculosis	Kear 2 2 1 1 1 30
Bed	nothelosl	art 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Paediatrics	E E E E E E E E E E E E E E E E E E E
	Infants	000 000 000 000 000 000 000 000 000 00
	Maternity	F 0080000470170 11 11 11 11 11 11 11 11 11 11 11 11 11
	General	25.5 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4 14.4
	Name of Hospital	Athabasca, Municipal Banff, Mineral Springs Barkhead, Barrhead Bassano, Municipal Bentley, Community Bentley, Community Bennyville, K. H. Prittie Bonnyville, St. Louis Calgary, General Calgary, Juois Consers Calgary, Junior Red Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace Cannore, Cammore Caratton, Municipal Cartesholm, Municipal Cold Lake, John Neil Coleman, Miners' Union Consort, Municipal Coleman, Miners' Union Consort, Municipal Bysiand, Providence Desmarais, St. Martin's Didsbury, General A. General B. T.B. Division Edmonton, Bellah Home Edmonton, Misericordia

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Edmonton, Royal Alexandra:  A. General B. T.B. Division Edmonton, University Civilian Edmonton, University Civilian S.C.R.  Orthopaedic T.B. Corthopaedic Elk Point, Municipal Entress, Cottage Fairview, Community Fort Smith, General Fort Smith, General High Prairie, Municipal Grande Prairie, Municipal Hanna, Municipal Hardisty, St. Anne's High River, Municipal Ministal, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Islay, Municipal Masper, Seton Killam, General Islay, Municipal Islay, Municipal Municipal Islay, Municipal Islay, Municipal Islay, Municipal Municipal Islay, Municipal Machen, St Catherine's Lethbridge, Isolation Municipal Machen, General Municipal Medicine Hat, Isolation Mundare, General Municipal Medicine Hat, Solation Municipal Medicine Hat, Solation Municipal Medicine Hat, Isolation Municipal Medicine Hat, Isolation Mundare, General Myrnam, Myrnam Nordege, General Myrnam, Sacred Myrnam, Myrnam Narion, General Myrnam, Sacred Myrnam, Sacred Myrnam, Myrnam Narion, General

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	Affiliation w other hospita for nurses	Ki i i Ss i i i i i i i i i i i i i i i i		1	1
	Nurses gradua during year	9         9	209		
	school traini	Yes			
Staff	Other	8H 884 H H8H8	284		
	Pupil nurses	71 18 1111111	747		-
Nursing	Graduates	F4 0000044004400	654		
Treatment	Aver. No. of patients in hospital daily	27. 27. 27. 28. 28. 28. 28. 28. 28. 28. 38. 38. 38. 38. 38. 38. 38. 38. 38. 3	2,974.7		2,226.2
for Trea	Aver. days stay in hospital	108 8.3 8.3 8.3 10.9 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6	11.6		10.7
	No. oV hospital aveb	10,106 2,584 8,896 2,5414 19,919 8,325 5,909 3,249 4,305 10,430 10,430 10,430 10,430	717 41.073 52,898 1.089,155	94.111	995,044
Patients Admitted	Lemale	551 204 1,386 443 321 270 270 270 129 380 198	2,898 1	478	2,420
Patient	Male	382 132 132 142 116 382 382 368 141 178 178 368 368 368 368 368 368 368 368 368 36	11.073 5	907	40,166 52,420
	Bassinettes	8r r45888484888	717	1	
	Public	28 13 23 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.870		1
	Semi-Private	41 22 4 4 9	702		
	Private	22 414 46 542	475		
ity	Total	48 888888888448	237 4754	538	4216
Capacity	Tuberculosis	t.	237		
Bed C	Isolation	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	232		1
B	Paediatrics	3 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	329		
	stastal	∞	707		
	Maternity	80 NESS 484N8E4	652		
BO	General	81 225 24 11 15 1 2 2 2 2 2 4 1 1 2 2 2 2 2 4 1 1 2 2 2 2	2,567	-	
	Name of Hospital	St. Paul. St. Theresa Smoky Lake, Geo. McDougall Smoky Lake, Geo. McDougall Spirit River. Community Stettler, Municipal Trochu, St. Mary's Vermillon, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Viking, Municipal Wanwright, Municipal Wanwright, Municipal Wanwright, Municipal Washock, Immaculata Westlock, Immaculata Westlock, Community	Total	Excluding Isolation, T.B. Divisions, Ortho- paedic and S.C.R.	

Name of Hospital	Types of Cases  Medical Surgical Non- operative periods	188 Hour 8 -	erculosis al a a a a a a	a 2-NURSENG STATISTIC	OF ALBERTA HOSPITALS, 1808 Surgical Operations Development in Hospitals	ged Deaths	
-	Male Female Major Minor Male Female Male Female	Transfer of the Party of the Pa	Other Bertin Demonstrated Systems of surely Systems of surely	offer cases offer cases on on translates otherwise			Conversion of the control of the con
selection of the Congress of t		10	The state of the s	Since and Market and State	1	## A	1





## DEPARTMENT OF PUBLIC HEALTH

EXPENSES OF ALBERTA HOSPITALS, 1938—ADMINISTRATION

	Salaries and Audit	Board	Office Expenses	Stationery, Printing, Postage	Telegraph and Telephones	Insurance	Sundry	Total Adminis- tration
Athabasca, Municipal	\$ 858.00	\$ 328.30	\$ 70.01	\$ 366.10	\$ 127.04	\$ 464.22	\$ 589.11	\$ 2,802.78
Barrhead Barrhead	1 050 00	410.60	60.00	373.00	235.86	222.00	142.00	1,032.86
Bentley, Community	000000	921 40	100	70.62	101.73	130.18	181.37	483.90
Bonnyville, K. H. Prittie	300.00	06.122	13.18	104.59	109.06	61.661	75.021	226.83
	13,989.19			3,139,95	1,679.12	1,215.93	1,662.50	21.686.69
Calgary, Bolation	8,009.17	6,600.00	221.42	3,287.05	1,712.49	4.497.89	4.287.17	28,615,19
Calgary, Salvation Army Grace	100000000000000000000000000000000000000	389.10	432.37	108.87	202.96	11.042	10.001	1,133.30
Camrose, St. Mary's	864.32	Onen Part Vear		165.99	133.65	219.70	1,141,73	2,649.32
Cardston, Municipal	490.00		C. C.	315.14	146.02	100.00	68.43	1,538.24
Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	- The state of the		31.6	391.83	122.09	252.34	69.69	766.26
Cereal, Esler	220 00	166 50	174 94	12.37	24.74	76.53	486.07	2 000 15
Cold Lake, John Neil	00:01	100.001	101111111111111111111111111111111111111	149.06	85.05	0000	TOTOOL.	234.11
Coleman, Miners' Union Consort, Municipal	320.60	149.22	67.70	78.59	51.30	151.20	43.62	870.89
Coronation, General	149.08	575.00	7.75	115.42	80.27	143.60	6.12	1.077.24
Daysland, Providence Desmarais, St. Martin's	900.00		97-bc1	19.38	123.30	00.616		19.38
Didsbury, General	245.00	271 00	0 0	1 255 00	134.19	20.00	83.30	633.61
Eckville, Medicine Valley Community	10.100.7	111.00	6.96	0.000.00	02.601	10.50	14.76	32.22
Edmonton, Beulah Home Edmonton, General	13,619.47	249.86	417.86	353.09	71.38	1.549.04	4.488.24	22,550.14
	3,412.52	and a second		706.49	574.75	546.60	3,898.17	9,138.53
Edmonton, Royal Alexandra	7.205.00			1.033.10	312.00	1,356.00	1,904.00	11.810.10
Edmonton, University	19,404.88	1,106.40	259.96	4,319.92	3,342.81	2,541.80	6,861.86	37,837.63
Elk Point, Municipal	290.00	388.00	17.60	417.31	106.89	355.50	605.65	2,463.35
Empress, Cottage Fairview Community	336.00	119.70		121.21	40.65	349.70	19.31	1 007 96
Fort McMurray, St. Gabriel's	2000	Open Part Year						
			3.60	37.05	5.60	320.99	93.70	46.25

3,689.10	3,721.23	2,663.74	2,511.83	963.95	9 696 93	135.40	8,826.19	9,969.65	140.39	9.479.99	1 107 40	1.032.09	21.85	7,596.08	210.66	780.12	922.28	127.98	708.66	2,580.54	140.93	1,499.17	1,111.99	2,852.94	114.10	314.66		1.759.06	3,773,46	261.84	1,706.60	1,776.80	693.10	1,660.57	3,412.58	1,149.24	2.369.09	278.14	\$ 317.769.29
20.00	122.67		134.90				205.95	1,473.20	10.07	475 68	95.07	171.50		2,279.29	7.00	165.00	66.65	55.56	34.73	347.77		35.00	213.07	140.60	740.00			213.07	872.47	010.00	45.00	306.94	439.52	158.56	234.48		248.00	67.70	\$ 48,096.56
421.74	486.23		375.75									134.97						93.00	80.00	425.16				291.92				108.00	20.929	105.33	919 96	176.53	40.00	171.95	309.00	172.80	417.05	4.00	\$ 34,016.72
368.16	185.35	252.10	150.06	28.00	104.00	48.00	576.55	865.04	000.00	295.96	70.69	94.61	Annual and an	234.72	93.99	53.61	21.16	10.92	93.50	108.95	61.09	152.91	101.14	94.13	10.00	69.46		77.57	140.00	111.00	119 00	92.85	82.72	93.45	131.13	376.44	112.70	114.21	\$ 19,842.89
731.36	648.59	353.99	313.45	85.60	49.36	87.40	1,452.85	1,187.31	1 190 60	724.90	242 98	48.78			109.81	133.95	£7'007	47.77	168.66	359.24	79.84	211.81	158.31	916.39	00.10	154.18		171.97	487.37	190.001	419.00	281.12	92.86	229.31	417.58	20.00	503.61	40.84	\$ 39,836.15
161.54	45.19	136.10	223.07		394.55		619.81	371.62	1 596 77	11.000.11			- Constitution	111111111111111111111111111111111111111	32.28	109.56	16.05		19.75	- Automotion	- ACCRECATION	70.20	48.00	70.15	04.01	91.02		108.45	20 00	00.20	40.00	00:01	35.00	- consequence	1,561.99	00.417	8.50	26.39	\$ 8,675.11
299.30 No Benort	793.20	340.80	498.60	- Terrenouse	200.00	Total Control of the	214.98			245.20	201010	239.73	- Contraction	The second secon	106.25	200	Mo Donous	No neport	42.02	498.62	The state of the s	308.50		- International Property of the Property of th	Open Part Year		No Report	00 000	09.600	02 00	00.00	319.36		407.30	338.40	- consorming	179.80	25.00	\$ 18,630.21
1,687.00	1,440.00	1,080.00	380.00	-	860.00	- Contraction	5,756.05	5,211.86	20 222 0	1.450.00	480.00	342.50		3,420.00	00.09	905.00	00.000		270.00	840.80		455.00	240.00	1,300.00	0	T. Comments		1,080.00	087.80	1 050 00	420.00	600.009		00.009	420.00	900.009	1.136.45		\$ 148,671.65
Grande Prairie, Municipal	Hardisty, St. Anne's	High Prairie, Providence High River, Municipal	Innisfall, Municipal Islay, Municipal	asper, Seton	Killam, General	Lac La Biche, St. Catherine's	amont, Public	Lethbridge, Galt	othbridge Ct Michaelte	Lembriage, St. Michael S	Maclood General	Mannville, Municipal	Medicine Hat, Isolation	Medicine Hat, General		McLennan, Sacred Heart	Ly mythdin	Nanton, General	Olds. General	Peace River, Municipal	Pincher Creek, St. Vincent	Municipal	Radway, St. Joseph's	Red Deer, Municipal	Rocky Mountain House, R.M.H.	Smoky Lake, George McDougall	Spirit River, Community	l, St. Theresa	Stettler, Municipal	Trochu, St. Mary S		Viking Municipal	Vilna, Our Lady's	Vulcan, Municipal	Wainwright, Municipal	wayne, General	westlock, immaculata Wetaskiwin, Community	Willingdon, General	Total

ALBERTA HOSPITALS, 1938

	Profes	Professional Care of Patients	atients	Kite	Kitchen and Dining Room	Room	
	Salaries	Supplies	Total	Wages	Food Supply		Total
A site of the site			9 100 9	0	0	0	0 000 01
Athabasca, municipal Ranff Mineral Springs	14.690.00	2.214.01		0	•	•	10.726.26
Barrhead, Barrhead	2,875.00	1,376.36	4.251.3				4.204.61
	5,049.55	997.36	6,046.5				3,841.85
Community	2.529.50	1.090.26	3,619.7				1,608.52
no uc	2000 23	625.70	2,930.6				9 519 75
Bonnyville, St. Louis	2.700.00	271.00	2.971.00	420.00	1.511.55		1.931.55
Calgary, General	62,040.41	26.321.17	88.361.5	15			53,806.21
	7,568.60	612.05	8,180.6	1			6,393.11
	39.701.64	27,573.63	67,275.2	1			53,756.09
Calgary, Junior Red Cross	5,286.73	1,427.57	6,714.3	1			
Calgary, Salvation Army Grace	2,323.46	2 919 38	10.1737				5,131.60
Cannore, Canmore	0,547.00	Open Part Year					
Cardston, Municipal	4.541.18		7.719.	8 980.07			5.255.90
Carmangay, Little Bow Municipal	1,857.55	1,609.22	3,466.7				2,409.76
Castor, Our Lady of the Rosary	2,019.24	1.190.60	3,209.8	84 340.0			2,958.21
Cereal, Esler	402.02	312.80	714.8				426.31
Claresholm, General	4.798.18	1,704.49	6,502.67				2,822.62
Cold Lake, John Nell	0,091.18	1,062.33	9,650.11				1,3/1/21
Consort Municipal	3.701.15	800.53	4.501.6	8 410.10	2,110,15		2.520.25
Coronation, General	2,208.90	466.21	2.675.1				1.950.10
	3,624.40	794.47	4.418.87				4.742.49
Desmarais, St. Martin's	1,820.00	83.00	1,903.0				852.05
Didsbury, General	2,822.08	815.54	3,637.0				1,647.18
Drumheller, Municipal	625 10	119 95	255	5,100.45			310.76
Edmonton, Reulah Home	2.289.40	499.79	2.789.1				2.786.27
Edmonton, General	26.209.48	15,334.82	41,544.5				44,084.11
Edmonton, Misericordia	15,069.37	27.823.36	42,892.7				41,095.75
	108,252.14	50.221.78	158,473.5				78,968.32
Edmonton, Isolation	21,772.59	4,811.89	26,384.0				18,337.48
Edmonton, University	4 597 79	901 84	5.499	21,151.86	2 2921 98		4 061 98
Elk Point, Municipal	4.742.87	2.228.36	6.971.				4.781.29
Empress, Cottage	2,428.50	1,713.40	4.141.5				2,552.93
Fairview, Community	2,387.00	803.27	3,190.2	Z			1,441.49
Fort McMurray, St. Gabriel's		Open Part Year					
Fort Vermilion, St. Theresa	1.280.00	400.10	1.680.1				2.768.71
Galahad, St. Joseph's	2,520.00	508.93	3,028.93	302.55	1.530.41		1.832.96

10,239.72
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6,335.50
525.00
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\$ 780,961.79

## DEPARTMENT OF PUBLIC HEALTH

GENERAL HOUSE AND PROPERTY OF ALBERTA HOSPITALS, 1938

98		DEPARTMENT OF PUBLIC HEALTH	
Total		\$ 4,152.20 7,529.64 2,183.25 4,752.08 801.24 801.24 1,705.36 1,900.05 36,213.00 2,201.65 36,213.00 2,201.65 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 30,748.22 3	
Ice and Water	100	\$ 220.54 324.66 306.00 1,811.78 4,228.87 140.45 140.45 112.50 11.096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08 1,096.08	
Light and Power		\$ 986.29 791.73 381.00 725.76 164.09 897.20 532.52 236.82 304.83 304.83 304.83 304.83 320.60 3291.60 3291.60 3291.60 3291.60 3200.63 44.08 44.08 44.08 728.25 11.031.10 333.60 55.084.51 11.031.10 333.60 55.084.51	-
Fuel		\$ 1,001.39 2,610.48 487.00 256.50 506.40 8,763.88 968.45 968.45 668.91 631.05 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 68.00 739.95 741.00 11,205.79 746.57 841.10 11,205.79 746.57 841.10 11,205.79 746.57 841.10 11,205.79 746.57 841.10 11,205.79 746.57 841.10 11,205.79 746.57 841.10 11,205.79 746.57 841.10 11,205.79 841.10 11,205.79 841.10 11,205.79 841.10 11,205.79 841.10 11,205.79 841.10 11,205.79 841.10 11,205.79 841.10 11,205.79 841.10 11,205.79 841.10 11,205.79 841.10 11,205.79 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841.10 841	No Report
d Janitor	Supplies	\$ 22.74 \$ 193.68	- Commence
Engineer and Janitor	Wages	\$ 734.83 360.00 724.05 1,328.35 188.60 900.00 600.00 600.00 1,080.00 1,080.00 30.00 325.00 1,263.38 1,26.00 64.800.00 4,800.00 1,263.38 1,26.00 64.35 1,263.38 1,263.38	
ıdry	Supplies	\$ 99.74 312.94 516.25 1,420.75 4,980.76 4,980.76 53.36 154.68 90.23 1,957.78 1,532.79 1,957.78 1,532.79 1,532.79 1,532.79 1,552.79 1,569.39 1,00.46 100.46 100.46	
Laundry	Wages	\$ 748.56 \$ 445.30	No Report
Housekeeping	Supplies	\$ 73.29 988.50 988.50 202.43 45.20 7.276.37 251.67 4.29.28 344.80 1.053.61 989.28 48.20 40.82 219.48 67.47 6.98 335.39 4663.07 1.027.62 330.57 309.18	
Hon	Wages	\$ 264.82 534.00 372.55 380.65 380.27 3,333.74 759.82 227.79 173.56 143.60 350.00 1.367.78 14.60 46.67	-
		tr. Mineral Springs head, Barrhead ano, Municipal ley, Community vyn, Ratepayers, Associa- n of Peace nyville, St. Louis ary, General ary, Isolation ary, Isolation ary, Salvation Army Grace rose, St. Mary's ary, Salvation Army Grace ston, Municipal and St. Louis ary, Salvation Army Grace ston, Municipal and Ary Salvation Army Grace ston, Municipal angay, Little Bow Muni- br. Our Lady of the Rosary al, Esler scholm, Municipal angay, Little Bow Muni- br. Our Lady of the Rosary al, Esler scholm, Municipal and Providence arais, St. Martin's bury, General aland, Providence arais, St. Martin's bury, General allend, Brovidence arais, St. Martin's bury, General allend, Providence arais, St. Martin's bury, General allend, Brovidence arais, St. Martin's bury, General antion, Bealah Home antion, Bealah antion, Misericordia antion, Boyal Alexandra antion, Liversity n, St. John's Point, Municipal ress, Cottage ress, Cottage lew, Community McMurray, St. Gabriel's	Fort Vermillon, General

1,759.00 1,751.42 4,748.29	5,647.51 1,140.53 1,845.01	5,576.71 2,188.45	1,728.75	3,866.53	16,620.15	7.716.66	2,662.00	12,829.26	2,063.62	3,056.71	567.89	1,104.99	1,878.51	2,781.45	4,200.94	30 901 6	2,106.03	3,917.47	2,103.16	4,010.86	2,506.40	3,092.97	1,396.33	2,650.05	1,173.40	\$ 571,409.21
36.40	88.33	73.01	260.05	290.27	1,233.40	993.45	120.00	1.148.37	30.59	37.00		285.50	65.40	148.00	82.00	20 00	00.00	120.00	97.36	5.70	18 50	122.90	60.34	50 000	7.03	29,548.26
200.80 487.79 1.230.47	1,681.30 268.24 344.00	1,056.09	450.20	192.00	2,068.55	1,871.40	718.74	2,710.93	433.38	2,343,45	149.12	315.87	259.25	338.72	1.076.01	200.100	414.34	546.08	262.17	1,178.93	126 56	886.10	407.40	688.51	216.16	75,366.55 \$
7.99	No Report 1,079.50 400.00 348.83	1,546.81	360.25	854.83 243.00	2,415.96	1,816.93	1.049.22		358.86		No Report	181.00	181.50	595.87	718.81	Yea	No Report	708.66	476.75	1,142.68	695.26	612.72	258.53	745.50	836.45	\$ 103,277.31 \$
20.00	51.51	147.67	15.25	71.70	1,005.95	588.67	70.66	474.46	366.35		-		16.15	32.05	22.05	Open Part	18.73	43.00	33.67	190.00	201.62				158.87	24,973.10
395.00 200.00 895.00	669.10 350.00 381.00	1,006.15	360.00	1,058.50	3,645.60	1 294 00	OCCUPANT OF THE PARTY OF THE PA	2.018.25	1 255.00	175.55		81.00	942.51	360.00	755.10	00.186	820.00	840.00	600.00	920.00 523.00	674.83	674.98	180.00	199.25	793.50	\$ 96,629.05 \$
. 8.50 132.61 189.35	319.45 68.10 283.18	517.00	39.19	130.91	1,692.16	846.21	45.50	840.30	31.20	106.04	75.00	20.00	176.98	196.42	165.92	Year Year	48.30	314.73	137.11	250.57	106.52	84.05	160.56	58.69	198.56	\$ 26,356.94
	No Report 481.50	862.50	120.00	522.65	1,043.08	1.600.00		4 223 93	5.75		No Report	209.35	360.72	360.00	729.15	Open Part	No Report	145.00	200.00	1,800.00	377.68	358.00	420.00	148.00	552.29	\$ 83,157.76 \$
129.70	549.82	303.72	38.00	239.95	1,290.43	00000	29.47	135.59	283.30	26.72	-	32.27	214.08		286.65	30.67	43.59	432.00		1,500.00		142.22	83 40	496.67	388.63	\$ 40.803.03
365.00 250.00 95.00	727.00	320.15	160.00	360.00	1,698.27			1 977 50	303.19	240.00	-		300.00	250.00	362.25	156.00		888.00	200.00	281.90		212.00	300 00	252.00	29.00	\$91,263.91
Fort Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairle, Municipal	Grimshaw, Battle River Hanna, Municipal Hardisty, St. Anne's High Prairie	High River, Municipal Innisfail, Municipal	Islay, Municipal Jasper, Seton Killom, General			Lethbridge, Isolation Lethbridge, St. Michael	Macleod, General	Medicine Hat, Isolation	Mundare, General	McLennan, Sacred Heart Myrnam, Myrnam	Nanton, General	Nordegg, General Olds, General	Peace River, Municipal Pincher Creek, St. Vincent		Red Deer, Municipal	Rimbey, St. Paul's Rocky Mountain House, R.M.H.	Smoky Lake, Geo. McDougall	St. Paul. St. Theresa	Stettler, Municipal Trochu, St. Mary's	lle,	Viking Municipal	Vilna, Our Lady's Vulcan, Municipal	Wainwright, Municipal	wayne, General Westlock, Immaculata	Wetaskiwin, Community Willingdon, General	Total

MAINTENANCE AND WAGES, ALBERTA HOSPITALS, 1938

	Buildings and Grounds	Furniture and Equipment	Dry Goods	Sundries and Rents	Total Mainten- ance	Total Running Cost
Athabasca, Municipal Banff, Mineral Springs Barrhead, Barrhead	\$ 338.68	\$ 253.43 748.29 91.70	\$ 237.87	\$ 2.25	\$ 832.23 2.979.14 978.92	\$ 18,007.20 39,309.65
	739.41	317.44	181.59		1,238.44	18.414.17
Berwyn, Ratepayers' Association of Peace. Bonnyville, K. H. Prittie Bonnyville, St. Louis	188.90	170.22 572.10 79.60	22.91 185.50	1,103.25	311.42	10,014.13
Calgary, General	1.055.49	9,207.54	700 200	21,735.35	31,998.38	232,065.86
Calgary, Junior Red Cross Calgary, Salvation Army Grace Cannose, St. Mary's	1,251.25	480.64	605.58	670.28 618.95 103.00	2,350.84 2,896.87	15,618.74 12,950.01 26,888.39
Canmore, Canmore Cardston, Municipal	1.601.74	Open Part 856.64	Year	Open P	art Year 3,406.55	21,988.78
Casting and a state of the Rosary Castor, Our Lady of the Rosary Cerest Esler	1,462.76	1,137.46	819.22	20.08	3,439.52	12,671.83
Claresholm, Municipal Cold Lake, John Neil	1.504.47	545.61	90.08	228.49	2,484.37	13.045.44
Coleman, Miners Union Consort, Municipal Coronation General	293.84	128.42	196.17	25.50	1,030.98 492.92 650.09	10,348.76
Daysland, Providence Desmarais, St. Martin's	3.641.09	1,883.97	415.20		5.940.26	18,844.18
	1.192.29	839.21	1,870.40	833.80	4,735.70	8,154.70 71,308.84 1,352.52
Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia	293.83	3,625.28	3,040.84	3,766.81	995.30 13,293.11 32,296.75	11,015.11 147,131.04 163.107.63
	1.879.00	10000	6.947.79	20,003.81	34,503.33	410,008.98
Edson, St. John's Elk, Point, Municipal Emress, Cottage	631.75 1.281.94 131.70	9,611.81 71.01 995.03 66.85	422.33	39.18 95.31 89.23	2,794.61 413.85	16,632.60 16,632.60 20,566.73 9.399.88
Fairview. Community Fort McMurray, St. Gabriel's Fort Smith. General Fort Vermillon. St. Theresa	46.55 Open Par No Report 600.00	t Ye	113.20	Open Pari No Report	892.60 art Year 701.25	7,961.15
Galahad, St. Joseph's	439.71	190.58	382.26	63.42	1,075.97	8,409.25

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	Per Patient Per Day		Per	Percentage of Cost	t		Earnings, including Grants and
	Exclusive of Capital and Reserve	Adminis- tration	Professional Care	Kitchen and Dining Room	House and Property	Mainten- ance	Contributions from Municipalities per Patient per Day
Athtbasca, Municipal Banff, Mineral Springs	\$ 2.79	15.6	38.4	18.3	23.1	4.6	\$3.84
Barrhead, Barrhead Bassano, Municipal Bentley, Community	23.50	13.7	33.6 47.5 8 6	20.8 21.1	25.8	14.4	34.25
Berwyn, Ratepayers' Association of Peace	2.35	11.7	39.8	25.4	19.5	10.00	4.58
Bonnyville, K. H. Prittie Bonnyville, St. Louis Caligrapy General	1.55	900 00	38.1.1	2822	25.6	13.8	2.82
Calgary, Isolation Calgary, Holy Cross	2.85	20.3	31.4	24.6	23.6	15.1	4.32
	1.72	2 8 8 1.1 1.7.6	22.5 37.9 37.9	3255 2255 2175 2175 2175 2175 2175 2175 2	19.4 20.2	18.0 10.8 10.8	3.32
Canmore	2.80	E.	Part Year	23.9		Part Year	3.08
22	3.30	6.1	25.2	23.23	18.2	23.1	22.23
"Cereal, Esler Claresholm, Municipal Cold Take John Neil	2.95	15.3	40.6 50.0 50.0 50.0 50.0 50.0 50.0 50.0 5	21.6	10.7	2 61 61	4.12
Coleman, Miners' Union Consort, Municipal	3.11	4.8	37.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23	28.5	18.9	7.7	3.63
Coronation, General Daysland, Providence	2:24	13.6 6.9 4	25.23	24.7 25.1	12.9	20 E E	2.69
	223	0.6	39.7	20.2	19.7	6.6	3.62
Eckville, Medicine Valley Community. Edmonton, Beulah Home	3.14	19.9	13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53 13.53	522.9	20.4	1.66	89.83
Edmonton, General Edmonton, Misericordia	2883	15.6 15.6 11.8	8,82,83	252.2	23.1	19.8	4.17
	3.67	14.8	33.5 49.6	23.1	25.0	10.10	2.49
	2.07	9.8	33.6	24.4	28.6	13.6	3.95
Empress, Cottage Fairview, Community	3.36		5	18.2			38.00
Fort McMurray, St. Gabriel's Fort Smith, General Fort Vermillon, St. Theresa	3.27	No Report	rart rear	39.8	No Report	10.1	2.98

3.70	2000	5.25	3.86	2.65	3.61	3.08	3.50	7 7 7	100	9.00	4.79	4.99	4 00	4.00	3.07	6,63	4.56	00.5	2.12	1.88	9 70	0000	8.32	2 28	00-0	2.69	2 5.9	20,0	5.15		101	4.81	3.21								3.30		2000	6.90																		3.44		 \$3.55
12.7		90.00	00	18.0	5.6	4.3	9.7		0.50	24.9	ro.	10.000	2000	10.0	6.1	0.6	P 6			10.7			18.4	3.0	0.0	4.6	18.4	10.0	18.0				9.6			15.0		200	7.61	104	23.5	4	T rear	7.2			10.1		11.8							2.0					4.3	4.4	2.7	8.6
20.8	No Report	21.2	14.5	15.1	18.5	22.5	19.5	200	0.55	14.4	21.6	11.8	10.0	13.0	18.6	11.0	10.4	10.4	17.9	15.2	0.01	10.0	9.9	90.1	1.02	28.4	91.0	0.15	29.5	No Bonort		0.00	12.3	2.00	20.1	24.1	100	0.01	18.5	17.6	14.9	The state of the s		18.1	No Report	10 %	10.1	16.6	23.8	21.6	0.10	Z1.3	18.1	17.1	1.14	21.9	12.3	15.5	0.01	1.62	16.2	25.50	0.09	18.6
21.7		20.9	25.7	27.0	26.3	20.4	23.1	401	40.Y	18.1	18.8	14.5	0000	0.77	28.0	29.0	7 90	200.0	58.9	32.6	9.4.7	24.1	26.1	20 4	1,00	23.1	308	0.00	13.5		* 00	38.1	25.0	0.00	23.3	17.2	96.1	0.000	5.62	19.5	94.1	*****	The same of the sa	15.1		200	1.00	19.8	20.0	29.4	1.000	6.42	21.1	19.1	1.01	7.97	20.4	25.1	2000	30.3	22.9	90.3	60.03	23.9
36.0	10000	34.9	43.8	34.1	39.2	42.7	37.5	1111	11.4	30.9	39.0	26.1	2000	0.12	36.1	45.7	40.9	9.04	388.3	35.1	200	0.00	47.8	12.00	0000	36.9	95.7	1.00	29.8			40.4	45.2	1.00	37.4	41.8	1 20	1.00	34.6	40.4	27.6	A Wanter		56.9		0000	20.00	40.7	37.9	97'9	0.00	36.1	43.00	49.1	4.040	24.8	38.3	28.7	0 00	23.3	46.3	42.1	106	37.3
10.2	No Report		7.5	80.00	10.2	10.1	101	1001	12.0	11.6	15.1	10	200	19.9	11.2	5.2	10.0	20.01	0.00	6.3	0.0	0.0	1.1	11.0	11.3	7.0	4.1	1.E	6.00	No Bonort		2.2	7.9	200	12.9	1.8	100	7.01	6.4	11.9	2.0		Open Par	2.7	No Report		5.0	7.91	6.4	4.1	4.5	3.6	12.7	8.4	0.1	11.8	18.9	12.7	0	9.6	10.2	6.9	5.0	10.3
2.00	20000	3.04	2.11	2.22	2.33										2.54																										1.30		20000	4.51		20 0	90.2	29.7	3.66	2.16	04:0	61.2	2.35	2.54	1000	97.59	3.06	2.87	1 40	1.73	2.22	2 45	OF S	\$ 2.82
Galahad, St. Joseph's Grande Prairle, Municipal	Grimshaw, Battle River	Hanna, Münicipal	Hardisty, St. Anne's	High Prairie, Providence	High River. Municipal	Innisfail Municipal	Telay Minipinal	Total Manny and	Jasper, Seton	Killam, General	Lacombe and District Community	I an a Righa Ct Catharina's	Lac a Dicile, Dt. Cataleinica	Lamont, Public	Lethbridge, Galt	Lathbridge Teolation	Tothbulder Ct Michoelle	Letibridge, St. Michael 8	Lloydminster, Municipal	Macleod General	Manual Manual	Mannyllie, Municipal	Medicine Hat, Isolation	Madiaina Hat Cananal	Medicine Hat, General	Mundare, General	Molonon Cooned Hoost	L sacred	Myrnam, Myrnam		Namion, General	Nordegg, General	Olde General	Olds, delicted	Peace River, Municipal	Pincher Creek St. Vincent's	Minninian	Flovost, municipal	Kadway, St. Joseph's	Red Deer, Municipal	Dimboy St Danl'e	Million of the same of the same	Rocky Mountain House, K.M.H.	Smoky Lake, George McDougall	Spirit River Community	Of Part of Phonesis	10		Trochu, St. Mary's	-			Viking, Municipal			Vulcan, Municipal	Wainwright, Municipal	Wayne General	Wayner Contract to the contract of the contrac	Westlock, Immaculata	Wetaskiwin, Community		Willingdon, General	Average

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	Gra	Grants		Donations,	Tax		
	Alberta	Others	Patients' Fees	Cash and Service	Requisi- tions	Sundry	Total
Athabasca, Municipal Banff, Mineral Springs	\$ 2,846.25		\$ 9.712.28	\$ 10.00	\$ 10,225.63	\$ 1,955,88	\$ 24,750.04 53,297.62
, Barrhead Municipal	2,842.20		16,937.30		9,318.15	1,336.01	21,901.93
Bentley, Community Berwyn, Ratepayers' Association of	1,355.85	\$ 254.00	6,958.93	3,047.16	01 020 7	90.0	11,621.00
Bonnyville, K. H. Prittie	1,055.70	150.00	2,712.97	3.230.35	4.959.10	4.191.50	8,235.02
Calgary, General	29,949.75	40,912,67	172,962.93	5,000.00		66.55	248,891.90
Calgary, Holy Cross	33,925.05	3,200.00	265,210.15	24.044.69		1 359 99	326,379.89
	3,245.40	750.00	8,050.02	55.75		977.16	31.418.20
Canmore, Canmore	0 500 05	Open Part	Ye		Open Part	art Year	24 200 56
Carmangay, Little Bow Municipal	1,567.35		8.273.86	2 5.40 88	1,244.34		11,085.55
Castor, Our Lady of the Rosary Cereal, Esler	213.30		1,240 75	00.010.00	00 300	4.85	1,458.90
Claresholm, Municipal Cold Lake, John Neil	2,232.45	2,097.00	8,542.75	17.20	9,425.86	334.24	13,223.64
Coleman, Miners' Union Consort, Municipal	2,155.95		9,859.27		5,799.06		11,392.42
Coronation, General Daysland, Providence	1,323.00	***************************************	6,814.44	54.40		3,719.50	9,490.75
Desmarals, St. Martin's Didsbury, General	748.00	2,902.00	6,620.90	51.30			3,650.00
Drumheller, Municipal Eckville, Medicine Valley Community	11,778.30	325.00	57,477 03	316.00	30,134.00	1,535.93	101,241.26
Edmonton, Beulah Home	3,028.50	900.00	5,234.77	2,641.08		176.61	205,418 20
Misericordia Royal Alayandra	24,222,95	16,700.37	139,838.20	23,000.00			203,761.52
	7,396.20	39,895.00	66,738.45	1,000.00		806.14	74,134.65
	3,615.30	2,500.00	20,651.75	5,040.00	9,941.70	854,59	31,807.05
Empress Cottage Fairview, Community	2,137.05	1.250.00	>	84.80	Dane Down	40.22	9,133.19
Fort Smith, General Fort Vermilion, St. Theresa	565.40	No Report 1.783.00		920.00	No Report		6,330.15

15,586,98 49,403,22 45,822,64 14,402,41 14,526,91 17,712,53 17,772,25 17,772,25 17,772,25 17,772,25 17,772,25 17,772,25 17,772,25 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35 17,772,35	\$3,855,871.64
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24,079-62 No Report 18,705-29 15,372-94 6,539.00 65.22 No Report 11,521.23 12,875.00 4,233.47 Open P No Report 11,572.00 7,954.00	\$ 273,417.58
2,222.45 1,500.00 5,357.85 5,357.85 5,350.00 5,800.00 27,56 6,631.09 1,581.77 28,07 3,540.00 1,193.65 1,440.00 1,440.00	\$ 137,631.45
10,360,66 16,251,28 13,275,56 11,240,11 7,015,11 16,452,15 14,047,45 3,292,15 12,088,80 12,088,80 125,936,51 125,936,51 125,936,51 125,936,50 125,936,50 125,936,50 125,936,50 125,937 172,40 125,937 176,259 176,259 176,259 176,259 176,259 176,259 176,259 176,259 176,259 176,259 176,259 176,259 176,259 176,259 177,218 176,259 177,218 176,259 177,218 176,259 177,218 176,259 177,218 177,218 176,259 177,218 176,259 177,218 176,259 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218 177,218	\$2,726,546.85
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Galahad, St. Joseph's Grande Prairie, Municipal Grande Prairie, Municipal Hanna, Municipal Hardisty, St. Anne's High River, Municipal Innisfall, Municipal Innisfall, Municipal Islay, Municipal Jasper, Seton Killam, General Lacombe and District, Community Lac Bicher, St. Catherine's Lamont, Public Lethbridge, Galt Lethbridge, Isolation Medicine Hat, Isolation Medicine Hat, General Mannville, Municipal Medicine Hat, Isolation Medicine Hat, Isolation Medicine Hat, General Mundare, General Mondare, General Mondare, General Mordegg, General Nordegg, General Necky Mountain House, R.M.H. Smoky Lake, George McDougall Spirit River, Community Spirit River, Community Negreville, General Viking, Municipal	Total

CAPITAL REPAYMENTS, ALBERTA HOSPITALS, 1938

Total	\$ 20,434.82 43,842.65 12,651.00 21,055.98 10,625.11 10,014.13 10,014.13 10,014.13 10,014.13 10,014.13 10,014.13 10,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,014.13 11,0
Other Extra- ordinary Charges	\$ 529.41 46.00 46.00 103.45 103.45 11.70.77 11.393.02 rt Year
Interest	\$ 3.350.00 \$  7.374.82 2.458.28 9.637.20 562.72 Open Part No Report No Report
Principal	\$ 1,220.00 1,892,41 2,668.56 889.51 22,500.00 1,900.00 1,500.00 16,500.00
Other	\$ 1.898.21 1.387.58 1,450.00 1,830.00 1,500.00 1,905.00 1,709.23 1,709.23 1,709.23 1,709.23 1,709.23
Bad	\$ 1,208.23 400.00 1,470.00 55,000.00 55,000.00 1,453.66 1,453.66 1,453.66 1,453.66 1,453.66 1,262.06 1,5157.34 400.00 Open Part
	Athabasca, Municipal Barthead, Barrhead Barshead, Barrhead Barrhead, Barrhead Barsano, Municipal Bentley, Community Bervyn, Ratepayers' Association of Peace Bonnyville, K. H. Prittie Calgary, General Calgary, General Calgary, Junior Red Cross Carnore, Cannore Carnore, Cannore Carnore, Cannore Carnore, Cannore Carnore, Little Bow Municipal Carot, Municipal Carot, Municipal Cold Lake, John Neil Coleman, Miners' Union Consort, Municipal Consort, Municipal Edmonton, General Edmonton, Royal Alexandra

44,520,02 31,787,32 11,930,36 12,538,88 29,885,60 12,641,85 10,124,50 10,1335,55 10,7335,55 12,017,33 12,017,33 12,017,33 12,017,33 12,017,33 12,017,33 12,017,33 12,017,33 12,017,33 12,017,33 12,017,33 13,448,53 14,003,43 14,003,43 14,003,43 16,038,82 17,267 10,038,82 11,662,83 12,67,66 12,167,03 13,267,03 13,267,03 13,267,03 13,267,03 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,2	\$3,623,735.60
Xea	\$ 25,318.54
No Report  1,881.00  1,881.00  No Report  No Report  No Report	\$ 47,519.67
3,200.00	\$ 117,936.59
7,432.09 4,989.72 3,075.61 1,315.19 1,315.19 1,315.19 1,315.19 2,404.90 1,707.07 13,219.39 3,203.06 856.12 4,457.64 380.35 3,112.53 3,112.53 3,112.53 1,129.74 1,129.74 1,780.00 1,780.00 1,508.96 5,32.39 2,709.95 997.65	\$ 115,463.92
866.25 1,000.00 3,520.65 900.25 500.00 15,000.00 16,220.31 6,662.00 1,255.00 6,2145 411.00 19,291.08 310.50 No Report No Report No Report 1,700.00 3,333.54 Open Part No Report 1,700.00 6,500.00 6,500.00 6,500.00 6,500.00 1,46.50	\$ 249,585.49
Grande Prairie, Municipal Grimshaw, Battle River Hanna, Municipal Hardlisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal Innisfail, Municipal Islay, Municipal Islamont, Public Lethbridge, Galt Lethbridge, Galt Lethbridge, Islant Lethbridge, Islant Macleod, General Mannville, Municipal Mannville, Municipal Mundare, General Mundare, General Mundare, General Mundare, General Municipal Nordege, General Nordege, General Nordege, General Nordege, General Municipal St. Paul's St. Municipal Vermilion, Municipal Wainwright, Municipal Wainwright, Municipal Wayne, General	

# Division of Social Hygiene

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

We have continued in our efforts to prevent clinical manifestations of neurosyphilis and cardiovascular syphilis by the proper treatment of the disease in its early stages. Altogether, 56 patients with asymptomatic neurosyphilis were treated with malaria pyrexia therapy. Several hundred of such patients have now been treated by the Division with malaria pyrexia therapy, and it is significant that since we started this method of treatment, fifteen years ago, not one single patient so treated has subsequently developed asymptomatic neurosyphilis.

The treatment of gonorrhoea with sulfanilamide has continued to give the brilliant results which we reported last year.

Our educational programme has been greatly increased during the year. New films have been purchased, and our lecturer is constantly engaged addressing meetings throughout the Province. The Department of Education has introduced, for Grade X in our schools throughout the Province, a Health Educational Course on Social Diseases.

The problem of treating venereal disease in indigent persons in rural districts has received our closest attention. Supplies of drugs for the treatment of more than 200 such patients were distributed during the year to some 75 physicians. The question of secrecy of treatment in rural districts is a difficult one, it usually being necessary for the physician to communicate with the secretary-treasurer of the municipality of which the patient is a resident in order to arrange for his fee for administering the drugs with which we have provided him. This may in some cases lead to undesirable publicity, but no specific instance of such an occurrence has been brought to our attention.

Recently acquired syphilis has almost disappeared. The percentage of syphilis in our gaol population has reached the lowest on record, 3.5% of all admissions. This is to be compared with 16% which prevailed when the work of the Division was instituted 20 years ago; and there is reason to believe that this reduction in the incidence of syphilis is paralleled in the general population of the Province.

I wish to express my appreciation of the valuable co-operation we have had from the Royal Canadian Mounted Police. They have assisted us very materially in carrying on the work of this Division.

The following figures indicate the work done in the various clinics during the year:

#### PROVINCIAL CLINIC, 9912 103rd Avenue, Edmonton CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENTS

		Males		I	emale	es	
Coming forward from 1007.	0-12 yrs.		Over 20 yrs.	0-12 yrs.		Over 20 yrs.	Totals
Carried forward from 1937: : : : Syphilis Gonorrhoea	1	****	117 18	4	****	66 36	184 58
New cases admitted in 1938:							242
Syphilis	1	2	65	1	2	20	91
Gonorrhoea Non-Venereal		13 9	371 173	1 2	12 47	74 118	91 471 349
Total cases treated	2	24	744	8	61	314	1153
	N	fales-	-770	Fer	nales-	-383	

Number and results of Wassermann tests: 2,263 tests, of which 598 were positive. Number and results of Cerebrospinal fluid tests: 85 tests, of which 23 were positive.

# PROVINCIAL CLINIC, 713 3rd Street East, Calgary CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENTS

		Male	s	1	emale	es	
2	0-12 yrs.		Over 20 yrs.			Over 20 yrs.	Totals
Carried forward from 1937: Syphilis	2	1	126		. 4	72	205
Gonorrhoea		1	117	****	12	31	161
New cases admitted in 1938:							366
Syphilis		4000	67	1	2	30	100
Gonorrhoea	1	18	271	6	22		380
Non-Venereal	4	10	276	1	35	62 88	414
Total cases treated	7	30	857	8	75	283	1260
	N	Tales-	-894	Fer	males-	-366	

Number and results of Wassermann tests: 1,815 tests, of which 314 were positive. Number and results of Cerebrospinal fluid tests: 89 tests, of which 17 were positive.

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

		Male	S	1	Female	es	
	0-12 yrs.		Over 20 yrs.	0-12 yrs.		Over 20 yrs.	Totals
Carried forward from 1937: Syphilis	1	****	48		1	7	57
Gonorrhoea	.,		1	****	****	****	1
Chancroid	****	1110	1			****	59
New cases admitted in 1938: Syphilis Gonorrhoea			15 19	****	2	4 2	21 22 28
Non-Venereal	1101	1	28	1010	1101		28
Total cases treated	1		112		4	13	130
	N	Tales-	-113	Fe	males	-17	

Number and results of Wassermann tests: 323 tests, of which 48 were positive. Number and results of Cerebrospinal fluid tests: 8 tests, of which 1 was positive.

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

		Male	S	1	Femal	es	
Carried forward from 1937:	0-12 yrs.		Over 20 yrs.	0-12 yrs.		Over 20 yrs.	Totals
Syphilis Gonorrhoea	****		4 2	1	1	4	10 2
New cases admitted in 1938: Syphilis			5				12
Gonorrhoea Non-Venereal	1	****	11	3		1	11 6
Total cases treated	2		22	4	1	5	34
	N	Iales-	-24	Fer	nales-	-10	

Number and results of Wassermann tests: 78 tests, of which 23 were positive. Number and results of Cerebrospinal fluid tests: Nil.

#### PROVINCIAL GAOL, Fort Saskatchewan

CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENTS

	Mal	es	Fem	nales	
Carried forward from 1937: Syphilis Gonorrhoea	12-20 yrs.	Over 20 yrs 8	12-20 yrs.	Over 20 yrs. 4 1	Total 12 1
New cases admitted in 1938: Syphilis Gonorrhoea	1	23 41	3	23 26	13 47 70
Total cases treated	1	72	3	54	130
Total number of admissions examined:	Femal Males	les		170 1,182	
Total				1,352	

Number and results of Wassermann tests: 1,393 tests, of which 80 were positive. Number and results of Cerebrospinal fluid tests: 10 tests, of which 2 were positive.

# PROVINCIAL GAOL, Lethbridge

CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENTS

All patients Male, over 20 years of age:	Syphilis	Gonorrhoea	Totals
Carried forward from 1937 New cases during 1938	12 9	4 27	16 36
Total cases treated	21	31	52

Number and results of Wassermann tests: 451 tests, of which 87 were positive. Number and results of Cerebrospinal fluid tests: 7 tests, of which 4 were positive.

# CASES REPORTED BY PHYSICIANS IN THE PROVINCE

Sex	Syphilis	Gonorrhoea	Totals
Male	119	84	203
Female	59	16	75
Totals	178	100	278

#### RECAPITULATION

Of patients treated by the staff of the Division of Social Hygiene during the year 1938:

Sex:	Syphilis.	Gonorrhoea.	Chancroid.	Non Venereal.	Totals.
Male Female	508 245	915 293	1	502 295	1926 833
Totals		1208	1	797	2759
Total number of cases of ve	enereal dis	ease-1,962.			

# Sanitary Engineering Division

(D. B. Menzies, S.M., C.E., Provincial Sanitary Engineer)

During the year 1938, the following certificates were issued in connection with Sewerage and Waterworks Construction as required under Sections 10 to 15 (inclusive) of The Public Health Act:

City of Drumheller, Certificate No. 404-38—Construction of new well

with accompanying piping. Estimated Cost, \$14,520.00.

2. City of Red Deer, Certificate No. 407-38—Sewerage Extensions. Estimated Cost, \$13,882.05.
3. Royalite Oil Co., Certificate No. 408-38—Sewage Disposal System.

- 4. British American Oil Co., Ltd., Certificate No. 410-38-Water and Sewerage Construction in connection with the new Refinery at Calgary. Estimated Cost, \$50,000.00.
- Town of Stettler, Certificate No. 411-38—Waterworks Main Reconstruc-tion. Estimated Cost, \$7,079.00.
- 6. Town of Hanna, Certificate No. 412-38-Waterworks and Sewerage Construction. Estimated Cost, \$99,428.00.
- City of Calgary, Certificate No. 413-38—Waterworks and Sewer Services. Estimated Cost, \$10,000.00.
- 8. City of Lethbridge, Certificate No. 414-38-Water Main Renewals. Estimated Cost, \$100,000.00.

The following Certificates of Approval were granted in connection with the construction of hospitals in various parts of the Province as required by Regulation 3a under The Hospitals Act.

Fairview Community Hospital, Certificate No. 405-38—New Hospital Building. Estimated Cost, \$21,000.00.
 Oil and Gas Association, Turner Valley, Certificate No. 406-38—New Emergency Hospital Estimated Cost, \$7,000.00.
 Sisters of Providence Hospital, High Prairie, Certificate No. 409-38—

Hospital Addition. Estimated Cost, \$8,000.00.

The following results were obtained from analyses of waters obtained from various municipalities in the Province which have public municipal water systems. The samples in question were obtained from taps on the different systems:

Municipality.	No. of Tests	Positive (confirmed)	Negative
Athabasca Brooks	1 5	2	1 3
Camrose	4		4
Coleman	3	2400	3
Lacombe	3		3
Magrath	1		1
Macleod	1		1
Medicine Hat	43	2	41
Redcliff	2	1	1
Taber	5	3	2
Turner Valley	5		5
Wetaskiwin	21		21

As a result of the tests made at Taber as indicated above, and also because of similar unsatisfactory results obtained in previous years, the Taber Local Board has been urged to install a hypochlorinating machine, which installation will be made early in 1939. There are still a number of municipalities throughout the Province still using raw surface waters, and efforts are being made to induce the Local Boards concerned to install chlorinating equipment in their respective systems.

There were no Typhoid or Paratyphoid cases during the year attributable to contaminated public water or milk supplies.

Reports of analyses made at the Provincial Laboratory were received by the Division, and an effort was made to give advice on all matters requiring immediate attention.

The Division received 129 complaints and requests from different municipalities throughout the Province with respect to sanitary matters, all of which were investigated.

Information in connection with requests received from municipalities and individuals for engineering advice along the lines of water supply, sewage disposal, ventilation, etc., was provided in all cases. Plans dealing with well construction, milk houses and dairy barns, septic tanks and systems of sewage disposal were provided where requested. Persons writing for information as to the different methods of disinfestation and fumigation were provided with details in connection with this phase of sanitation.

During the year the following new regulations were passed by the Provincial Board of Health:

- 1. Contagious Disease Regulations were amended by O.C. 533-38.
- 2. The Regulations re Embalmers were amended by O.C. 694-38.
- 3. The Regulations re Food and Drink were amended by O.C. 6-38.
- 4. Regulations re Plumbing and Drainage came into effect by O.C. 159-38.
- Regulations re Industrial and Construction Camps came into effect by O.C. 4-38.
- The Regulations re Nuisances and General Sanitation were amended by O.C. 5-38 and by O.C. 862-38
- 7. The Regulations re Permits, etc., were amended by O.C. 40-38.
- 8. Regulations re Restaurants came into effect by O.C. 1123-38.
- Regulations re Funerals and Interment of the Dead came into effect by O.C. 1124-38.

During the year the following plumbing fixtures were installed throughout the Province under inspection of either the Local Board or the Provincial Board of Health: Water closets, 1,376; baths, 815; lavatory basins, 1,276; wash tubs, 34; sinks, 1,133; special fixtures, 146.

The installation of the above water closets had the effect of removing 313 outside toilets, a very desirable feature. Total fees paid for plumbing inspection throughout the Province amounted to \$2,748.50, of which \$883.50 was paid for Provincial inspection and the remainder for local inspection.

The staff of the Division, at the conclusion of the year 1938, consisted of a sanitary engineer, a full time sanitary inspector, a full time plumbing inspector, and one stenographer. The policy of the Division for the coming year will be to provide inspections for those municipalities making specific requests, and every effort will be made to assist all residents of the Province in any way possible.

# Dental Hygiene Division

(Herbert Ross, D.D.S.)

Dental service was provided in 1938 for the following institutions: The Provincial Mental Institute, Oliver; The Provincial Training School, Red Deer; and the Sanatoria. The term "Sanatoria" includes the Central Alberta Sanatorium of Calgary, and the Tuberculosis wards of the University Hospital, the Royal Alexandra Hospital, and the General Hospital, all in Edmonton.

There is a full time dentist employed at the Provincial Mental Hospital at Ponoka, and care is also given by this dentist to the patients at the Provincial Auxiliary Hospital at Claresholm and the Provincial Auxiliary Hospital at Raymond.

During the summer months the Provincial Dentist was again a member of the staff of the Travelling Clinic, and a large amount of dental work was done. Dentistry has been an important part of the work of this clinic since it began operations in 1924.

A full report of the dental work done during the year will be found in the report of the Division of Public Health Nursing, and in the report of the various institutions.

Radio talks on dental hygiene were given over CKUA by Dr. H. A. Gilchrist of the University of Alberta.

# Mental Health Division

Separate reports are submitted for each Branch of this Division:

Eugenics Board,

Mental Health Clinics,

Provincial Mental Hospital, Ponoka, including Provincial

Auxiliary Hospital at Claresholm,

Provincial Mental Institute, Edmonton,

Provincial Training School, Red Deer.

The institutional population again shows a definite increase. On January 1st, 1938, this stood at 2,550 (males 1,629, females 921), and on December 31st, 1938, at 2,646 (males 1,681, females 965), an increase of 96—males 52, females 44.

From the time the first Provincial Mental Hospital was opened in 1911 there has been a steady increase in population of from 4% to 8% annually over the preceding year, which means on an average a progressive absolute increase in numbers each year. The increase was 4% during 1938.

During the same period the ratio of hospitalized mental patients to population has shown a steady increase from 156 per 100,000 in 1921 to 340 in 1938. While this is serious and should inspire serious thought with respect to prevention, it need not cause undue alarm, as even yet Alberta stands second lowest in this respect among the Provinces of Canada. This latter fact suggests that further increases may be expected, there being no reason to suppose that Alberta is in reality more favoured than the majority of other provinces with respect to the incidence of mental diseases and mental defect.

Admission rates as well as residence rates have risen in recent years. In 1938 there were 899 admissions to all mental institutions, as compared with 747 in 1937. The rise in admission rates during recent years is due in part to the greater number of early, mild and temporary cases seeking such assistance as the mental hospitals are able to provide, as shown by the rising proportion of voluntary admissions; and in part to the greater number of mental defectives who are being forced into the institution for one reason or another. Largely on account of this last group, the acceleration in discharges is not keeping pace with the acceleration in admissions.

At the Provincial Mental Hospital at Ponoka there were 620 admissions, 663 discharges, and 104 deaths, being a decrease in the population of 119 patients. No additional accommodation was provided during the year, and the overcrowding of recent years was maintained. It has been necessary to take advantage of every possible opportunity to discharge patients. Notwithstanding the temporary decrease this year, there is an annual increase of approximately 125 patients.

The ratio of staff to the patient population is below the accepted standard, and this condition interferes with adequate supervision and treatment. The reception wards have been kept free from overcrowding in an effort to facilitate recovery in new cases.

The congestion in the hospital as a whole might be relieved to some extent if adequate provision were made for the care of mental defectives and senile cases elsewhere. Many of the senile cases might be cared for in reliable homes if some compensation were granted those looking after such cases.

The medical staff is not sufficiently large to give the individual care which is desired in the treatment of mental cases. Efforts are being made to train both the nursing and attendant staffs, and this takes up a considerable amount of the time of the medical officers.

Similar overcrowding conditions prevail at the Provincial Training School at Red Deer. Reference has already been made to the accumulation of mental defectives at Ponoka, for the want of room in other institutions. Many of the patients at Red Deer who have been there for many years are moving into older age groups, and thus constituting further problems.

The addition of the new building at Oliver has done much to relieve the immediate pressure at Ponoka, but there will have to be

further expansion in the near future.

The facilities provided by the Psychopathic Ward at the University Hospital, which was closed in 1933, continue to be greatly missed, both as a suitable centre for the observation and treatment of mild borderline and doubtful cases and as a teaching centre.

Mental Health Clinics were held in Edmonton, Calgary, Lethbridge, Medicine Hat, Drumheller, High River, Ponoka, Lamont and Vermilion, and numerous places in the Peace River district. The examinations were carried out either by the Medical Superintendent or one of the medical officers on the staff of the Provincial Mental Hospital. A great variety of cases were examined, and some follow-up work was done on the cases discharged from the various mental institutions as well as some of the eugenic cases. The clinics continue to be of great service to the medical profession and to the public at large, and are of undoubted economic value to the Province. This is a type of work that should be greatly extended.

The report of the Eugenics Board shows that a total of 168 cases were presented to and passed by the Board in 1938, and 63 oper-

ations were performed.

Radio talks over CKUA were given during the year by various members of the institutional staff on subjects relating to mental health.

Attention must again be directed to the splendid work that is being done by the superintendents of the service and members of their respective staffs.

# TABULATED SUMMARY A.—INSTITUTIONS—MOVEMENT OF PATIENTS

Institutions	In R	eside	nce 38	Ad	missi 1938		Dis	char 193			eat 193	8	De	c. 31	
Oliver Ponoka Red Deer Claresholm	M, 552 965 112	F. 720 103 98	T. 552 1685 215 98	M. 258 347 9	F. 273 5 6	T. 259 620 14 6	M. 14 451 6	F. 184 4 4	T. 14 635 10 4	M. 28 60 4	F. 44 1 3	T. 28 104 5 3		765 103 97	769
Total	1629	921	2550	615	284	899	471	192	663	92	48	140	1681	965	2646

# DEPARTMENT OF PUBLIC HEALTH

# ADMISSIONS-BROAD DIAGNOSTIC DIVISION

	Psychotic				Not	tie		entally ficient		Totals		ls
	M.	F	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Oliver	214		214	30		30	15		15	259		259
Ponoka	275	220	495	50	29	79	22	24	46	347	273	620
Red Deer	****						9	5	14	9	5	14
Claresholm	1000	6	6								6	6
	-	-	-		-	-	-	-	-	-	-	-
Total	489	226	715	80	29	109	46	29	75	615	284	899

# B.-CLINIC SUMMARY

		1937			Total		
	Clinics	New F Cases	'ellow- ups	Clinics	New Cases	Follow- ups	New cases since 1929
Edmonton	40	80	150	41	57	136	964
Calgary	20	66	237	20	79	340	922
Lethbridge	10	47	52	11	49	64	509
Medicine Hat		46	25	- 4	54	42	364
Drumheller	3 3	22	21	4	21	20	90
Gr. Prairie-Peace River	14	118	15	9	110	19	426
High River	4	23	8	6	16	11	39
Lamont				1	10	****	10
Vermilion				1	10		10
Other	- 5	14	5				14
			-			_	-
Total	99	416	513	97	406	632	3348

# The Eugenics Board for the Province of Alberta

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

The Eugenics Board held six regular meetings during 1938. Five sessions were held at the Provincial Mental Hospital, Ponoka, and one at the University Hospital, Edmonton. The meetings were held in February, April, July, October and December, and were attended by all of the Board members. Mrs. E. C. Pardee, of Edmonton, resigned following the April meeting of the Board, after being a member for over a year. Mrs. W. H. Field was reappointed to fill the vacancy. The Board feels that it was fortunate in having had the very efficient service of Mrs. Pardee, and also in again having Mrs. Field as a member, now that her health has improved.

The Board considered and passed a total of 168 cases during 1938—84 male and 84 female. This brings the total number of cases presented and passed, to the end of 1938, to 1,283—644 male and 639 female. During the year 63 operations for sterilization were performed at the direction of the Board, 26 male and 37 female cases. This brings the total number of cases operated on to 643—245 male and 398 female. All of the operations during the year were performed by Dr. L. C. Conn and Dr. Robert O'Callaghan, surgical consultants to the Mental Hospital service, assisted by the medical, nursing and attendant staffs of the Provincial Mental Hospital, Ponoka. The Board wishes to commend the very efficient way in which all of the operative cases were handled.

The Board is pleased to note that an additional social worker, Miss Ruth Hughes, B.A., was added to the clinic personnel in the summer of 1938. The Board members feel, however, that if adequate follow-up and contact work is to be developed further additions to the staff for clinic and Eugenics Board work are necessary. These phases of the work continue to be far too limited and unsatisfactory.

The Eugenics Board members acted as a Visiting Board in October, 1938, at the request of Hon. Dr. W. W. Cross, Minister of Health. The Provincial Mental Hospital, Ponoka, the Provincial Mental Institute, Oliver, the Provincial Training School, Red Deer, the Provincial Auxiliary Hospital, Claresholm, and the Central Alberta Sanatorium at Robertson were visited and inspected. A full report on the Board's findings was prepared and forwarded to the Minister of Health.

Mr. E. J. Kibblewhite was appointed as permanent secretary to the Eugenics Board at the October meeting. He had been acting secretary for more than a year.

There is appended a summary of the Board's work to the end of 1938; also a brief analysis of the cases that have been sterilized.

# TOTAL NUMBER OF CASES OPERATED ON TO DECEMBER 31st, 1938

Total number of cases Total Male cases Total Female cases		245	(38.1%) (61.9%)
			643
Psychotic Group— Schizophrenia Manic-Depressive Epileptic Organic Types and G.P.I.	Number 109 45 17 13	Per cent of Group 59.3 24.4 9.2 7.1	Per cent of Total 17 7 2.6 2
Totals	184	100	28.6
Defective Group— Mental Deficiency Mental Deficiency with Psychosis Mental Deficiency with Epilepsy	309 76 35	73.5 18.1 8.4	48 11.8 5.6
Totals  Other Types and Undiagnosed Psychosis	420 39	100 100	65.4 6
Grand Totals	643	100	100

# CASES PRESENTED AND PASSED TO DECEMBER 31st, 1938

		,	early Tota	als		Cumulative Total	s
		Male	Female	Totals	Male	Female	Totals
1929		1	3	4	1	3	4
1930	************	6	36	42	7	39	46
1931		25	63	88	32	102	134
1932		20	43	63	52	145	197
1933		35	56	91	87	201	288
1934		132	82	214	219	283	502
1935		123	97	220	342	380	722
1936		103	88	191	445	468	913
1937		115	87	202	560	555	1115
1938		84	84	168	644	639	1283

#### OPERATIONS ONLY, TO DECEMBER 31st, 1938

	3	early Total	als		Cumulative Total	s
	Male	Female	Totals	Male	Female	Totals
1929	1	2	3	1	2	3
1930	6	30	36	7	32	39
1931	13	51	64	20	83	103
1932	15	34	49	35	117	152
1933	13	41	54	48	158	206
1934	46	59	105	94	217	311
1935	33	54	87	127	268	398
1936	35	42	77	162	313	475
1937	57	48	105	219	361	580
1938	26	37	63	245	398	643

# Mental Hygiene Clinics

(R. R. MacLean, M.D., Director)

The Mental Hygiene Clinic work in Alberta was carried on regularly throughout the year 1938. The clinics already established were continued and new centres were established in connection with the full-time Health Unit at Lamont, and in Vermilion. During 1937 one clinic was held at Coleman. This was in the nature of a special clinic. Coleman was not visited during 1938. The clinic started at the Provincial Mental Hospital during 1937 was not well patronized. It was discontinued during the latter months of 1937, and was not revived in 1938. At all of the other clinics the work has gone along satisfactorily, and interest in the communities served has been maintained or increased. The annual series of clinics was held in the Peace River area during September. These were well received, especially in the McLennan district.

One social worker, Miss Ruth Hughes, was added to the personnel early in the summer of 1938. Miss Hughes is a graduate of the University of Alberta, and before her appointment as a social worker had experience at the Provincial Training School and also at the Provincial Mental Hospital. She is stationed at present in Calgary, where she is doing excellent work in connection with the clinic service there. The clinic service throughout the Province is still suffering from lack of personnel, and it is hoped that it will be possible to make further additions to the staff at an early date. It would seem particularly desirable to have a social worker with headquarters in Edmonton to assist in looking after the clinic work there and in the immediate surrounding district.

The work during the year has been under the supervision of Dr. Randall R. MacLean, Director of Mental Hygiene Clinics. Dr. MacLean has taken a very personal interest in the clinic activities, and has been in charge of approximately half of them. He has been assisted by Dr. W. J. McAlister, Superintendent of the Provincial Mental Institute, who has been in charge of the clinic activities in Edmonton, Dr. T. C. Michie, Assistant Superintendent of the Provincial Mental Hospital, Dr. M. Carnat, Medical Officer in charge of the Provincial Auxiliary Hospital at Claresholm, Dr. R. K. Thomson and Dr. A. R. Schrag, of the Provincial Mental Hospital staff. It may be noted that Dr. R. K. Thomson resigned from the Hospital staff during the summer of 1938 to go into private practice in Edmonton. The clinic work, as noted in the last annual report, has reached the point where it might well be under the direct charge of an especially appointed physician. There are times when it is difficult for one of the staff physicians at the Provincial Mental Hospital to get away for the clinics. It is recognized, however, that the clinics are a very important part of the work in the Mental Hygiene field in the Province, and they have been kept running on schedule despite the additional stress that this has occasioned the hospital medical staff.

There are still districts in the Province that would benefit by the clinic services were it possible to establish additional centres. Until more personnel is available, it will be very difficult to further extend the clinic activities. Field investigations and social service work in connection with hospital patients and ex-patients has been at a minimum, as has been the case for several years. The present staff of social workers allows only the most urgent field trips to be made, and in very few cases is it possible to do follow-up and social service work with ex-hospital patients outside of the immediate centres in which clinics are established.

During 1938 the clinics throughout the Province prepared a number of cases for presentation to the Eugenics Board. Again there seems little doubt that additional outside cases could be presented to the Board were it possible to spend more time in follow-up and investigational work.

A brief summary of the work done at the respective clinic centres follows:

Edmonton.

Dr. W. J. McAlister, Superintendent of the Provincial Mental Institute, was in charge of the actual clinics in this centre during 1938. Forty-one clinics were held as compared with forty in 1937. Fifty-seven new cases were dealt with and 136 follow-ups made. This shows some decrease over the clinic load in 1937. There is no doubt that the work in connection with the Edmonton clinic could be materially increased under more favourable conditions as to personnel. In May of 1938 the Baby Clinic moved into the quarters prepared at 10182 100th Street. The Mental Hygiene Clinic is using the same accommodation, and finds it much more satisfactory than the previous clinic quarters. The clinic has appreciated the help given it by the City Health Department under the Medical Health Officer and by Miss Chisholm of the City Health staff, who has assisted regularly at the clinics. Miss Emerson, Public Health nurse in charge of the Baby Clinic, and Miss Christianson, of the City Health and Baby Clinic services, have assisted in every way possible.

Calgary.

The Calgary Clinic carried on very successfully during 1938. Twenty clinics were held, which is the same number as those held in 1937. Seventy-nine new cases were dealt with, which is an increase of 13 cases over the new cases seen in 1937. Follow-ups numbering 340, and interviews in connection with hospital cases, were made, which is an increase of 103 over the corresponding figures for 1937. The clinic service in this centre has already benefited from the work of Miss Hughes who, as previously noted, is stationed with headquarters in Calgary. Dr. R. R. MacLean, Director of Clinics, or Dr. T. C. Michie, Assistant Superintendent of the Provincial Mental Hospital, was in attendance at all but three of the clinics held in Calgary. Dr. R. K. Thomson was in charge at one of these three clinics, and Dr. M. Carnat at the other two. The clinic continued to be held every other Wednesday in the City Hall. Miss Lavell, Public Health nurse, and Miss Craig, of the Pre-school and Baby Clinic service, have been most helpful as in previous years. Miss Hughes has a permanent office in the City Hall, on the same floor as the clinic rooms. This was supplied through Dr. W. H. Hill, Medical Health Officer. The clinic service appreciates very much the kindness of the City Health Department in supplying accommodation and in assisting with the general clinic work.

Lethbridge.

The Lethbridge Clinic carried on regularly during the year. There were 11 clinics as compared with 10 in 1937. There were 49 new cases dealt with, an increase of 2 over the previous year. There was some increase in the number of follow-ups, which brought the total clinic load to 113, as compared with 99 in 1937. The clinic continued to be held every fourth Friday in the Nursing Mission. Miss Tilley, who is in charge of the Mission, gave very able assistance throughout the year. Her help and her interest in the clinic work is very much appreciated. Dr. R. R. MacLean was in charge of 5 of the clinics held, Dr. T. C. Michie of 3, Dr. M. Carnat of 2, and Dr. R. K. Thomson of 1.

Medicine Hat.

Four two-day clinics were held in Medicine Hat as compared with 3 held in 1937. There were 54 new cases dealt with, an increase of 8 over those seen in the previous year. There was also an increase of 17 in the number of follow-ups, bringing the total clinic load to 96, as compared with 71 in 1937. The same general procedure was observed as in previous years, that is, the first day of the clinic was spent in the General Hospital examining cases referred by resident physicians, and the second day was spent in the schools examining cases referred by the school authorities. Miss Hagerman, Public Health nurse, has been very helpful in arranging clinics, in looking after the appointment list for cases to be seen at the General Hospital and in assisting at the clinics themselves. Miss Smith, of the School Health service, has assisted at each of the clinics held in the schools, and has given valued help. It may be of interest to note that one clinic during the year was given over almost entirely to doing follow-up work on cases already seen. This seemed quite a beneficial procedure, and might with advantage be adopted as a regular practice. One day of the clinic held in October was spent at Redcliff School at the request of the school authorities. The clinic at Redcliff was quite a successful one, and we have been asked to hold another clinic there in the near future. Dr. R. R. MacLean was in charge of two of the clinics held, and Dr. T. C. Michie of the other two.

Drumheller.

The Drumheller Clinic was held regularly during the year, approximately every three months. Four clinics were held and 21 new cases dealt with. This is essentially the same clinic load as handled in 1937, when 22 cases were seen. There were 20 follow-ups made during the year. This is the first year that clinics have been held at regular intervals at this centre. We have found the regular schedule to be of considerable advantage. Clinics are held in the offices of Miss Jones, Public Health nurse. Miss Jones has been of great assistance to us, and the success of the clinics there has been due in large measure to her active interest in the clinic

programme. Dr. R. R. MacLean was in charge of three of the four clinics, and Dr. M. Carnat of the other one.

Grande Prairie-Peace River.

The annual trip into the Grande Prairie-Peace River district was made in September of 1938. It was possible for the social worker to go into the district a week before the clinics, and during this time various contacts were made and a number of cases seen in preparation for the clinics later. This general procedure would seem to be a desirable one, but because of the amount of territory to be covered in the limited time available, it was not as beneficial, probably, as it might otherwise have been. On the trip this year the clinic did not visit the Grande Prairie area at all. New centres were touched in the Peace River and McLennan districts. In some of the districts visited there was some misunderstanding as to the nature of the service offered, and some individuals were disappointed because of this. On the whole, the clinic was well received. It is felt that as the purpose of the clinic becomes more generally known throughout the area it will become more useful. General co-operation with the clinic was good, but special mention is due Mr. G. W. Gillies, Inspector of Schools at Peace River, and Mr. E. C. Stehelin, Inspector of Schools at McLennan, for the help and assistance which they gave in arranging the clinics at suitable centres. There is no doubt that the clinic could be of even greater assistance in the handling of suitable school cases were it possible to do some missionary work, and to have clinics at more of the outlying districts after the preliminary survey had been done. This year clinics were held at Peace River, North Star, Notikewin, Berwyn, and Fairview. In addition, some cases which were not able to get into the clinic for a complete examination were seen and tested at their own schools by the advance worker. In the McLennan area clinics were held at Donnelly, Falher, McLennan and High Prairie. There were very busy clinics at each of these points. At Donnelly and Falher, cases had to be turned away. There was a special request for a clinic at Girouxville, which we were not able to hold this year. It is the intention to spend the major part of the time available for the Grande Prairie-Peace River area in the Grande Prairie district in 1939. The clinics during the trip this year were in charge of Dr. R. R. MacLean, Director of Clinics. In all, nine clinics were held and 110 new cases examined. This number includes 43 school cases which were given group tests, but were not given a complete clinical examination. The clinic load in 1938 was essentially the same as that in 1937, when 118 new cases were seen.

High River.

There were six clinics held at High River during the year. The clinics in each case were held in the offices of the Full-time Health Unit. The clinic is much indebted to Dr. Somerville and his staff for their assistance in arranging the appointments, and for their kindness in allowing us to use their quarters. Many of the appointments for clinics were cases in the country a considerable distance from High River. Not all of these appointments were kept, due to weather and other conditions, which cut down the number of new cases seen. The condition is one that cannot be overcome entirely. It may be, however, that in the

future satisfactory arrangements might be made to hold clinics at other points in the Full-time Health Unit district. Sixteen new cases were seen and 11 follow-ups were made, making a clinic load of 27 for the year. This is slightly below that of 1937. Clinics in High River are held approximately every eight weeks, on the Thursday falling between the clinic in Calgary and that in Lethbridge. No additional travelling is entailed in so far as these regular clinics are concerned. Dr. R. R. MacLean or Dr. T. C. Michie was in charge of the clinics held. It would seem advisable, if satisfactory arrangements could be made, to have one of the social workers spend some time in the district in follow-up and investigational work. This might be done from Calgary if the social worker there had a car available for her use.

# Lamont.

Following a preliminary visit in October, the first clinic in Lamont was held on the 25th of November, in the offices of the recently established Full-time Health Unit. Dr. H. Siemens and his staff gave the clinic a fine reception, and were most helpful in arranging appointments and in assisting during the clinic examinations. Ten new cases were examined. Most of these were backward school pupils brought in from the district surrounding Lamont, through the efforts of Dr. Siemens and his staff. The majority of the cases seen proved to be mentally deficient. It is planned to hold regular clinics at Lamont approximately every three months. Dr. R. R. MacLean was in charge of the November clinic.

### Vermilion.

The first clinic was held in Vermilion on November 24th. A preliminary survey had been made previous to this, and the physicians and the others seen in the town expressed approval of the project. Accommodation was secured in the Canadian Legion Hall. It is centrally located in the town. This may prove to be a temporary arrangement. Ten new cases were seen, several of these were referred by the school authorities and several by the parents. One case was brought in more than 20 miles by the teacher of one of the rural schools. The general situation in Vermilion is slightly different from that in the other centres. There is no Full-time Health Unit and no Public Health nurse stationed there. The municipal hospital is more than half a mile from the town, which does not make it readily available. It is filled to capacity most of the time. The clinic feels particularly indebted to Mr. H. P. Long, the town secretary, who aided materially in arranging for the clinic and its accommodation. He has kindly consented to take charge of the appointment list. Dr. R. R. MacLean was in charge of the first clinic. The initial clinics at Lamont and Vermilion were very encouraging both from the standpoint of the reception given by the community authorities and from the number of cases presenting themselves for examination.

There are several particularly urgent problems which the work of the clinics continues to emphasize, one is provision for additional accommodation and facilities for the care and training of mentally deficient children. The present accommodation at the Training School in Red Deer is entirely inadequate. When one considers that during each year there are approximately 100 clinics

held, and that there is scarcely a clinic at which one or more previously unexamined mental defectives are seen, some indication of the urgency of the situation is given. In addition, there are many cases throughout the Province that are not examined and that do not come to our attention until the defective individual gets into some serious trouble. When serious trouble comes, all too often, the individual is sent to gaol or admitted to the Provincial Mental Hospital or the Provincial Mental Institute for more or less permanent custodial care. Neither of these mental institutions is suitable for the permanent care of mental defectives, and they have practically no suitable training facilities available. As a result, the defective patients do not get the training which might make them more or less capable of taking their places within the normal community life.

Another type of case which is not receiving adequate consideration is that of the young delinquent who rates above the mental defective level, but below the normal. A surprising number of 'teen-age delinquents fall into this category. They are deserving of special treatment, and are capable of showing greater returns for such training than the defective group. Provision should be made either by the Government or under Government supervision for special care of this group of boys and girls who fail to adjust satisfactorily. A possible solution would be the setting up of disciplinary institutions where these offenders might be placed for a period of training, and where facilities are provided for giving the type of training the case requires. This would cost less in the long run than keeping them in gaol for most of their lives after they have reached adult status, or of having them drift about the country, constant misfits in our economic and social life.

SUMMARY OF NEW CASES EXAMINED AND FOLLOW-UP WORK TABLE 1 1957

							Thatal	Total	
	No of	Now	Follow-un	Case Load	No of	New	Case	New Cases	
Dlaga	Clinico	Casas	Intervious	Total	Clinice	Cases	Load	Since 1929	
FIRCE	CHILLES	CHISCS	THE MENS	10191	CHILING	Caore	Thomas and	Company of the same	
Edmonton	OF.	80	150	230	4.1	57	193	964	
Editoritori	0.6	00	OCT	CONTRACT	***		400		
Calgary	20	99	237	303	20	79	419	922	
Lathbridge	10	47	525	66	111	49	113	209	
	0.0		I a			2.2	00	964	
Medicine Hat	20	46	2	17	*	50	30	200	
Drumheller	60	22	21	43	7	21	41	90	
Grande Prairie-Deace River	14	118	15	133	6	110*	129	426	
High River	4	56	00	31	9	16	27	39	
Tomont		2			-	10	10	10	
Varmillon					-	10	10	10	
Vertification of the second of			. 1					**	
Other Clinics	0	14	0	FI				14	
	1	-	1	1	1		1		
Total	66	416	513	929	97	406	1038	3348	

NOTE: The follow-ups and interviews given here include clinic interviews on provincial mental institution cases.

The clinics held in Medicine Hat were two-day clinics in each case.

\*This group includes two school groups, or forty-three, who were given group intelligence tests. These were not examined by the clinic physician.

AGE AND SEX CLASSIFICATION OF NEW CLINIC CASES, 1938 TABLE 2

	50		0	-	03	10	6	-	01	7	li C	9		1	
	age	H													.0
	cent	[iii	3.2	15.5	33.1	19.3	5.3	6.9	55.53	1.6	2.7	2.1	4.8		1000
	Per	M.	2.7	2.8	1.5	4.2	8.2	2.7	1.4	1.8	2.3	3.5	4.1		
				67	62	-									
	99	F.	12	90	131	67	28	13	13	-	10	11	18	1	905
	Cota	Œ,	9	53	622	36	10	13	10	60	מו	+	6		187
	-	M. F. T.	9	61	69	31	18	9	00	4	NO.	7	6		219
	Other	E.	01	15	21	9	60	4		-	-		4	1	27
-	Oth	E.	-	03	10	-	-	4		-			00	1	23
-	-0	M.	-	13	11	ın	61		-		-		-	1	34
-	LH	L.		11	62	10			-				-	1	2
-	Rive	F. T.		0	11 6	9			-					1	18 1
	Gr. Pr	1.		21 1									1		22
	Pe	2		64	63									1	9
-	Hat	H.	60	16	13	62	v	00	63			23	7	1	54
1	sine	F. T.	63	9	7		-	61	-			61	4	1	25
	edic	M.	-	0	00	01	63	_	-				00	1	63
	N	_												•	
***	ge	F.	6/1	00	61	6	-	7	-	4	00	4	T.	1	49
200		14													
1	Leth	M.	-	-	01	7	10	00	01	00	01	4	60	1	30
No.															
-	P	M. F. T.	1	13	222	22	60	9	-		00	00	64	1	79
1 12	algar	1	63	10	11	18	2	4	1		07	2	-	1	48
5	Ü	M.	23	00	11	4	-	01			-	-	-	1	31
	ton	H.	-	12	6	133	=	2	101	63	00	00		1	57
	Sdmonton	14		4	00	9	4	2	101	-	0			1	24
	Ed	M.	-	00	9	-	-			-	-	01	1	1	33
															otals
		dno													Tot
		Gre	*	6	7	6	7	6	7	6	7				
		Age	0	, in	10-1	15-1	20-24	95-9	30-3	35-39	40-44	45-49	20		

CLASSIFICATION OF NEW CLINIC CASES, ACCORDING TO INTELLIGENCE QUOTIENT, 1938 INTELLIGENCE QUOTIENTS OF 75 AND LESS TABLE 3

NOTE: Total number of new cases in 1938 was 406. Thus of those given a definite rating, 123 cases, or approximately 30.3% of the total new cases, graded with intelligence quotients below 76. This is essentially the same as the percentage for the corresponding group last year.

TABLE 4

MAJOR COMPLICATIONS IN NEW CLINIC CASES SHOWING MENTAL
DEFICIENCY, 1938

Major Complication	Edmonton	Calgary	Lethbridge	Medicine Hat	Gr. Prairie- Peace River	Other Clinics	Totals
Behaviour	7	4	5	1	11	4	32
Sex	4	5	-995	+000		****	9
Psychoneurosis	6	1	1	1		1	10
Epilepsy General Retardation Physical Disability	7	10 1	5	7	25 1	15 3	69
Totals	25	21	13	10	37	27	133

### TABLE 5a

# CLASSIFICATION OF NEW CLINIC CASES, 1938-PRE-SCHOOL GROUP (0 TO 6 YRS.)

Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Hat	Gr. Prairie- Peace River	Other Clinics	Totals
Examination and Report Mental Deficiency	2 1 0	4	0 2 1	3	0	0 2 1	9 3
Other conditions	0	0	0	0	0	0	0
Totals	3	6	3	5	0	3	20

#### TABLE 5b

# CLASSIFICATION OF NEW CLINIC CASES, 1938—SCHOOL AGE GROUP (7 TO 18 YRS.)

Nature of Case	Edmonton	Caigary	Lethbridge	Medicine Ha	Gr. Prairie- Peace River	Other Clinic	Total
Behaviour problem without deficiency (I.Q.	0	11	- 0	7	9	5	38
over 75)	8	14	-		0.1		
Mental Deficiency without other problems Mental Deficiency with behaviour problems	6	12	1	4	24	13	60
including theft	9	3	4	1	11	5	33
Mental Deficiency with sex delinquency	2	2					4
Mental Deficiency with sex definiquency	-	9	****		9	2	6
Mental Deficiency with physical defect Backward in school without deficiency (I.Q.		-	****				
over 75)		5		9	23	8	45
Delinquency without Mental Deficiency	4	9					13
Dadina.	1	1	1	3	1	4	11
	- 7	9	200		2	2	6
Nervousness, Stammering		4		0	40	2	53
Examination and Report, no problem	1	4		0	40	-	1
Psychosis and Psychopathic Personality				1	4141		1
Other conditions		1	1		3	1111	5
metals.	91	55	0	31	108	41	275
Totals	01	00	9	21	100	41	210

TABLE 5c CLASSIFICATION OF NEW CLINIC CASES, 1938-ADULT GROUP (OVER 18 YEARS)

Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Hat	Gr. Prairie- Peace River	Other Clinics	Totals
Mental Deficiency with behaviour problem Mental Deficiency with sex delinquency Psychoneuroses and Psychopathic Personality Psychosis (other than G.P.I.) Arteriosclerosis, Disseminate Sclerosis	2 2 7 5	1 4 2 4 1	13 12 1	1 4 8 1	1	3 3 1	10 6 29 32 5
Epilepsy Delinquency without Mental Deficiency Other conditions	3 4	1 5	2 4	4	1	3	6 21
Totals	23	18	37	18	2	13	111
Table 5a Table 5b	3 31	6 55	3 9	5 31	108	3 41	20 275
Grand Totals	57	79	49	54	110	57	406

TABLE 6 AGENCIES REFERRING NEW CLINIC CASES, 1938

Agency	Edmonton	Calgary	Lethbridge	Medicine Hat	Gr. Prairie- Peace River	Other Clinics	Totals
School officials and teachers	2	17		27	105	13	164
Doctors, including Medical Health Officers							
and Clinics	12	18	25	24	2	27	108
Provincial Child Welfare, Children's Aid,							
and Juvenile Court	18	16	1			1	36
Police, Provincial Gaols, Courts	6		17		1		24
Homes, as Mountview, Beulah, Kiwanis	3	16					19
Parents, Relatives, Friends	12	9	- 5	3	1	14	44
Polist Donostment .	1.6	0			1	7.8	44
		4	4-10		1111	of the last	2
Self		1				1	2
Other Agencies	4		1		1	1	7
	_	-	-	and a	-		_
Totals	57	79	49	54	110	57	406

TABLE 7 MAJOR RECOMMENDATIONS MADE IN REGARD TO NEW CLINIC CASES, 1938

Major Recommendations	Edmonton	Calgary	Lethbridge	Medicine Hat	Gr. Prairie- Peace River	Other Clinics	Totals
Admission to Provincial Mental Hospital or Provincial Mental Institute	5	3	13	4	****	4	29
Admission to Provincial Training School or	0						00
	8	2	1	3	3	- 3	20
Treatment by own doctor or other clinics Treatment given, including direct treatment	1	7	10	12	8	7	45
for Epilepsy Continue home, institutional or school life	1400		****	1		1	2
with return visits to clinic	4	18	4	3	39	5	73
Change in home routine, care, discipline Modified school programme, special class or	4	8	4	1		1	18
More social contacts, wider interests, re-	5	10		7	46	20	88
establishment of self-confidence	2	4	3	9	3	3	24
Sterilization and supervision	5	9	2			4	20
Return to clinic, further examination	2	12	5	6		7	32
Other recommendations, discussion with	2 5 2 9	1	4	4	5		23
parent or patient	12	5	3	4	6	2	32
Total	57	79	49	54	110	57	406

# Provincial Mental Hospital, Ponoka, Alberta

(R. R. MacLean, M.D., Medical Superintendent)

The movement of patients is set forth in Table 1.

# PATIENT-POPULATION CHANGES

There were 1,685 patients—965 male and 720 female—in residence on Jan. 1st. 1938. There was an increase of 73 patients over the preceding year. On December 31st, 1938, there were 1,555 patients in residence, representing a decrease of 130 patients during 1938. The reduction in the number of patients in residence was accounted for by the opening of the refractory ward at the Provincial Mental Institute, Edmonton, to which hospital 230 cases were transferred. This transfer resulted in considerable relief of the overcrowding on the male wards, and removed from the hospital a great many of the class of patients which has been accumulating on the refractory wards over a number of years and which has been militating against any success in producing many cures or much recovery on such wards.

There were 11 female patients transferred to Claresholm, but the overcrowding on the female wards continued and increased tremendously. Many patients have been obliged to sleep on mattresses on the floor, as formerly, for lack of space for beds. Dayrooms continued to be used for sleeping quarters, as well as the corridors on the wards. During the year alterations were undertaken in what was the former School of Agriculture at Raymond with a view to converting it into a continued treatment unit for milder and senile female cases. It was hoped that this would be opened during the year, but it was not completed by the end of December. There was some increase in the number of female patients admitted during the year and a falling off of the male admissions. However, this may be of no particular significance, but purely a coincidence. Even if the Raymond institution had been available for patients, it would not have relieved to any great extent the overcrowding on the female wards, and steps must be taken immediately for the construction of a large unit in which several hundred refractory cases might be accommodated.

During the year prospective cases for admission were again carefully scrutinized, and an effort was made to confine the admissions to the most urgent cases only. The Attorney General's Department and the Department of Health again co-operated and recognized the fact that the overcrowding, on the female wards particularly, was such that some effort had to be made to limit the admissions where possible.

As in former years, many cases were seen in Mental Hygiene Clinics which might, under other circumstances, have been admitted to the hospital for observation and investigation. In many instances it was possible to handle the situation without recommending admission.

It should be pointed out, as in former reports, that psychopathic wards, if established in the larger centres, would be of great service to the public and relieve, to a great extent, the large admission rate to this Provincial Mental Hospital which is, for the most part, the only active admission hospital in the Province. It would seem highly advisable that a psychopathic ward be re-opened in Edmonton in conjunction with the University services, so that medical students might receive training and instruction, and more especially now since the medical curriculum does not permit of the students spending some time in the Mental Hospital, as in recent years.

#### Admission of Patients

The total number of admissions for the year was 620—347 male and 273 female. The number admitted was 42 less than the previous year. First admissions totalled 475 (76.6%), re-admissions 134 (21.6%), and transfers 11 (1.8%). First admissions by voluntary admission numbered 92 (19.3%). The balance of 383 (80.7%) were admitted by other methods, the majority having been admitted by Warrant of the Attorney General. Many cases, psychotic and not psychotic, were treated for syphilis in its various forms.

Due to an amendment in The Mental Diseases Act, it was no longer necessary to send drug addicts to the hospital following their apprehension, so that during the year only one addict was admitted; this was in the nature of an acute addiction.

There were 15 cases of alcoholism admitted, but the Act has limited the number of admissions of this class to a great extent.

The nationalities were as follows, according to figures and percentages: Canadian born, 303 (48.9%); natives of Great Britain or British Possessions, 104 (16.8%); natives of the United States, 71 (11.4%); and from other countries, 142 (22.9%).

# SEPARATIONS OF PATIENTS

During the year, 738 cases were discharged from hospital, according to Table 1 (Discharges).

The discharge rate, exclusive of transfers, deaths and elopements, was 63.5% of the total admission rate. The death rate, based on the total number under treatment and observation, was 4.5%. There was a decrease in the actual number of deaths for the year, with a corresponding decrease in the death rate. Bronchopneumonia, tuberculosis and various forms of heart disease were the commonest causes of death. There were no serious epidemics during the year.

#### ACCIDENTS

The number of accidents to the staff and patients did not show any actual increase. There were 15 fractures and a great number of minor accidents. The overcrowding on the female side of the hospital resulted in a tremendous number of petty quarrels, and many patients have impulsive outbursts, resulting in bruises and eye injuries. All accidents are reported on forms provided for that purpose.

# ELOPEMENTS

There were 24 elopements during the year. This is a slight decrease over the number for the preceding year.

On the whole, it would seem that the patients have been given careful observation, and many of those who eloped were returned to the hospital within 24 hours through the efforts of the staff and nearby police.

#### GENERAL HEALTH

The general health of the patients and staff was particularly good during the year. There was comparatively little illness among the members of the staff, and nothing of a serious nature. The general good health might be attributed, to a great extent, to the fact that persistent efforts are made to get each patient outside for exercise and recreation for a certain length of time each day. Patients and staff received typhoid inoculations at suitable intervals, and there has been no typhoid fever in the hospital for some months. Regular physical examinations, including X-rays of the chest, are carried out on members of the staff, and particularly the nurses and attendants in training.

#### CLINICAL WORK

With the admission rate remaining high, it was necessary for the medical staff to work under great pressure to keep the necessary records. Notwithstanding this, special forms of treatment were carried out during the year, including shock treatment with insulin and metrazol. A better type of patient was under treatment than in former years, and the results were somewhat more encouraging.

Staff conferences were held regularly, four or more times a week, as necessity required. All prospective cases for discharge were brought to conference and, as in recent years, many were allowed to go to the care of relatives in an effort to reduce the overcrowding.

During the early part of the year medical staff meetings were held on Tuesday evenings, to which were invited physicians from the nearby towns. Papers were read by the medical staff on all psychiatric subjects and medical journals were reviewed, as formerly.

Each year it seems advisable to point out that there are opportunities in the hospital for very desirable research work, but the medical staff is so limited in number that it is impossible for any member to devote time to that phase of the work.

Mental Hygiene Clinics were held at Calgary, Lethbridge, Medicine Hat, Drumheller, the Peace River District and High River regularly, and special clinics were held at other points by request. A new clinic was opened at Lamont and Vermilion. The former met with considerable success, but at the latter point there seemed to be some indifference on the part of those in the community to take advantage of the service. The clinics were held under the direction of the Medical Superintendent, the Assistant Medical Superintendent and, from time to time, other medical officers attended.

Several visits were made by the Medical Superintendent to the Auxiliary Hospital at Claresholm for purposes of inspection and direction of the affairs of the hospital.

#### DENTAL CLINICS

Dr. Sneddon has continued to carry on the dental work most ably. New patients are seen routinely and given active treatment where this is indicated. It is quite obvious that, in many instances where there is oral sepsis, general improvement in health follows dental extractions or other treatment. Patients on the continued treatment wards visit the dentist routinely, according to the time allotted to the various wards.

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

Full upper and lower dentures		Treatments (Prophylactic) 601 Fillings 304
Full upper dentures	36	Extractions 1,096 Abscessed teeth 64
Partial lower dentures	29	Examinations and treatments 2,871
Re-lining dentures	4	X-Rays

#### X-RAY DEPARTMENT

The nurse acting in the capacity of dental assistant has carried out the work of the X-Ray Department very efficiently. The work of this Department is hampered, to a great extent, by the fact that the X-ray machine is antiquated and actually is not safe for use. It is urgently requested that a new machine be purchased at the first opportunity.

The following is an account of the plates which were taken:

Chests	340	Knee (legs)
Teeth	148	Ankles 55
Heads	52	Foot 18
Shoulders	11	Spine 18
Arms	14	Heart and Vessels 9
Wrists	28	Gall Bladders 6
Hands	21	Abdominal 42
Pelvis	14	Kidney 6
Femur	6	Ribs 10
Hips	16	Clavicles 4
Barium series and Fluoroscopes	26	

#### HYDROTHERAPY

For many years Mr. Gill has supervised the work of this Department on the male side, but during the latter part of the year it was decided to place a nurse exclusively in charge of the hydrotherapy on the female reception wards. The beneficial effects of such a move were quite salutary, and patients were noticed to react much better when placed under the care of one individual from day to day instead of being obliged to take treatment from different individuals from time to time.

Prolonged baths, wet packs, electric cabinets, massage and other forms of hydrotherapeutic treatment were given when indicated. Continuous baths were also given on the female refractory wards with marked success. The value of an active hydrotherapeutic service cannot be disregarded at this time, when many other forms of treatment are being recommended for acute mental disorders.

An ultra-violet ray machine would be a valuable adjunct to the hydrotherapeutic department on both male and female wards, and many cases would doubtlessly be benefited by its use, especially during the winter months.

# OCCUPATIONAL THERAPY

Miss Crysler continued to direct the activities of this Department with what would appear to be an ever increasing interest.

She is assisted in the work by Miss Bier and several members of the attendant and nursing staffs. More patients spend time in this department as years go by, and what was said of the value of hydrotherapy obtains in this case also.

During the year a new studio was opened on the female reception ward, to which are sent the newer cases. This was not possible formerly because of the lack of accommodation. It might be pointed out that the opening of this studio, in conjunction with the appointment of a full-time hydrotherapist on the female reception ward, has changed to a great extent the general aspect of the acute reception unit. This results from the fact that the hydrotherapist supervises a certain number in that suite, the occupational therapist works with her group, and the remaining cases are then in a position to receive special attention from the nurses on the ward, in the day-room of the ward. There is obviously much less confusion in the day-room.

Student nurses and graduate nurses attend the occupational classes and receive instruction from the therapists. This is a very popular item in the training of the nurses.

Exhibits were sent to Edmonton and Calgary this year. As it was the first year in which an exhibit was placed in the Calgary Exhibition, there was a great deal of favourable comment on the part of the citizens of that city, and the papers contained many favourable references and comments in regard to the exhibit. A change in the routine, in so far as the Edmonton Exhibition was concerned, was brought about. Formerly articles were sold from the exhibit. This year an effort was made to bring before the public of the two cities the idea of treatment by occupation rather than for them to consider the exhibit in the nature of a bargain counter, as apparently has been done in former years. Miss Crysler and her co-workers are deserving of great credit and commendation for their efforts on behalf of the hospital.

The Annual Bazaar was held in the Fall, in conjunction with a sale of home cooking and a tea. It was very well attended, and the profits from the receipts, after the hospital was reimbursed for the materials used, were employed for the purchase of books for the patients' library and other recreational facilities. The ladies from the cottages on the hospital grounds donated the home cooking and assisted at the tea, and their co-operation was very much appreciated.

There were 100 or more books added to the patients' library and placed at the disposal of the patients and staff. Circulation continues to increase, and it was necessary to consider again increasing the library.

The hospital is indebted to the Department of Trades and Industries for permission to sell candy and tobaccos as a convenience to the patients and staff. The profits from such sales are used to purchase comforts for the patients. During the year several radios were bought and installed in the occupational departments and in the wards.

Mr. Frederickson continues to supervise the printing shop and book-bindery. The work has increased tremendously, and forms for other institutions, as well as this hospital, are turned out regularly. A large number of patients work in this shop. The recreation of the patients is, to a great extent, supervised by the occupational department. Patients go to the Recreation Hall for badminton and other games. Weather permitting, they are taken for walks and on skating parties, and are privileged to play baseball and softball. Many patients play badminton and shuffle board in the garden court. Bridge parties are arranged from time to time, the prizes being purchased from the proceeds of sales by the occupational department.

#### INSULIN AND METRAZOL THERAPY

During 1938, 18 patients underwent insulin therapy—10 men and 8 women. Of these, 5 men recovered but later relapsed, and 5 were unchanged; 2 women recovered and 1 has since relapsed, 3 were improved and 3 unchanged.

Twelve patients were treated by metrazol—8 men and 4 women. One man made a complete recovery; 5 were improved, of whom 2 have been discharged, and 3 relapsed; and 2 were unchanged. Of the 4 women, 1 recovered and relapsed, 2 were improved, and 1 was unchanged. All patients showed some improvement during treatment.

# RECREATION AND ENTERTAINMENT

Practically all of the recreation and entertainment of the patients is under the supervision of the occupational therapy department. This department, in conjunction with Dr. Schrag and Mr. Young of Ponoka, put on another very enjoyable Christmas concert this year.

Patients' dances were held fortnightly during the winter months. There was a maximum attendance at each dance.

The talking picture machine has not as yet been installed, but it is hoped that it will be placed in the estimates for the coming year. It is very much needed for entertainment and for the enlightenment of the patients.

The Annual Sports Day was held in June. Unfortunately, as in many previous years, the weather was unfavourable and the length of the outing was materially shortened. Peanuts, ice cream, hot dogs and soft drinks were provided as in previous years, and many residents from the town of Ponoka assisted in judging the events. Their co-operation was much appreciated.

The rink proved very popular again. A great many patients and members of the staff took advantage of the facilities. A senior hockey team was organized, as well as a boys' team from the cottages. There was a considerable amount of interest shown in these activities.

Staff dances were held regularly each month, and proved very popular.

The "At Home" was held as formerly and was very successful. The attendance was greater than in previous years, and the committee was complimented on their fine arrangements for entertainment on the programme.

During the summer the tennis courts were frequented by members of the staff and patients. This type of sport continues to be very popular.

# Religious Services

Clergymen of various denominations held regular religious services on Sundays and on certain other occasions. They are frequently called upon to visit the sick and, in many instances, the relatives request them to visit the patients. Their co-operation and assistance is much appreciated.

#### SOCIAL SERVICE

Mr. Kibblewhite continues to direct this department, which was fortunate enough in securing the services of Miss Ruth E. Hughes during the early part of the year. As a result of the increase in staff, it has been possible to carry out more work. Much of the detail which has been neglected over the years, due to lack of staff, has received attention, resulting in great efficiency in this department. It is hoped that an appointment of an additional social worker in the City of Edmonton will be possible in the near future.

# SURGICAL SERVICE

Dr. Conn of Edmonton and Dr. O'Callaghan of Calgary, with the assistance of Dr. A. D. McPherson of the hospital staff, have performed the operations most satisfactorily. During the year a gas oxygen machine was installed, and Dr. A. R. Schrag, after receiving special instruction at the University Hospital, Edmonton, in the operation of the machine, acted as anaesthetist at all operations during the year.

During the year 47 major and 33 minor operations were performed, a total of 80 operations. A summary of the work done is given herewith:

Operation	Male	Female	Total
Vasectomy	24		24
Vasectomy and Plastic	1		1
Salpingectomy		37	37
Incision of Abscess	1		1
Amputation of Cervix and Repair of Cystocele and Rectocele		1	1
Amputation of Finger	*****	1	1
Chalamatastamas	1		1
	1		
Cholecystectomy and Removal of Impacted Stone from Common			
Duct Duct	1		100
Removal of Cervical Polyp		1	1
Mastoidectomy	11101	1	1
Laparotomy (Drainage of Appendiceal Abscess)	1		1
Exploratory Laparotomy	1	1	2
Tendon Suture	1		1
Herniotomy and Orchidectomy	1		1
Appendectomy		1	1
Prostatectomy	1		1
Herniotomy	1		1
Removal of Lipoma		1	1
Excision of Hydrocele	9		2
	-		
	20	44	90
	90	44.0	OU

#### NURSES' TRAINING SCHOOL

The sixth annual graduation exercises of the nurses and attendants were held May 18th. The third class in the combined course of general and mental nursing was graduated. Seven nurses completed their courses successfully, and reports from the affiliated training schools continued to be encouraging. Five attendants received their certificates, having completed the three years' training. As yet no conclusions can be reached relative to the value of the combined general and psychiatric nursing course. Those who have taken the course have been interviewed and have, without exception, stated that they were very well satisfied with

the course. As time goes on it becomes obvious that a great many of those who take the course eventually show a preference for some other type of nursing than psychiatric nursing.

The post-graduate course was shortened to 8 months, it being felt that the previous arrangements of 12 months' duration were unsatisfactory. Nine nurses received certificates.

Lectures and clinics to the various nurses and attendants in training were given by the nursing and medical staffs.

Six nurses were granted two years' leave of absence without pay in order to affiliate with the training schools in the general hospitals in Edmonton and Calgary.

The following constitutes the allotment of our nurses in training to the various affiliated schools:

Calgary General	2
University of Alberta Hospital	2
Royal Alexandra	2

The work of the training school is under the direction of Miss C. N. Jackson, Acting Superintendent of Nurses. Her duties were carried out most efficiently. Much credt is due to her for developing new aspects of the training.

Miss Virginia Evans, Instructress of Nurses, has proven most capable in that capacity. Details of the training have been changed in certain respects at her suggestion.

During the year a visit was made to the hospital by the Inspection of Schools of Nursing Committee. On the whole, they were quite satisfied with the work which was being done, but recommended that some increase be made in the facilities for giving practical work to the nurses and for additions to the training school staff.

#### TEACHING OF MEDICAL STUDENTS

The final year medical students came in groups of four or five during the early part of the year, but the Faculty of Medicine altered the arrangements for the Fall term so that the students were deprived of the advantages during the latter months of the year. It is a matter of regret that the previous arrangements were changed, it being thought that clinical as well as theoretical training should receive recognition in the medical curriculum.

# MEDICAL LIBRARY

During the year new volumes were added and subscriptions renewed for the more outstanding medical journals.

#### VISITORS

Dr. Bow, Deputy Minister of Public Health, visited the hospital on many occasions during the year, making rounds and helping to solve administrative problems. His visits are always very much appreciated.

Dr. Hincks, General Director of the National Committee for Mental Hygiene, visited the hospital during the year and gave an enthusiastic talk to the members of the staff. He was particularly interested in the overcrowding, and will doubtlessly bring influence to bear throughout the Dominion in an effort to solve this great problem. Several members of the Legislature visited the hospital to observe the work done and to visit patients.

The patients were visited frequently by relatives and friends, most of whom were interviewed by members of the medical staff. There was a general expression of satisfaction and appreciation of the treatment of the patients.

The Eugenics Board made regular visits to the hospital every two months, in order to take care of the cases recommended for presentation. The Board continues to be very helpful in an advisory capacity. This year the Board was specifically requested by the Minister of Health to act as a Visiting Board during the year and submit a report to him. As a result of his request, the Board made detailed rounds of the wards and various departments, and obtained information concerning the operation and requirements of these departments. It was obvious that the hospital profited as a result of its report. It has been felt for years that a Visiting Board, comprised of prominent, interested and sympathetic citizens of the Province, could be of great help in the administration of the affairs of the hospital.

For the first time in the history of the institution, members of the Calgary Medical Society visited the hospital. Rounds were made and clinics given by members of the medical staff. The members of the society were eloquent in their praises of the work done, and showed great interest in the clinics.

Members of the Alberta Association of Registered Nurses visited the hospital in a group. Rounds were made and clinics given. These were very well received and much appreciated by this group.

Students in the senior classes in psychology at the University, in company with Dr. H. E. Smith, visited the hospital. Clinics and demonstrations were given. The students were very interested and expressed appreciation.

# ACCOMMODATION AND ALTERATIONS

During the year the new refractory block was opened at the Oliver Mental Institute, accommodating 230 refractory and semi-refractory cases from this hospital. This relieved to a great extent the overcrowding on the male wards. Unfortunately, no additional accommodation whatsoever was provided for the care of female cases, and the wards continued to become more overcrowded. Work was begun on alterations in what was formerly the Raymond Agricultural College, with a view to accommodating 100 mild and senile cases. When this unit opens it will relieve to some extent the overcrowding in such cases, but the major problem, that of the overcrowding in the refractory wards, will still be unsolved, and accommodation for about 300 such cases is urgently required.

Whereas emergency repairs are being made to the buildings regularly, generally speaking deterioration continues, and the roofs of all the buildings require immediate and radical attention. This will involve the expenditure of thousands of dollars, and the Department of Public Works should take active steps to arrange for such repairs.

### DEPARTMENTAL ACTIVITIES

Business Office. — Mr. McDonald, Business Superintendent, directs the work of this office, which is also responsible for the supervision of other departments in the hospital. The work of this department continues to increase yearly, and difficulty is experienced in carrying out the work satisfactorily without additional assistance or the instalment of up-to-date accounting machines. Considering the handicaps, Mr. McDonald and his staff are to be complimented on the efficiency with which they have discharged their duties.

Laundry.—There has been no drastic change in the laundry setup. The amount of work done is quite exorbitant, and results would probably be better were the staff increased.

Tailor Shop.—Mr. Bedard replaced the late Mr. Potter in this department. Mr. Sutton, formerly an attendant, works in conjunction with Mr. Bedard, confining his work more particularly to that of leather work and mattress making. The operation of the department has been quiet and satisfactory.

Occupational Carpenter Shop. — This department, under Mr. George Watt's supervision, continues to repair furniture and farm equipment, as well as doing work for other departments. A considerable number of patients assist in the work.

Sewing Room.—Miss Naunton, with an assistant, carries on the work of this department very efficiently. In addition to making dresses and uniforms, the department does a considerable amount of repairing of worn and torn dresses.

Stores.—This department operates under Mr. Walter Mason's supervision, together with an assistant. The work is carried on quietly and very efficiently.

Kitchens and Dining Rooms.—Although the work of this department is carried on most efficiently by those in charge, with their assistants, it is regrettable that no additional accommodation has been provided, considering the lack of space and consequent hampering of the work. It cannot be too strongly urged that additional accommodation be provided in the immediate future.

What is true of the kitchens, in regard to shortage of space, obtains in the case of the bakeshop also.

Student dietitians continue to come from the University Hospital in Edmonton, for 10 days or 2 weeks, to receive special instruction and training in this type of work. They seem to enjoy the experience, and are most appreciative of the efforts put forth on their behalf.

Gardens and Grounds.—Mr. Mayled continues to discharge his duties most efficiently. He is very successful in raising the usual crops of greens, vegetables and honey. Fresh vegetables from the gardens are available from June through to freeze-up. An attempt is being made to develop an orchard of small fruit, particularly raspberries. It might be stated here that the hospital garden is one of the largest in the Province, between 40 and 50 acres being devoted to garden crops.

Visitors and friends and relatives of the patients, who come to the hospital, are loud in their praises of the beauty of the grounds. Farm.—This department, under Mr. McKinnon's supervision, functions very satisfactorily. Besides looking after the dairy herd and the work associated with it, Mr. McKinnon supervises the raising of pigs and sheep. He has met with much success in regard to the latter enterprises. Pork production was somewhat in excess of the requirements of the hospital, and one car of hogs was marketed at a value of approximately \$1,900.

This unit is somewhat handicapped by the lack of sufficient arable land for pasture and fodder crops.

Chicken Ranch.—This department, under Mr. Carleton's supervision, has been responsible for raising chickens and turkeys for hospital use. Fresh eggs are supplied daily to the kitchen for the staff and patients.

More accommodation is required in order to provide for a larger flock during the winter months.

Cannery.—To assist in alleviating the cost of operating this hospital, in so far as food supplies are concerned, it was thought advisable to attempt canning operations to provide the kitchen with vegetables during the period in which these are not available from the gardens. This department was operated under the supervision of the Business Superintendent, and a considerable quantity of fruits and vegetables were successfully canned.

#### STAFF CHANGES

There were several major staff changes during the year.

During the summer Dr. Kenneth Thomson resigned to enter private practice in the City of Edmonton. He had been a very reliable, conscientious and valuable member of the medical staff, and was a distinct asset to the hospital. It was with regret that his resignation was accepted. He left this service with the best wishes for continued success.

- Dr. A. C. McGugan returned to the post of Provincial Health Officer, having been a member of the hospital staff for several years. Whereas his transfer to another branch of the service was in his best interests, he had become a most valuable member of the medical staff of the hospital, and had discharged his duties so faithfully and diligently that it was with regret that notification of his transfer was received. He took with him the best wishes of the staff for success in his particular field of endeavour.
- Dr. C. L. Pearson, a graduate of 1938 from the University of Alberta, who had formerly worked in the hospital in the capacity of a summer interne and had also had experience in North Batteford Mental Hospital, was appointed to the medical staff. With his previous experience, it is expected that he will prove a decided asset to the medical staff.

#### Conclusion

The year was marked by an increase in the serious overcrowding on the female wards, with no relief having been provided during the year, although efforts were being made to provide accommodation at Raymond for about 100 mild and senile cases. The opening of the new refractory ward at the Provincial Mental Institute, Edmonton, however, provided definite relief for similar overcrowding on the male wards.

Whereas there were several major staff changes, affecting chiefly the medical staff, Miss Jackson, Superintendent of Nurses, was able to maintain the nursing staff at the proper strength during almost the entire year.

The Medical Superintendent appreciated very much the wonderful co-operation received from the departmental heads and the employees generally, as well as the medical staff, and wishes to extend his thanks to each and everyone for the faithful discharge of their duties.

The Medical Superintendent, on his own and on behalf of the staff of the hospital, would like to express pleasure and appreciation for the co-operation received from the Minister of Health, the Deputy Minister of Health, and other Departments of the Government during the year.

Attached is the report from Dr. M. Carnat, Medical Officer in charge of the Provincial Auxiliary Hospital, Claresholm, on behalf of and covering the activities of that institution.

TABLE No. 1
MOVEMENT OF PATIENT POPULATION DURING 1938

In residence Dec. 31, 1937  Admissions: First Admissions: (a) Voluntary (b) Certificates (c) Warrant (d) M.D. Act Re-admissions: (a) Voluntary (b) Certificates (c) Warrant (d) M.D. Act Re-admissions: (a) Voluntary (b) Certificates (c) Warrant (d) M.D. Act Transfers		43 66 91 4 15 13 33 3 5		Male 965	Female 720	Total 1685
					-	
Discharges:  (a) As recovered (b) As improved (c) As unimproved (d) As without psychosis  Transfers Deaths  In residence Dec. 31, 1938	57 67 19 78 230 60	39 68 24 42 11 44	96 135 43 120 241 104	511 792	993 228 763	738 1555
In residence Dec. 31, 1938 On leave or otherwise absent				9	2	11
Total				801	765	1566

TABLE No. 2 SHOWING THE PSYCHOSES OF THOSE ADMITTED DURING 1938

	bito mind this ibititobile of intobi nemittee	Domin	Cr 1000	
	Psychoses	Male	Female	Total
1.	Traumatic psychoses	3		3
2.	Senile psychoses	12	16	28
3.	Psychoses with cerebral arteriosclerosis	24	14	38
4.	General paralysis	21	1	22
5.	Psychoses with cerebral syphilis	4		4
6.	Psychoses with Huntington's Chorea		1	1
7.	Psychoses with brain tumour	1	-	1
8.	Psychoses with brain tumour Psychoses with other brain or nervous diseases:			
-	(a) Chronic encephalitis	1		1
	(a) Chronic encephalitis (b) Paralysis agitans	1		î
	(c) Subarachnoid haemorrhage	î		î
	(d) Undefined	2		2
9.	Alcoholic psychoses	4	2	6
10.	Psychoses due to drugs and othe exogenous toxins:		-	0
20.	(a) Nembutal		1	1
11.	Psychosos with pallages		*	
12.	Psychoses with pallagra Psychoses with other somatic diseases:	****		
3.00	(a) Acute nephritis			1
	(h) Chronic nonhritis	1	4	1
	(b) Chronic nephritis (c) Cardio-renal disease	****	-1	1
	(d) Parnicious appenie		1	1
	(d) Pernicious anaemia (e) Delirium with infectious disease	1	2000	
13.	Manic-depressive psychoses:	1		1
10.	(a) Manic phase		23	38
	(h) Depressive phase	15	23	
	(b) Depressive phase (c) Hypomania	19		41
	(d) Charles	6	4 2	10
14.	(d) Circular		9	11
15.	Involutional melancholia Dementia Praecox (Schizophrenia):	2	9	11
10.	(a) Powonoid tyme			- 10
	(a) Paranoid type (b) Catatonic type	29	14	43
	(a) Vehenbronia	95	76	171
	(c) Hebephrenic	1	1111	1
16.	(d) Undefined	3		3
17.	Paranoia and Paranoid Conditions	11	6	17
18.	Epileptic psychoses	7	5	12
19.	Psychoneuroses and neuroses		4	4
20.	Psychoses with psychopathic personality			00
21.	Psychoses with mental deficiency Undiagnosed psychoses Without phychoses	6	17	23
22.	Undiagnosed psychoses	4	1	5
66.	(a) Polloness	2	4	6
	(a) Epilepsy	4	5	9
	(b) Alcoholism	3	2	5
	(c) Mental deficiency	22	24	46
	(d) Organic brain disease	1	1	2
	(e) Neuro-syphilis	15	- 4	19
	(f) Congenital syphilis	1		1
	(g) Tabes dorsalis	10	4	14
	(h) Cerebral syphilis (i) Meningo-vascular syphilis		1	1
	(1) Meningo-vascular sypnilis	2	1111	2 5
	(1) FSVCHODEUTOSES	3	2	5
	(k) Chronic encephalitis	1000	1	1
		2	****	2 5
	(m) Psychopathic personality	3	2	5
	(n) Early schizophrenia	1	****	1
	(o) Schizoid personality	1	*****	1
	(p) Mild depression	1	1	2
	(q) Temper tantrums	1	1	2
	(m) Psychopathic personality (n) Early schizophrenia (o) Schizoid personality (p) Mild depression (q) Temper tantrums (r) Behaviour problem	1010	1	1
		0.40	000	
	Total	347	273	620

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938																											
DURING 1938	Single F. T.	00;	25	61		4 63				-		1	9	9	-	90	109	- 62	10 00	000	13	011	0	37	1 00	10	-
JRIN	Sin.	6.0									-	0	0 61	00			31		14	. 63	-	-	N :	21	1		
	M.	-10	20	64		401		1	11		70		- 47	00	-		782	- 63	10.4		9			16	4 00	- 2	-
CIVIL STATE OF PATIENTS ADMITTED	Psychoses	1. Traumatic psychoses 2. Senile psychoses			With			12. With other somatic diseases:	(a) Acute nephritis (b) Chronic nephritis		(a) Permitions anaemia (b) Delirium with infections disease		(b) Depressive phase	(c) Hypomania		15. Dementia Praecox (Schizophrenia):		(c) Hebephrenic type (d) Undefined	16. Paranoia and Paranoid conditions	Psychoneuroses and neuroses	With mental deficiency	22. Without psychoses	(a) Epilepsy (b) Alcoholism		-	(f) Congenital neuro-syphilis (g) Tabes dorsalis	lis
								-				1			1	-			-	-	100	161					

	64 10	-	-	03 (	NI.	-	I	620
12	62	-	1	_	-	-	İ	273
60	64 63	-	-	-	-		ĺ	347
11	-	1004	1	-	*****	-	I	1
11	11	1	1		-		1	10
11	-	2000		1		-	1	63
11	-	i	4111	******	1		1	18
11	-					1	1	=
	11	1	1		-		I	-
111	-	-	1	****		-	ı	34
11	11	4111	-				I	23
11	-		****	1	-		ı	=
63	4	-	10	N	****		I	371
61	11	1	17	-	-			142
-	-	-	-	-				129
21	- 62	100	1		N.	1	1	290
1 1 1	1 2		1	-	7 .	1 1		92 290
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2		1 1		7 1 7	1 1	i	
2 1 2	1 1 2	-	1	100	1 1 2		1	198 92
2 1 2	1 1 2	-	1		7 1 7		1	198 92
2 1 2	1 1 2	-	1	The same and the s	7 7 7 7		1	198 92
2 1 2 1 1	1 1 2	-	1	The same of the sa	Z 1 7 Z		1	198 92
2 2 1 1	1 1 2	-	1	The same of the sa	Z 1 1 Z		1	198 92
2 2 2 1 1	1 1 1	-	1	The same and the s	7 7 7		1	198 92
2 2 1 1	y 1 1 2	-	1	The same and the s	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		1	198 92
20 1 1 1	nality 1 1 2	-	1	The same of the sa	7 7 7		1	198 92
ditts 2 2 2 2 1 1	rsonality 1 1 2	-	1	THE TAX AND ADDRESS OF THE PARTY OF THE PART	2 1 1		1	198 92
ses phalitis 2 2 2 2 2 phallitis	sis 1 1 1 personality 1 1 2	-	1	non-	Cumb I 1 2		1	198 92
uroses 2 2 2 encephalitis 1 1	thic personality 1 1 2	-	1	ression	entrums I Z		1	198 92
oneuroses 2 2 2 ic encephalitis 1 1	oscierosis 1 1 2 opathic personality 1 1 2	-	1	depression	or kantrums		1	198 92
ychoneuroses 2 2 2 ronic encephalitis 1 1	rerioscierosis 1 1 2 ychopathic personality 1 2	-	1	nd depression	infect tentrollis		1	92
(j) Psychoneuroses 2 2 2 (k) Chronic encephalitis 1 1	Arterioscierosis 1 1 2 1 Psychopathic personality 1 2		1	Townson tonterment	Description control of the control o		1	198 92

# TABLE No. 4 AGES OF PATIENTS ADMITTED DURING 1938

					F	rirst	F	te-			
					Adm	nissions	adm	issions		Total	
			Ados		Male	Female	Male	Female	Male	Female	Total
TIm	don	15	MAGE	ng	. 4	3			4	3	7
15	ter	10	year	S	16	17	4	7	20	24	44
19	to	13	year	S	20	23	8	8	38	31	69
20	to	24	- 66		21	24	14	13	35	37	72
25	to	29	**		2.4	34	10	4	44	38	82
30	to	34			91	12	11	ā	42	16	58
35	to	39			90		- 5	9	25	23	48
40	to	44	**		00	14	,	7	30	28	50
45	to	49			. 20	21	4	6			00
50	to	54	**		30	17	0	8	36	25	01
55	to	59	**		. 19	15	9	6	28	21	49
60	to	64	**	***************************************	. 16	9	2	2	18	11	29
65	to	69	**	***************************************	15	2	1	****	16	2	18
70	yea	ars	and	over	10	13	1	1	11	14	25
			Total	al	272	204	75	69	347	273	620

#### TABLE No. 5

#### NATIVITIES OF PATIENTS ADMITTED DURING 1938

Nativities	Male	Female	Total	Nativities	Male	Female	Total
Canada	. 158	145	303	Holland	4	2	6
England	22	23	56	Hungary	. 5	1	6
Scotland	16	18	34	Italy	3		3
Ireland	C	1	7	Japan	1	1000	1
Wales	9		2	Latvia		1	1
Other British Possessions	8 1	4	5	Lithuania	1	1	2
U.S.A	. 39	32	71	Norway	1019	2	2
Austria	4.4	7	21	Poland	19	12	31
Belgium		2	2	Rumania	1	****	1
China	19		12	Russia	4	3	7
Czecho-Slovakia	4	4	8	Sweden	2	3	5
Denmark		2	6	Ukrainia	2	2	5
France	1	1	2	Yugo-Slavia	. 9	2	5
Finland	- 9	1	4		-		-
Germany	8	4	12	Total	347	273	620

#### TABLE No. 6

#### PLACE OF RESIDENCE OF PATIENTS ADMITTED DURING 1938

	Male Fem		Place of Residence		Female	Tota
Aldersyde	1		Chipman			1
Alix	1 1		Chisholm		1111	1
Amisk	1	1	Clairmont		4007	2
Andrew	2	. 2	Clover Bar		1	1
Ashmont	1	. 1	Cluny	1	1111	1
Athabasca	1	1	Clyde	1		1
Banff	1 1		Coaldale		1	1
Barons	1		Coalhurst		2	2
Barrhead	3		Coleman	2	1	3
Bashaw	1 1		Coleridge			1
		2	Compeer			î
		1	Coronation		1910	î
Dallarman	1 2	1			100	1
N . 111.			Cosmo		***	1
Bellis	1		Critchley		1	1
Belloy	1	1	Czar		1111	1
Benton	1	1	Dapp			1
Berwyn	1		Delburne	1	2	3
Beverley	1 1	2	Didsbury		1	3
Bindloss	1	1	Dixon		1	1
Bingley	1	1	Dixonville		100	1
Blackfalds	1 1	2	Donalda		1	1
Blairmore	1	4	Doris	-	0.70	1
Bluffton	1		**		****	î
Boundary Creek					1	-
	-		Drumheller	4		3
Soyle	1		Durlingville		200	105
Brightbank	1		Edmonton	67	38	105
Brooksona	1		East Coulee	1	1111	1
Brownvale	2	. 2	Eckville	1	0.000	1
Bruce	1		Edson		1	1
algary	51 55	106	Edgerton		1	1
Cadomin	2	. 2	Eight Mile Lake			1
almar	1		Enilda			1
Campsie	1	-	Entwistle		1	1
amrose	5 1		Excel		î	1
anmore	1		43		1	2
arbon			TT-1-1			1
1 1144					****	1
	2 1		Falher		1	1
Cardston			Fallis		1	1
aroline	]	1	Falun		2017	1
Carrot Creek	]	1	Faust	1	1000	1
Carstairs	1		Finnegan		1	1
Castor	]	1	Fishburn		1001	1
Champion	1	. 1	Foremost		1	1
Chauvin	1	4	Fork Lake	1		1
Cherhill	1		Fort Smith	2		2
Cherry Point	1 1			2	- 4	2
	4		0-11	-	1	4
Chinook	1	. 1	Gadsby	1		1

#### TABLE No. 6-Continued

Place of Residence		Female		Place of Residence		Female	e Total
Gage Gainford			1	Penhold Pibroch			1 2
Galahad			1	Pibroch Pickardville	2	****	2
Gilwood	1		1	Ponoka	1	2	3
Girouxville		1	1	Primrose		1	1
Gleichen		2	3	Prince George, B.C.		****	1
Goodfish Lake Grande Prairie		1	1	Ranfurly		1	1
Granum		1010	1	Raymond		1	1
Grantham			î	Red Deer		4	10
Greencourt	1	7,000	1	Red Willow		î	1
Green Glade	. 1	1000	1	Retlaw		1	1
Grimshaw		1	1	Rife			1
Gunn		2	3	Rimbey Rio Grande	1	1	1
Halkirk		1	2	Rocky Mountain House	1		1
Hanna		î	2	Roma		1	î
Hardisty		1	2	Rosalind		2	2
Hartell	. 1	****	1	Rosedale			1
Heaslip	1	****	1	Rose Lynn		1	1
Heath Heisler	2	1111	2	Rosenheim Rosyth		1	1
High Prairie	1		ī	Round Hill	1		1
Highridge	î		î	Rusylvia	î	2000	î
High River	. 1	1	2	Saddle Lake Reserve	. 1		1
Hilda		1000	1	Sandy Rapids		****	1
Hines Creek			1	St. Albert		1	1
Holden Horburg		1	1	St. Paul Schuler		1	1
Hoselaw		1	1	Sedgewick		1	1
Huallen			î	Sexsmith	. 1		î
Innisfail		3	3	Shaughnessy	. 1		1
Innisfree	2	ing.	2	Slave Lake		1	1
Irma	. 2	1	3	Smoky Lake		2	2
Jarrow	. 1	****	1 2	Spirit River Spruce Grove		2000	1
Jarvie		1	1	Spurfield			1
Judah	. 1		î	Standard		1	î
Keephills		1	1	Stanger		1	1
Kevisville	1		1	Stanmore		1	1
Killam		1	1	Stavely			1
Kinuso	1	1 3	1	Sterco			1 2
Lacombe Lac Bellevue	1	1	4	Stettler Stirling	1	1	1
Lac Magloire		î	1	Stony Plain		1	1
Lac Ste. Anne		3	3	Strathmore			î
Lake Eliza		1	1	Stry			2
Last Lake		- there	1	Sugden		1	1
Lavoy		1	1	Sundre	. 1	1100	1
Leavitt Leduc		3	6	Sunnyelono	. 1	1	1
Leedale		0	1	Sunnyslope Taber		1	1
Leslieville	1	2	3	Tawatinaw		î	2
Lindale		1	1	Tees		2	2
Lomond		1	2	Three Hills		1	1
Lougheed		1	1	Thorhild	. 1	****	1
Loyalist	-	1	1	Tiger Lily	1	****	1
Luscar		1	1	Tilley Tolland		****	1
Lethbridge		9	15	Tomahawk		1111	î
Macleod	. 1	2	3	Trochu	. 1	1	2
Magrath	. 1		1	Turner Valley	. 1	1	2
Manyberries		1	1	Two Hills	. 1	2	3
Mapova		1	1	Usona		1	1
McMurray Medicine Hat	4	1 4	8	Valleyview Vega	1 3	****	3
Mellowdale		1	1	Vegreville	. 1	****	1
Midlandvale	. 1		1	Vermilion	. 2	3	5
Millet		2	2	Viking			1
Mirror		2	2	Vilna		1	1
Morecambe		1 2	1 2	Wainwright		1	1
Morinville Mundare	9	1	4	Warburg	2	****	2
Munson		1	1	Warner Warrensville	1		ĩ
Myrnam		2	2	Watino		1	1
Nacmine	. 1		1	Wayne		1	1
Nakamun	. 1		1	Wembley		1	2
Newbrook		1418	1	Westlock		1	4
New Castle New Dayton	1	1	1	Wetaskiwin Whitelaw		1	1
Nightingale	1	1	1	Widewater		****	1
Niton		1	1	Wildwood		1	2
Nobleford	1		1	Wimborne	. 1	****	1
Notikewin	1		1	Winnifred		1	1
Ohaton		1	1	Worsley	46		1
Okotoks	-	1	1 2	Wostok	. 2	1	3
Olds		1	1	Total	347	273	620
Peace River		î	2	2000			
	1977-1111		100				

9 20 50 50 16 31 16 31 108 61H

DISCHARGES, CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSES AND CONDITION ON DISCHARGE, FOR THE YEAR 1938 TABLE No. 7

		4	111	COST STUTE THE TOO	2000								
	Psychoses	M. Re	Recovered T.	T.	M. F. T	prove	PH	Unip M.	Unimproved M. F. T	H.	M.	14	H
10	Traumatic	-	-		1			1			1		
4 60		7	1	00	9	a	41-	1	F 61	* 00	14	4	-
41		1		1	7	1	00+	1	1	1	6-	1	7
9	With	1 1	11		4 ::	11	1 :	11	1 1		4 11	11	- 3
(- 00	With brain tumour with other brain or nervous diseases	1		-	-	-		-	1	1	72	-	
6		63		62	1	63	100	1		-	4	64	
10		0.70	-	1	-	-		-	1		-	1	
12	With other somatic diseases	63		61	11	1 1	11	11	1000		61	: :	177
133		18	18	36	=-	13°	36	1	210	63.6	30	45	7
15	Dementia praecox (Sch	19	13	32	33	20.	23.0	11	10	21	63	43.	10
16	Paranoia and paranoid				00	- 9	- 6	62		ıo.	00 00	41-	-
18			-	1		000	000			1	1	10	
130		00	100	9	1	. 67	. 62		1	1	4	9	-
21		60	-	000	1		1	1		1	10	100	
22		****	-	-	****	1		*****		1	78	42	12
		1:	18	18	1	18	100	15	12	15	100	100	18
	Total	20	339	96	19	29	135	13	24	43	221	173	200

														,,,,,					
	7	H	1 6	18	10	-	4.00	9	1		75	7	106	10	10	10	120		394
	Total	H.	9	4.	7	1	-	63	-	*****	70	9	43	41-	10	9	42	1	173
		M.	-																221
																			-4
	. 90	H	-	1	-		1	-	1	-	4	-	12	21 01		1 1	ar.	1	27
	Over 2 years	Ŀ	-	1	11		1		1							11			
	61	M.			-		1	-										1	16
		T.			-	-		-	1	1	9		01	-		11	M	, 1	15
	Under 2 years	1	11		1					-	.01		1					1	4
	du Z	T.			-				-	-	4		-			11		. 1	11
		-																	
E	SI	T.			N						. 4		6		1	63	- 7	1	56
RESIDENCE	Under 18 months	-							-	-				-			-		10
SID	dh 8 m	M.			N											11	- 4		16
RES	-	N		;		1	100							-	-			-	-
)F	SI	T.		011	-						: 00	-	1	1 10	1	:01		1	1
N	Under 12 months										. 6	1	6 1	. 00					
CIO	Chu 2	14		1										00					
RA	1	M		61.			11		****			_	N/S	-	1000	64		. 1	1
DO				10				1			: 45	0.01	10			: 63	4	0 1	63
SHOWING DURATION OF	Under 9 months	H																	
WIL	Under	H	-	6.3			-			-		0.3	14	-					
OHS	6	M.	-	6/1	1	1		-	*****	1	01		11		1	-	- 4	1	24
193	er	H		ro.	4-								28	61				1	85
NG	Under 6 months	H	11	i,	-				1				90	-	1	-		1	21
URING 1938	19	M.	11	100	0 -	-	.03	00	1	17	7	1	20	7			-	:	64
_																			
DISCHARGES I	r	H	4	9	-		1	63	-	-	22	300	19	- 60	10	.00	212	:	152
ARC	Under 3 months	14	4	-				64	-	-	16	200	-	- 60	NO.	67	60	3	78
CH	30	M.		10	-		4			1	-1		12	1		-	212	1	74
DIS																			
							-		ns.	Sandara.									-
							Ses		oxi					IS.					-
							Sea		us					ion					
							P s		eno					odit	ses	iity			-
				lero		rea	VOU		Sox		ase	8		000	uros	ona			-
		ses		osc		Cho	ner		er e	1	dise	holi		oid	ne	nev			
		Psychoses		rter	Sphil	S	or		oth		tic	ane		aran	and	icie	9	000	
		Ps		l a	lysi	gtor	rain		or		onna	mel	a	D D	ses	def	hoe	5	
				ebra	bra	Huntington's Chorea	T D		sgn.	pellagra	S Jo	rai	eni	and	uros	psychopathic pers mental deficiency	sed	for	Total
			nativ	cerebral arteriosclerosis	ral paralysis	Hm	othe	olic	o di	pel	oth	ition	rydo	oia	one	psychopathic personality mental deficiency	gno	-	H
			Traumatic	With	General paralysis With cerebral svo	With	With other brain or nervous diseases	Alcoholic		With	With other somatic diseases	nvolutional melancholia	Schizophrenia	Paranoia and paranoid conditions	Psychoneuroses and neuroses	With		Trees	
					-				ñ	M	32	In	S	O. F.					
			-6	100	410	91	- 00	6	10	11	122	14	15	16	18	20	228	To the state of	

TABLE No. 9 RECORD OF DEATHS DURING 1938

						IIIb Doming 1500
Regist		Arre		e in Hospi Months.		Cause of Death
No.	Sex.	Age.				
570 7430	M M	73 84	23	7 3	16 16	Pulmonary tuberculosis. Generalized arteriosclerosis.
7802	M	63	1	8	16	General paresis.
5306	F	60	7	6	3	Broncho-pneumonia; adhesive pericarditis.
8844	F	59		1	24	Pulmonary embolism, septic throat.
5324	F	56	6	5	26	Broncho-pneumonia; fractured tibla and fibula.
2149	F	57	16	9	7	Pulmonary tuberculosis.
8243	M	20	1	1	17	Broncho-pneumonia; epilepsy.
8753	M	52		3	23	Sarcoma.
1471	F	69	19	2	18	Acute cardiac failure due to chronic myo- carditis.
8915	M	63			19	Acute cardiac failure; chronic myocarditis.
8674	F	41		5	24	Scalds received by accident in continuous
		-				bath.
5603	M	50	5	10	14 18	General paralysis; exhaustion.
5903 8964	F M	64 56	5	2	6	Broncho-pneumonia.  Acute cardiac dilatation; acute pericarditis
0001	244	-			-	and broncho-pneumonia.
6917	M	70	3	2	7	Auricullar fibrillation.
8765	F	75	****	4	14	Broncho-pneumonia.
8933 8542	F	62 38	1111	9	3	Chronic myocarditis. Pulmonary tuberculosis.
8962	M	69			23	Chronic myocarditis; auricullar fibrillation.
8984	F	39	****		12	Chronic myocarditis; manic excitement; ex-
0071		10			10	haustion.
8871 8692	F	18 28	1000	. 2	16 14	Broncho-pneumonia. Broncho-pneumonia; general paresis.
9004	M	38	1000	5	21	Exhaustion; acute excitement.
5817	M	42	5	6		Adenocarcinoma of right maxillary region.
8775	F	78	1111	4	28	Broncho-pneumonia; pernicious anaemia.
8994	F	30 65	3	11	2 25	Exhaustion due to catatonic excitement. Bilateral iliac thrombosis.
6495 9001	M F	60		11	21	Chronic myocarditis.
8640	M	22	1111	8	5	Generalized tuberculous adenitis.
9032	F	15	****	4	16	Broncho-pneumonia.
8722	M	80 52	20	7 3	20	Broncho-pneumonia. Pyo-nephrosis; renal calculus.
1289 9058	M	19	20		13	Septicaemia; laceration of right forearm and
2000						hand received in epileptic confusion.
8891	M	68	1011	3	25	Auricullar fibrillation; hypostatic pneumonia.
9062	F	28 61	25	11	12 13	Acute glomerular nephritis.
254 9085	M	31	20	11	hrs.	Myocarditis. Epilepsy; status epilepticus; exhaustion.
6779	F	56	3	7	12	Myocarditis.
6384	M	21	4	3	27	Broncho-pneumonia.
9054	M	36	1000	1	12	Broncho-pneumonia; shock following rup- ture of bladder.
6935	M	47	3	4	24	Chronic myocarditis; generalized arterio-
0000		-				sclerosis.
1537	F	69	19	3	6	Chronic myocarditis.
9119	F M	39 80	5	4444	9	Pulmonary embolism. Coronary thrombosis.
4753 8447	M	78	1	2	5	Pernicious anaemia.
9029	M	56	1000	2	21	Cancer of left kidney.
564	F	63	24	1	7	Cancer of ovaries.
7043	M F	36 41	3	2	22	Pulmonary tuberculosis. Pulmonary tuberculosis.
9167 9197	F	81	2000	****	10	Exhaustion; senile psychosis.
2515	M	66	15	11	. 2	Coronary thrombosis.
8668	M	70	15	11	1	Coronary thrombosis.
2665	M	48	15	3	14	Gunshot wound in head; fracture and hae- morrhage.
975	F	57	22	1	17	Tuberculous pneumonia.
8486	F	69	1	3	2	Myocarditis; cardiac failure; hypostatic
0945	7.5				5	pneumonia. Exhaustion; acute mania.
9245 9134	M M	55 50	100	2	11	Tabo-paresis.
8655	M	58	1		7	Rheumatic endocarditis with right-sided
						failure.
8665	M	34	1	2	9	Pulmonary tuberculosis.
5686 9281	M	40 88	6	2	21/2	Bilateral broncho-pneumonia. Heart failure; coronary sclerosis.
9288	F	32		****	11/2	Pulmonary infarction.
8940	F	33	****	7		Sub-acute bacterial endocarditis.
3053	M	47 51	13	9	5 19	Chronic nephritis with uraemia. Hypostatic pneumonia; cerebral tumour.
4676 9072	M M	76		4	11	Chronic myocarditis; myocardial degenera-
7.2					1	tion.
9270	F	57	****	****	26	Chronic myocarditis and myocardial degen- eration.
9094	F	62		4	6	Lobar pneumonia.

TABLE No. 9-Continued

Regist				e in Hospi		Cause of Death
No.		Age.	Years.	Months.	Days	
9050	M	64		5	5	Cerebral arteriosclerosis.
9246	M	60		1	15	Broncho-pneumonia; inter-cranial haemorr- hage.
8612	F	84	1	2	19	Hypostatic pneumonia.
402	F	64	25	2	6	Pulmonary tuberculosis.
2500	F	69	16	1	24	Acute enteritis.
9163	M	63		3	12	Broncho-pneumonia.
9326	F	74			14	Broncho-pneumonia.
9059	M	71		5	27	Lobar pneumonia; schirrous carcinoma of stomach.
7451	F	52	2	3	7	Pulmonary tuberculosis.
9214	F	56		3	3	Myocarditis.
8878	F	72		9	26	Broncho-pneumonia.
5328	M	72	7	2	22	Generalized arteriosclerosis; coronary throm- bosis.
6024	M	88	5	7	11	Chronic myocarditis; coronary sclerosis.
5063	M	42	7	11	2	Asphyxia due to epileptic seizure.
8546	F	41	1	5	3	Pulmonary tuberculosis.
9036	M	65		7	7	Broncho-pneumonia.
4461	F	43	9	6	3	Pulmonary tuberculosis.
8510	F	45		8	10	Suicide by jumping from fire escape.
5996	F	41	4	2	24	Carcinoma of stomach and pulmonary tuber- culosis.
9403	M	23		****	2	Acute exacerbation of chronic encephalitis.
8485	M	42	1	7	7	General paresis; exhaustion.
1858	M	65	17	8	14	Chronic myocarditis; cerebral arterio-
						sclerosis.
9438	F	48		-	2	Chronic nephritis.
8544	M	32	1	6	27	Softening of brain, multiple areas (cause
						undetermined).
7485	M	54	3	1	21	Acute colitis; bilater parotitis; general
			100			paresis.
8746	M	66	1	2	27	Broncho-pneumonia; generalized arterio- sclerosis.
7828	F	61	2	6	8	Chronic myocarditis.
9332	M	26		3	5	Broncho-pneumonia.
34	M	63	27	4	24	Lobar pneumonia.
2	M	63	27	- 4	26	Uraemia; Bright's disease.
3449	F	56	12	7	22	Myocardial degeneration.
9077	M	18		8	9	Brain tumours (cerebellar).
8141	F	44	2	2	11	Broncho-pneumonia.
9468	M	60			5	Myocarditis; mitral stenosis.
1760	M	64	19	2	3	Broncho-pneumonia with failure of right
2100	147	0.1	10	-		side of heart, and oedema of lungs.

# PROVINCIAL AUXILIARY HOSPITAL, CLARESHOLM, ALBERTA

(M. CARNAT, M.D., Medical Officer in Charge)

Movement of Patients.—In residence on January 1st, 1938, there were 98 patients. As in former years, the transfer of patients from the Provincial Mental Hospital to this institution, and the return of patients from this institution to the former, accounted for the bulk of the patient changes.

There were six patients transferred to this hospital. One patient was discharged to her relatives as unimproved. Three patients were returned to the Provincial Mental Hospital. Two were actively disturbed, and the facilities for looking after them were lacking. One patient was returned because of an acute illness. There were three deaths during the course of the year.

Accidents and Elopements.—There were no elopements. There were no accidents of a serious nature. A few patients suffered slight bruises or sprains.

General Health.—In general, the health of the patients and staff has been good. There were two deaths due to degenerative conditions. However, one patient died of pulmonary tuberculosis and one patient was transferred to the Provincial Mental Hospital because of active pulmonary tuberculosis. Because of this, all the patients and staff were given Mantoux tests, and those that had a marked reaction were very closely examined and observed. No further cases were detected.

There are a large number of elderly frail patients, and an increase in the morbidity and mortality rate can be expected with the passage of years.

There is need for more surgical equipment in order to do minor surgical procedures. A portable X-Ray apparatus for use in this institution and the Auxiliary Hospital at Raymond would be of great value.

Dentistry.—The dental work was carried out by Dr. Sneddon on his yearly visit here, and the local men co-operated kindly to do the emergency work that was necessary.

Occupational Therapy.—The occupational therapy department continued to do excellent work. Miss E. D. Smith, R.N., who is in charge of this department, is to be congratulated upon the progress there. More equipment was obtained and many more patients were given instruction. Several outdoor games were obtained for use of patients. A bazaar for the sale of articles made in this department and a tea was held during the Fall. The response was indeed very gratifying. Over \$100 worth of goods was sold. In addition, sale of articles continued during the entire year.

The Library.—The patients library was utilized to the fullest extent during the entire year. Many more books were obtained. Some periodicals were also obtained for patients. There are now over 350 volumes in the library.

Lectures.—The Medical Officer spoke several times to the staff upon various aspects of psychiatric treatment. Several lectures were given upon request to various local organizations on mental health problems.

Buildings.—Improvements were made in the various buildings, and the buildings were maintained in a good state of repair. A sleeping porch and glassed-in verandah were added to the Nurses' Home. In addition, many of the rooms in the home were redecorated.

There were improvements made for keeping patients' clothing. Lockers and cupboards were built and improved.

Mr. Lewis, of the Building Maintenance Department, and Mr. Hutton, the Chief Engineer, were very kind and helpful in connection with this work, and we are thankful to them for their cooperation.

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

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

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

A weiner roast was held in September for the patients who had assisted with the gardening and occupational work. The tea and sale of occupational therapy work was held on October 22nd, patients assisting with this.

A Hallowe'en party and dance for the patients was held on November 3rd, which was very much enjoyed.

On December 20th a Christmas party was held for the patients. A local group of young people kindly presented a light play for the patients.

The Choir of the United Church, under the leadership of Mr. A. Laurie, kindly presented an enjoyable programme of Christmas music on December 22nd.

Gardens and Grounds.—The grounds were improved during the year. More flower beds were laid out and more trees were planted.

The vegetable garden was very good, and sufficient vegetables were obtained for the entire year. Our thanks are due to Mr. Summerfield, the gardener, for his good work.

Dietetic Department.—This department, under the dietitian, Miss Drew and her assistants, continued to do excellent work. The patients and staff were provided with excellent varied diets during the entire year.

Staff Changes were few during this past year. Miss Merran E. Drew obtained leave of absence for one year to fill the position of dietitian at the University of Alberta Hospital during the absence of their dietitian. She was replaced by Miss Helen J. Drew, who has continued her excellent work.

The entire staff continued to maintain a very high standard of efficiency, and our thanks are due to them for their kind cooperation.

Visitors.—Periodic visits were made to the hospital by the Medical Superintendent of the Provincial Mental Hospital, whose advice and co-operation were of inestimable value.

The members of the Eugenics Board, as a Board of Visitors, visited and inspected the institution during the early part of the Fall.

Relatives and friends of patients continued to visit the institution.

Many people of the community continued to visit the hospital and to take a keen interest in its welfare. Their co-operation is gratefully acknowledged.

Conclusion.—The past year was a successful one in the operation of the hospital. The relationship between the hospital and district was pleasant at all times.

The staff maintained a high degree of efficiency and our thanks are due to them for their excellent work.

### DEPARTMENT OF PUBLIC HEALTH

#### TABLE No. 1 MOVEMENT OF PATIENT POPULATION DURING 1938

	Male	Female	Total		Female 98	Tota
n Residence January 1, 1938				100	30	00
Admissions:						
(a) Voluntary	1111	****	1111			
(b) Certificate			4000			
(c) Warrant	****					
(d) Order	100	c	6			
(e) Transfers		6	0			
Re-admissions:						
(a) Voluntary		1111				
(b) Certificate	****	1000	****			
(c) Warrant	1111	****	****			
(d) Order	****	****				
(e) Transfers		****	****	0	e	6
	-	-		0		
					104	104
Total				****	201	
Discharged during the year:						
(a) As recovered		****	1000			
(b) As improved		1000				
(c) As unimproved	1111	1	1			
(d) As without psychosis			100			
(e) Transferred to other hospitals		3	3			
(f) Eloped	****	****				
(g) Deported to other countries	1000	2000	1949			
(h) Deaths		3	3			
(II) Details	-	-	-		7	
				-		-
n Residence at end of year					97	97

TABLE No. 2

#### SHOWING THE DIAGNOSIS OF THOSE IN RESIDENCE, DECEMBER 31, 1938

1 '	Traumatic neveloses	Male	Female	Total
	Traumatic psychoses Senile psychoses	****	1	1
	Psychoses with cerebral arteriosclerosis	2000	2	2
4	General paralysis		ī	1
5	Psychoses with cerebral syphilis	****		
6	Psychoses with Huntington's Chorea	****	2111	
	Phychoses with brain tumour	****		
	Psychoses with other brain or nervous disorders:		****	0000
	(a) Chronic encephalitis		1	1
	(b) Disseminated sclerosis			
	(c) Tuberculous meningitis			
	(d) Undefined			
9	Alcoholic Psychoses:			*****
	(a) Delirium tremens			
	(b) Chronic alcoholism	1111	1	1
	(c) Deterioration		1	1
10	Psychoses due to drugs and other exogenous toxins			
11	Psychoses with pellagra			
12	Psychoses with other somatic diseases:			
	(a) Post-infectious		1	1
-0 1	(b) Diabetes			
13	Manic-depressive psychoses:			
	(a) Manic phase	*****	2111	811.02
	(b) Depressive phase	****	4	4
	(c) Mixed	****		
	(d) Circular			1000
	Involutional melancholia	****	4	4
15 1	Dementia praecox (Schizophrenia):			
	(a) Paranoid		25	25
	(b) Catatonic		19	19
	(c) Hebephrenic (d) Simple	*	8	8
			2	2
16 1	(e) Mixed Paranoia and paranoid conditions	****		
	Epileptic psychoses	****	11	11
	Psychoneuroses and neuroses:	****	2	2
	(a) Hysterical type			
	(b) Psychasthenic type	****	2121	1160
	(c) Neurasthenic type	****	****	5111
	(d) Anxiety state	****	1111	HITE.
19 1	Psychoses with psychopathic personality		2014	4114
20 1	Psychoses with mental deficiency	****	9	9
	Undiagnosed psychoses		1	1
	Without psychoses:			
	(a) Epílepsy			
	(b) Alcoholism			1012
	(c) Drug addiction		****	****
	(d) Psychopathic personality		****	0.000
	(e) Mental deficiency		4	4
	(f) Psychoneuroses			
	(g) Hysterical episodes			
	(h) Organic nervous disease			
	(1) Disseminated sclerosis			
	(j) Sacro-iliac arthritis			1111
	(k) Neuro-syphilis			
	(1) Sex perversions	1010		
	(m) For consideration by Eugenics Board	4444	****	
	Total	-	-	_
			97	97

#### TABLE No. 3

#### RECORD OF DEATHS DURING 1938

Regist	er		Time in	Mental Ho	spital.	
No.	Sex.	Age.	Years.	Months.	Days.	Cause of Death
138 4122 4632	F F	64 53 53	26 10 9	11 3 1	16	Pulmonary tuberculosis. Cerebral haemorrhage. Chronic endocarditis with mitral stenosis and mitral regurgitation.

# Provincial Mental Institute, Edmonton, Alberta

(W. J. McAlister, M.D., Medical Superintendent)

#### GENERAL REMARKS

We had a total of 562 patients on our books at the close of the year 1937. This number was increased during the year 1938, due to the occupation of the new dormitory building. We began admitting patients from Ponoka in April, 1938, and continued until the unit was filled to capacity. The total admissions during the year were 259, including first admissions (that is, direct admissions) 28, re-admissions 2, and tranfers 229. This gave us a total of 769 patients on our books at the end of the year. As a result of these admissions our accommodation was again brought up to full capacity. Our total discharges were 42, of whom 28 died. For details regarding cause of death, age of patients at death, etc., I would refer you to Table No. 15. The other tables enclosed are also of considerable interest, especially those dealing with nativity, citizenship, industrial groups from which patients are drawn, and classification. It is also interesting to note that of our total population, 416, or 54.1%, were suffering from dementia praecox, practically all of the chronic type.

#### INSTITUTIONAL ACTIVITIES

Little was done in the way of special construction to add to our therapeutic facilities. However, the importance of occupational therapy and other forms of treatment was kept in mind and, as far as possible, introduced and made effective. In this connection, I might mention the use of "shock" therapy in a series of cases, the results of which will be discussed in detail at the meeting of the Academy of Medicine to be held at the Institute June 7th, 1939. However, I feel much more might be accomplished if many of the more or less vegetative type of patient could be forced, shall I say, to interest themselves in some form of constructive activity, having for its object, of course, the renewals and re-establishment of an interest in reality. This "total push method," so called by Dr. Myerson, would necessitate additional staff. At the present time, and under our present set-up, it is only the more active patient who is profiting from such form of therapy.

Religious Services.

Church services were continued according to schedule, and much appreciated by quite a large percentage of our active patients. Our thanks are due the visiting clergymen for their efforts in this very important field of institutional work.

#### Health.

It gives me real pleasure to report the continued good health of our population as a whole. Table No. 16 shows one case only of

death from Pulmonary Tuberculosis. There were no epidemics, and cases of emergency surgery were few. One such case was operated upon successfully in the Institute. The others were sent to the University Hospital for the necessary attention.

The Farm.

This work was continued in quite a satisfactory and efficient manner under the managership of Mr. W. J. Shearer. Co-operation has been good, and the co-ordination of service as between the farm and Institute has proven both economical and beneficial. A financial statement is appended. In connection with this statement, I would like to point out that under the set-up undue credit is given the farm regarding production of vegetables. I grant that considerable work is done by the farm personnel and equipment, especially in planting and harvesting the potato crop, but the hospital, through our gardener, Mr. Paton, assumes all responsibility for the potato crop and all other vegetables as well, hence deserves equal if not greater credit than the farm management in this phase of institutional activity.

Institutional Progress.

Routine activities of the Institute were carried on and a general standard of administration maintained. Progress has been limited, however, due to the continued lack of certain facilities accepted as essential in any modern hospital of this kind. There were certain changes in the staff, two junior doctors resigning. Dr. S. Spaner, a graduate of the University of Alberta, was finally engaged for the junior position on July 31, 1938, and still remains on the strength of the hospital. He has proven himself a loyal and efficient employee. We were fortunate in securing the services of Dr. W. L. Valens, who assumed his duties as Assistant Medical Superintendent on June 20th, 1938, following a year's special study in child guidance work in Los Angeles under the auspices of the National Committee for Mental Hygiene. I feel we have added much to the standing of our hospital and to psychiatry as a whole in the Province of Alberta as a result of this appointment.

There was considerable sickness amongst the members of the staff, much of which fortunately was of minor character. Routine lectures were given, subjects being assigned to each member of the medical staff. Examinations were held, and a real interest was shown at all times by the attendant staff. Extra institutional activities, such as University lectures, Mental Hygiene Clinics, Police Court work, etc., were undertaken by the Superintendent, necessitating his absence from the Institute a good deal of the time. All members of the staff co-operated well in hospital routine throughout the year, and I take this opportunity of thanking each one for his loyal and faithful service.

Finances.

Financial statement, submitted by our bursar, Mr. T. V. Murray, is herewith appended. It shows a per capita cost per day of 55¾c, the lowest in the history of the Institute. This result reflects very favourably on the care and supervision exercised not only by our bursar and store-keeper, but also by others who have had to do with institutional expenditure.

#### CONCLUDING REMARKS

In concluding, I wish to thank the Superintendent of Maintainance and Construction for his ever ready spirit of co-operation and assistance, and in thanking him I have in mind those members of his staff who are directly associated with the hospital. There are many problems directly affecting institutional progress on which I would like to enlarge, especially those which have to do with facilities for recreation, therapy, physical treatment, etc. The condition of crowding in our hospitals has been temporarily relieved, but by no means solved. These problems and the suggestion brought forward in the report of 1937 dealing with the establishing of this hospital on an active treatment basis, I would again respectfully present at this time for your earnest consideration.

#### TABLE No. 1

MOVEMENT OF POPULATION			
Patients on books January 1st, 1938:	Males	Females	Total
(a) In Hospital	548		548
(b) On Probation	4		4
(c) Elopements		3.000	2000
Total	552		552
Advisolone Dunlant Venns	-	1	
Admissions During Year: (a) First Admissions	28		28
(b) Re-admissions	2		2
(c) Transfers	229		229
		_	050
Total	259	****	259
Total Received During Year:			
(a) Transfers	229		229
(b) Re-admissions	2		2
(c) By Warrant	14		14
(d) Voluntary	2	9918	2
(e) By Certificate	12		12
Total	259		259
Total on books during year	811	-	811
	_	-	-
Discharged During Year:			
(a) As Recovered		*****	
(b) Improved	9 2	1111	9 2
(c) Unimproved (d) Without Psychosis	1		1
(e) Transfers	2		2
(f) Deaths during year	28		28
	-		-
Total	42		42
Deticute on Decks End of Verns		-	-
Patients on Books End of Year: (a) In Hospital	759		759
(b) On Probation	9		9
(c) Elopements	1		1
Total	769	1000	769
Total Admitted Since Opening	1113		1113
		-	
Total Discharged Since Opening	238		238
Total Deaths Since Opening	151		151

		TABLE N	0. 2	
NUMBER	OF	OFFICERS	AND	EMPLOYEES
lent				

	Males	Females	Total
Medical Superintendent	1		1
Assistant Medical Superintendent	1	****	1
Medical Officer	1		1
Dentist (part time)	1		1
Administrative Assistant	1	3010	1
Bursar	1	2010.	1
Store-keeper	1		1
Stenographers and Clerks	1	2	3
Night Supervisor	1	9	1
Graduate Nurses	****	2	2
Other Female Nurses	00		69
Male Attendants	69		63
Social Workers		2171	1000
Teachers		2004	- 1
Occupational Therapist	1		4
Kitchen and Bakery	2	1	3
Laundry	2	1	3
Gardeners and Assistants	10	4414	19
Engineers and Mechanics	10		10
Other Male Employees	10	****	10
Other Female Employees	1010	****	****
Total	110	5	115

# TABLE No. 3 PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION OF PATIENTS

Patients Insane Epileptic (not insane) Mental Deficiency (not insane)	Males 688 6 70	Females	Total 688 6 70
Alcoholic (not insane)	1000		
Drug Addicts (not insane)	460		4111
Neurosyphilitics (not insane)	****	****	
All other types (not insane)	4	****	4
Undiagnosed	1	****	1
Total Population	769	-	769
Industrial Workers	36		36
Garden Workers	95		95
Internal Workers	415		415
External Workers	21	1481	21
Doing no work	192		192
On Probation, Parole, etc.	10	143.6	10
Total Population	769		769

#### TABLE No. 4 NATIVITY OF PATIENTS IN RESIDENCE

	Males	Females'	Total		Males	Females	Total
Canada	303		203	Japan	2	****	2
Australia	1		1	Norway	22	****	22
Austria	57		57	Poland	35		35
Belgium	2		3	Roumania	8		8
China	4		4	Russia	41		41
Denmark	A		4	Scotland	26	****	26
England	95		95	Sweden	19	1000	19
Finland	15		5	Switzerland	6	2000	6
France	· · · · · ·		9	United States	113		113
Germany	27		27	Wales	8		8
Holland	9		2	Other Countries	25	****	25
Hungary	17.		5	Unascertained	17		17
Ireland	20		20			-	NAME OF TAXABLE PARTY.
Italy	12	1000	12	Total	769		769

# TABLE No. 5 CITIZENSHIP OF PATIENTS IN RESIDENCE

Citizen by Birth Citizen by Naturalization Aliens Unascertained British Birth out of Canada	Males 237 52 305 34 141	Females	Total 237 52 305 34 141
Total	769		769

Total	769		769
TABLE No. 6 DENTAL REPORT	Males	Females	Total
Patients Examined Patients Treated	760 510	****	760 510
Prophylactic Treatment	242 161	****	242 161
Extractions	273 18	4111	273 18
New Dentures Dentures Repaired	9	1111	9
General Anaesthetic Denture Adjustments	14	****	14

PSYCHOSES
PRINCIPAL
AND
ADMISSION
AT
AGE

AGE		W	CIMIN	AI ADMISSION	-	17	1000	1	+ 2 +	777	200000										
	F	Total	II	Under 15 years	15 0	SARG	No.	15 to 19		20	to 2	10	64	5 to	29	30 t	0 34		33	to 3	6
Pevehoses	M.	F.	H.	M.	i ii	T.	W.	H.	H.	M.	M. F. J	H	M	M. F. T	H	M.	F. T	T.	M. F. 7	(E)	F.
The The state of t										-	1							-	-		4000
1 Ifauliant	~		00							-		-						-		-	-
3 Cerebral Arteriosclerosis 2	-		21					-	1		-	-				14	-	11		1	
4 General Paralysis	-		22					****	2000	1	-	1						0 +	*		
5 With Cerebral Syphilis	_		-				*****			-	1	-	1					1			
6 Huntington's Chorea	01		24	1000			-	1			1	-							-	-	
7 With Brain Tumour	_		-			4104		-	-	1	-	*****	1				1				
8 With other Brain Diseases	00		00		1	. 4144	1		-	-	1					1		-			
9 Alcoholic			4	1000	****				-		-								4		
10 Due to Drugs							*****			-	1	*****	1				-			-	1000
11 With Pellagra		anna .					1000			*****	-	1000								-	
12 Other Somatic Diseases			100		****		*****				1	-					1000				
13 Manic Depressive	63		22				-		2000	*****	-	-						4	*	1	
14 Involutional Melancholla	00	****	00	1		1			1	100	-	1	100							-	00
15 Schizophrenia	10		91				17		17	19		19	25					200	00'	-	00
16 Paranoia and Paranoid Conditions	-		25	1000	-		-			11	1	1						-0		1	0 4
17 Epileptic Psychoses	0.1		52				1		1	2		0						0	•		
18 Psychoneuroses and Neuroses	- 1						-				*****									-	
***************************************	201		N			-				i k	-	M	1.					11	10		10
	400		20.	1		1	2		2	0	1	0	7						70		10
10868	-		_			-	*****				i	*****	1000	-					-		
22 Without Psychoses:			9				63		63				44				-	1	1	1	0000
4	70		0/	4		¥	18		18	18		18	6	6	6	00		00	00 0	1	60 6
) fee			45	1		1	2000			1		-							N		23
			1	1	1	1	1		1	13	1	18	1				68	18	18	1	18
Total		7	65	7		7	41	-	41	90		90	12					30	66	-	66

			TAI	TABLE N	No. 7a											
	AGE	AT ADMISSION AND PRINCIPAL PSYCHOSES	SSION	AND I	PRINCI	PAL PS	SYCHOS	ES								
	40 to 44	45 to 49	49	50 to 54	54	55 t	55 to 59	60 t	60 to 64	65 to 69	69 0	70 and over	over	Unascertained	rtaine	pa
Phychoses	M. F. T.	M. F.	T.	M. F	F. T.	M.	F. T.	M.	F. T.	M.	F. T.	M.	F. T.	M.	F. 1	E
Traumatic													10	-		10
Senile		***************************************		N.		70				00		10	07	1		-
Cerebral Arterioscierosis	0	10	- 0			7 -	7 -	00	000	2-	-					
General Paralysis	0			4		,										
Huntington's Chones	¥ I			-	-											
Desin Tymotte		1														
Other Brain Diseases	1 1	1	1	63	60					*****				-		-
Alcoholic	20							1000						****		
Due to Drugs										-	101 101					
With Pellogra				* ****						1						
Somatic Diseases					- Bres.	Title .				-	***************************************		****	-		
Manic Depressive	4 4	4	4	7	1	-				-						
Involutional Melancholia									1	1				100		M
Schizophrenia	34 34	24	24	16	16	31								0		0
Paranola and Paranold Conditions	16 16				13					+			- Table - 1000			
Epileptic Psychoses	1 1			-		1	1			1111						
Psychoneuroses and Neuroses				-												
Psychopathic Personality	Day 100 Day		-								*****		-			
Mental Deficiency	0					- 0										
Undiagnosed						1	4	-								
without respondees.	1 1						1000				and come					
	4 4	63	63	63	65			1000		1						4000
					*****				411 1111	*****			***************************************	***		-
	1 1 1	1				1	1	1	1	13	1	13		1	1	1
Total	77 77	53	53	26	26	27	27	23	23	12	12		18	7		-

TABLE No. 8
DEGREE OF EDUCATION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

	DEGREE OF EDUCATION OF FIRST ADMISSIONS WITH	CAT	ON	OF	IKSI	A	JMIS	SICIN	2	1111	Luli	3	FRINCIPAL FEIGUSES	10.10	200	2						
			Total		I	Illiterate		Re	Reads and Writes	pun	200	Common	no.	High	High School	loo	Uni	University	ity	5+	Unascer- tained	-Lp
	Psychoses	W.	E.	T.	M.	(E)	H	M.	[in	H	M.	14	H	M.	í.	T.	M.	E.	Fi	M.	Œ,	H
		186	1	28	67		:01	:00	1	00	15	11	15	-	11	-	11	11	11	61	1 1	63
NO	Corohrol Arteriosclerosis			21	47		4	00	1	00	6		6	-		1	-	1	-	****		1
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TABLE No. 10 ECONOMIC CONDITION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

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

USE OF ALCOHOL BY FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES           ses         M. F. T. T. M. F. T.	76
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USE OF ALCOHOL BY FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSI  Total Abstinent Temperate  Total Abstinent	
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TABLE NO. 11  USE OF ALCOHOL BY FIRST ADMISSIONS WITH  Total Abstinent  M. F. T. M. F. T.  28 28 11 11 11 11 11 11 11 11 11 11 11 11 11	435
TABLE NO. 11  USE OF ALCOHOL BY FIRST ADMISSIONS WITH  Total Abstinent  M. F. T. M. F. T.  28 28 11 11 11 11 11 11 11 11 11 11 11 11 11	11
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TABLE No. 12
MARITAL CONDITION OF FIRST ADMISSIONS WITH PRINCIPAL PSY

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		TAE	TABLE No. 13	0. 13							
INCREASE OF PATIENTS DURING THE	ENTS DUI	RING	THE	FEAR W	TTH P	YEAR WITH PRINCIPAL PSYCHOSES	PSY '	CHOSES	**		
	L	Total		1st	1st Admission	don	Re-	Re-Admission	uc		Transfer
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	12		12	9		9		****	1	91	1
3 Cerebral Arteriosclerosis	9		9	1			-		1	0 !	-
	17		17	-	7					11	*****
5 General Syphilis		****				4000	-	****			*****
6 Huntington's Chorea	1	-	1	****	****	-	-	-		1	1
7 Brain Tumour	- Company			and a		-				i de	****
8 Other Brain Diseases	9	-	9	63	0000	53	*****	1	-	4	-
9 Alcoholic	*****	-		-	*****		-			11/11	-
	*****		and a	-	*****		-		1011	-	
11 With Pellagra	*****	-	*****	-		2000	-	*****			-
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20 Mental Deficiency	15	*****	12	1	*****	-		****		14	
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Without Psychoses:											
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Total	259	-	259	28	****	28	01	*****	63	229	3111

DECREASE OF PATIENTS DURING THIS YEAR WITH PRINCIPAL PSYCHOSES

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							Disch	Discharged	P									
	E	Total		Rec	Recovered	P	Impi	Improved		nim	Unimproved	p	Tra	Transfer		Ď	Death	
Psychoses	M.	. F.	T.	M.	E.	T.	M.	F. T.		M.	F. T.		M.	F. 7		M. I	F. T.	F
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Other																		
Cuner					******													
Manic Depressive	2		22															. 0
Involutional Melanchol														100				M
				*****				100						1011				
Democratic	10	Serve .	10	*****		****	N		23		1	-				1		2-
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Total	42	-	42	District .		*****	6	-	6	6.5	00	00	2		2		98	CX.

CAUSE OF DEATH—PRINCIPAL PSYCHOSES—AGE AT DEATH—DURATION OF HOSPITAL LIFE

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Day 17	12	223	1	188	15	ব	24	6	7	21		13	10	001	10			18	133	N	-	10	1	10		9	9		
Duration of Hospital Years Months	101-	10	9	00 00	10	¥		00	00	11		00	10	9			00		10	00	-	00	9	01		63	7		
Duration	61		61	0110	63	16		111	19	7		21	1	00	13		19	6	00	5.6	-	13	15	10		1	00		
Age 67 68	74	83.4	130	59	70	61	67	77	21	54	-	21	25	25	42	1	54	99	74	29		72	44	89		23	18		
Cause of Death Broncho-Pneumonia General Peritonitis	Hypostatic Peritonitis Carcinoma, Ampulla of Vater	Coronary Occlusion Broncho-Pneumonia	Broncho-Pneumonia	Broncho-Pneumonia Cerebral Arteriosclerosis		Myocarditis and Myocardial De-	Chronic Myocarditis	Senility and Deterioration	Coronary Occlusion	Athroma of Coronaries	Chronic Myocarditis with Auricu-	lar Fibrillation	Post-operative Shock	Broncho-Pneumonia	Tuberculosis of Lung	Arteriosclerosis with Myocardial	Decomposition	Coronary Occlusion	Chronic Myocarditis	Post-operative Snock	Broncho-Pheumonia; Apoplexy with	left-sided Hemiplegia	Epilepsy with Psychoses	Broncho-Pneumonia	Cerebral Apoplexy with Arterio-	sclerosis	Epilepsy		
Fi∞				5		-	61		-									9					-	1	-		1	1	28
Total F.																												1	
				2		1	2		7									4					-	1	-		1	1	28
2 Senile Phychoses				3 Cerebral Arteriosclerosis		9 Alcoholic	13 Manic Depressive		15 Schizophrenia									16 Paranoia and Paranoid Conditions						20 With Mental Deficiency			22 Epilepsy without Psychoses		Total
							-		m									m					-	C)	04		64		

### DEPARTMENT OF PUBLIC HEALTH

#### TABLE No. 16 RELIGION OF PATIENTS IN RESIDENCE

	Males	Females	Total
Baptists	23		23
Episcopalians	83	400	83
Jews	9	****	9
Presbyterians	78	****	78
Roman Catholics	190	****	190
United Church	67	1175	67
Other Denominations	267	1111	267
Unascertained	52	777.4	52
Total	769		769

#### TABLE No. 17

### OCCUPATION OF PATIENTS IN RESIDENCE

	Males	remaies	Total
Professional	3	****	3
Commercial	21	4111	21
Agricultural	241		241
Mechanics Outdoor	21		21
Mechanics Sedentary	36		36
Domestic Service	3	****	3
Education	3	1111	3
Miners, Engineers, Carpenters, Painters	52	1111	52
Labourers	294		294
No Occupation	71	****	71
Unascertained	24		24
		-	===
Total	769		769

# Provincial Training School, Red Deer, Alberta

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

#### MOVEMENT OF POPULATION

On January 1st, 1938, there were 215 patients (112 male, 103 female) in residence, and 214 (111 male, 103 female) on December 31st, 1938.

During the course of the year there were 14 additions—9 first admissions (7 male, 2 female) and 5 transfers from Ponoka and Oliver (2 male, 3 female).

There were no re-admissions, but one patient had previously been in Ponoka (1935) for five months as an epileptic.

Separations totalled 15; 5 patients discharged on parole (1 male, 4 female), 5 males transferred to Oliver or Ponoka, and 5 deaths (4 male, 1 female).

The admissions were all, without exception, of the voluntary type. Their ages ranged from 5 to 25 years, with an average of 13 years and 2 months.

The ages of the 5 patients discharged on parole averaged 22 years and 1 month; of the 5 patients transferred to Oliver or Ponoka, 25 years and 9 months; and of the 5 who died, 27 years and 7 months.

The net result has been a decided reduction in the age incidence of those in residence, quite contrary to the usual trend.

One of the patients transferred had been here for over 13 years and two over 15 years. Of the 5 who died, 1 had been in residence in the Training School for about 13 years, 1 almost 15 years, and 1 for 3 months short of 20 years.

There was only 1 elopement, that of a girl just admitted from Ponoka following her sterilization. She was returned later.

In addition to the 5 paroles, 3 boys were tried on farms in the Fall. Two were returned, and 1 is still on trial.

These and other interesting facts are set out clearly in the appended Tables. Table 10 shows the deaths covered such diverse conditions as Status Epilepticus, Diabetic Coma, Broncho-Pneumonia, Pernicious Anaemia and Cerebral Compression due to spontaneous subdural haemorrhage.

Table 11 shows 41% of our population to be of the totally helpless type from either physical or mental causes; 19.6% are epileptic.

#### NUMBERS OF DEFECTIVES

Thirty-six applications for admission were added to the waiting list (23 male, 14 female), bringing the total at the end of the year

to 179. These are all active cases, many of them of a pitiable or tragic nature. This total comprises:

	Male	Female	e Total	
Infirmary (physically helpless) (sex ignored) Low Grade (mentally helpless) School Children (under 16) Adult Group (over 16)	34	21 20	43 55 33 48	
Adult Group (over 16)		10	179	

Forty-one suspect forms were received (24 male, 17 female), bringing the number of defectives known to us but not definitely seeking admission to the Training School to 539.

Table 14, summarizing these figures, shows 214 patients (111 male, 103 female) in residence at Red Deer; 179 (101 male, 78 female) seeking admission to Red Deer; 188 (130 male, 58 female) mental defectives "not insane" in Ponoka, Oliver and Claresholm, and 539 cases reported, bringing the total of known and ascertained mental defectives for the Province of Alberta to 1,120.

#### DEFECTIVES EUGENICALLY STERILIZED

No new cases were presented to the Eugenics Board during the year, as all possible cases had already been presented and the new admissions old enough for sterilization had already been operated on at Ponoka before being transferred here. Four cases approved of by the Board late in 1937, but held back owing to mumps, were operated on. Table 15 gives the status praesens.

Of the 117 patients who have been through the Training School and have been sterilized:

- 46 are still in residence (21.5% of the population at the end of the year);
- 22 are in other mental institutions;

4 are deceased;

- 42 are out, adjusting well or reasonably well, and are definitely not sexually delinquent; five of these were married before sterilization and ten have married since;
- 3 are out and have returned to previously well established habits of sex delinquency.

This is not a large enough group to permit of definite conclusions, but as far as it goes it does dispose of the argument that sterilization will favour promiscuity and sex delinquency.

#### HEALTH OF PATIENTS AND STAFF

Although there were many individual cases of illness and many minor accidents and injuries, the health of both patients and staff, as a whole, was satisfactory, and we were spared the recurrent waves of widespread epidemics of the previous year, disrupting routine and dislocating various activities.

In January spontaneous fracture of the thigh occurred in a debilitated, bed-ridden cripple. Healing occurred in reasonable time.

In February and March "colds" and "sore throats" gave rise to an unusual amount of acute otitis media. For several weeks lancing of ear drums was an almost daily occurrence, sometimes two and three in a day. Four of the staff were affected. Later acute laryngitis and sinusitis were not uncommon. Six cases of acute lobar pneumonia occurred in March. All were treated with sulphanilamide. The course of the illness was favourably affected in all cases, and there were no deaths. One empyema in a belated case called for a rib resection in May.

Many heavy "colds" resulted in several broncho-pneumonias in November and December.

Other illnesses and minor accidents were too diverse in type to be easily enumerated.

Dr. Herbert Ross, appointed as dentist on the retirement of Dr. Heacock, visited the Training School twice. On the occasion of his May visit 208 patients were examined—34 required attention which necessitated 19 fillings, 5 extractions and 21 prophylactic treatments. During his October visit 214 patients were examined, and it was found that 83 needed attention entailing 95 fillings, 23 extractions and 36 prophylactic treatments.

#### PATIENTS' ACTIVITIES

All the usual school, occupational, health, recreational and character-building activities have been fully maintained throughout the year.

An average of 14 to 15 children, mental ages ranging from 3 to 6 years, attended the sense training classroom, and 19 to 20 attended the grade schoolroom. The actual ages of those in the sense training class ranged from 5 to 16 and in the grade school from 9 to 15, and from Grade I to Grade V.

Sixty to sixty-five patients past school age worked in the various departments (kitchen, laundry, sewing room, pantry, dining room, wards, etc.), about the grounds, on the farm, or in the garden.

An average of 60 or more low grade patients (idiot and lowest grade imbecile) went daily in groups to the gym or playground for simple exercise and amusement.

The remainder consisted of the 39 infirmary patients and others temporarily ill or absent.

The two carpentry classes averaged a daily afternoon attendance of 30 to 33 and the three sewing classes 49. Splendid work was done in all sections, which drew well deserved praise and sold well at two sales of work held at the Training School (June and December) and at the Red Deer Fair in July. The usual silent exhibit was placed on display at the Edmonton Exhibition in July.

Thirty-two girls attended cooking classes at the beginning and end of the year. At the end of their course the senior class served a really admirable supper, entirely cooked by themselves.

Regular hours were allotted to the various groups of patients for walking, hikes or picnics, skating and tobogganing, softball, etc., throughout the year.

A new feature was the institution of regular weekly classes of instruction in physical training under two of the staff who had taken the Provincial Government's course of training as instructors. There were 37 patients in these classes, two groups of boys (10 and 12) and one group of girls (15). Classes began early in October and lasted one hour a week each. These made a very creditable contribution to the Christmas concert and benefited as much in spirits as in health.

A splendid Sports Day was held in July, in which over 100 patients participated, and was followed by a weiner roast and singsong around the camp-fire in the evening.

Between the third week in June and the end of the first week in August, 123 patients attended camp for a week each, each group going for a truck drive and weiner roast 11 miles east of the Training School each Friday night. A number of non-ambulant patients attended camp for odd days. This little break in the institutional routine is of marvellous benefit to the health and happiness of all, improves conduct and is eagerly looked forward to all spring and its hikes and little adventures talked about all the year.

Seventy-one patients who attended the Red Deer Fair, were admitted to the grounds and grandstand free, and missed but few of the attractions.

An orchestral group from the Seventh Day Adventist "Lacombe Junior College" staged a very enjoyable concert for the patients in April.

The Mother Superior and Sisters of St. Joseph's Convent, Red Deer, entertained 40 patients one afternoon in December.

The usual New Year, St. Patrick and Hallowe'en entertainments were held—a party for the school children in the afternoon (group games, simple folk dancing, etc.), and a dance for the older ones at night, the Hallowe'en dance in home-made fancy dress.

The Christmas concerts (afternoon and evening) reflected the greatest credit on both staff and patients, and the Christmas trees (gym and infirmary) brought their usual thrills to all capable of comprehending their significance.

Scouts (17), Guides (16), Cubs (20) and Brownies (12) met regularly and enjoyed several visits by officials, especially a Scout film shown by Mr. Backman, the Provincial Secretary.

Sunday school attendance averaged 75.

Thirty-two patients were home for holidays in the summer and eight at Christmas for various periods.

#### STAFF CHANGES AND ACTIVITIES

Seven of the staff resigned, 2 to get married, 1 to enter general training, 2 to take up other work, and 2 for other reasons. Two transferred to other institutions. One was dismissed. One Public Works employee, previously an attendant, resigned to go abroad, another to go to the coast for his health.

In the spring 5 nurses and 3 attendants completed their intermediate year and were promoted to the senior class, whilst 5 nurses and 2 attendants were promoted from the junior to the intermediate class. One post-graduate but none of the seniors in training completed their year. In the Fall 2 post-graduates began their one-year course in mental deficiency nursing.

On October 19th was held our first graduating ceremony and dance. Dr. M. R. Bow, the Deputy Minister of Public Health, was present, and 5 mental deficiency graduates of various years, 1 attendant and 1 post-graduate received their diplomas and pins.

On December 1st the staff was augmented by the addition of a general graduate as night supervisor. This filled a long-felt want, and made possible the reduction of the duty hours of the night staff to 9½ hours a night, which is the same as the day staff, gave more adequate supervision of patients and better protection against fire, elopements and accidents.

Two of the staff were granted leave of absence to take the physical instructors course under the Dominion-Provincial Youth Training Scheme. Twenty of the female staff took the semi-weekly classes of instruction which were begun early in October. These classes were in addition to the classes for patients, to which we have already referred.

The social side of the staff life has been very ably cared for by the C.S.A. of A., several picnics and farewell parties being particularly successful.

I would again like to record my very sincere appreciation of the loyal service of all, and particularly for the very practical and genuine interest in the welfare and happiness of the patients shown on many occasions and in many ways, outside of and beyond the strict requirements of duty.

#### GROUNDS

The grounds surrounding the main building were very tastefully laid out and drew many visitors all summer.

#### FARM AND VEGETABLE GARDEN

The operation of these sections is well set out in Table 19, where comparative production for the past three years as well as acreages sown is shown. The weather was favourable, and a good average vegetable crop was harvested, sufficient to meet all our needs without additional purchases. The grain crops were somewhat disappointing, but sufficient for our use.

Milk production was also satisfactory (27,752 pounds from 5 cows), considering we had no very heavy milkers and that a number of boys who had never milked before were being taught. By the end of the year we had three boys who could be classed as good average milkers, five fairly good and steadily improving.

Poultry and egg production were decidedly disappointing, and will continue so until we can get the poultry separated from the pigs, which are fed on swill.

Pork production was more favourable than indicated in this table, which gives only the amounts consumed in the school and omits the 20 young pigs sold.

#### INSTITUTIONAL PROGRESS

Construction and Maintenance.

The insulation of the roof of the main building, begun in the fall of 1937, was completed early in the year. The roof of the boys' cottage was similarly dealt with.

The fence around the low grade playground was taken down and replaced by a greatly improved and in every way more satisfactory one. At the same time the area of the playground was increased by 20%, the added ground providing half a dozen well-grown shade trees. The location of the side doors was altered to fit in with procedures laid down in the fire rules. A number of the boys were

kept very happily occupied by the erection and painting of this fence.

A special gate and fence were built around the area on to which the exits of the tubular fire escape open, so that in case of fire or a fire drill, patients (especially low grades) cannot wander away and get lost.

The old one-storey frame building (45ft. by 60ft.) which stood in a corner of the large playground was removed and placed at the south end of the large tennis court and skating rink. This building had once been used as a schoolroom, more recently as a storeroom, and to some extent a rain shelter. To move the building it had to be cut in two and hauled in sections. In its new location it has been placed on concrete footings, connected with the boiler room by a tunnel to permit of steam heating, the walls and roof insulated, and it is now being used as a paint shop. The former paint shop has been taken over by the carpenter, and has to that extent eased the overcrowding which was hampering the boys' carpentry classes.

With the aid of an extra painter during the summer months, the eaves of the main building and the outside of all the windows on the top three floors were given two coats of paint. The eave-troughs were also repaired, and 40 feet which had given away in the winter was replaced.

Two kitchen pantries were made into one large room by removal of the dividing wall and adjustment of the floor levels. This gives much better lighting, more room, saves many unnecessary steps, and facilitates work and the disposition of equipment.

Heavy rains in the late summer caused a subsoil washout with caving-in of the cement sidewalk outside the kitchen, with flooding of the kitchen and basement and boiler room tunnel. The cavity was filled with cement blocks and earth and the sidewalk relaid and levelled. Other sidewalks were also raised and levelled where necessary.

The barns were drained into a cesspool dug by the boys,  $8' \times 8' \times 12'$  deep, and filled with gravel and ashes.

A pipe-line was run from the boiler room for 200 feet south to the vegetable garden, another from the barns to the trough in the pasture and on to the proposed site for the new pig pen, and yet a third from the barns to the patients' summer camp beyond the ravine east of the barns. All this digging and trenching kept various groups of boys occupied.

Laundry and Sewing Room.

Tables 17 and 18 show that the rate of increase in articles made and articles repaired in the sewing room has been fully maintained for another year. Destructiveness of a few patients is responsible for some of this increase, as was the unsatisfactory nature of certain materials, but natural growth of the children accounts for most of it. The laundry increase has not been so marked, and the new mechanical drier has been a great help to a very busy department.

Kitchen and Pantry.

Apart from the structural alterations already referred to, there has been no material change in either section. The amount of home canning is given in Table 20.

Extra-Institutional Activities.

A number of children have been brought to the Training School for examination and advice, enquiries as to the work of the Training School have been answered, and information supplied to individuals planning to address various groups.

Addresses were given to a Parents and Young Peoples' Banquet at Carrot Creek; a Teachers' Convention at Rimbey; to an interested group during Childrens Week in Calgary, sponsored annually by the Alberta Council of Child and Family Welfare; to the Annual Girl Guide Convention in Edmonton; to a group of University students at the S.C.M. camp at Fallis; to a Women's Institute group at Mirror; to a U.F.W.A. meeting at Three Hills; to Women's Institute meetings in Red Deer, Balmoral and Lacombe; the Red Deer Rotary Club and Red Deer Junior Board of Trade.

Two groups of final year medical students came to the Training School in January for clinical demonstrations, as did Prof. H. Smith's psychology class from the University in March and the post-graduate class of nurses from Ponoka in June.

In November, a teacher with several defectives under his care in a rural school in the south of the Province spent a week in the grade schoolroom, and took complete charge of it for a couple of days, in order to get a better understanding of the defective and his problem.

#### Recommendations and Thanks.

Lack of accommodation, especially for the low grade and infirmary types, continues our greatest problem. Apart from the increased number of defectives reported and on the waiting lists, the fact that 46 mental defectives "not insane" (22 male, 24 female) were admitted to Ponoka during the year and that at Oliver the defectives in residence "not insane" increased from 49 to 70 during the year, shows that this problem, which cannot be evaded, is being met in a way neither economically sound nor therapeutically efficient.

Our other needs have been stressed in previous reports—a larger recreation room, a tubular fire escape at the east end of the main building, and a small mortuary. We have reached the limit of accommodation for our female staff. Any material increase in population will raise the question of a nurses' home.

The staff, as a whole, have worked willingly and well all the year and with loyalty to the best traditions of the Training School. Thanks are again due to the doctors and surgeons of Red Deer for lecturing to the various nursing classes.

The periodic visits of Mr. W. D. Stacey, Superintendent of Buildings, and of Dr. M. R. Bow, Deputy Minister of Public Health, together with his constant interest and wise advice at all times, have been very much appreciated and are gratefully acknowledged.

#### TABLE 1

#### MOVEMENT OF FEEBLE-MINDED POPULATION

In the Provincial Training School, Red Deer				112	Female 103	215
ADMISSIONS:	Male	Female	Total			
1. First admissions, voluntary	7	2	9			
2. Re-admissions 3. Transfers:	1111	2007	1010			
P.M.H., Ponoka	1	3	4			
P.M.I., Oliver	1	****	1			
Total number of admissions				9	5	14
Total number of defectives on the books	durin	g 1938		121	108	229
OUTGOING:	Male	Female	Total			
1. Paroles 2. Transfers:	1	4	5			
P.M.H., Ponoka	1		1			
P.M.I., Oliver	4	1	5			
3. Deaths	_		_			
Total number of outgoing				10	5	15
Defectives on books of the institution at Decer				111	103	214

#### TABLE 2

#### RESPONSIBILITY FOR MAINTENANCE OF PATIENTS IN RESIDENCE AT DECEMBER 31, 1938

	In Residence	Percentage	
Wards of the Province of Alberta		14.96	
Wards of the Municipal Districts of Alberta	148	69.16	
Wards of the Department of Municipal Affairs of Alberta	28	13.09	
Private cases		.46	
Wards of Department of Pensions and Health, Ottawa		.93	
Wards of the Dominion Government		.93	
Wards of the Official Guardian, Provincial Government	1	.46	
	-	-	
Total	214	100	

#### TABLE 3

#### MENTAL STATUS OF FIRST ADMISSIONS, RE-ADMISSIONS AND TRANSFERS

		First		Re-ad	mis	sions	Tra	ansf	ers	7	otal	s
Mental Status	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Idiot	1	1	2			1111	1		1	2	1	3
Imbecile	3	1	3		****	****	1	2	3	3	3	7
Borderline								ĩ	1		1	1
Totals	-7	-	9	-	-	_	- 2	-3	5	9	5	14

#### TABLE 4

### NATIVITY OF ADMISSIONS AND OF PARENTS OF ADMISSIONS

Nativity	Male	Parents Female	Total	Ma	arents le Pati Mothe			Parents nale Pat Mother	ients
Alberta	6	5	11		1	1			
Other Provinces	1		1				****	1	1
England				4	2	6		****	1111
Scotland				1010	1	1	1	1	2
United States						****	1	****	1
Sweden				1	200	1			
Denmark				1	1	2			
Belgium	4000			****	1	1		4000	1111
Jugo Slavia	1		1			****	****	****	4000
Ukrania				****	4444	****	1	****	1
Galicia				2004	2000	****		1	1
Roumania				4111			1	1	2
Hungary	****		4000	1	1	2		****	****
Russia	1		1	2	2	4	1000	0.000	****
Unascertained	1000		****				1	1	2
	-		-	-	-	-		-	-
Totals	9	5	14	9	9	18	5	5	10

TABLE 5

AGE OF ADMISSIONS CLASSIFIED W.	TH REFERENCE TO ME	ENTAL STATUS
---------------------------------	--------------------	--------------

			Idiot			Imbecile			Moron			Borderline		
	Age Group	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
5- 9 10-14		2	1	3	3		3	3		3			2000	
15-19								-	2	2		1	1	
25-29		1000	2000	****				-	1	1				
	Totals	2	1	3	3	-	3	4	3	7	_	1	1	

#### TABLE 6

#### ENVIRONMENT OF ADMISSIONS

		1	Idiot		Im	bec	ile	M	oro	1	Bor	derl	ine
	Environment	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Rural Urban		1	ï	1 2	3		3	3	2	5 2	****	1	1
	Totals	-2	-	3	3	-	3	4	3	7	_	1	1

#### TABLE 7

#### RELIGION OF ADMISSIONS

	1	diot		Im	beci	ile	M	Ioro	n	Bor	derl	ine
Denominations	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Church of England	1	2010	1	****		****	2		2			
Roman Catholic	4411	4111		1		1	1	1	1		1	1
Presbyterian	1	1	2				****	1	1	****	-	
Seventh Day Adventist	****	****	****	****	1111	****	1		1			2111
Unascertained			****	1		1	1400	1	1	****	****	****
Olliscertained	-	-	-				-	_				
Totals	2	1	3	3		3	4	3	. 7		1	1

#### TABLE 8

## ECONOMIC CONDITION OF FAMILIES OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS

	]	Idiot		Im	beci	ile	M	loro	1	Bor	derl	ine
Economic Condition	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Comfortable Marginal	2		2	2	1110	2	4	3	7		1	1
Dependent	100	1	1	1	D beaut	1	1111	30.00	1400		****	4454
Totals	2	1	3	3	_	3	4	3	7		1	1

#### TABLE 9a

### DISCHARGES CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

		Im	beci	ile	N	Ioro	n	Years in		
	Age Group	M.	F.	T.	M.	F.	T.	Residence		
15-19		1000		****	1			3/7		
20-24		2000	1	1		****	4	4/10		
20-24	· · · · · · · · · · · · · · · · · · ·	1011	1	1				2/8		
30-34			1	1		****		2/11		
	Totals		4	4	1		1	15/7		

#### TABLE 9b

# TRANSFERS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

		Carre	,,,,,,,	2001	CLIEB						
		1	diot		Im	beci	ile	N	Ioro	n	Years in
	Age Group	M.	F.	T.	M.	F.	T.	M.	F.	T.	Residence
15-19			****		1		1	3111	1010		7/9
20-24		1	1017.0	1	-			****	1010	3000	15/3
DE 00		1111	110.0		1	1010	1	4000	1111		13/0
25-29	***************************************	2000			1		1	10000	****		15/7
35-39		****	****	****	3111	1111	****	1	1111	1	1/4
		-	-	-	_	-	_	-	-	-	-
	Totals	1		1	3	1999	3	1		1	52/11

### TABLE 10

		12	ADLE	2 10					
		D	EAT	HS					
	1	diot		In	bec	ile			Years in
Causes of Death	M.	F.	T.	M.	F.	T.	Age	at Death	Residence
Status Epilepticus Diabetic Coma	1	****	1		1	1		19/8 15/10	3/7 6/4
Pernicious Anaemia Cerebral Compression	1	1000	1	1		1		20/11 31/7	9/11 19/9
Cerebrar Compression		-						50/0	14/10
Totals	2		2	2	1	3			54/5
		TA	ABLE	11					
SOME	OF TH	HE ?	TYPE	S IN F	RESI	DEN	CE		
	1	diot		Imbed	cile	M	Ioron	Total	
Charlflastian	3.5	177	PPI	3.5 17	m	20	TO 100	3.5 13	m or

	1	diot		In	nbec	cile	Moron		Tota	al	
Classification	M.	F.	T.	M.	F.	T.	M. F. T.	M.	F.	T.	%
Infirmary type:											
(a) Physically Helpless	12	7	19	4	3	7		16	10	26	12.15
(b) Mentally Helpless	22	26	48	8	5	13	1 1	30	32	62	28.9
M.D. and Epileptic	12	10	22	8	2	10	3 7 10	23	19	42	19.6
M.D. and Psychopathic				2	2	4	2 2	2	4	6	
M.D. and Psychotic	1	2	3		1	1	2 2	1	5	6	2.8
Mongols and Mongoloid	2	1	3	8	3	11	1 1	11	4	15	2.8 2.8 7.0
	-	-		-	-	-		-	-	-	
Totals	49	46	95	30	16	46	4 12 16	83	74	157	73.25

#### TABLE 12

#### APPLICATIONS AWAITING ADMISSION

IM	lale	Female	Total		Male I	Femal	e Total
Applications dated prior to 1930 Applications dated: 1930	4 5	7 2	11 7	Applications dated: 1935 1936 1937	18 16 21	13 15 10	31 31 31
1931 1932 1933	1	3 2	3	1938	23	14	37
1934	9	10	19	Totals	101	18	179

#### TABLE 13

#### REPORTED SUSPECTS

	Male	Female	Total			Male	Femal	e Total
Reported from Jan. 1/22 to				Reported	during:			
Dec. 31/28			269	1934		5	11	20
Reported during:				1935		10	7	18
1929	23	16	39	1936		20	6	26
1930	18	19	38	1937		. 19	17	36
1931	18	5	24	1938		24	17	41
1932	5	6	11					
1933	6	11	17		Total			539

#### TABLE 14 SUMMARY OF REPORTED DEFECTIVES

Applicants (Table 12) Suspects (Table 13)	Male 101	Female 78	Total 179 539
In residence at Red Deer Oliver	111 70	103	214 70
Ponoka Claresholm	60	54 4	114
Total	_	_	1.120

#### TABLE 15 EUGENICS SUMMARY

	Male	Female	Total
A.—Training School Cases:			
Presented and approved (P.T.S.)	44	55	99
Presented and approved (Out-patients)	1	1	2
	-	-	-
Totals	45	56	101
Operations	36	52	88
Paroled, Transferred, etc.	22	34	56
	-		
In Residence	14	18	32
B.—Sterilized prior to Admission		29	29
Paroled, Transferred, etc.		15	15
		-	
In Residence		14	14
C.—Total in Residence	14	32	46
Percentage of Population, 21.5.			

#### TABLE 16 STAFF, DECEMBER 31, 1938

	Male	Female	Total
Medical Superintendents	1		1
Social Workers, Voluntary	1		1
Dentists, part time	1		1
Teachers, Grade		1	1
Teachers, Special Subjects (one a P.T.S. Graduate)		2	2
Bursars	1		1
Stenographers		2	2
Clerks	1	-	1
Kitchen Staff		9	2
Dining Room Staff	0.000	3	9
Laundry	****	2	2
	****	0	3
Cardonage	****	2	2
Parent	1		1
Matrone	1		1
THE PARTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF	****	1	1
Assistant Matrons and Surgery Nurses	****	1	1
Night Supervisors	100	1	1
Other Registered Nurses		1	1
P.T.S. Graduate Nurses	1	4	5
Student Nurses	4	11	15
Ward Maids		2	2
Boiler Room Staff, D.P.W.	6		6 3
Maintenance Staff, D.P.W.	3		3
	_	_	_
Totals	21	36	57

#### TABLE 17

### SEWING ROOM-SUMMARY OF ARTICLES MADE AND REPAIRED IN 1938

	uantity	ty Articles				Quantity	
Aprons. White Gingham, Denim.		Shorts				14	
Burlap	186	Surgery (					
Bags, Laundry, Stocking	15	Characanta					
Bibs	63	Cillian				40.00	
Bureau Scarves	24	Sleeves, 1				F 63	
Bloomers	298	Suits, car				3.0	
Bed Jackets	119	Serviettes				0.4	
Blouses	57	Sheets				non	
Brassieres	48	Table Clo	43			4.00	
Caps, Isolation	99	Towels, Dish			****		
Chemises	186						
Coat, Attendant, remodelled, relined	1	1 Huck				1.00	
Coveralls	57					4 477	
Covers, mattress, mangle-press,							
cushion, bedpan, etc.	122		line.				
Curtains	18						
Dresses	400		ining Ro				
Diapers	314						
Face cloths	173	Bloomers					
Garters, pairs	11	Aprons			- 20		
Handkerchiefs	144	Collars and Cuffs					
Kneelers	46	Miscellaneous					
Nightgowns	231					201	
Pillows and Pillow Cases	195	Total num	ber of ar	ticles ma	nufac-		
Pneumonia Jackets	3	friend				4.006	
Rompers	6	Total num	ber of a	rticles re	paired.		
		1933	1934	1935	1936	1937	
anufactured		2.729	3.204	2.958	2.771	3.725	
paired		10.011	42.495	43.272	52,596	56.491	

#### TABLE 18 LAUNDRY

		1934	1935	1936	1937	1938
Articles	Laundered	 300.618	326,911	339,790	360,881	362.222

TABLE 19

# FARM AND GARDEN PRODUCE FOR HOME CONSUMPTION

Product		1936	1937	1938
Beans	lbs.	980	1.295	720
Beets	lbs.	4.200	5.885	4,500
Barley		228	242	455
Cabbage		7.010	7.630	5,500
Carrots		8.050	11.425	11.000
Cauliflower		945	1.155	1.024
Celery		652	725	810
Cucumbers		267	295	341
Calves, raised				5
Eggs		655	989	937
Greenfeed		-	6.000	4.500
Hay, Timothy		15	28	19
Lettuce		1.224	2.585	2.255
Milk, Nov. 9-Dec. 31			3.085.7	27.752
Oats		1.096	1.471	975
Onions		4.020	865	760
Parsnips		4.200	6.060	5.130
Peas, green		985	855	2.326
Pigs, raised				52
Pork, dressed		5.740	6.597	3.924
Potatoes		78.662	92,220	106,170
Poultry, dressed		363	109	106%
Radish		199	280	555
Rhubarb		1.660	1.515	3.143
Spinach		422	1.481	1.430
Swiss Chard		1.040	1.460	2.045
Sugar Beets	lbs.	0.00		10.800
Tomatoes		457	670	316
Turnips		18.745	21.665	20,300
Vegetable Marrow	lbs.	466	1.015	959
Wheat		475	356	195
	ACREAG	ES		
Barley	15 F	Pasture. Tame		20
Greenfeed		The same of the same of		

Barley	15	Pasture, Tame	20
Greenfeed	15	Potatoes	6
Hay	13	Vegetables	4
Oats	15	Wheat	8

## TABLE 20

#### HOME CANNING

Varieties	Quantity	Varieties	Quantity
Fruits: Raspberries Saskatoons Rhubarb	34 qts.	Vegetables, Beans Pickles Jams	108 qts.
Saskatoons and Rhubarb		Totals	753 qts.

# Division of Tuberculosis Control

(A. H. Baker, B.A., M.B., Medical Superintendent and Director— Division of Tuberculosis Control)

The 1937 report showed a general increase in the work of this Division. A part of this increase was due to the fact that it was the first report of an entire year since the Division was created. During 1938 a greater volume of work was undertaken, and it is believed that progress has been made in controlling tuberculosis in Alberta. The statistical section contains the details of this work, but it is felt that certain facts are worthy of mention.

## Fall in the Death Rate.

It may be pointed out that whereas in 1937 there were 340 deaths from tuberculosis, in 1938 there were only 280 deaths, a reduction of 60, or 17.6%. The gross number of deaths is the lowest in the past 18 years in spite of increased population. The death-rates per 100,000 population for the last three years have been as follows: 1936, 49.4; 1937, 42.9; 1938, 35.8.

# Deaths Among Treaty Indians, Non-Treaty Indians and White Population.

The Indian death-rate was 30 times that of the white population and the Metis 17 times that of the white population. This great variation emphasizes the urgent need of more energetic preventive measures among those of Indian racial origin.

#### Bed Accommodation.

Sanatorium beds available as at December 31, 1938, were as follows: Central Alberta Sanatorium, 210; Edmonton General Hospital, 130; University of Alberta Hospital, 22; Royal Alexandra Hospital, 37; total, 399.

This is an increase of 25 beds, or 6.6%. This accommodation gives two beds per annual death, when the Treaty Indians, who are a Federal charge, have been excluded. These beds meet reasonably well the demand for treatment of tuberculosis of the lungs, but it appears will be inadequate if and when the treatment of non-pulmonary tuberculosis becomes a responsibility of the Division.

## Patients Treated.

In-Patients.—Admissions to institutions for treatment numbered 432, which is an increase over last year of 92, or 27%. Total patients given institutional treatment were 780, an increase of 17%.

Out-Patients. — Treatment was given to former sanatorium patients who were living at home. Eighty-four out-patients received 1,207 pneumothorax refills.

#### Patient Days.

Patient days numbered 134,055, an increase of 13,752, or 11.4%.

Diagnostic Clinics.

Stationary clinics for examinations are now held at 13 points, this being two more than last year. Travelling clinics were held at 58 other points. At these clinics, 4,595 examinations were made, an increase of 1,017, or 28.43%, over 1937.

New Cases of Tuberculosis (excluding Treaty Indians).

Four hundred and fifty-one new cases were reported, an increase of 53, or 13%. These were classified as follows: Active pulmonary tuberculosis, 354; Inactive pulmonary tuberculosis, 65; non-pulmonary tuberculosis, 32; total, 451.

Of the active cases of pulmonary tuberculosis, 72% had been admitted to sanatoria for treatment up to December 31st, 1938. New cases of tuberculosis exceeded the deaths by about 2 to 1.

# Methods of Discovery of New Cases (excluding Treaty Indians).

Clinics Referred to Sanatoria for treatment by Physicians Provincial Laboratory Provincial Board of Health School Surveys	290 109 24 18 10	64.3 24.1 5.3 4.0 2.2
	451	

# Classification of Stage of Disease in 419 Cases of Pulmonary Tuberculosis.

Minimal Moderately advanced Far advanced Childhood tuberculosis Tuberculosis Pleurisy Unclassified	103 103 150 29 14 20	Per cent. 24.6 24.6 35.8 7.0 3.3 4.7
	419	100

The above table shows that of the new cases diagnosed 35.8% were far advanced, with 4.7% unclassified. This is a great improvement over former years, when over 70% of cases referred for treatment were far advanced. This means that about 60% of the new cases found were in a condition favourable for treatment, where definite improvement might be expected.

Survey of Normal Schools and Institute of Technology.

Students numbering 1,209 were tuberculin tested, and 32% were reactors. These were X-rayed. Ten new cases of tuberculosis were found.

Indian Schools.

Examinations were given 1,440 children in 10 schools, and 49 new cases of tuberculosis were found.

New Examinations.

Among 2,967 new clinic examinations, 8.9%, or 1 in 12, were found to have clinical tuberculosis. One-third of these new cases of clinical tuberculosis had a history of contact with tuberculosis.

Time Between Diagnosis and Admission for Treatment.

The average delay was reduced to 30 days, as compared with 53 days last year.

Summary of Clinic Examinations and Surveys.

Clinics, 4,595; Schools, 1,209; Indian Schools, 1,440; total, 7,244.

There were no surveys in public and high schools, which accounts for the reduction of 728 in the total examinations.

Work Among the Indians.

In addition to examination of all schools formerly surveyed, two new ones were examined. These were at Morley and Joussard. Through the increased activity of the Department of Indian Affairs, it may be said that all pupils considered infectious were removed from the schools. Forty-seven of these were treated in Provincial sanatorium beds, the remainder in various Indian hospitals. It may be said that a definite step forward has been made by the Federal Department in providing not only for diagnosis, but also for the treatment of school age Indians. There still remains, however, much work in clearing the Reserves of grossly infectious cases of tuberculosis, since most of the children are already infected at the age of 6 or 7, when they enter the schools.

# Personnel.

An additional physician was added to the strength of the Division to permit of increased work. This brings the number of full-time medical men up to 7, with 3 part-time physicians, who assist in two of the hospitals in Edmonton.

Dr. B. W. Banks resigned from the temporary staff on April 30th to enter private practice.

Dr. H. Siemens succeeded him, but resigned on August 15th to take over the duties of Medical Health Officer in the new Health Unit at Lamont.

Dr. B. Margolus joined the staff on August 15th.

Dr. H. H. Stephens was granted leave of absence from February 1st to July 31st, to pursue post-graduate work in thoracic surgery.

# Central Registry.

The Central Registry has continued its record system of all cases of tuberculosis in the Province. These records are filed by municipalities so that the prevalence of tuberculosis may be known and proper measures taken for its control.

# Tuberculin as a Diagnostic Aid.

Diagnostic tuberculin in proper dilution is being supplied without cost to the nurses' training schools of the Province to aid in reducing the incidence of tuberculosis among nurses. Tuberculin is also supplied to certain hospitals and to physicians who request it.

## Educational Work.

January 11—Dr. Baker addressed the Calgary Normal students on "The Importance of Early Recognition of Tuberculosis."

January 17—A radio talk over CFCN on "The Prevention of Tuberculosis" was given by Dr. Baker.

January 20—Dr. Baker spoke to the Institute of Technology on the subject given January 11.

January 25—"The Modern Treatment of Tuberculosis" was presented to the Home Economic Club of Calgary by Dr. Baker.

January 31-A second radio talk over CFCN on "The Prevention of Tuberculosis" was given.

February 2—"The Prevention of Tuberculosis and the Methods Used in Alberta" was the subject of an address by Dr. Baker before the Convention of Rural School Trustees.

February 18-A general talk on Tuberculosis was given to a large group at Crescent Heights High School by Dr. Baker.

Immediate Needs.

Last year the need of a surgical unit was discussed. It was pointed out that this unit could be economically established at the Central Alberta Sanatorium, provided that a Nurses' Home were built, and this is still the situation. Major surgery is now being done, but under considerable difficulty.

The building for nurses and maids is even more urgently needed than last year. The volume of work already outlined requires more help than was necessary a few years ago, and there is no accommodation for this extra help. If the tubercular patients of the Province are to receive adequate modern treatment, the staff to carry it out must not only be provided, but it must be suitably housed. The present accommodation is what it was eighteen years ago, when the amount of work was but a small part of that now undertaken.

Once more it should be pointed out that the satisfactory control of tuberculosis demands that so-called non-pulmonary forms of this disease be given treatment. At present these are not accepted in our institutional beds unless these people are grossly infected. It is now known that in many instances individuals suffering from non-pulmonary forms of tuberculosis may still be a source of danger to others, and as such should be isolated, as are those with disease of the lungs. It is therefore felt that the work of this Division is hindered through its lack of control over the types of disease that accounted for almost one-quarter of the deaths last year.

Voluntary Agencies.

It is a pleasure to again acknowledge the invaluable help given by various organizations through their activities in the Christmas Seal Sale. In addition to the educational campaign they have carried on, they have been able with the funds so collected to carry out very concrete anti-tuberculosis work in their various communities:

The Kinsmen Club of Edmonton and Miss Booth, Tuberculosis Nurse. The Calgary Tuberculosis Association and Miss Acton, Tuberculosis Nurse.

The Lethbridge Nursing Mission and Miss Tilley, Supervisor. The Medicine Hat Seal Sale Committee and Miss Hagerman, Public Health

The Kinsmen Club of Drumheller and Miss Jones, Public Health Nurse.

The Red Deer Rotary Club and Dr. MacLean, Health Officer. The High River Rotary Club and Dr. Somerville, Health Officer.

The Cardston Rotary Club.

Hospitals.

It has been the policy of this Division to make use of the X-ray equipment of hospitals in the clinic work. We are indebted to these institutions for this service.

Medical Profession.

No report on anti-tuberculosis work in this Province would be adequate if expression were not given to the prominent part played by the physicians and surgeons in private practice. Throughout the year they have diagnosed or referred to our clinics and sanatoria many people suffering from chest diseases.

# Acknowledgments.

Acknowledgment is made of the constant interest and assistance given by the Hon. Dr. W. W. Cross, Minister of Health, and by Dr. M. R. Bow, Deputy Minister. To Dr. A. F. Anderson of the Royal Alexandra Hospital, Dr. R. T. Washburn of the University Hospital, and to the Reverend Sister Superior of the Edmonton General Hospital, we are indebted for the splendid care given to our patients.

It is with pleasure that I pay tribute to the splendid work done by every member of the Tuberculosis Division during the past year, as well as to those of other departments who have assisted.

## CENTRAL ALBERTA SANATORIUM

The work of the Central Alberta Sanatorium was continued as in previous years. As in the past, it has been the policy to conduct clinics with sanatorium personnel rather than with full-time diagnosticians.

## Medical Services.

In keeping with the present world-wide tendency, more and more definite medical treatment has been given. In fact, a sanatorium to-day may be considered an active treatment tuberculosis hospital. It is natural, therefore, that the services rendered by the clinical laboratory and X-ray department should increase, as they have done.

#### Nursing Service.

The Matron, Miss E. K. Connor, and her staff of 19 graduate nurses have maintained an efficient service.

## Administrative Department.

Col. E. R. Knight, Bursar, reports total patient days as 74,625.

The per diem cost for the fiscal year ending March 31st, 1939, was \$2.364.

The maintenance of grounds and buildings has been carried out according to the yearly schedule.

#### The Sanatorium School.

Throughout the year Mr. Stuart Evans has conducted bedside teaching and instruction to small groups: Number of Grade Pupils, 10; Junior High School Pupils, 3; High School Pupils, 12; Adult Pupils, 39; total, 64.

This work is well worth while, and has been carried out efficiently.

#### Divine Service.

Religious services have been conducted regularly. The following gentlemen have been particularly active in this work, and their help is much appreciated by all: Rev. Father MacDonald, Rev. Father Clancy, Rev. J. M. Roe, the Venerable Archdeacon Swanson, Dr. A. R. Aldridge, and Rev. P. Unterschults.

Department of Public Works.

Acknowledgment is made of the splendid co-operation given at all times by Mr. E. L. Appleby, Chief Engineer, and his staff.

Entertainment.

Under Miss Connor and the Recreation Committee an excellent programme of entertainment has been provided and, in so far as possible, made available to every patient. The many friends of the Sanatorium have contributed very generously to the Sanatorium life, and we are greatly indebted to them.

## DONATIONS AND ENTERTAINMENTS

CONCERTS, Etc.—Mr. Cecil Kappy, Organ Recital; Ukrainian Labour Temple Concert Party; International Harvester Co., Movies; Latter Day Saints Church, Lantern Slides and Music; Y.M.C.A. Concert Orchestra; Excelsior Glee Club; Elk's Band; Salvation Army Band; Blue Bonnet Pipers' Band; Calgary Regiment (Tank) Band; North Hill Players; Knox Church United Choir; St. Barnabas Choir; Crescent Heights United Choir; St. Mary's Boys' Choir; Pro-Cathedral Choir; Red Cross Society, Christmas Concert; St. Stephen's Choir, Alice Murdoch School of Dancing, Kathleen Rogers.

PARTIES-Garden Party; Hallowe'en Party; Military Chapter I.O.D.E. Whist

Drive; Recreation Committee Whist Drive.

TOURNAMENTS—Cribbage Tournament; Billiard Tournament; Croquet Tournament.

PASSES—The various Moving Picture Houses; Calgary Exhibition and Stampede.

DRIVES-Rotary Club; Mr. Matron; Mr. Mullen.

PICTURE SHOWS-Moving Picture shows were given twice a month.

XMAS, 1938—Hon. R. B. Bennett, Candy for Staff; Rotary Club, Magazine subscriptions; Junior, Samaritan Club, Cheque; Miss Fay Huxley, Cheque; Ontario Laundry Co., Candy and cigarettes; Leyden's Funeral Home, Candy and cigarettes; Union Milk Co., Ice cream; Calgary Branch Red Cross Society, Concert and parcels for all patients; Catholic Women's League, Parcels for patients; Junior Catholic Women's League, Parcels for patients; Ladies of Ste. Famille, Parcels for patients; Children's Hospital Aid, Parcels for patients; Messrs. Canniff & O'Brien, Menu cards; Jeanne Mance Chapter I.O.D.E., Candy.

MISCELLANEOUS—Mr. James Condon, Flowers and candy; Crescent Heights United Church, Ear phones; Mr. J. S. McRory, Ear phones; Institute Press, Bridge score cards; Ft. Brisebois Chapter I.O.D.E., Magazine subscriptions; Herald Lending Library, Books; Mrs. Shelton, Jig saw puzzles; Anonymous

Friends, Books and magazines.

#### EDMONTON SANATORIA

(DR. G. R. DAVISON)

The formation of the Edmonton Branch of the Tuberculosis Division appears to have been justified. Since its inception in June, 1936, it has been necessary to increase by 80 the number of designated sanatorium beds in general hospitals in Edmonton. After two and a half years the question of whether sanatorium sections in general hospitals are suitable for treatment can fairly well be answered. I am of the opinion that the results of active treatment

compare favourably with those obtained in sanatoria. There is, however, no space or facilities for recreation or occupational therapy for the group of patients who have graduated from the active treatment class. These people are much in need of planned, controlled and, if possible, productive exercise both in the form of school work and manual training.

The institution of a headquarters in Edmonton has expanded the clinic service both to the outlying districts and to the city. The number of cases referred to these clinics is still increasing month by month. If the increase continues, it will be impossible to satisfactorily and expeditiously do the work with the present staff.

All in all, I think much has been accomplished toward the control and prevention of tuberculosis.

I wish to thank the Sisters of Charity of Montreal, who operate the General Hospital, Dr. A. F. Anderson, Superintendent of the Royal Alexandra Hospital, and Dr. R. T. Washburn of the University Hospital for their co-operation in the organization and maintenance of their respective sections.

I also wish to thank the medical staff for their help; Miss Lonsdale, who has so capably operated the general office; and Miss Booth, the Kinsmen Club nurse, for her assistance with the central clinish; also the nurses, especially the graduates, for the interest they have shown in their patients' welfare, their willingness and attention to duty throughout the year.

## DONATIONS AND ENTERTAINMENTS

## EDMONTON GENERAL HOSPITAL:

Concerts—Bon Entente Club; Royal American Shows (Kinsmen Club); Student Nurses; Rosebud Entertainers; Sister Garceau and Staff; St. Stephen's Church Men's Guild; Queenie Jackson.

Films—Mr. Blythe and Mr. Montague; Father Bausher; Mr. Wiher and Mr. Montague; Four-in-One Club.

Donations—Hudson's Bay Company; Gaults Limited; National Drug Company; Edmonton City Dairy; Alberta Dairy Pool; Big Orange Company; Picardy Store; Bakewell Company; Hospital Supply Company; Christmas Tree articles by the Sisters.

ROYAL ALEXANDRA HOSPITAL and UNIVERSITY HOSPITAL—Garden Party, Hallowe'en and Christmas parties were given. Various donations were received.

#### STATISTICAL SECTION

Patients under treatment Jan. 1, 1938	Central 986 Alberta 986 Sanatorium	Edmonton 26 General Hospital	Royal Mc Alexandra Hospital	∞ University Hospital	12 Total 348 432
Patients treated in 1938					780
Patients discharged in 1938	176	164	24	31	395
Patients remaining in Hospital Dec. 31/38	207	121	35	22	385
Patient days	74,625	39,543	12,578	7,309	134.055

NOTE: 37 patients were transferred from one institution to another.

# CLASSIFICATION ON ADMISSION OF 432 PATIENTS WHO ENTERED SANATORIA IN 1938

SANATORIA IN 1938		
No disease		6
Undiagnosed		5
Non-Tuberculosis Tuberculosis Innetino		50
Tuberculosis, Inactive Non-Pulmonary Tuberculosis		
Tuberculosis, Pleurisy		
Tuberculosis, Childhood Type		15
Pulmonary Tuberculosis: Minimal		
Moderately advanced		
Far advanced		180
		432
Of the above noted, 53, or 12.1%, were re-a	dmissions.	
Sputum positive on admission		176
Sputum negative on admission		256
operation registre on transfer and the second		_
		432
LABORATORY REPORT		
Sputum Examinations:		
	Central Alberta	Edmonton
	Sanatorium	Sanatoria
Positive		826
Negative	2,352	1,689
	0.000	0.515
Other Examinations:	3,268	2,515
Urinalyses	1.924	1.350
Blood counts		268
Blood sedimentations		582
Guinea pig inoculations		1
Other examinations	278	26
	6,701	4.742
	0,701	4,144
DENTAL REPORTS		
	Central Alberta	Edmonton
	Sanatorium	Sanatoria
Number of patient examinations	398	404
Number of patients treated	323	289
Number of prophylactic treatments Number of fillings	151 260	209 231
Number of extractions	133	85
Number of dentures (new)	10	1
Number of dentures repaired	5	****
Number of denture adjustments	19	16
HELIOPHED ADV. DEDODES		
HELIOTHERAPY REPORTS		
	Central Alberta	Edmonton
	Sanatorium	Sanatoria
Number treated Number treatments		22
Number treatments	2,000	761
ODERATING ROOM REPORTS		
OPERATING ROOM REPORTS		
Central Alberta Sanatorium:		
Pneumothorax:		200
Under treatment January 1, 1938		72
New cases begun 1938  Cases under treatment admitted and carried on		48
Cases under treatment admitted and carried on		5
Number treated during year		125
Number discontinued		35
We don't have been been all all and all all and		
Under treatment at end of year		90
Number unsuccessfully attempted		
Pneumothorax refills given during year		3,079
Pneumolysis		4
Oleothorax Refills		21
Intravenous Injections; Calcium Chloride		101
Sanocrysin		494 221
Glucose	***************************************	42
Neosalvarsan		
Aspirations from Pleural Cavities:		
Air		35
Serous fluid with irrigation Purulent fluid with irrigation		
A MARKETT ATTACK WATER TAXABLE DAY		298
		-

8

2

# EDMONTON SANATORIA

Radiographs made: Chest	734	Fluoroscopic Examinations Diodrast G.I.T. Examinations	1
Ankle Foot	1	Lipiodol Examinations (Chest)	3
Knee Gall Bladder	2	Films Interpreted:	
Hips and Pelvis Hand	3	Films sent in for reading Edmonton Clinic Films	100 840
Spine	9	Vegreville Clinic Films Camrose Clinic Films	51 90
Wrist	1	Other Clinic Films	280
Shoulder G. I. Tract	1	Indian School Films Edmonton Staff Films	180
	763		1,957

# CLINIC REPORT

	CLI	VIC RI	EPORT						
			New	Cases	of T.F	3.	Co	ntacts	
					1				
	60	nó.		Inactive	Non-Pul monary	R			
Travelling Clinics	No. of Clinics	New Exams.	Active	#	4 4	Review Exams.			=
	2.5	8.8	#	ac	5 5	28	New	ਰ	Total
	85	2 X	2	.5	200	55 X	9	PIO	2
Athabasca			0			10	10		
	1	21	-	3	0	10	13	4	31
Barrhead	1	34	0	2	0	1	6	1	35
Beaverlodge	1	5	1	0	0	2	0	0	7
Bellevue	1	7	0	0	0	5	1	4	12
Bentley	1	4	0	0	0	26	2	19	30
Berwyn	1	9	0	1	0	7	2	3	16
Blairmore	1	10	0	0	1	5	3	4	15
Cardston	1	6	1	0	0	2	3	0	8
Claresholm	1	20	0	2	0	5	5	1	25
Clyde	1	6	1	0	0	3	4	2	9
Coleman	1	6	0	0	1	15	0	11	21
Daysland	1	3	0	0	0	4	0	3	7
Edson	2	22	0	0	0	15	1	6	37
Elk Point	1	18	1	2	0	1	5	0	19
Evansburg	1	5	0	0	0	0	5	0	5
Fairview	1	29	2	0	0	10	14	11	42
Fort Vermilion	1	113	4	2	1	0	59	0	113
Grande Prairie	1	22	2	0	1	6	5	3	28
Hardisty	1	26	2	1	0	2	12	2	28
High Prairie	1	45	5	3	0	2	17	1	47
High River	1	12	0	0	1	39	4	44	51
Hillcrest	1	0	0	0	0	4	0	3	4
Innisfail	1	5	0	0	0	1	0	0	-6
Innistree	1	5	0	0	1	10	4	7	15
Irma	1	19	0	0	0	2	6	1	21
Islay	1	1	0	0	0	1	0	0	2
Jasper	1	3	0	0	0	0	0	0	3
Kinuso	1	9	1	0	0	6	7	1	15
Lacombe	2	26	1	0	0	18	2	7	44
Lac La Biche	1	18	2	1	0	2	9	2	20
Lloydminster	1	7	0	0	0	3	1	0	10
Macleod	1	17	1	1	0	6	2	.0	23
Mannville	1	17	1	0	0	2	1	0	19
Marwayne	1	2	0	0	0	0	2	0	2
McLennan	1	7	2	0	0	5	6	1	12
Mundare	1	28	2	1	0	14	12	11	42
Myrnam	1	23	0	0	0	26	12	20	49
Niton	1	6	0	0	0	0	6	0	6
Notikewin	1	10	2	0	0	5	5	5	15
Peace River	1	23	5	0 -	1	4	7	4	27
Pincher Creek	1	5	0	0	0	16	1	0	21
Provost	1	27	1	0	1	3	9	- 0	30
Radway	1	3	0	0	0	2	0	1	5
Rocky Mountain House	1	27	0	0	0	2	3	0	29
Sexsmith	1	12	4	0	0	4	4	2	16
Slave Lake	1	12	1	0	0	11	6	9	23
Smith	1	3	0	0	0	0	1	0	3
Smoky Lake	1	5	0	0	0	0	0	0	5
Spirit River	1	19	1	2	0	8	7	7	27
Valley View	1	7	0	0	0	0	6	0	7
Vermilion	1	4	0	0	0	0	3	0	4
Viking	1	7	0	0	0	2	1	1	9
Vilna	1	23	0	1	0	11	14	9	34
Vulcan	1	7	0	0	0	19	1	4	26
Wainwright	1	15	0	1	0	1	6	1	16
Westlock	1	31	0	0	2	3	22	0	34
Wildwood	1	9	0	1	0	1	9	0	10
Willingdon	1	7	1	0	0	7	5	6	14
			-	-	-		-	-	
	58	872	44	24	10	362	341	181	1234

				New	Cases	of T.I	3.	Co	ntact	S	
Call Can Cen Dru Edn Har Lett Med Stet St.	Stationary Clinics  myville gary prose tral Alberta Sanatorium mheller aonton ina phridge dicine Hat Deer ttler Paul preville  Forward	48 6 52 12 104 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	68 208 95 284 151 584 151 85 71 64 52	9 Attor 4 18 7 22 15 56 0 7 11 6 4 0 2 152 44	2 2 0 111 4 14 0 0 1 1 1 3 1 — 40 24	-ind-uoN 0302250411101   200	22 133 57 306 129 426 16 111 115 59 31 34 27	266 63 49 119 38 267 9 36 25 26 22 12 19 711 341	9 45 24 130 45 143 3 3 36 20 11 24 11 534 181	34 15 10 59 59 10 10 11 11 11 11 11 11 11 11 11 11 11	52 90 80 10 50 52 00 63 95 86 75
	Total	320	2767	196	64	30	1828	1052	715	459	95
		SCH	OOL S	URVEY			SKILE	15 100			
Can Cal Tec	nonton Normal: March October  nrose Normal gary Normal: January October hnical Institute  Total Tested centage positive to Tubercu nber of New Cases of Tube	ılin Tes	t							2: 10 40	
Pei Bla Erm Stor	od Indian Schools (2), Care gan Indian Schools (2), Bre ekfoot Indian Schools (2), G inneskin Indian School, Hot ney Indian School, Morley cee Indian School, Calgary v Cases Tuberculosis	leichen bema	108 219 178 99 25	Blue G Edmon Youvil Joussa	ton Re le Indi rd Ind	esider ian Se ian S	ntial, chool, chool,	St. A Jous	nton Albert sard	1	137
Peij Blad Erm Stor Sar Nev	gan Indian Schools (2), Brockfoot Indian Schools (2), G hineskin Indian School, Hob ney Indian School, Morley cee Indian School, Calgary v Cases Tuberculosis	ocket leichen obema	108 219 178 99 25	Edmon Youvil Joussa	iton Re le Indi rd Ind	esider ian Se ian S	ntial, chool, chool	Edmo St. / Jous	nton Albert sard	i	122 143 137 .440 49
Peij Blad Erm Stor Sar Nev	gan Indian Schools (2), Brockfoot Indian Schools (2), G nineskin Indian School, Hohey Indian School, Morley cee Indian School, Calgary	ocket leichen obema	108 219 178 99 25	Edmon Youvil Joussa PATIE	ton Re le Indi rd Ind To	esider ian Se ian S	ntial, chool, chool	Edmo St. A Jous	nton Albert sard	1 G 19	122 143 137 .440 49
Peij Blacern Stor Sar Nev	gan Indian Schools (2), Breckfoot Indian Schools (2), G ineskin Indian School, Hothey Indian School, Morley cee Indian School, Morley cee Indian School, Calgary v Cases Tuberculosis HE FOLLOWING TABLES BLE I.	REFER	108 219 178 99 25 TO 395	Edmon Youvil Joussa PATIE Reside Not Over 31 days	nton Rele Indird Ind To	esider ian So ian S otal	ntial, chool, chool	Edmo St. A Jous ED DU	nton Albert sard URIN	1 G 190	122 143 137 .440 49
Peij Black Erm Stor Sar Nev T TAI	gan Indian Schools (2), Breckfoot Indian Schools (2), Gekfoot Indian Schools (2), Gekfoot Indian School, Hothey Indian School, Morley cee Indian School, Calgary Cases Tuberculosis  HE FOLLOWING TABLES  BLE I.  No Disease Undiagnosed	REFER On Admi	108 219 178 99 25 TO 395	PATIE  Reside Not Over 31 days 5	nton Rele Indird Ind To NTS D ence Over 31 day	esider ian So ian S otal	ntial, chool, chool	Edmo St. A Jous ED DU	urine URINe schar	1 G 19: ge U.	122 143 137 .440 49 38
Peij Blace Erm Stor Sar Nev T TAI	gan Indian Schools (2), Breckfoot Indian Schools (2), G ckfoot Indian Schools (2), G chineskin Indian School, Hothey Indian School, Morley cee Indian School, Calgary Cases Tuberculosis  HE FOLLOWING TABLES BLE I.	REFER On Admi No. 5 2 51 19	108 219 178 99 25 TO 395	Edmon Youvil Joussa PATIE Reside Not Over 31 days	NTS D ence Over 31 day	esider ian Se ian S otal ISCH	ARGI	Edmo St. A Jous ED DU	unton Albert sard URIN schar	1 G 190	122 143 137 .440 49
Peij Black Erm Stor Sar Nev T TAI	gan Indian Schools (2), Breckfoot Indian Schools (2), G ineskin Indian School, Hot ney Indian School, Morley cee Indian School, Calgary v Cases Tuberculosis  HE FOLLOWING TABLES BLE I.  No Disease Undiagnosed Non-T.B.	REFER On Admi	108 219 178 99 25 TO 395	PATIE Reside Not Over 31 days 5 32	NTS D ence Over 31 day	esider ian S ian S otal	ARGI	Edmo St. A Jous ED DU On Di Q.	URING	G 19:	122 143 137 .440 49 38 D.
Peij Black Erm Stor Sar Nev T TAI	gan Indian Schools (2), Breckfoot Indian Schools (2), G ineskin Indian School, Hot ney Indian School, Morley cee Indian School, Calgary v Cases Tuberculosis  HE FOLLOWING TABLES BLE I.  No Disease Undiagnosed Non-T.B.	REFER On Admi No. 5 2 51 19 77 0 5 15	108 219 178 99 25 TO 395	PATIE Reside Not Over 31 days 5	NTS D ence Over 31 day  2 19 12 33 - 5 11	esiderian Scian Scian Scotal	ARGI	Edmo St. A. Jous Dn Di Q	URING schar  I	1 G 193 ge U. 9 4 13 - 1	122 143 137 .440 49 38 D.
Pei, Blackern Stor Sar Nev T TAI	gan Indian Schools (2), Breckfoot Indian Schools (2), G ineskin Indian School, Hothey Indian School, Hothey Indian School, Morley cee Indian School, Calgary Cases Tuberculosis  HE FOLLOWING TABLES BLE I.  No Disease Undiagnosed Non-T.B. Tuberculosis Inactive  Tuberculosis: Childhood Type: Parenchymal Trachea-Bronchial	REFER On Admi No. 5 2 51 19 -77 - 0 5	108 219 178 99 25 TO 395	PATIE Reside Not Over 31 days 5 32 7 44	NTS D ence Over 31 day  2 19 12 33	esider ian S ian S otal	ARGI	Edmo St. A. Jous ED DU On Di Q.	URING Schar	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	122 143 137 .440 49 D.
Pein Blaace Erm Stor Stor Stor Nev TT TAIL II. III. IV.	gan Indian Schools (2), Breckfoot Indian Schools (2), G ineskin Indian School, Hothey Indian School, Hothey Indian School, Morley cee Indian School, Calgary Cases Tuberculosis  HE FOLLOWING TABLES BLE I.  No Disease Undiagnosed Non-T.B. Tuberculosis Inactive  Tuberculosis: Childhood Type: Parenchymal Trachea-Bronchial Combined	REFER On Admi No. 5 2 51 19 77 - 0 5 15 20	108 219 178 99 25 TO 395	PATIE Reside Not Over 31 days 5	NTS D ence Over 31 day  2 19 12 33 - 5 11	esiderian Soian Sotal	ARGI	Edmo St. A. Jous Dn Di Q	URING schar  I	1 G 193 ge U. 9 4 13 - 1	122 143 137 .440 49 38 D.
Pein Blaace Erm Stor Stor Stor Nev TT TAIL II. III. IV.	gan Indian Schools (2), Breckfoot Indian Schools (2), G ineskin Indian School, Hothey Indian School, Hothey Indian School, Morley cee Indian School, Calgary Cases Tuberculosis  HE FOLLOWING TABLES BLE I.  No Disease Undiagnosed Non-T.B. Tuberculosis Inactive  Tuberculosis: Childhood Type: Parenchymal Trachea-Bronchial Combined  Pulmonary: (1) Clinical: Minimal Mod. Advanced	00 Admi No. 5 2 51 19 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	108 219 178 999 25 TO 395 ission. N	PATIE Reside Not Over 31 days 5 32 7 44 4 4 4 2 6 8 8 2 2	tton Rele Indirect In	esiderian Scian Scotal	ARGI AAA.	Edmo St. A. Jous Dn Di Q	URING Schar I. 2 9 7 18 12 6 48 15	ge U. 9 4 13 - 1 1 3 2 2 -	122 143 137 .440 49 D 1 1 1 1 2

VII. Tuberculosis, Pleurisy	3	.7		3		1	1	1		
VIII. Non-Pulmonary	4	.1	2	2				1		1
Total Tuberculosis	318	80.5	39	279		14	55	141	22	47
Total "Treated "	-			312		14	56	159	35	48
"Untreated" (not in over 31 days)			83	-				11	52	20
Grand Total	395		83	312		14	56	170	87	68
	-	_	-	-	-	-	Month.	-	-	-

Explanation of Abbreviations and Terms used: The standard of classification is that of the National Tuberculosis Association. "Minimal", "Moderately Advanced" and "Far Advanced" refer to anatomical extent of disease. "A" Arrested. "AA" Apparently Arrested, "Q" Quiescent, "I" Improved, "U" Unimproved, and "D" Died.

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

II.—CLASSIFICATION ON ADMISSION OF 395 DISCHARGED PATIS
---------------------------------------------------------

1. No Disease 2. Undiagnosed 3. Non-Tuberculosis	2	6. Tuberculosis, Pulmonary, Active 291 7. Tuberculosis Pleurisy 3 8. Non-Pulmonary Tuberculosis 4
4. Tuberculosis, Inactive	19	
5. Tuberculosis, Childhood Type	20	395

# III.—CASSIFICATION ON DISCHARGE OF 277 "TREATED" CASES OF PULMONARY TUBERCULOSIS:

	On Admission						
On Admission	Number.	Improved.	Not Improved.	Died.			
Childhood Type Tuberculosis		14	1	1			
Tuberculosis Pleurisy Pulmonary Tuberculosis;	. 3	3					
Minimal	. 28	27	1				
Moderately Advanced	. 96	85	6	5			
Far Advanced		80	14	40			
	277	209	22	46			

# IV.-DIAGNOSIS OF NON-TUBERCULOSIS CASES:

Asthma Abscess of lung Ankylosis of hip Arteriosclerosis Bronchitis Bronchiectasis Bronchopneumonia Carditis Duodenal Ulcer	2 1 1 2 5 1 5 1	Myocarditis Malignant Growth in Chest Neurosis Pleurisy Pneumonitis Pneumothorax, spontaneous Pulmonary Fibrosis Periostitis Silicosis	2 8 1 8 1 1 2 1
Duodenal Ulcer Empyema Hodgkin's Disease	1 1	Syphilis Unresolved Pneumonia	1 1
Hyperthyroidism Jacksonian Epilepsy Menorrhagia	1 1 1		51

VSEX:	VI.—SOCIAL:

Male Female	183 212 395	Single Married Widowed Separated	187 186 16 6
			395
VII.—RELIGION: Apostolic Baptist Church of England Christian Church Confucian Covenanter Church of Nazarene	1 15 37 1 1 1 2	International Bible Student Mennonite Moravian Presbyterian Plymouth Brethren Reform Church Roman Catholic Seventh Day Adventist	1 4 1 39 1 1 132
Evangelical	2	Salvation Army	1
Greek Orthodox Greek Catholic	19	United	64
Hebrew	1	Olidenolimational	
Latter Day Saint	2		395
Lutheran	44		

VIII.—AGE ON ADMISSION:	Active T.B.	Non-T.B., Inactive	Total
From 1 to 9 years	9	5	14
From 10 to 14 years	18	1	19
From 15 to 19 years	36	7	43
From 20 to 29 years		20	120
From 30 to 39 years		14	92
From 40 to 49 years		11	50
From 50 to 59 years		15	44
From 60 to 69 years		4	11
Over 70 years	. 2		2
	010	200	905
	318	77	395
IX.—OCCUPATION—WOMEN:			
	Active T.B.	Non-T.B., Inactive	Total
Bookkeeper			3
Hairdresser	2	1	3
Housewife	95	21	116
Housework	12	2	14
Nurse (Graduate)	7	1	8
Nurse-in-Training	. 7		7
Saleslady	. 2		2
Stenographer			1
Student		4	28
Teacher			2
Waitress Ward Maid	1		1
Ward Maid	1	****	1
No Occupation (at home): Adults	. 11	5	16
Children		3	10
Citizen City		3	10
	175	37	212
		ADMINISTRATION AND ADMINISTRATION OF THE PARTY OF THE PAR	-
X.—OCCUPATION—MEN:			
	Active T.B.	Non-T.B., Inactive	Total
Accountant			2
Auctioneer			1
Barber		* ***	2
Blacksmith	1 -		1
Bookkeeper	1		î
Caretaker		1	1
Carpenter	2		2
Clerical Worker			3
Clergyman			1
Cook			4
Dentist	1	eres.	1
Dishwasher Electrician			1
Engineer		ï	A
Farmer		16	50
Gardener		1	1
Hotel Manager	2		2
Janitor			1
Labourer	24		24
Laundryman	1		1
Librarian	1	- in	1
Meat Cutter		1	1
Mechanic Marchant	1	3	4
Merchant Miner	7	6	2
Music Teacher	1	0	13
Musician		ī	1
Painter	1	*	1
Postman	î	1	2
Priest	2		2 2
Physician	1		1
Radio Announcer	1		1
Retired	4.		
Salesman (in store)	1		1
Salesman (outside)	1	1	1 5
	1 4 1	ī	1 5 1
Solicitor for Advertising	1 4 1 1	1	1 5 1
Station Agent	1 4 1 1		1 5 1 1
Station Agent Stone Cutter	1 4 1 1 1 1 1 1 1	ī	1 5 1 1 1
Station Agent Stone Cutter Student	1 4 1 1 1 20	1 5	1 5 1 1 1 1 25
Station Agent Stone Cutter Student Teamster	1 4 1 1 1 1 20	ī	1 5 1 1 1 25 1
Station Agent Stone Cutter Student Teamster Truck Driver	1 4 1 1 1 20	1 5	1 5 1 1 1 25 - 1
Station Agent Stone Cutter Student Teamster Truck Driver Trapper	1 4 1 1 1 20	1 5	1 5 1 1 1 25 - 1 1
Station Agent Stone Cutter Student Teamster Truck Driver Trapper Undertaker	1 4 1 1 1 20 	1 5	1 5 1 1 25 - 1 1
Station Agent Stone Cutter Student Teamster Truck Driver Trapper Undertaker Upholsterer	1 4 1 1 1 20 	1 5	5 1 1 1 25 1 1 1 1 25 1 1 1 1 1 1 1 1 1
Station Agent Stone Cutter Student Teamster Truck Driver Trapper Undertaker Upholsterer Waiter Well Driller	1 4 1 1 1 20 1 1 1 1 1 3	1 5	5 1 1 25 1 1 1 1 1 25 1 1 1 1 1 1 1 2 1 1 1 1
Station Agent Stone Cutter Student Teamster Truck Driver Trapper Undertaker Upholsterer	1 4 1 1 1 20 1 1 1 1 1 3	1 5	5 1 1 25 1 1 1 25 1 1 1 2 3 2 4
Station Agent Stone Cutter Student Teamster Truck Driver Trapper Undertaker Upholsterer Waiter Well Driller	1 4 1 1 1 20  1 1 1 1 1 2 2	1 5	1 5 1 1 1 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1

.—NATIVITY:	Active T.B.	Non-T.B., Inactive	Total 159
Alberta	133	26 14	64
Canada (other Provinces)	50	1	6
Austria	4		4
China Czechoslovakia			1
Denmark			4
England		7	24
Finland		1	1
France			4
Germany		2	6
Hungary		1	4
Holland			1
Iceland		1	1
Ireland	. 3	1	4
Italy	. 1		1
Lithuania		****	2
Newfoundland	. 1	17	5
Norway		2	22
Poland		4	14
Russia		2	5
Roumania		5	15
Scotland		3	1
South Africa		****	3
Sweden		****	1
Switzerland		2	5
Ukrainia United States	0.00	6	33
Wales		1	4
wates			
	318	77	395
I.—LENGTH OF RESIDENCE IN ALBERT	ra:		
a. amilian or more and an interest	Active T.B.	Non-T.B., Inactive	Total
n - l- Alberto		26	159
Born in Alberta		1	1
In Alberta under 1 year	. 9	1	10
In Alberta from 1 to 5 years		9	44
In Alberta from 6 to 9 years			
	34	7	41
In Alberta from 10 to 14 years	. 34	7 5	25
In Alberta from 15 to 19 years	20	7 5 19	
In Alberta from 15 to 19 years In Alberta from 20 to 30 years	. 68	5	
In Alberta from 15 to 19 years	. 68 . 19	5 19 9	25 87 28
In Alberta from 15 to 19 years In Alberta from 20 to 30 years	. 68	5 19	25 87
In Alberta from 15 to 19 years In Alberta from 20 to 30 years	. 68 . 19	5 19 9 77	25 87 28
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years III.—RACIAL ORIGIN:	20 68 19 318	5 19 9 77	25 87 28 395
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:	20 68 19 318 Active T.B.	5 19 9 77	25 87 28 395
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN: Austrian Belgian	20 68 19 318 Active T.B.	Non-T.B., Inactive	25 87 28 395
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese	20 68 19 318 Active T.B.	Non-T.B., Inactive	25 87 28 395
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN: Austrian Belgian	20 68 19 	5 19 9 77 Non-T.B., Inactive	25 87 28 395
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN: Austrian Belgian Chinese Czech Danish	20 68 19 318 Active T.B.	5 19 9 77 Non-T.B., Inactive	25 87 28 395
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN: Austrian Belgian Chinese Czech Danish	20 68 19 318 Active T.B.	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 1 6 6 8 1
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor	20 68 19 318 Active T.B.	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 4 1 6 6 8 8 1 1 6 6
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch	20 68 19 318 Active T.B.	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 4 6 6 8 8 1 6 6 6 1
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English	20 68 19 318 Active T.B.	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 4 1 6 6 8 8 1 1 6 6
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian	20 68 19 318 Active T.B.	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 1 6 8 8 1 666 1 211
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French	20 68 19 318 Active T.B.	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 4 6 6 8 8 1 6 6 6 1
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French French Finnish	20 68 19 318 Active T.B.	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 4 6 6 6 6 6 1 21 1 1 30 1
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 18	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 1 1 6 6 8 8 1 1 6 6 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French French Finnish German Hebrew Hungarian Icelandic	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 18 21 1 21 21	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 1 6 6 8 8 1 21 1 30 1 30 1 1 30 1 1 1 1 1 1 1 1 1 1 1
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian	20 68 19 318 Active T.B.	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 4 1 66 8 8 1 21 1 30 1 30 1 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish	20 68 19 318 Active T.B. 2 1 4 1 6 5 5 49 1 18 21 21 21 21 39	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 4 1 6 6 6 6 1 21 1 3 3 0 1 3 2 2 4 4 4 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 2
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 1 18 21 21 21 39 2	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 1 6 6 8 8 1 1 21 1 1 30 2 2 2 6 6 4 4 4 3 3
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 18 21 21 21 21 39 2	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 4 4 1 6 6 8 1 21 1 30 1 3 2 2 4 4 4 3 1 3 1 4 4 3 1 4 4 4 3 1 2 1 4 4 4 4 3 1 4 4 4 4 4 4 4 4 4 4 4 4 4
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian	20 68 19 318 Active T.B. 2 1 4 1 6 5 1 18 21 1 21 21 21 21 21 21 21 21 21 21 21 2	5 19 9 77 Non-T.B., Inactive	25 87 28 395 Tot 2 1 1 66 8 8 1 21 1 30 2 26 444 3 3 1 2
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis	20 68 19 318 Active T.B. 2 1 4 1 6 5 5 49 1 18 21 21 21 21 39 2 24	5 19 9 77 Non-T.B., Inactive	25 87 28 395 395 Tot 2 1 1 1 66 8 8 1 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 8
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 18 21 21 21 21 39 2 2 1 21 21 21 21 21	5 19 9 77 Non-T.B., Inactive	25 87 28 395 395 Tot 2 1 1 66 8 8 1 21 1 300 1 3 2 266 444 3 3 1 2 2 2 2 9 1 4
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian Polish Norwegian Polish	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 18 21 21 21 21 21 21 21 21 21 21 21 21 21	5 19 9 77 Non-T.B., Inactive	25 87 28 395 395 Tot 2 1 4 4 1 6 6 8 8 1 21 1 30 1 2 2 6 4 4 4 3 3 2 2 2 9 4 1 4 2 3
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian Polish Roumanian	20 68 19 318 Active T.B. 2 1 4 1 6 5 5 49 1 18 21 21 21 21 21 39 2 21 21 21 21 21 21 21 21 21 21 21 21 2	5 19 9 77 Non-T.B., Inactive	25 87 28 395 395 Tot 2 1 1 66 8 8 1 21 1 300 1 2 26 444 3 3 2 2 2 9 4 4 2 3
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian Polish Roumanian Russian	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 1 18 21 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	5 19 9 77 Non-T.B., Inactive	25 87 28 395 395 Tot 2 1 1 66 8 8 1 21 1 300 1 2 26 444 3 3 2 2 2 9 4 4 2 3
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian Polish Roumanian Russian Scottish	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 18 21 21 21 21 39 2 2 1 21 21 21 39 2 2 1 21 21 39 2 2 3 3 3 3 3 3	5 19 9 77 Non-T.B., Inactive	25 87 28 395 395 Tot 2 1 1 66 8 8 1 21 1 300 1 1 2 266 444 3 3 1 2 2 2 9 9 1 4 2 3 3 3 4 4 4 1
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian Polish Roumanian Russian Scottish Swedish	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 18 21 21 21 21 39 2 21 21 21 21 21 21 21 21 21 21 21 21 2	5 19 9 77 Non-T.B., Inactive	25 87 28 395 395 Tot 2 1 1 66 8 8 1 21 1 300 1 2 26 44 3 3 2 2 2 9 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian Polish Roumanian Russian Scottish Swedish Swedish Swedish Swedish Swedish Swedish Swedish Swedish Swess	20 68 19 318 Active T.B. 2 1 4 1 6 5 5 49 1 18 21 21 21 39 2 21 21 39 2 21 21 39 2 21 21 39 2 21 21 39 2 30 31 31 31 31 31 31 31 31 31 31 31 31 31	5 19 9 77 Non-T.B., Inactive	25 87 28 395 395 Tot 2 1 1 1 300 3 2 2 2 6 4 4 4 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian Polish Roumanian Russian Scottish Swedish Swedish Swess Ukrainian	20 68 19 318 Active T.B. 2 1 4 1 6 5 5 49 1 18 21 21 21 21 39 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	5 19 9 77  Non-T.B., Inactive  3 1 17 3 1 9 1 1 5 5 1 1 8 1 9	25 87 28 395 395 Tot 2 1 1 6 6 8 8 1 6 6 6 1 1 2 1 1 1 2 2 2 6 4 4 4 2 3 3 3 4 1 1 1 3 6 6 6 1 1 2 1 1 1 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian Polish Roumanian Russian Scottish Swedish Swiss Ukrainian Welsh	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 18 21 21 21 21 21 21 21 22 1 22 1 21 22 24 12 20 3 3 3 3 3 3 10 11 27 7	5 19 9 77  Non-T.B., Inactive  3 1 17 3 1 9 1 1 5 5 1 5 2 3 1 8 1 9 1	25 87 28 395 395 Tot 2 1 1 6 6 8 8 1 6 6 6 1 1 2 1 1 1 2 2 2 6 4 4 4 2 3 3 3 4 1 1 1 3 6 6 6 1 1 2 1 1 1 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
In Alberta from 15 to 19 years In Alberta from 20 to 30 years Over 30 years  III.—RACIAL ORIGIN:  Austrian Belgian Chinese Czech Danish Dutch Doukhobor English Esthonian French Finnish German Hebrew Hungarian Icelandic Indian Irish Italian Japanese Lithuanian Metis Norwegian Polish Roumanian Russian Scottish Swedish Swedish Swess Ukrainian	20 68 19 318 Active T.B. 2 1 4 1 6 5 49 1 18 21 21 21 21 21 21 21 22 1 22 1 21 22 24 12 20 3 3 3 3 3 3 10 11 27 7	5 19 9 77  Non-T.B., Inactive  3 1 17 3 1 9 1 1 5 5 1 1 8 1 9	25 87 28 395 395 Tot 2 1 1 66 8 8 1 21 1 300 1 2 266 444 3 3 1 2 2 2 9 14

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	8	Medicine Hat	4
Drumheller Calgary		Red Deer	1
Edmonton	-		_
Lethbridge			136
TOWNS:			
Beverly		Olds	2
Blairmore		Redcliffe St. Albert	î
Brooks Camrose	-	Stettler	2
Cardston		Vegreville	2
Castor	1	Vermilion	1
Claresholm	3	Wainwright	1
Grande Prairie		Stony Plain	1
Hanna			29
Innisfail			20
Lacombe			
VILLAGES:	1	Mundana	1
Alix	The state of the s	Mundare Provost	.1
Coalhurst Edgerton	The same of the sa	Turner Valley	1
Lac La Biche	and the same of th	and the same of th	
Mirror			8
Blackfoot Indian Agency Hobbema Indian Agency			9
Edinoliton Indian rigency			
Transient			
Transient			2
Transient			2
Transient LOCAL I	MPROVE	EMENT DISTRICTS	32
LOCAL I	MPROVE	EMENT DISTRICTS L.I.D. 665	32
LOCAL I	MPROVE	EMENT DISTRICTS L.I.D. 665	32
LOCAL I	MPROVE  2 1 1 1 1	EMENT DISTRICTS  L.I.D. 665  L.I.D. 666  L.I.D. 667  L.I.D. 723	32 32 1 2 1
LOCAL I  L.I.D. 67  L.I.D. 71  L.I.D. 91  L.I.D. 93  L.I.D. 122	MPROVE 2 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 667 L.I.D. 723 L.I.D. 731	32 32 31 22 11
LOCAL I  L.I.D. 67  L.I.D. 71  L.I.D. 91  L.I.D. 93  L.I.D. 122  L.I.D. 183	MPROVE 2 1 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 667 L.I.D. 723 L.I.D. 731 L.I.D. 732	32 32 31 12 11 11
LOCAL I  L.I.D. 67  L.I.D. 71  L.I.D. 91  L.I.D. 93  L.I.D. 122  L.I.D. 183  L.I.D. 223	MPROVE 2 1 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665  L.I.D. 666  L.I.D. 667  L.I.D. 723  L.I.D. 731  L.I.D. 731  L.I.D. 732	32 32 31 2 11 11 2
LOCAL I  L.I.D. 67 L.I.D. 71 L.I.D. 91 L.I.D. 93 L.I.D. 122 L.I.D. 183 L.I.D. 223 L.I.D. 223 L.I.D. 276	MPROVE 2 1 1 1 1 1 7	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 667 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 732 L.I.D. 732 L.I.D. 733 L.I.D. 734	32 32 31 22 11 11 22 1
LOCAL I  L.I.D. 67 L.I.D. 71 L.I.D. 91 L.I.D. 93 L.I.D. 122 L.I.D. 183 L.I.D. 223 L.I.D. 276 L.I.D. 376	MPROVE 2 1 1 1 1 1 7	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 667 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 732 L.I.D. 733 L.I.D. 733 L.I.D. 742 L.I.D. 756	32 32 31 12 11 12 11 12 11
Transient  LOCAL I  L.I.D. 67  L.I.D. 71  L.I.D. 91  L.I.D. 93  L.I.D. 122  L.I.D. 183  L.I.D. 223  L.I.D. 276  L.I.D. 376  L.I.D. 412	MPROVE 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 667 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 732 L.I.D. 733 L.I.D. 733 L.I.D. 742 L.I.D. 756	32 32 31 12 21 11 12 21 11 22 11
Transient  LOCAL I  L.I.D. 67  L.I.D. 71  L.I.D. 91  L.I.D. 93  L.I.D. 122  L.I.D. 183  L.I.D. 223  L.I.D. 276  L.I.D. 376  L.I.D. 412	MPROVE  2  1  1  1  7  1  1  1  1  1  1  1  1  1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 732 L.I.D. 733 L.I.D. 742 L.I.D. 756 L.I.D. 764 L.I.D. 766 L.I.D. 766 L.I.D. 766	32 32 31 12 21 11 12 22 11 12 22 13
Transient  LOCAL I  L.I.D. 67 L.I.D. 71 L.I.D. 91 L.I.D. 93 L.I.D. 122 L.I.D. 183 L.I.D. 226 L.I.D. 276 L.I.D. 376 L.I.D. 412 L.I.D. 412 L.I.D. 497 L.I.D. 497 L.I.D. 571	MPROVE  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 667 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 732 L.I.D. 733 L.I.D. 742 L.I.D. 742 L.I.D. 746 L.I.D. 766 L.I.D. 766 L.I.D. 766 L.I.D. 766 L.I.D. 796 L.I.D. 826	32 32 31 12 11 11 12 11 12 12 13 13 23 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Transient  LOCAL I  L.I.D. 67  L.I.D. 71  L.I.D. 91  L.I.D. 93  L.I.D. 122  L.I.D. 183  L.I.D. 223  L.I.D. 276  L.I.D. 376  L.I.D. 412  L.I.D. 412  L.I.D. 491  L.I.D. 497  L.I.D. 571  L.I.D. 583	MPROVE  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 732 L.I.D. 733 L.I.D. 742 L.I.D. 742 L.I.D. 766 L.I.D. 766 L.I.D. 766 L.I.D. 796 L.I.D. 796 L.I.D. 831	32 32 31 12 21 11 12 22 11 12 22 13
LOCAL I  L.I.D. 67  L.I.D. 71  L.I.D. 91  L.I.D. 93  L.I.D. 122  L.I.D. 183  L.I.D. 223  L.I.D. 276  L.I.D. 376  L.I.D. 412  L.I.D. 412  L.I.D. 497  L.I.D. 571  L.I.D. 583  L.I.D. 583  L.I.D. 602	MPROVE  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 667 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 733 L.I.D. 733 L.I.D. 742 L.I.D. 756 L.I.D. 756 L.I.D. 766 L.I.D. 766 L.I.D. 796 L.I.D. 796 L.I.D. 826 L.I.D. 831 L.I.D. 831 L.I.D. 874	33 11 22 11 11 12 21 13 22 11 11 12 11 12 12 11 12 12 11 12 12
Transient  LOCAL I  L.I.D. 67 L.I.D. 71 L.I.D. 91 L.I.D. 93 L.I.D. 122 L.I.D. 183 L.I.D. 223 L.I.D. 223 L.I.D. 276 L.I.D. 376 L.I.D. 412 L.I.D. 412 L.I.D. 497 L.I.D. 497 L.I.D. 571 L.I.D. 583 L.I.D. 583 L.I.D. 602 L.I.D. 603	MPROVE  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 732 L.I.D. 733 L.I.D. 742 L.I.D. 756 L.I.D. 764 L.I.D. 766 L.I.D. 766 L.I.D. 796 L.I.D. 796 L.I.D. 826 L.I.D. 831 L.I.D. 874 L.I.D. 874 L.I.D. 889	33 11 22 11 11 12 21 13 33 22 11 12 22 11 12 22 11 12 22 12 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Transient  LOCAL I  L.I.D. 67  L.I.D. 71  L.I.D. 91  L.I.D. 93  L.I.D. 122  L.I.D. 183  L.I.D. 223  L.I.D. 276  L.I.D. 376  L.I.D. 412  L.I.D. 412  L.I.D. 491  L.I.D. 497  L.I.D. 571  L.I.D. 583  L.I.D. 602  L.I.D. 602  L.I.D. 603  L.I.D. 607	MPROVE  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 667 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 733 L.I.D. 733 L.I.D. 742 L.I.D. 756 L.I.D. 756 L.I.D. 766 L.I.D. 766 L.I.D. 796 L.I.D. 796 L.I.D. 826 L.I.D. 831 L.I.D. 831 L.I.D. 874	32 32 31 12 11 11 12 22 11 12 22 11 12 22 11 12 22 11 12 12
LOCAL I  L.I.D. 67 L.I.D. 71 L.I.D. 91 L.I.D. 93 L.I.D. 122 L.I.D. 183 L.I.D. 223 L.I.D. 223 L.I.D. 276 L.I.D. 376 L.I.D. 412 L.I.D. 412 L.I.D. 412 L.I.D. 497 L.I.D. 497 L.I.D. 571 L.I.D. 583 L.I.D. 583 L.I.D. 602 L.I.D. 603	MPROVE  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EMENT DISTRICTS  L.I.D. 665 L.I.D. 666 L.I.D. 667 L.I.D. 723 L.I.D. 731 L.I.D. 732 L.I.D. 732 L.I.D. 742 L.I.D. 742 L.I.D. 746 L.I.D. 766 L.I.D. 766 L.I.D. 766 L.I.D. 766 L.I.D. 766 L.I.D. 826 L.I.D. 826 L.I.D. 831 L.I.D. 874 L.I.D. 884 L.I.D. 889 L.I.D. 8946	3

Grand Total

# MUNICIPAL DISTRICTS M.D. 458 M.D. 484 M.D. 10 M.D. 69 M.D. 157 M.D. 158 M.D. 159 M.D. 189 M.D. 221 M.D. 274 M.D. 274 M.D. 277 M.D. 307 M.D. 336 M.D. 336 M.D. 336 M.D. 336 M.D. 365 M.D. 365 M.D. 367 M.D. 398 M.D. 398 M.D. 390 M.D. 394 M.D. 424 M.D. 423 M.D. 423 M.D. 423 M.D. 424 M.D. 425 M.D. 427 M.D. 429 M.D. 431 M.D. 434 M.D. 454 M.D. 454 M.D. 454 M.D. 455 M.D. 456 M.D. 457 M.D. 485 M.D. 487 M.D. 488 M.D. 489 M.D. 512 M.D. 513 M.D. 514 M.D. 515 M.O. 516 M.D. 517 M.D. 519 M.D. 520 M.D. 542 M.D. 543 M.D. 544 M.D. 545 M.D. 546 M.D. 547 M.D. 548 M.D. 549 M.D. 549 M.D. 552 M.D. 553 M.D. 554 M.D. 554 M.D. 554 M.D. 554 M.D. 555 M.D. 555 M.D. 556 M.D. 557 M.D. 575 1122111116211211111432412311 M.D. 576 M.D. 577 M.D. 579 M.D. 581 M.D. 582 M.D. 609 M.D. 610 M.D. 638 M.D. 739 M.D. 857

136

395

# The Child Welfare and Mothers' Allowance Brannch

(T. R. Blaine, Superinendent)

Working within the provisions of The Child Welfare Act of Alberta, The Juvenile Courts Act of Alberta, The Dominion Delinquents Act, The Mothers' Allowance Act, The Children of Unmarried Parents Act, and Part VII of the Domestic Relations Act.

## THE CHILD WELFARE ACT

The Children's Protection Act, enacted in the year 1910 and frequently amended, was superseded on the 1st day of November, 1932, by the present Child Welfare Act.

This Act, although following closely the general lines of the older statute, is an up-to-date measure and, in various important respects, a great advance.

The definition of a neglected child is extended, and now enables us to take steps towards the protection of children to whom previously we were unable to extend assistance; and another important change is that, whereas until 1932 our guardianship ceased when a child attained the age of 18, the age limit is now extended to 21 years.

All children who are made permanent wards of the Superintendent of Child Welfare under The Child Welfare Act are placed, if possible, in free foster homes.

We have no difficulty in finding good homes for these children where their future, especially in the cases of young ones, is assured.

Salaries	\$13,821.34
Expenses: Board	33,494.73
Clothing	8,712.31
Hospital and Medical Supplies	332,55
Medical Services	5 155 30
Printing, Stationery and Office Supplies	855.03
Telegrams and Telephones	797.46
Travelling Expenses	5,395.48
Advertising	11.93
Books and Binding	359.67
Burial Expenses	11.00
Cinema and Photo Supplies	115.5
Equipment	40.00
Fees and Commissions	0.77
Freight, Express and Cartage	11.1/
Miscellaneous Expenses	5.0
Miscellaneous Supplies	488 93
Postage	200.0
	\$69,800 53

Legitimate Illegitimate

	CHILDREN MADE WAF	RDS O	F SUPE	RINTE	NDEN	r of c	CHILD	WELF	ARE	
	Age	1930	1931	1932	1933	1934	1935	1936	1937	1938
		132	157	159	145	167	148	194	229	206
	ar and under	41	13	5	13	8	8	9	7	11
	ars	9	9	5	5	8	5	7	12	4
	ars	10	7	1	4	4	5	10	5	8
-	ars	15	2	3	3	7	10	5	5	5
	ars	12	4	4	5	5	7	9	12	- 5
	ars	8	3 9	3 6	5	5	7 10	5 5	10	6
	ars	10	3	3	3	8	6	7	10	4
	ars	12	8	5	10	8	15	5	7	5
	ars	10	6	4	4	8	9	6	8	8
	ars	12	5	6	13	3	10	7	5	6
	ars	9	8	10	6	6	9	8	4	10
14 ye	ars	12	9	7	7	4	5	9	7	7
	ars	20	9	.7	6	4	7	4	4 3	5 9
	ars	11	3	11 3	8	8	12	8	2	1
17 ye	ars	5	4	0	*		- 3	****		
	Total	334	259	242	246	258	278	298	337	306
	TOME.	001			-					
	NEC	GLECT	ED CH	ILDRE	N—CA	USE				
		1930	1931	1932	1933	1934	1935	1936	1937	1938
Negle	cted	168	80	45	51	49	85	52	53	71
	er unable to support	154	161	157	152	168	176	213	247	204
Aban	doned	1711	1		****	1111				10
Immo	oral conduct	2	1	1	15	30	7	9	10	3 5
Mora	ls of parent or parents	2	10 5	24	5	5	4	9	7	4
Orph	ty of parents	****	3	-	4			8	3	2
	quate parental control					1		4	1	1
Fathe	r dead, mother insane							4		11111
	er in gaol					****		1	****	0.00
Incor	rigible	3	1	2	3	1	****	****		*****
Moth	er in Mental Hospital						2111	1	3	14111
Moth	er not capable	3	****	12	4	1			1	
	er dead er deserted	0	1000	12			1000		î	
	er drinking		1111						2	
	conditions			1016					1.00	5
	roper guardianship			1010		****				1
	NEGLE							*****	1000	1000
		1930	1931	1932	1933	1934	1935	1936	1937	1938
	dian	155	167	114	219	236	248	268	569	303
	ican	23	7	2		5	2	1	3 8	1 2
Polis	h	3 7	4	13	2	1	1111	1	5	-
	h ch	15	7	1	3	2	2	2		
	an	18	26	24	5	1	10	19		
Engli		40	27	36	5	3	1	1		
	nan	31	19	27	3		5	4		
Irish		5	2	6	1	1	4			
	breed	7	****	2	2 2	2				
	inian	6		4	-	10.70				
	h	0		****			5			
Italia			3000				1	1000		****
	ese							1		
Swed			4444	1					1000	611
	sh	0.0	****	1					****	****
Aust	rian	22	****	10	4	6	1215		****	6110

136 85 94 84 118 105 69 123 157 152 174 160 193 268 87 219

NEGLECTED	CHILDREN	-RELIGION

	1930	1931	1932	1933	1934	1935	1936	1937	1938
Anglican	34	57	19	49	34	38	33	42	51
Presbyterian	35	25	26	25	13	15	21	13	21
Roman Catholic	93	50	52	64	74	68	66	82	48
	28	31	26	37	38	32	20	49	61
United				19	9	9	18	10	7
Baptist	21	8	10			10		70	56
Protestant	55	34	73	27	41	46	78	10	90
Salvation Army	13		5	2	1	5	8		6
Lutheran	17	15	11	9	18	12	18	31	27
Greek Orthodox	15	20	11	2	5	23	20	15	10
Latter Day Saints			6	2	8			2	3
Cucale Catholia	3		3	8	9	30	16	3	9
Mahammadan						5			
Monammedan				9	1	1		2	
Nazarene	*			4	2	1		1	
Pentecostal		9			0			*	
Reformed	15	2							-
Christian	4	1144							1
Christian Science		17			year	1119			1
Evangelical					1				2
Gospel Hall					1			1	
Barn Causes Cosnel					2				1
Monmonite								1	
Mennonite									3
Seventh Day Adventist					1000				

# THE DOMESTIC RELATIONS ACT AND CHILD PLACEMENT

The law permits that infants, who are wards of the Superintendent of Child Welfare, can be adopted into the homes in which they have been placed, after the expiration of one year. In the case of private adoptions, there is no time limit act.

No application for adoption, whether private or otherwise, can be made to the Judge without the Superintendent of Child Welfare being notified. It is then the duty of the Child Welfare Department to investigate the home of the applicants and if, in the Superintendent's opinion, there is cause why the adoption should not be granted, he must make it known to the Judge hearing the application concerned. This procedure, it can be readily seen, works to the benefit of the child to be adopted and does away with conditions said by Miss Charlotte Whitton, of the Canadian Welfare Council, to exist in some provinces where trafficing in adoptions is said to prevail.

It should also be mentioned that Section 53 of the Child Welfare Act provides as follows: "No parent shall surrender the custody of his or her child, and no person shall accept the custody of such child, without having first obtained the approval in writing of the Superintendent, and any surrender without such approval shall be null and void, and any parent or person who violates any provision of this section shall be liable on summary conviction by a Justice of the Peace to a fine of not less than twenty dollars and costs and not more than two hundred dollars and costs, and in default of payment to a term of imprisonment not exceeding three months."

# RETURN OF CHILDREN PLACED UNDER CHILD WELFARE ACT AND LEGAL ADOPTIONS UNDER DOMESTIC RELATIONS ACT

	1930	1931	1932	1933	1934	1935	1936	1301	1330
Number of children placed in foster homes	499	457	433	441	366	372	391	490	593
Number legally adopted (wards of Superintendent)	152	147	158	133	197	160	183	220	198
Number of private adoptions (not wards of Supt.)		23	18	23	52	40	48	48	51

# THE JUVENILE DELINQUENTS ACT

This is Dominion legislation, and under Section 44 of The Juvenile Delinquents Act it provides that same shall go into force only when and as proclamations declaring it in force in any province,

city, town or other portion of the province are issued and published in the Canada Gazette.

The Act was proclaimed in this Province on the 25th of April, 1914, and in the Act a delinquent is defined as a boy or girl apparently or actually under the age of 16 years, provided that in any province or provinces as to which the Governor in Council by proclamation has directed or may hereafter direct, "child" means any boy or girl apparently or actually under the age of 18 years.

In Alberta, on the 29th of March, 1923, the age in respect to girls was increased to 18, and in 1935 the age of boys was increased to 18 years.

The Province of Alberta has no reform school. A number of foster homes are used, chiefly on farms, for the individual placement of delinquents. The Royal Commission appointed to investigate the penal system of Canada has the following to say regarding the system in force in this Province:

"The authorities at Edmonton, Alberta, have evolved a scheme as an alternative to training schools that has had considerable success. They have prepared a panel of foster homes. These homes are thoroughly inspected and well supervised, and are usually situated on a farm some distance from the city. When it has been decided that juvenile delinquents should be removed from the surroundings of their delinquency, they are put in one of these foster homes on probation and under supervision. The judges of the juvenile court and the children's aid authorities of Alberta report that marked success has attended this treatment. They also report that they have had no difficulty in obtaining a sufficient number of suitable foster homes to meet their requirements. In many cases youths so dealt with have been able to save substantial sums of money and have ultimately succeeded in establishing themselves in life. We are advised that the success of this system in Alberta has been due to the very strict character of the supervision exercised over the youths and over the homes in which they have been placed. It appears to your Commissioners that this experiment might be extended into many other parts of the Dominion, especially in the districts adjacent to the smaller cities, towns and villages."

It will be noted by the figures given on the return below that juvenile delinquency in 1938 showed a great increase over the previous year. This is accounted for by an increase in by-law cases; in 1937 there were 90 by-law cases, whereas in 1938 there were 260. This increase came chiefly from the City of Calgary, where a drive was made at boys riding bicycles on sidewalks and other minor infractions of the city by-laws.

			DEL	INQUE	NTS-A	GES					
			1930	1931	1932	1933	1934	1935	1936	1937	1938
8	vears		12	14	15	6	10	5	3	6	7
9			26	20	20	6	8	18	14	18	6
- 20	years		30	29	23	26	34	30	19	27	18
10	years		42	55	39	38	68	47	37	27	39
11	years		88	76	42	48	54	68	58	69	52
12	years		148	95	60	65	69	78	80	63	88
13	years	MANAGEMENT CONTRACTOR		121	66	93	94	123	129	85	114
14	years	************************************	40		70	97	97	149	151	123	160
15	years		166	127			57	83	125	97	164
16	years		42	57	24	41	31		26	86	144
17	years		11111			****	*****	9	20	-	
	7.000		-		-			-	0.10	000	705
	T	otal	594	594	359	420	491	610	642	606	795
		Management of the control of the con	-	-				-	200		===
M	les		575	567	347	391	467	585	615	576	750
Fo	malee	400000000000000000000000000000000000000	19	27	12	29	24	25	27	30	45

# DELINQUENTS-NATIONALITY

	1930	1931	1932	1933	1934	1935	1936	1937	1938
Canadian	502	381	320	166	326	380	558	569	688
English	21	24	3	53	30	57	10	5	12
Scotch	1	20	4	34	8	21	3	5	9
Irish	6	3	1	20	16	7	9	1	7
Italian		10	-		2	2	2	100	-
Russian	40	76	12	45	30	53	18		9
Walch	0.000	4		1		1	10		9
Doumenion		10007		2	9	9	1	1010	
American	18	7	10	0	47	12	10		20
Dollich		11	10	9		16		0	
Cormon	- 3	17		90	6	25	8	.8	25
Hungarian	9	14	3	26	5	25	11	11	4
Austrian		10	100	17			3	2	5
The contract of the contract o		13	1 2	47	10	16		****	1
Half-breed	2		2			1	4930	1	4
Norwegian		9				14	3		
Finnish		- 6	****		1	2			1111
French		10	2		2		4		
South African		-111			1		11111	1000	
Czecho-Slovakian				1000		1		1	4
Danish			1						1
Chinese					3				1
Swedish						8			
Jewish	1	7					3		
Ukrainian		.9							
Dutch	-								1
Yugo-Slavian									1

# DELINQUENTS-RELIGION

	1930	1931	1932	1933	1934	1935	1936	1937	1938
Anglican	74	48	32	69	75	55	64	61	91
Roman Catholic	132	191	111	99	121	144	192	129	229
United	79	48	23	89	74	102	86	64	87
Lutheran	116	22	26	18	45	80	67	25	34
Greek Orthodox	45	39	23	15	27	35	30	32	30
Greek Catholic	12	29	15	13	18	31	24	29	23
Protestant	27	153	88	65	95	113	114	204	
Seventh Day Adventist			00	00	1	3	114	204	184
Mohammadan			1-1-		1	0	~	-110	
Brethren		1000		9		1	0.00	1010	10,000
The second secon				2			1111	1414	2100
Christian	2		222	1111	222	1010	100	1	3
Baptist	19	24	15	13	15	21	23	10	24
Pentecostal	222		1016		4114	1000	4	3	2
Presbyterian	62	24	14	16	12	19	27	25	39
Doukhobor	1919	1000							1
Latter Day Saints	2	4	3					1	14
Hebrew	7	7	3	2			3	6	12
Spiritualists	1111								1
Beulah Tabernacle					3	4			3
Gospel Hall						- 3		2000	2
Christian Science		1			1	1101	2	1000	1
Four Saure Cornel					*		3	1411	1
Caluation Amount	13	A	6	19	4	2	3	14	1
Church of Chulet	10	*	0	10	"	-	9	14	0
Dible Ctudent						4000		1000	2
The state of the s	4						2111	0100	*****
Church of God		****			****	1000	1011	1111	2
Nazarene				1111		****		1111	7
Mennonite	1010					10107	1444	1	1
German Baptist		1010				1111	1000		2

DEL	INOII	ENTS-	OFF	ENC	ES
DEL	114 60 0	Early I all	UFF	THE REAL PROPERTY.	End.

I	DELIN	QUENTS	S-OFF	ENCES	3				
	1930	1931	1932	1933	1934	1935	1936	1937	1938
			189	131	270	283	294	428	515
Theft	362	247			72	62	86	62	67
Damage to property	87	82	59	108 81	103	89	76		178
Break and enter	58	88	36		9	20	17	11	15
Assault	7	10	5	2	9	2	11	3	2
Liquor Act	*****	****	9	9.110	3	6	2	100	10
Vagrancy	1	1 3	3	2000	4	2	18		23
Traffic Act	9					100	1		8
Fraud	7			2			2	1	3
Forgery		3	91		18	65	41	90	260
By-Laws	83	13	31	17		3	17	1	3
Incorrigible	5	16	24		4	9	2		10
Fishery and Game Act	2000		1111		9	1	1	3	3
Cruelty to animals	10	****	1111	5	4	1 2	6	2	1
Indecent assault	10		2	9	4	4	0	1	3
Creating disturbance	1	2		44		4	38	17	10
Railway Act	5	3	2	44	6		-	7	14
Immorality	3	10	2	6	8	32	10		1
False pretences	2	1	1111	13				1111	2
Trespassing			1		10		10		40
In possession stolen property	100	3	8	000	13	3	16	4	2
Receiving stolen property	55	3		29	13	11	4	4	
Carnal knowledge	*****			3	4	4	10		
Obscene language	8	4	++++	3	4	2	2		1
Arson		****	3	3	1			9	-
Incest		****	1		2		10		3
Billiard Room Act	2000	2222					12	1101	
Indecent conduct	1	2110	112				23	1111	3
Truancy		****	7	3			2.0	4.4	****
Contributing to delinquency			4044	30	10	12	12	11	1
In possession of firearms	1,000				*****	2	4	1	0.000
Delinquency	1010	19		4	4		8	1111	0000
Poisoning cattle	1111			1919	1111		2	****	
Molesting children		****		1000	2			****	
Attempted theft	100	****	****		****		3	1111	8
Buggery	1	1		1		****		100	0000
Libel	1	4000					19	1711	
Unlawfully wounding		44.11		3	2	****	13		2111
Public Health Act	1	****		1000			13		1000
Robbery				3		2	1	****	1.5
Mischief				4414	2000	1010			15
Attempt B. and E.	10.00	****		1111		1111			2
Prairie Fire Act	1001	****			2011	1111		****	1
DELINQUENTS—SENTENCES									
	1930	1931	1932	1933	1934	1935	1936	1937	1938
Suspended sentence	181	76	70	103	79	105	164	94	108
Probation	200	187	112	194	161	207	227	149	207
Made wards	16	14	20	4	42	32	35	49	55
	9	2	1		1	3	4	11	35
To be strapped		7	6	39	19	8	22	34	56
Adjourned sine die	118	61	6	8	27	59	32	151	15

	1930	1931	1932	1933	1934	1935	1936	1937	1938
Suspended sentence	181	76	70	103	79	105	164	94	108
Probation	200	187	112	194	161	207	227	149	207
Made wards	16	14	20	4	42	32	35	49	55
To be strapped	9	2	1		1	3	4	11	35
Adjourned sine die	100	7	6	39	19	8	22	34	56
Tiles and	118	61	6	8	27	59	32	151	15
	175	137	37	51	69	116	128		202
D -111-11	93	71	52	38	38	19	4	62	129
	21	6	43	58	30	25	48	49	29
Reprimanded	90	88	22	32	54	73	52	39	93
Warned	00	00	20	Was.	0.1			-	-
Industrial School including		16	15	15	10	1	14	13	12
suspended sentences	1000	100		4			2	12	38
Remanded to Police Court		70		*			100	9	13
Cautioned	1000	10	1-1-	4	0.00	1007		170	37.00
School for Mental Defectives				1			c	6	4
Returned to parents		9	10	10	4.000	51	10	0	4
Dismissed	8	5	13	12	01		10	1811	****
Remanded	23	13	36	39	61	15	21	1111	
Supervision	10	14	4	27		1111	1111	1010	****
Application for deportation	****	1	1000		1000		1919	11111	1911
Driver's license suspended		-9000	4000			1000		1111	1
Bicycle surrendered for period	1	****	****		3110		13	0.000	48
Rifle confiscated	****	****	****		0.00	****	99.83	1000	2
Write charge number of									-
times		****	1111	****	10.00		0.000	****	32

# THE CHILDREN OF UNMARRIED PARENTS ACT

This Act came into force in the Province of Alberta in the year 1923.

Any mother who has a child born out of wedlock can make application to the Superintendent of Child Welfare for proceedings to be taken against the father of her child. A complaint in this instance must be made within the life-time of the putative father and

- (a) within the next twelve months after the birth of the child; or
- (b) within the twelve months next after the doing of any act on the part of the putative father which could reasonably be regarded as an acknowledgment of paternity.

Section 24 of the Act provides that where the putative father admits paternity of the child and makes an adequate offer to provide for the maintenance and education of the child, he may enter into an agreement therefor with the Superintendent, which agreement shall contain an admission of paternity and shall have the same force and effect as if its terms were contained in an affiliation order.

Section 23 of the Act also provides that no agreement entered into between the mother of a child born out of wedlock, or an unmarried woman pregnant with a child and the putative father of the child, relating to any matters within the scope of this Act, shall be a bar to any proceedings under this Act.

The Act was amended in 1928 to include proceedings against one or two or more persons who might be the possible father of a child born out of wedlock. Previous to this amendment, all that it was necessary for a putative father to do to get away from his obligations was to produce a witness to the effect that he had had intercourse with the girl around the same period as himself, in which case the judge was powerless to make an order against the man charged. The Act was again amended in the last session of the legislature to permit a judge making a lump sum settlement in any case brought before him, providing the Superintendent of Child Welfare recommended same.

# EXPENDITURES FOR YEAR ENDING MARCH 31, 1938

Expenses: Fees and Commissions Legal Fees and Expenses Postage Printing. Stationery and Of Telegrams and Telephones Travelling Expenses	fice S	upplies							74.00 311.66 119.23 56.73 19.08 638.68
								\$1.	219.38
THE CHILDRI	EN OF	UNMA	ARRIED	PAR	ENTS	ACT			
	1930	1931	1923	1933	1934	1935	1936	1937	1938
Number illegitimate births registered	520 214 306	545 224 321	487 200 287	497 244 253	496 221 275	548 177 371	481 159 322	561 248 313	668 377 291
AMOUNTS R	ECEIV	ED FR	OM PU	TATI	VE F.	ATHER	S		
1930	\$ 9. 7. 7. 5.		1935 1936 1937 1938					8,70	01.70

## THE MOTHERS' ALLOWANCE ACT

The Mothers' Allowance Act came into force in this Province in 1919, and at that time any mother who was a widow, having a child or children, and in need would be eligible for assistance under the Act. Any mother, whose husband was committed to a Mental Institution would also come under this Act.

This Act was amended in April, 1936, and now reads: "A widow shall include any married woman who by order of a District Court Judge is declared to have been deserted, without reasonable cause. by her husband for a continuous period of five years or upwards immediately preceding the date of such order."

Twenty-five per cent. of allowances granted are collectible from the municipality in which the widow resides and the other seventyfive per cent. is paid by the Government. In a few instances where no particular municipality is chargeable, the Government pays the full amount.

RETURN SHOWING TOTAL YEARLY EXPENDITURE, NUMBER OF RECIPIENTS, AND NUMBER OF DEPENDENTS

	Yearly Expenditure	No. of Mothers Assisted	No. of Dependents
1929 (calendar)	\$396,755.00	1.094	2,880
1930/31	466,536.00	1,270	3.409
1931/32	479.607.04	1,499	3.747
1932/33	439.195.75	1.675	3,882
1933/34	439.982.99	1.724	4.060
1934/35	462.393.11	1.812	4.274
1935/36	507.501.68	2.088	4.764
1936/37	575.508.41	2.319	5.172
1937/38	613,564 00	2,317	5.177
1938/39	622,836.71	2,304	4,970

# ANNUAL REPORT

OF THE

# Vital Statistics Branch

OF THE

DEPARTMENT OF PUBLIC HEALTH
PROVINCE OF ALBERTA
1938

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# VITAL STATISTICS BRANCH

(Donald Mackie, Deputy Registrar General)

The chief Vital Statistic features of the year 1938 for the Province of Alberta show the birth rate to be a fraction less than that of the previous year, a reduction of the death rate and a substantial increase in the marriage rate.

The birth rate for the Province has been practically stationary for the last three years; an increased rate is noted this year for Canada as a whole, following a steady succession of declines.

The marriage rate is still increasing, and although not constituting a record for the Province, is the highest in Canada for the present year.

Deaths from epidemic and contagious diseases have decreased by over 50% from the previous year. This is attributed to the less number of deaths from Influenza and Measles, although the latter is still above normal. Diphtheria, Typhoid Fever, Scarlet Fever and Poliomyelitis all show slight increases over the preceding year, whilst Whooping Cough is the lowest for several years. Deaths from Cancer show a considerable increase over the number for the year 1937—during that year there was a gratifying decline from the previous year. This year, however, the Cancer rate has made up progressively for the drop last year, and is once again at a high record, being second to Diseases of the Heart, which occupies first place. Pneumonia occupies third place with a slight increase over the year 1937, whilst fourth place is occupied by Diseases of the Arteries. It is gratifying to note that the death rate from Pulmonary Tuberculosis is the lowest in the history of the Province, and is maintaining a steady downward trend. Violent deaths also show a small decrease, but no general downward trend is noticeable, as the rate this year is the same as for the year 1932.

The population of the Province of Alberta for the year 1938 has been estimated by the Dominion Bureau of the Census at 783,000. All rates in this report have therefore been based on that figure.

#### BIRTHS

The number of children born alive and registered during the year amounted to 15,891, constituting a birth rate of 20.3 per 1,000 population. This is 12 fewer births than the number for the previous year, and is a decrease of .1 in the rate. Comprising the 15,891 births were 8,125 males and 7,766 females, being a ratio of 1,046 males to 1,000 females, and which is exactly the average for the preceding ten years. There were 414 twins (207 sets) and 3 triplets (1 set) born during the year. Illegitimate births numbered 683, being 57 more than the number for the previous year, and constituting a rate of 4.3 per 100 births.

Of the total births registered 7,967 occurred in cities and towns of over 1,000 population, 7,041 in the rural districts and 883 on Indian reservations. In the four large cities the births were as follows: Edmonton 2,804, Calgary 1,655, Lethbridge, 622, and Medicine Hat 357.

For purposes of comparison, the following are the birth rates for Canada, the Provinces, Great Britain and certain other countries for the year 1938:

#### BIRTH RATES

Canada Prince Edward Island		British Columbia	
Nova Scotia	22.2	Scotland	17.7
New Brunswick	25.7	Northern Ireland	20.0
Quebec	24.6	Irish Free State	19.3
Ontario	17.6	Australia	17.4
Manitoba	18.7	Netherlands	
Saskatchewan	19.3	Germany	19.7
ALBERTA	20.3		

#### MARRIAGES

There were 6,973 marriages registered during the year. This number is 628 more than that of the previous year, and is 1,010 more than the average for the five preceding years. Like last year, this is the largest number of marriages recorded since the inception of the Province, although the rate has been exceeded twice, in the years 1928 and 1929. The marriage rate for the present year is 8.9 per 1,000 population.

Of the 6,973 marriages, 145 are brides of 16 years of age and under, 1,622 are between the ages of 17 and 19 and 3,184 between the ages of 20 and 24. There were 86 grooms and 42 brides over 60 years of age, 19 of these grooms and 6 of the brides being over 70 years of age. The number of marriages in the four large cities are as follows: Edmonton 1,640, Calgary 1,308, Lethbridge 273, and Medicine Hat 219.

For the purposes of comparison, the following are the marriage rates per 1,000 population for Canada, the Provinces, Great Britain and certain other countries for the year 1938:

#### MARRIAGE RATES

Canada	7.9	ALBERTA	8.9
Prince Edward Island	6.3	British Columbia	8.1
Nova Scotia	7.5	England and Wales	8.7
New Brunswick		Scotland	7.8
Quebec	7.9	Northern Ireland	6.7
Ontario	8.1	Irish Free State	5.1
Manitoba	8.7	Australia	9.0
Saskatchewan	6.2	Germany	9.4

#### DIVORCES

There were 267 divorces granted by decree absolute during the year, which is 26 more than the number for the previous year, and is 75 more than the average of the preceding five years; 105 were granted to husbands and 162 to wives. In addition to the divorces, 4 decrees of nullity were issued.

#### DEATHS

During the year deaths (including Indians) numbered 5,871, comprising 3,481 males and 2,390 females. This number is 390 less than in the previous year and constitutes a death rate of 7.5, or .5 less than in the preceding year. There were 333 males and 247 females 80 years of age or over at the time of death, whilst 2 males and 1 female were centenarians.

For purposes of comparison, the following are the death rates per 1,000 population for Canada, the Provinces, Great Britain and certain other countries for the year 1938:

#### DEATH RATES

Canada	9.5	British Columbia	9.8
Prince Edward Island	10.9	England and Wales	11.6
Nova Scotia	11.1	Scotland	12.6
New Brunswick		Northern Ireland	13.7
Quebec	10.3	Irish Free State	13.6
Ontario		Australia	9.6
Manitoba	8.2	United States	10.6
Saskatchewan	6.4	Netherlands	8.6
ALBERTA	7.5	Germany	11.7

As in past years, Heart Disease still holds first place amongst the causes of death, the rate being 114 per 100,000 population, compared with 109 for the previous year. Deaths from malignant disease increased from 598 in the year 1937 to 682 for the present year, constituting a death rate for this disease of 87 compared with 77 for the preceding year. Pneumonia was the third highest cause of death, the number being 488 compared with a previous 464. The fourth place on the list was occupied by Diseases of the Arteries, which had exactly the same death rate as last year, namely, 58. There was a decline in deaths from violence, which cause occupied fifth place, the number of such deaths being 357 as against 372 for the year 1937. Deaths by drowning were reduced by 15, whilst deaths from automobile accidents were increased by 22. The death rate from Pulmonary Tuberculosis continued its downward trend and now occupies seventh place, whereas a few years ago it occupied fifth place. The death rate from this cause is 26, and is the lowest recorded.

Deaths from contagious diseases were lower, owing to the large reduction in the number of fatalities from Measles over the preceding year, which was abnormally high, the present rate being 4 per 100,000 population as against 16 for the year 1937, the number of deaths being reduced from 123 to 30. Diphtheria, Typhoid Fever, Scarlet Fever and Poliomyelitis showed slight increases, whilst Whooping Cough decreased. There were no deaths from Small-pox. Deaths resulting from diseases of pregnancy and childbirth numbered 68, being 9 less than in the previous year and constituting a death rate of 8 per 100,000 population, or 4.3 per 1,000 live births.

The following table shows certain principal causes of death during the year. Both the actual number and the rate per 100,000 population of each is given, together with the figures for the four preceding years:

		1938		1937		1936		1935		1934	
Causes of Death	Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000	
Diseases of the Heart Cancer Pneumonia (all forms) Diseases of the Arteries Violent Deaths (Suicides ex-	895 682 488 455	114 87 62 58	849 598 464 453	109 77 59 58	801 640 440 427	103 82 57 55	826 622 450 404	105 79 57 51	835 572 312 305	108 74 41 39	
cepted) Nephritis Pulmonary Tuberculosis Influenza	357 243 206 174	46 31 26 22	372 240 266 473	48 31 34 61	419 190 294 340	54 24 38 44	393 194 266 194	50 24 34 24	382 196 262 141	49 25 34 18	
Appendicitis Diarrhoea and Enteritis Cerebral Haemorrhage Suicides Diabetes Mellitus	146 118 102 100 85	18 15 13 12 11	108 115 104 101 70	14 15 13 13 9	155 124 105 87 70	20 16 13 11 9	156 88 113 84 71	20 11 14 11 9	131 108 140 106 69	18 14 18 14	
Puerperal Causes Whooping Cough Measles Scarlet Fever	68 30 30 25	8 4 4 3	77 49 123 24	10 6 16 3	91 73 25 23	11 9 3 3	69 43 27 8	9 5 3	81 52 1 5	11	
Diphtheria Poliomyelitis Typhoid and Paratyphoid	18 15 12	2 2 2	10 13 6	1 2 1	9 4 20	1 2	8 15 11	1 2 1	8 4 8	1	

The foregoing list comprises 4,249 deaths and amounts to 72.3 of the total deaths for the year.

#### INFANT DEATHS

The deaths of children under one year of age numbered 812, as against 994 for the previous year, the corresponding rates per 1,000 births being 51 and 63, a reduction of 12 in the rate and 182 in the number of deaths, attributable, as previously stated, to the reduction in deaths from Measles. The present infant death rate is 9 less than the average of the five preceding years, and is the lowest in the history of the Province, being now one-half of what it was 20 years ago.

For purposes of comparison, the following are the infantile mortality rates per 1,000 births for Canada, the Provinces, Great Britain and certain other countries for the year 1938:

# INFANT MORTALITY RATES PER 1,000 BIRTHS

Canada	63	ALBERTA	51
Prince Edward Island		British Columbia	45
Nova Scotia	61	England and Wales	53
New Brunswick	75	Scotland	70
Quebec	83	Northern Ireland	75
Ontario	50	Irish Free State	66
Manitoba	56	Australia	38
Saskatchewan	51	United States	51

The number of deaths by suicide is 100, a decrease of 1 from the previous year, whilst the deaths from murder and manslaughter were 15, being a decrease of 3.

Stillbirths numbered 351, being 4 less than the number for the year 1937.

# DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTICS PURPOSES

As the Province of Alberta is not divided into Counties, and the political divisions are not permanently fixed, it has been found advisable to use as smaller areas, the Dominion Census Divisions.

These Divisions are fixed, and as the population increases, may be subdivided without destroying their value for purposes of Vital Statistic comparison with preceding years.

The following table shows these Census areas divided into Municipalities, Local Improvement Districts, Cities, Town and Villages with the 1936 and -931 official Division population figures.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931

Census Divisions and Municipalities	Popu	lation	Census Divisions and	Population		
	1936	1931	Municipalities	1936	1931	
Province	772,782	731,605	Division No. 2—Continued:			
Division No. 1: Medicine Hat	29,699	28,849	Towns—Continued: Coleman	2.129	1.70	
1 L.I.D.	93	90			119	
2 L.I.D.	162	128	Granum	255	329	
3 L.I.D.		152	Macleod		1,447	
4 L.I.D.		526		1,217	1,22	
5 L.I.D. 6 L.I.D.		1,097	Pincher Creek	2.094	1,024	
6 L.I.D. 31 L.I.D.	10.4	38		2,034	1,04	
32 L.I.D.	200	580		255	25	
33 Flowery Plains	533	477	Coalhurst		953	
34 Burlington	958	793	0011203		15	
35 L.I.D.		307	Frank		26	
36 Warner		1,214 808			11'	
61 L.I.D. 62 L.I.D.	m + 42	684	Pincher City Stirling		37	
63 L.I.D.		570	Status	002	01	
64 Forty Mile		1,060	Division No. 3: Bow	14,710	15,06	
65 Eureka	1,190	1,148	96 McLean	1,234	713	
66 L.I.D.	2,549	2.082			453	
91 L.I.D.	1,170	1,115		2,020	200	
92 Excelsior		905 852	and a st store made of	4.416	205 713	
93 L.I.D. 94 Bow Island		605		914	***	
Cities:	014	000	Towns:	014		
Medicine Hat	9,592	10,300		574	613	
Towns:			Brooks		70	
Bow Island	308	314	Redcliffe	990	1,193	
Irvine	278	1 279	Villages:	150	114	
Taber	1,341	1,279	Duchess Empress		31	
Villages: Burdett	90	121	Enchant	0.00	9:	
Milk River		350	Jenner	4.00	6:	
Warner		342			8	
Division No. 2: Macleod		57,186 369	Division No. 4: Nanton 97 L.I.D.	28,285 2,933	29,067	
8 L.I.D.		1,474	98 Little Bow	1,526	1,589	
9 L.I.D.		1,580		867		
10 Cochrane	1,613	1,320	128 Harmony		1.15	
37 Sugar City		1,993	129 Clear Lake		2,23	
38 L.I.D.		1,276		348	393	
39 Kerr		2,007 540	131 L.I.D. 157 Marquis		1.92	
40 Castle River 67 L.I.D.	4 000	4.691		w man	1.75	
68 L.I.D.		2,340		1,834	1,95	
69 Bright		1,442	160 L.I.Ď.	676	38	
70 Livingstone	1,466	1,502		43	4 00	
71 L.I.D.	4,369	4,282	189 Dinton	1,887	1,990	
99 Argyle			190 Sheep Creek 191 Stockland		1.98	
100 L.I.D.		192		2,551	2.50	
101 L.I.D. Indian Reserves		1,798		4		
Cities:	NIOUX.	-,,,,,,,	Towns:	1000000		
Lethbridge	13,523	13,489	High River		1,45	
Towns:			Nanton		73	
Blairmore		1,629 1,672			760	
Cardston						

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and Municipalities	Population		Census Divisions and	Population		
	1936	1931	Municipalities	1936	1931	
Division No. 4—Continued:			Division No. 6—Continued:	45		
Villages:			Olds	1,197	1.05	
Arrowwood			Strathmore	531	52	
Barons		284	Three Hills	659	58	
Black Diamond Blackie		683 251	Villages: Acme	291	99	
Carmangay		279	Airdrie		23 19	
Cayley		127	Albert Park		10	
Champion				230	23	
Lomond		176	Carbon	374	35	
Milo				356	38	
Nobleford		143		142	13	
Turner Valley	475	656		336	29 32	
Division No. 5: Acadia	21,391	26,651	Forest Lawn	333 471	32	
122 Pt. Jubilee			Hussar	104	15	
214 Berry Creek	1,793	581	Irricana		16	
241 Acadia		1.029	Langdon	101	8	
242 Cereal			are in colores	1,278	30	
243 Collholme			Rockyford	211	19	
271 Bertawan 272 Golden Centre		1,186			10	
272 Golden Centre		740	Standard Swalwell	205 112	21	
274 Richdale		788	Trochu	464	50	
275 Hand Hills		1,189	Around	404	31	
276 Pt. L.I.D.			Division No. 7: Battle River	37,647	38,10	
277 Michichi		2,178	305 Pt. Dowling Lake	168		
301 Canmer		814	331 L.I.D.	1.069	1.18	
302 Stewart		372	332 L.I.D.	806	1.01	
003 Wiste	200	1.199	333 L.I.D.	1.130	1,25	
004 Hiram		796 1,482	334 Coronation	1,941	2.02	
305 Dowling Lake		1.651	361 Rosenheim 362 Hillcrest	1.470	1.74	
007 Starland		1.446	363 Stocks	1.176	1.20	
Towns:	1,00	2,110	364 Flagstaff	1.796	1.68	
Hanna	1,405	1.490	365 Progress	2.262	1.99	
Youngstown		372	391 Sifton	1.477	1,47	
Villages:			392 Vale	1.044	95	
Cereal		185	393 Huamha	1.275	1,23	
Chinook		176	394 Asquith		1,20	
Craigmyle Delia		236 286	395 Wheatland 421 Ribstone	1,809	1,81	
Delia Morrin		149	121 Ribstone 122 Gilt Edge	1.644	1.45	
Munson		164	123 Battle River		1.46	
Oyen		401	124 Kinsella	1,240	1,23	
Richdale	38	44	425 Stirling	2.049	1.92	
Rumsey	81	83	155 Iron Creek	2.270	2,12	
N-11- N 0 0 1			Towns:	10000	-	
Division No. 6: Calgary		140,624	Castor		63	
23 Pt. Bow Slope		794	Coronation Hardisty	605 524	73	
218 Blackfoot		1.590	Wainwright	1.048	1.14	
219 Bow Valley		1.679	Villages:	1.040	1,17	
220 Shepard	2.057	3.048	Alliance	263	26	
21 Springbank	2,539	2,166	Cadogan	84	12	
22 L.I.D.		438	Chauvin	321	26	
247 L.I.D.		1,073	Compeer	88	5	
48 Grasswold 49 Keoma		1,448	Consort	252	25	
50 Beddington		2.272	Czar Edgerton	138	14	
51 L.I.D.		1,427	Forestburg	226	25	
252 L.I.D.		277	Galahad	152	1:	
76 L.I.D. Pt.	2.850	- 101	Hughenden	203	19	
78 Carbon	1.896	5,365	Irma	240	19	
79 Norquay	2.342	2,170	Killam		33	
80 Rosebud	2,366	2,177	Lougheed	217	2	
81 Beaver Dam 82 L.I.D.		1,926 593	Monitor Provest	99	13	
08 Ghost Pine		2,129	Provost Sedgewick	490 353	53	
309 Stauffer		2.027	Strome	210	17	
10 Mountain View	2,748	2,506	Veteran	180	18	
11 Westerdale	2.631	2,420	Viking	480	49	
Unorganized Parts	1.752	2,238				
Indian Reserves	1,882	2,109	Division No. 8: Red Deer	65,439	61,01	
Banff	2,037	2,519		1,427	1.70	
Cities:	00.40-	00 701	337 Vimy	1,015	1,07	
Calgary	83,407	83,761	338 Hays	2,736	2.36	
Drumheller Towns:	2,912	2,987	339 Pine Lake 340 Arthur	2,442	2.09	
Didsbury	846	801	366 Dublin	1,322	1,43	
			367 Waverly	ALC: UNKNOWN	A 1 A 1	

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and	Population		Census Divisions and	Population	
Municipalities	1936	1931	Municipalities	1936	1931
Division No. 8—Continued:			Division No. 10: Victoria	61,358	58,04
396 Haig	1,572	1,486	451 Merton	1,948	1,79
397 Lakeside	1.615 2.600	1,622 2,205	452 Grizzly Bear 453 Buffalo Coulee		1,39
398 Lamerton 399 Crown	4,105	3.689	454 Lakeview		1,52
426 Melrose	2,874	2,537	481 Wellington	2,124	1.88
127 Evergreen	2,788 1,510	2,592 1,386	482 Vermilion Valley		1.84
428 Waterglen 429 Fertile Valley	4.512	3.856	483 Melberta 484 Birch Lake		2.31
156 Parkland	2,858	2.971	485 Patricia	2,284	2.11
157 Lloyd George	2,973 3,553	2,791 3,329	486 Beaver Lake 511 Streamstown		3,02
158 Montgomery 159 Bigstone	3,452	2,807	512 Ethelwyn		3.03
Indian Reserves	1,199	1,141	513 Ukrainia	3,365	3,24
Cities:	0.004	9 944	514 Sobor		- 3,32
Red Deer Wetaskiwin	2,384	2,344 2,125	515 Norma 516 The Pines		3,20
Towns:			545 Eagle	4.255	4,10
Big Valley	359	455	546 Wostok		4,58
Camrose Daysland	2,263 366	2,258	547 Leslie Towns:	3,666	3,72
Innisfail	1.124	1,024	Lloydminster Pt.		53
Lacombe	1,414	1.259			1.65
Ponoka Stettler	1.045	836 1,219	Vermilion Villages:	1.291	1,27
Villages:	1,505	1,010	Andrew	137	11
Alix	333	241	Bruderheim		28
Bashaw Bawlf	423 236	385 183	Chipman Derwent		28
Bittern Lake		47	Holden		23
Blackfalds	105	84	Innisfree	245	22
Botha	98 242	107 215	Islay Kitscoty		14
Clive Delburne	236	193	Lamont	4 400 00	50
Donalda	182	169	Lavoy	151	15
Edberg	110 149	131 153	Mannville Minburn		30
Elnora Erskine		174	Mundare		83
Ferintosh	120	161	Myrnam	159	13
Gadsby	139	144 160	Ranfurly Ryley		12 23
Halkirk Heisler	139 156	125			14
Millet	357	300			25
Mirror New Norway	585 177	534 142	Division No. 11: Edmonton	129 017	126 83
Ohaton	46	69			2,75
Penhold	94	125	The second secon		3,79
Division No. 9: Rocky Moun-			189 Liberty   190 Pioneer		2.60
tain House	29,859	24,503	491 L.I.D.	1.226	90
312 Waterloo	1,343		517 Clover Bar		2,75
41 Poplar Grove	3.003		518 Strathcona 519 Spruce Grove		3,55
42 Raven 343 Prairie Creek	846	610	520 Inga	3,096	
44 L.I.D.	74	48	521 Tomahawk	1.705	1,43
71 Golden West	2,526 2,584	2,266	548 Sturgeon 549 Ray		4,30 3,55
00 Lorne 01 Lochearn	2,913	2,221			2,40
103 L.I.D.	363	347	551 Morthen	2,763	2,22
30 Blindman 31 Last West	1,599 1,736	1,376		954	33
132 L.I.D.	53	17		85,774	79.19
33 L.I.D.	164	24	Towns:		
34 L.I.D.	287	366			1,11
60 Columbia 61 L.I.D.		1,104 712			90
62 L.I.D.	307	101	Morinville	554	57
63 L.I.D.			St. Albert	811	83
66 L.I.D. Unorganized Parts	1,790	2,895	Stoney Plain		49
Indian Reserves	95	249	Villages:		1
Jasper	1,322	1,230	Alberta Beach		1
Villages:	250	233	Hay Lakes Onoway		11
Bentley Bowden	-	233			
Eckville	159	169	Wabamun		1
North Red Deer	359	318	Division No. 12: Edson	16,024	13,8
Rimbey	313 652		466 L.I.D. pt.		
Rocky Mountain House					

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and	Popul	lation	Census Divisions and	Popul	ation
Municipalities	1936	1931	Municipalities	1936	1931
Division No. 12—Continued: 522 Rocky Rapids	1,728	1,148	Division No. 14—Continued: 726 L.I.D. 727 L.I.D.	396 86	274 76
523 L.I.D. 525 L.I.D.	24 136	24 116	727 L.I.D. 728 T. 71-74, R. 22-24, W. 4. N. of Athabasca R.	26	
526 L.I.D. 527 L.I.D.	490	244	729 L.I.D.	218	120
552 Pembina	2,431 1,037	2,041 728	Indian Reserves Towns:	21	
554 L.I.D. 555 L.I.D.	870 733	685 655	Athabasca Villages:	608	573
556 L.I.D.	240 59	274 57	Barrhead Clyde	307 153	222 186
558 L.I.D. 582 Kitchener	2,478	2,340	Lac La Biche	410	313
583 L.I.D. 584 L.I.D.	759 574	654 543	Smoky Lake	394 428	350 366
612 L.I.D.	472	341	Westlock	507	536
Territorial Units 615, 585 Unorganized Parts	18 199	1,133	Waskatenau	241	
Towns: Edson	1,600	1,547	Division No. 15: Clearwater 613 L.I.D.	15,739	13,664
Villages:			641 L.I.D.	804	543
Entwistle Mayerthorpe	150 209	189 159	705 L.I.D.	22 24	24
	20 000	24 026	706 L.I.D. 707 L.I.D.	292	270
Division No. 13: Beaver R. 541 L.I.D.	30,602 910	24,936 745		209 84	141 25
542 Lincoln	1,249 3,141	933 2,646		31 82	42 78
543 Laurier 544 Champlain	2,399	2,257	730 L.I.D.	156	175
571 L.I.D.	267 1.859	65 1,419	731 L.I.D. 732 L.I.D.	431 670	363 578
572 Bonnyville 573 St. Vincent	2,951	2,554	733 L.I.D.	678	504
574 St. Lina	1,146	817 3,756	734 L.I.D.   735 L.I.D.	112 164	149 147
575 Vilna 601 L.I.D.	1,195	760		56	41
602 L.I.D.	1,567 1,016	1,105 615	737 L.I.D. 738 L.I.D.	61 621	23 414
603 L.I.D. 604 L.I.D.	640	497	764 L.I.D.	1,420	1,333
605 Ashmont 631 L.I.D.	1,814 951	1,616 677	765 L.I.D. 766 L.I.D.	1,176 534	1,101 503
633 L.I.D.	44	82	767 L.I.D.	84	24
634 L.I.D. 635 L.I.D.	255 915	186 568		180 802	141 648
663 L.I.D.	17		796 L.I.D.	2,791	2,408
664 L.I.D. 666 L.I.D.	22 545	13 320		18 251	10 215
695 L.I.D.	308	218	826 L.I.D.	764	891
Territorial Units 632, 661 Indian Reserves	1,720	1,514	S55 L.I.D. Territorial Units 622, 670.	577	477
Villages:	127	117	676, 677, 678, 679 and un-	148	47
Bellis Bonnyville	433	362	organized parts	963	909
St. Paul Vilna	950 253	938 151	Towns: Grouard	185	261
			Peace River	883	864
Division No. 14: Sturgeon 576 Smoky Lake	45,790	39,508 4.268	Villages: Falher	284	253
577 Unity	4,871	4.919	Division No. 16: Peace River	29,204	27,945
578 Opal 579 Hazelwood	3,318 3,627	3,286	739 Grande Prairie	2,388	2,389
580 Lockerbie	2.845	2,444	740 Bear Lake	2,815 1,599	2.683 1.566
581 Pershing 606 L.I.D.	2,158 148	1,664 131	742 L.I.D.	466	460
607 L.I.D.	1.828	887 8,147	769 L.I.D. 770 L.I.D.	661 981	514 871
608 Tawatinaw 609 Pibroch	2,380	2,210	771 L.I.D.	1,850	1,730
610 Shoal Creek 611 L.I.D.	2,553 909	2,095 406	772 L.I.D. 797 L.I.D.	1,193 658	1,358 549
636 L.I.D.	540	217	800 L.I.D.	336	296
637 Cartier 638 Nelson	1,413 1,701	1.273	801 L.I.D.   827 L.I.D.	173 126	167 161
639 L.I.D.	848	757	828 L.I.D.	633	381
640 L.I.D. 665 L.I.D.	953 1,151	1.130	829 Spirit River   830 L.I.D.	1.890 878	1,800
667 L.I.D.	1,622	1,342	831 L.I.D.	520	487
668 Grosmont 669 L.I.D.	805 506	886 79		2,155	1,990 2,264
696 L.I.D.	212	144	859 L.L.D.	705	519
697 L.I.D. 698 L.I.D.	572 34	499 40	886 L.I.D. 887 L.I.D.	497 744	508 525
699 L.I.D.	459		888 L.I.D.	597	581

## POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and	Popul	ation-	Census Divisions and	Popul	ation
Municipalities	1936	1931	Municipalities	1936	1931
Division No. 16—Continued: 889 L.I.D. 890 L.I.D. 891 L.I.D. 916 L.I.D. 917 L.I.D. Unorganized Parts Indian Reserves Towns: Grande Prairie Villages:	574 58 114 237 338 220 83 1,478	425 34 77 231 298 72 1.068	Division No. 16—Continued: Fairview Grimshaw Hythe Sexsmith Spirit River Wembley  Division No. 17: Athabasca Remainder of the Province comprising northern parts	393 129 260 298 234 173 8,713	26 13 27 30 23 18 5,78
Beaver Lodge Clairmont	203 104	211 110	Indian Reserves	3,248	1,47

TABLE 1.—GENERAL SUMMARY OF BIRTHS, DEATHS AND MARRIAGES IN THE PROVINCE OF ALBERTA BY DIVISIONS, CITIES TOWNS AND VILLAGES OF 1,000 POPULATION AND OVER, 1938

	səğep	Mar	6973 273 273 273 1631 129 1129 1129 11308 1308 1308 1308 1308 1308 1308 130	232288732 8
	strid	ııns	13.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4-10-10
	ars	(ii)	192 125 125 125 125 125 125 125 125 125 12	4415004
	5 years and over	M.	2896 237 237 237 238 288 288 288 288 288 288 288 288 288	111111111111111111111111111111111111111
	ears	F.	00 80 80 80 80 80 80 80 80 80 80 80 80 8	1 1 1 1 1 1
	1-4 years	M.	134 111 122 123 120 120 133 133 133 133 133 133 133 133 133 13	
DEATHS	ler ear	£i,	36 101 38 81 82 83 84 84 84 85 85 86 87 87 87 87 87 87 87 87 87 87 87 87 87	to
DE	Under 1 year	M.	12444 a 25 0 4 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	- 212 - 222
		E.	239 218 218 218 228 251 251 252 252 253 253 253 253 253 253 253 253	2 222200
	All Ages	M.	3481 120 293 293 48 48 346 103 104 63 103 103 103 103 103 103 103 103 103 10	22.00
	A	Total	5871 207 511 511 156 156 158 167 168 167 167 165 165 165 165 165 165 165 165 165 165	3 4488888
	Still-		7766 231 692 136 1249 321 692 2222 2222 2222 2223 1682 1682 1682 1682 1682 1682 1682 1682	227772
intho	Births of S births)		8125 269 269 760 1110 11282 2138 2138 2140 2158 11681 11681 1173 1173 1173 1173 1173 1173 1173 11	8 525558
Д	(Exclusi	Total	289 1450 1450 1450 1450 1450 1450 1450 1450	183 1568 452 1588 94
	Divisions, Cities, Towns and Villages		DIVISIONS  Division No. 2  Division No. 3  Division No. 3  Division No. 4  Division No. 6  Division No. 6  Division No. 10  Division No. 11  Division No. 12  Division No. 13  Division No. 14  Division No. 15  Division No. 15  Division No. 15  Division No. 17  CITIES:  Calgary  Calg	Wetaskiwin  TOWNS: Blairmore Camrose Cardston Claresholm Coleman

TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS IN ALBERTA, 1938

190 231 37 52 153 179 130 150 15 24 8 5	551.55	122 433 423 423 423 135 14 15 15 15 15 15 15 15 15 15 15 15 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	20 22 23 33 33 20 20 20 20 20 20 20 20 20 20 20 20 20	266 245 41 31 225 214 225 214	23 18 18 19 5 12 12 12	81 81 80	77 69 77 69
195 202 37 34 158 168 135 141 16 19 7 8	88 88 88 6 6	113 128 34 3179 111 9 119 20 14 16 15 17 17 12 10 13	44 35 44 35 44 35 44 46 70 101 22 22 22 22 22 22 9	257 278 48 45 209 233 209 233	22 14 14 8 5 8 5 5	74 86 74 86	84 88 88
201 45 45 156 132 14 10	88888	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	39 103 103 103 103 103 103 103 103 103 103	291 241 241 261	11130	88	36 8
224 50 174 141 26 7	00 00 00 00 00 00	120 637 637 171 98 6 10 10	88 <b>488</b> 11	224 224 224	217	800	87
213 40 173 173 8 8	18 25 61 61	132 571 141 141 16 16 9	88 10 12 12 12 12 12 12 12 12 12 12 12 12 12	310 254 254	20 8 8 8 8 8	67	22
240 59 181 138 31 12		130 90 171 172 174 196 9	94 46 67 20 100 100 100	254 4 25	22111	11	825
211 22 33 166 33 166 193 143 143 143 143 143 143 143 143 143 14		112 333 334 334 334 334 334 334 334 334 33	88 325 118 289 118 118	23.2 27.2 23.3 24.2 25.2 25.2 25.2 25.2 25.2 25.2 25.2	25000	88	7 103
225 55 173 173 139 6 6 6	533	80088840888 80088840888	338 338	323	88.0128	8 84	107
181 145 128 118 11	38	118 69 138 138 157 157 157 158	288 288	246	85.00	99	76
218 51 167 167 138 24 24 5	\$444	11 12 12 12 12 12 12 12 12 12 12 12 12 1	29 28 18 18 18 18	298 49 249 249	18 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	55	32
2531 1993 1655 252 86	642 572 70 70	1450 512 938 161 183 163 163 97	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3363 559 2804 2804	300 206 94 94	933	985
BIVISION No. 6—CALGARY Rural Urban City of Calgary Drumheller Town of Olds Village of Newcastle	DIVISION No. 7—BATTLE RIVER Rural Urban Town of Wainwright	BIVISION NO. 8—RED DEER Rural Urban City of Red Deer Wetaskiwin Town of Camrose Innisfail Lacombe Ponoka Stettler	DIVISION No. 9—ROCKY MOUNTAIN HOUSE Rural DIVISION No. 10—VICTORIA Rural Urban Town of Vegreville Vermilion	DIVISION No. 11—EDMONTON Rural Urban City of Edmonton	DIVISION No. 12—EDSON Rural Urban Town of Edson	DIVISION No. 13—BEAVER RIVER Rural	DIVISION No. 14—STURGEON Rural

TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS, IN ALBERTA, 1938—Continued

								2000					
							MONTHS	CHI					-
	Total	Jennery	February	Матсһ	lindA	May	əunr	July	3suguA	September	October	November	Decemper
DIVISION No. 15—CLEARWATER Rural	436	88	37	44	38.88	37	88	55.55	288	88	48	222	នន
DIVISION No. 16—PEACE RIVER Rural Urban Town of Grande Prairie	735 539 196 196	59 16 16	61 15 15	68 52 16 16	96 9 9	59 19 19 19	2222	82 17 17	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	53 15 15 15	59 18 18	2000	9272
DIVISION No. 17—ATHABASCA Rural	323	28.28	99	222	22	26	18	26	ដដ	119	222	88	22.23

TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE FOR THE PROVINCE AND IN CITIES OF 5.000 POPULATION AND OVER, 1938

	Tot	al Bir	rths	Le	gitima	ate	Ille	gitima	Illegitimate		
Province and Cities	Total	Male	Female	Total	Male	Female	Total	Male	Female		
TOTAL FOR THE PROVINCE	15891	8125	7766	15208	7759	7449	683	366	317		
CITIES:											
Calgary	1655	827	828	1515	760	755	140	67	73		
Edmonton	2804	1396	1408	2514	1230	1284	290	166	124		
Lethbridge	622	337	285	609	330	279	13	7	6		
Medicine Hat	357	193	164	349	187	162	8	6	2		

TABLE 4.—PLURAL BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDREN BORN ALIVE AND STILLBORN BY SEX, IN ALBERTA, 1938

Classification of Births	Total
CASES OF TWINS Two males (both living) One male and one female (both living) Two females (both living) One male living and one male stillborn One male living and one female stillborn One female living and one female stillborn Two males (both stillborn) One male and one female (both stillborn)	207 59 59 78 2 4 3 1
CASES OF TRIPLETS Two males and one female (all living)	1
Total multiple confinements Number Male Female	208 190 227
Total single live births Number Male Female	15487 7940 7547
Total single stillbirths Number  Male Female	338 198 140

20			VIT	TAL STATISTICS E	BRANCH		
11	i.	p	Not Specifie	111111111111	111111	111	8
		S	United State	705 2 23 23 13 162 59 50 14	10201020102010	L-6110	207 20 20 111 8
	1	1	Other			TIII	TITTE
		Asia	ueder			III	
1938		A	China			111	~
			Other	9 11 4	001 1	111	200
BERTA			Sweden	8 11118	63 63	111	7 7 7 8
EBE			Russia	19 2 4 6 4 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	000 10-	THE	386
Y Y			Roumania	12 12 31 23	0101	111	107
Z			Poland	1 1000150	90-0	-111	163
LIS			Norway	1 100 1101	10011	THE	12 12
RED			Italy	9 11011		TII	2
PARENTS		obe	Hungary	4	THILL	TIT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OF		Europe		6H : H : H H K : :	400	111	8-11-18
			Holland	15-1- 04-000	9900	TII	02 1 28
ACI			Germany	12 2 4 2 1	F0000	111	8 11 9
IPL	her		France	N : : : H : : : H		TH	00 : 00 : : :
BIRTHPLACES	Mother		Finland	0 1 1 10 14 1	63 63	111	8 8 8
B	of Jo		Denmark	9	10 4 H	111	2 2 2
10	-00		Belgium	1 111 11	0101	1 1 1	2 8 2 332
	olac		Austria		1 1 1 1 1		200 : : : : : : : : : : : : : : : : : :
g	Birthplace	Posses-	Other	9	21-1-12		711111711
00	B	British	Newf'ndland	21111211111	27   -   -		
ACCORDING		British Isles	Otper		1000	111	
- 23			Wales	30 2 2 3 3 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13322	111	70   60
E		h I	Scotland	333 333 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	135 122 16 16 16		17
CLASSIFIED		ritis	Ireland	33 116 16 16 16 16 16 16 16 16 16 16 16 16	2448		
CF		щ	England	268 3 10 10 11 11 11 11 11 11 11	308 27 27 14 14	F= 63 44	2000 0000
(S)			Specified	3 3 1 2	600	111	
E			Columbia Prov. not	132 132 14 10 10 14 14 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	82224		2000 000
OF STILLBIRTH			British	3188188318	617 365 365 39 2	13.51	221288121881
11			Alberta	4547 13 13 13 13 13 13 13 13 13 13 13 13 13		01 101	
S		æ	Saskatch-	283 555 4 3 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	80 48 10 10 16 16		7 7
		Canada	Manitoba	283	E2224	111	
VE		చ	Ontario	332 332 338 338 338 338 6 97	283333	111	20112112
USI			Brunswick	1186	962241		4
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TABLE 5.			Birthplace of Father	CANADA Prince Edward Island Nova Scotia Nova Scotia Nova Brunswick Quebec Ontario Manitoba Saskatchewan Alberta Alberta British Columbia Province not specified	BRITISH ISLES England Ireland Scotland Wales Other	BRITISH POSSESSIONS Newfoundland Other	EUROPE Austria Belgium Denmark Finland France Germany Holland Hungary

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hers	ren b	thers
Child	Child	Child

TABLE 8.—TOTAL BIRTHS (EXCLUSIVE OF STILLBIRTHS) AND BIRTHS IN INSTITUTIONS, SHOWING THE NUMBER OF MOTHERS NON-RESIDENT IN ALBERTA, 1938

	All	All Births	In In	In Institutions
	Total	Non-resident in Province	Total	Non-resident in Province
Total for Province	15,891	167	10,696	153

5,000 OF TABLE 9.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) TO RESIDENT AND NON-RESIDENT MOTHERS AND BIRTHS IN INSTITUTIONS, IN CITIES POPULATION AND OVER, IN ALBERTA, 1938

			1010101	of charten and over, in alberta, 1900	O VEREN LIV	ALDENIA,	7000					
		All 1	All Births			Births in	Births in Institutions		Births 6	dsewhere t	Births elsewhere than in Institutions	titutions
Cities	Total	To	To mothers non- resident in city or town where birth occurred and	in city where irred and	Total	To	To mothers non- resident in city or town where birth occurred and	in city where	Total	To	To mothers non- resident in city or town where birth occurred and	in city where
		mothers	Resident in Province	Non-resi- dent in Province		mothers	Resident in Province	Non-resi- dent in Province		mothers	Resident in Province	Non-resi- dent in Province
Calgary Edmonton Lethbridge Medicine Hat	1655 2804 622 357	1198 1604 218 123	439 1175 401 213	25 3 21 21	1612 2747 615 324	1162 1558 214 110	432 1165 398 195	18 24 19	33.774	36 46 13	10 3 18	1   1

TABLE 10.—ORDER OF BIRTH OF LEGITIMATE CHILDREN BORN IN 1938 (INCLUDING STILL-BORN CHILDREN).

1		Age not betete	4
		45 years	E 11288888888888888888888888888888888888
		40-44 years	670 1670 1670 1670 1670 1670 1670 1670 1
		32-39 years	1818 89 155 155 220 220 220 220 201 188 1180 1103 1117 1117 1117 1117 1117 1117 111
	Y	30-34 Aests	3012 3640 5529 5529 5540 563 387 109 67 17 7
		25-29 years	4466 11111 1215 879 603 358 3177 777 777 777 777 777 777 777 777 77
	Tother	20-24 years	4486 2137 1442 252 252 49 16 6
	Age of Mother	12-19 years	800 1165 18 18
	Ag	19 years	3486 3178 3178 3178
		18 years	22 28 29 29 29 29 29 29 29 29 29 29 29 29 29
HER		17 years	133
AGE OF MOTHER	1	16 years	888
E OF		12 years	מו מו
BY AG		Under 15 yrs.	
F		Total	15547 4518 3537 2286 1607 1090 715 227 227 134 89 65 20 9 11 11 14 89 65 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
		Order of Birth of Children	Total  1st child 2nd 3rd 4th 5th 5th 1th 1th 11th 12th 13th 13th 13th 13th 13th 13th 13th 13

TABLE 11.—DEATHS OF CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE BY SEX AND CALENDAR MONTH OF DEATH, IN ALBERTA, 1938

Total under MONTH	1	Total Male M. F. M. F. M. F. M. F. M. F. M.	Strain   Struction   S
	CAUSES OF DEATH		ALL CAUSES 7 Measles 8 Scarlet fever 9 Whooping-cough 10 Diphtheria 11 Influenza 12 Dysentery 15 Erysipelas 16 Poliomyselitis and polioencephalitis (acute) 17 Measles 18 Epidemic cerebrospinal meningtis 18 Epidemic cerebrospinal meningtis 23 Tuberculosis of the respiratory system 24 Syphilis 25-32 Tuberculosis of the meninges and central nervous system 25-32 Tuberculosis, other forms 25-32 Tuberculosis of the meninges and central nervous system 25-35 Tuberculosis of the meninges and central nervous system 26 Tuberculosis of the thymus gland 27 Simple meningtis 28 Convulsions 29 Diseases of the thymus gland 20 Bronchotts 20 Bronchotts 20 Diseases of the buccal cavity and annexa and of the pharynx and tonsils (including adenoid vegetations). 28 Diseases of the stomach 29 Diseases of the buccal cavity and annexa and of the pharynx and tonsils (including adenoid vegetations). 30 Diseases of the stomach 315 Diseases of the stomach 316-118 Diseases of the stomach 317 Malformations 318 Osphritis 319 Nephritis 310 Congenital malformations of the heart 310 Congenital debility 315 Premature birth

m m       m				7111 THE OTT, 1500
2		es of still-born ldren to 1,000 live births	Rate per 1000 live births	2324411 2324411 24444411 251444411 251444111 251441111111111
01 1 10		Rates of children live h	Number of stillbirths	222 8 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
10 00		hout a	Not	11110-01400000-0001-1101208
10 0 00 1	1938	Births with or without physician in attendance	Without	88 172 173 174 175 176 177 178 178 178 178 178 178 178 178 178
10 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CITIES,	Births w	With	63 204 204 204 2283 1121 495 618 648 340 860 313 166 528 507 206 493 117 217 117 117 117 117 117 118 119 119 12949
84 84 HHH 84 4     8	DIVISIONS AND	n under each	Total	143 830 830 140 140 624 642 1106 1106 1106 1106 1106 1106 1106 110
2 211 1 2 3	BY DIVIS	of children of age to 000 births	Number of deaths	014 144 165 165 165 165 165 165 165 165 165 165
2 2 2 1 1 2 2 2 2 4 4 2 2 2 2 4 4 4 4 4	ETC.,	Death rate of one year of 1,000	Rate per 1000 births	282888888888888888888888888888888888888
39 27 12 47 24 23 14 6 8 11 1 1 1 1 24 24 15 9 4 24 15 9 4	DEATH RATES,			excepted)
160 Injury at birth 161 Other diseases peculiar to early infancy (under 3 months) (a-e) Specified diseases (f) No cause given, no doctor in attendance 173-175 Homicide 176-198 Other external causes Other specified causes 199-200 Unspecified or ill-defined causes	TABLE 12—INFANTILE		Divisions and Cities	Division No. 1—Medicine Hat (City of Medicine Hat excepted).  Division No. 3—Baacleod (City of Lethbridge excepted).  Division No. 4—Nanton Division No. 5—Acadia Division No. 6—Calgary (Cities of Red Deer and Wetaskiwin excepted) Division No. 9—Rocky Mountain Division No. 10—Victoria Division No. 11—Edmonton (City of Edmonton excepted) Division No. 12—Edmonton (City of Edmonton excepted) Division No. 13—Beaver River Division No. 15—Clarwater Division No. 16—Peace River Division No. 16—Peace River Division No. 16—Peace River Division No. 17—Athabasca City of Lethbridge City of Lethbridge City of Lethbridge City of Medicine Hat City of Metaskiwin City of Drumheller Divisions City of Drumheller Divisions Cities Whole Province

M.F.

II months and under 12 mos.

SEX BY LIFE, CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF ALBERTA, 1938 STILLBIRTHS) FROM AND AGE AT DEATH, IN OF (EXCLUSIVE CHILDREN OF -DEATHS 13. TABLE

01 10 months and under 11 mos. (Ex 04 6 M 6 60 9 months and under 10 mos. 16 90 M 13 8 months and under 9 mos. 13 M 14 03 .som 8 rebnu 17 23 == 7 months and M 15 6 months and under 7 mos. 14 63 M NO. 64 5 months and M 13 DEATH 18 22 25 4 months and under 5 mos. M. 3 months and under 4 mos. M es. 49 49 - 00 -AT 24 37 01 44.60 2 months and under 3 mos. AGE M. 00 000 24 18 13 49 25 03 01 10.01 I month and under 2 mos. M 64 3 weeks and M 119 under 3 weeks 16 M. 23 under 2 weeks 19 M 67 Fig. under I week 91 M 26 14 Under 1 day 84 M 451 361 Total under Female 2221 Male 812 1000 2423 Total the system (including adenoid vegetations) nervous Measles
Scarlet fever
Whooping-cough
Diphtheria
Influenza
Dysentery
Erysipelas
Dysentery
Epidemic cerebrospinal meningitis
Tuberculosis of the meninges and central net
Tuberculosis, other forms
Syphilis
Furberculosis, other forms
Syphilis
Couvulent infection, septicaemia
Diseases of the thymus gland
Convulsions
Diseases of the ear and mastoid process CAUSES OF DEATH Pharynx and tonsils (includiscasses of the stomach Diarrhoea and enteritis Hernia, intestinal obstruction Nephritis the buccal and tonsils (i Croup Bronchitis Bronchopneumonia Pneumonia Diseases of CAUSES 25-32 25-32 34 25-32 34 36 105a 106 107 107 107 107 107 ALL 108

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Total 79 40 39 25 16 9 44 19 25 16 9 30 31 17 14 12 220 108 112 39 27 12 61 30 31	113 1 1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Total 79 40 39 25 16 9 44 19 25 16 9 30 31 17 14 12 220 108 112 39 27 12 61 30 31	113 1 1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Total 79 40 39 25 16 9 44 19 25 16 9 30 31 17 14 12 220 108 112 39 27 12 61 30 31	113 1 1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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Total 79 40 39 25 16 9 44 19 25 16 9 30 31 17 14 12 220 108 112 39 27 12 61 30 31	113 1 1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Total 79 40 39 25 16 9 44 19 25 16 9 30 31 17 14 12 220 108 112 39 27 12 61 30 31	14 6 27 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Total 79 40 39 220 108 112 39 27 122 39 27 124 30 31 27 124 39 27 125 39 27 125 39 27 125 39 27 125 39 27 125 39 39 27 125 39 39 27 125 39 39 39 39 39 39 39 39 39 39 39 39 39	113 1 1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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Total 79 40 39 25 16 9 44 19 25 16 9 30 31 17 14 12 220 108 112 39 27 12 61 30 31	113 1 1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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hydrocephalus   Total   79 40 39	113 1 1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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hydrocephalus   Total   79 40 39	14 6 27 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
hydrocephalus   Total   79 40 39	14 6 27 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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hydrocephalus	14 6 27 7 3 3 3 3 4 4 8 8 9 4 4 8 8 9 4 4 8 8 9 4 4 9 8 9 4 4 9 9 4 9 9 9 9
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Malformations   Total   79   40   39	24 11 12 13 14 8 8 15 15 15 15 15 15 15 15 15 15 15 15 15

TABLE 14.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS OF CHILDREN UNDER ONE YEAR OF AGE, CLASSIFIED ACCORDING TO RESIDENCE OF DECEDENTS, IN CITIES OF 5,000 POPULATION AND OVER, IN ALBERTA, 1938

All Deaths under one year   Non-resident in city   Non-resident in city   Non-resident in city   Non-resident			VITAL	STATIS	STICS BRAI	NCH
All Deaths under one year   Non-resident   Non-re	1	+		Lemale		
All Deaths under one year	u	len y satt		Male		
All Deaths under one year		n-resic in cit; nere de occurre and		Total		D
All Deaths under one year	har		FLOVINCE	-	- 00	E
All Deaths under one year	e t	Wh	Resident in		.00	SHOWING
All Deaths under one year   Non-resident	tion				1 1 1	SH
Non-resident in city	ewh		Residents		91011	OF AGE,
Non-resident in city	else				128	AG
All Deaths under one year   Non-resident   Non-re	ls l			Female	102	F
Non-resident in city   Non-resident in city   Non-resident   Non	eatl			Male	9101	
All Deaths under one year   Non-resident	Ã		IstoT		15.8	ONE YEAR
All Deaths under one year   Non-resident	-			remale		H
All Deaths under one year	1	ith I				O
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All Deaths under one year	ons	re cur			12421	CHILDREN UNDER
All Deaths under one year	uti	ob h		Male		5
All Deaths under one year   Non-resident   Non-re	stit	Z 3	al tashing	Total		Z
All Deaths under one year   Non-resident   Non-re	H			-		RE
All Deaths under one year   Non-resident   Non-re	Ë		Residents	-	H 64	3
All Deaths under one year   Non-resident   Non-re	hs			Total	2000	H
All Deaths under one year Male Male Total Male Male Male Male Male Male Male Ma	eat			Female	100000000000000000000000000000000000000	0
All Deaths under one year  Cities  Cities  Total  Male Female Total  Male Female  Total  Male Female  Total  Male Female  Total  Male Female  Total  Male Female  Total  Male Female  Total  Male Female  Total  Male Female  Total  Male Female  Total  11 52515338  Total  Male Female  Total  Male Female  Total  Male Female  Total  Male Female  Total  Total  Total  Male Female  Total  Total  Male Female  Total  Male Female  Total  Total  Male Female  Total  Total  Male Female  Total  Total  Total  Total  Male Female  Total  Total  Total  Male Female  Total  Total  Male Female  Male Female  Male Female  Total  Male Female  Male	D		Total	Male	1184	OF
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male		THE RESERVE OF THE PERSON OF T		TetoT	41 40 14 14	NS,
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male	-			remaie		10
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male		ith	in Province			5
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male	ear	ity dead	Non-resident			E
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male	nder one ye	re re an			12725	SN
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male		he he		Male		H
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male		Z ×	ai tashisa	AND REAL PROPERTY.	6 6 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	4
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male					2 318	HS
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male	s u		Residents			AT
Cities  Fig. 1 Total Male  Male  Into T All Male  Into T All Male  Into T All Male  Into T All Male	ath					DE
Cities Total	De			Female		
Cities Total	7		Total	Male	2021	AND
Calgary Edmonton Lethbridge Medicine Hat	7			Total	41 413	1.53
Calga Edmo Nedic			Cities		_ I	TABLE 15TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS)
					Calga Edmo Lethb Medic	

TABLE 15.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, OF CHILDREN UNDER ONE YEAR OF AGE, SHOWING THE NUMBER NON-RESIDENT IN ALBERTA, 1938

		All I	All Deaths under one year	der one	year				In Institutions	tutions		
		Total		Non-res	ident in	Non-resident in Province		Total		Non-resi	dent in	Non-resident in Province
	Total	Male	Female	Total	Male	Male Female Total Male Female Total Male	Total	Male	Female Total Male Female	Total	Male	Female
Total for the Province	812	451	361	10	61	63	420	229	191	10	61	60

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES) TRANSFERRED TO REGULAR RESIDENCE, 1938

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711111	THE RELIGITIES, 1886	
Ajolent Deaths (suicides		00
Puerperal State	111111111111111111111111111111111111111	63
Nephritis (acute and chronic)		=
Appendicitis		4
(over 2 years of age)		
Under 2 years of age)	111111111111111111111111111111111111111	63
Pneumonia (all forms)	7	4
Diseases of the Arterles	11-11-12-12-11-12-11-12-11-12-11-11-12-11-11	12
Heart Diseases (all forms	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15
Apoplexy, Cerebral Haemorrhage & Thrombos		60
Pernicious Anaemia		-
Diabetes		63
Cancer (all forms)		14
Tuberculosis (other forms	111171171111111111111	63
Pulmonary Tuberculosis		
Meningococcic Meningitis		1
Acute Poliomyelitis		1
Ezuənllu		00
Diphtheria		1
Whooping Cough		-
Scarlet Fever	11112	61
Measles		4
Typhoid and Paratyphold	111111111111111111111111111111111111111	-
Number of Stillbirths	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00
(per 1,000 births)	167 154 154 154 154 154 154 154 154 154 154	54.6
(under I year) Infant Mortality Rate	1 11 2 12	22
Population Number of Deaths	118118218218191919191	6.4
Death Rate per 1,000		_
Number of Deaths	250 250 250 250 250 250 250 250 250 250	4
Birth Rate per 1,000 Population		19.4
Number of Births	11396 115 115 115 115 115 115 115 115 115 11	403
Population, 1938	93 1166 1176 1176 1178 1007 1007 1019 11728 845 1740 636 1161 1161 1161 1161 1161 1161 1161	Fotal 20742 403 19.4 133
		2
Municipality No.		lal
		Total

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES) TRANSFERRED TO REGULAR RESIDENCE, 1938—Continued

DIVISION No. 2-MACLEOD

Violent Deaths (suicides and homicides excepted	98- 98-	28	20
Puerperal State		4	0
Mephritis (acute and	1110010011	17	90
Appendicitis	H 244   HH	1-	10
(over 2 years of age)		100	
Distribees and Enteritis (under 2 years of age)		4	0
Pneumonia (all forms)	6 000 0 001	20	90
Diseases of the Arteries	2 1 1 1 1 1 1 2 1 2	7	10
Heart Diseases (all form	100 11533	53	100
Apoplexy. Cerebral Haemorrhage & Thrombo	H H H H H H   10 }	6	.0
Pernicious Anaemia		1	c
Diabetes	111111111111111111111111111111111111111	ro.	1.0
Cancer (all forms)	1 3 3 3 5 1 1 1 2 5 1 1 1 2 5 1 1 1 1 1 1 1 1 1	22	i
Tuberculosis (other form		1	
Pulmonary Tuberculosis	7111111117713	65	
Meningococcic Meningiti		1	-
Acute Poliomyelitis		1	-
rzuənijui	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6	
Diphtheria			
Whooping Cough			
Scarlet Fever			
Measles			
Typhoid and Paratyphoi		-	
Number of Stillbirths	2	13	
Infant Mortality Rate (per 1,000 births)	100 112 114 118 16 18 18 103 103	39.0	
Number of Deaths		34	
Death Rate per 1,000 Population	900000000000000000000000000000000000000	6.3	
Number of Deaths	28212828282818318	270	
Population	3252774228	20.2	-
Birth Rate per 1,000	2452352355235520	872 2	1
Number of Births			-
Population, 1938	342 1444 3373 3373 1672 4904 622 5903 5030 3582 5030 1630 1630 174	43068	
Municipality No.		Total	

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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES) TRANSFERRED TO REGULAR RESIDENCE, 1938—Continued

-	Violent Deaths (suicides and homicides excepted)	-	41
	Puerperal State	11-11-11-11-11-11-11-11-11-11-11-11-11-	14
	Nephritis (acute and chronic)	n	
	Appendicitis	9	28
	Diarrhoea and Enteritis (over 2 years of age)		
	Diarrhoea and Enteritis (under 2 years of age)		
	Pneumonia (all forms)	0	
	Diseases of the Arteries	1 1 1 1 1 1 4 N	
	Heart Diseases (all forms)	014 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Apoplexy, Cerebral Haemorrhage & Thrombosis	2	
	Pernicious Anaemia	-	10
	Dispetes		
	Cancer (all forms)	1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1	55
	Tuberculosis (other forms)		1
	Pulmonary Tuberculosis	2	
DIA	Meningococcic Meningitis		ro
5-ACADIA	Acute Poliomyelitis		
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No.	Diphtheria		
DIVISION	Whooping Cough		
DIVI	Scarlet Fever		
	Measles		
	Typhoid and Paratyphoid		
	Number of Stillbirths	0 00 0	
	Infant Mortality Rate (per 1,000 births)	1000 56 56 25 25 30	
	(nuder 1 year)	20 11 0 1 0	1
	Death Rate per 1,000 Population	0400F	
	Number of Deaths	11.021.742.89 51.172.8	tion
	Birth Rate per 1,000 Population	111 11 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	opula
	Number of Births	23 23 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	000 P
	Population, 1938	1815 839 3296 498 678 678 567 1131 2444 544 560 1913 1555 1502	r 100,
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TABLE 16.-POPULATION. BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING

	(patdaoxa sapicitor)		8
	Puerperal State Violent Deaths (suicides	THE	63
	chronic)	000 -	13
	Appendicitis Nephritis (acute and	0 0	00
	(over 2 years of age)		
	(under 2 years of age) Diarrhoea and Enteritis	THE ITEM	-
	Preumonia (all forms)	HH . 22	12
		62 63	24
	Diseases of the Arteries	00H40	32
	Heart Diseases (all forms)		10
-	Apoplexy, Cerebral Haemorrhage & Thrombosis		
1938—Continued ued	Pernicious Anaemia		10
Conti	Dispetes	20112	
18 P	Cancer (all forms)		34
C .	Tuberculosis (other forms)		2
Cont	Pulmonary Tuberculosis		4
RESIDENCE, 1938 RIVER—Continued	Meningococcic Meningitis	111111	
RIV	Acute Poliomyelitis	111111	-
TO REGULAR RESIDENCE, 0. 7—BATTLE RIVER—Contii	Influenza	0101	6
No. 7-BATTLE	Diphtheria	111111	
O B	Whooping Cough		63
100	Scarlet Fever		
FERRED VISION N	Measles		
00	Typhoid and Paratyphoid		
TRA	Number of Stillbirths		4
CITIES) TRAN	Infant Mortality Rate (per 1,000 births)	128 63 44 20	39.7
CITI	Number of Deaths (under I year)	121 6	25
	Death Rate per 1,000 Population	63 to 00 to 00 to	5.8
	Number of Deaths	18 14 19 19	223
	Population	18 17 17 18	16.4
	Birth Rate per 1,000	38 38 38 50	629 1
	Number of Births		
	Population, 1938	2025 2862 1810 1254 2652 2837	38265
323	Municipality No.	421 422 424 424 425 425	Total

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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES) TRANSFERRED TO REGULAR RESIDENCE, 1938—Continued

DIVISION No. 10-VICTORIA

Appendicitis Cente and Ceptritis (acute and Chronic) Puerperal State			
Nephritis (acute and	The second secon		
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aitioibaaaaA		12	19
Diarrhoea and Enteritis (over 2 years of age)	111111111111111111111111111111111111111	1	6
Diarrhoea and Enteritis (under 2 years of age)	111111111111111111111111111111111111111	14	66
Pneumonia (all forms)	H   00HH 0 000H47000	35	F. F.
Diseases of the Arteries		1 20	39
Heart Diseases (all forms)		61	96
Apoplexy, Cerebral Haemorrhage & Thrombosis	1 1 2 2 1 8 2 2 1	15	24
Pernicious Anaemia		-	
Diabetes		3	10
Cancer (all forms)	01-000-0 40-1	50	79
Tuberculosis (other forms)		4	· ·
Pulmonary Tuberculosis		8	13
Meningococcic Meningitis		***	
Acute Poliomyelitis		1	6
ezuənlini	11117771171111177	5	00
Diphtheria		1	6
Whooping Cough		-	
Scarlet Fever	111111111111111111111111111111111111111	9	0
Measles		1	6
Typhoid and Paratyphoid		-	
Number of Stillbirths	H     HW     WHENTHH   HH	16	
Infant Mortality Rate (per 1,000 births)	25 25 25 25 25 25 25 25 25 25 25 25 25 2	50.5	
Number of Deaths (under I year)	4       14	99	
Death Rate per 1,000 Population	1004140108111-1001-000040	5.8	
Number of Deaths	288833883118828888888888888888888888888	368	Hiom
Birth Rate per 1,000 Population	112222222222222222222222222222222222222	20.6	pomile
Number of Births	22 22 22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	1308	000
Population, 1938	11994 11586 11586 11586 22953 23953 2444 2444 2444 2444 2444 2444 2444 24	63376 1	ur 100
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Death Rate per 100,000 Population

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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES) TRANSFERRED TO REGULAR RESIDENCE, 1938—Continued

DIVISION No. 13-BEAVER RIVER

Violent Deaths (suicides and homicides	H   H	12	40
Puerperal State		63	-
Nephritis (acute and chronic)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9	20
Appendicitis (acute and		60	10
Distribes and Enteritis (over 2 years of age)			
Diarrhoea and Enteritis (under 2 years of age)		9	20
Pneumonia (all forms)	101 8 121 1 2	17	57
Diseases of the Arteries	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13	43
Heart Diseases (all forms)	- 1,8 - 1- 1,4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	14	47
Apoplexy, Cerebral Haemorrhage & Thrombosis		6.3	10
Pernicious Anaemia			
Disbetes		-	6.0
Cancer (all forms:)	200 0 14 11 11 11 11	22	73
Tuberculosis (other forms)		-	60
Pulmonary Tuberculosis	2 1 12 1 2	-	23
Meningococcic Meningitis		1	3
Acute Pollomyelitis			
ezuənliul		2	7
Diphtheria	111111111111111111111111111111111111111	4	13
Whooping Cough		63	7
Scarlet Fever			
Measles		1	00
Typhoid and Paratyphoid		1	
Number of Stillbirths	H40 HHH0	21	
Infant Mortality Rate (per 1,000 births)	112 110 110 110 110 110 110 110 110 110	57.4	
Number of Deaths (under I year)		46	
Death Rate per 1,000 Population	<u></u>	6.2	
Number of Deaths	engenting menee   100   100	186	tion
Birth Rate per 1,000 Population	222224-022822222222222222222222222222222	26.7	stingo
Number of Births	45 25 25 25 25 25 25 25 25 25 25 25 25 25	801	DO0 P
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Population, 1938	936 1237 2478 2466 31129 1189 1440 1240 1052 1052 1052 1052 1052 1052 1052 105	30056	Tour .
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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES) TRANSFERRED TO REGULAR RESIDENCE, 1938—Continued

DIVISION No. 15-CLEARWATER-Continued

Violent Deaths (suicides	111111111111111111111111111111111111111	20 0
Puerperal State	THIRITITION	
Nephritis (scute and		29
Appendicitis	THE THE PERSON OF THE PERSON O	7
(over 2 years of age)		
Diarrhoes and Enteritis (under 2 years of age)	111111111111111111111111111111111111111	13
Pneumonia (all forms)		79
Diseases of the Arteries		13
Heart Diseases (all forms)		125
Apoplexy, Cerebral Haemorrhage & Thrombosis		13
Pernicious Anaemia		7
Dispetes		7
Cancer (all forms)	11 1 1 1 2 1 1 1 1 1 1	46
Tuberculosis (other forms)		1
Pulmonary Tuberculosis	•	13
Meningococcic Meningitis		
Acute Poliomyelitis		
ezuənljul		20
Diphtheria		7
Whooping Cough		
Scarlet Fever		1
Measles	1,(111111111111111111111111111111111111	
Typhoid and Paratyphoid		
Number of Stillbirths		
Infant Mortality Rate (per 1,000 births)	22   22   32     24	2.10
(under I year)	1 0 1 1 1 00 1 100 1 100 1	2.1
Death Rate per 1,000 Population	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.0
Number of Deaths	1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3	tion
Birth Rate per 1,000 Population	24 153 25 15 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Death Rate per 100,000 Population
Number of Births	221-21 4 2212 4 100 96 1	000 P
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Population, 1938		per
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ER	H-111111111111111111111111111111111111	10
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		100,00
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	739 740 741 742 769 770 771 772 777 777 778 828 829 829 829 829 829 829 829 829 82	Total 30072 756 25.1 172  Death Rate per 100,000 Population
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	739 740 740 740 770 771 771 772 772 772 772 773 882 882 883 883 885 885 886 886 887 887 888 888 888 888 888 889 889 889	

Remainder of Province, comprising northern parts (including Indians):

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Total	9034	333	6.98	105 10	0.5	9034 333 36.9 105 10.5 22 66.1 10	10	-	7	-	*****	12		1	29	1	4	1	00	-	1	=	4		-	 4	100
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TABLE 16-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY CITIES, 1938-TRANSFERRED TO REGULAR RESIDENCE

CITIES

Violent Deaths (suicides and homicides excepted)	24		42	49			1 2		1	1 8
Puerperal State	9	1-	10	9		0	15		-	4
Nephritis (acute and	30	34	32	40		49	44		101	000
Appendicitis	17	19	11	13		NO.	36			
Distriboes and Enteritis (over 2 years of age)	63	- 23		, 1		-	7			-
Diarrhoea and Enteritis (under 2 years of age)	4	10	63	6.1					-	-0.
Pneumonia (all forms)	500	13	31	36		10	73		60	10
Diseases of the Arterles	57	64	80	93		10	36		9	00
Heart Diseases (all forms	130	146	158	184		19	138		13	100
Apoplexy, Cerebral Haemorrhage & Thrombosi	26	29	21	24		1	1		- 63	10
Pernicious Anaemia	10	11	- 9	7		H	1-			
Diabetes	14	16	18	21		6.1	15		-	101
Cancer (all forms)	102	115	108	126		10	73		171	11
Tuberculosis (other forms	00	-6	9	7	-	-	-	13	414	
Pulmonary Tuberculosis	18	20	25	29		63	22			101
Meningococcic Meningitis	-					-				1000
Acute Poliomyelitis	- 61	63		1			1		770	-
Influenza	19	21	10	12		10	36		- 60	-10
Diphtheria	4	10		1000		-				
Whooping Cough	1	н		T		1	7			
Scarlet Fever	63	63	- 63	63		1000	1000			
Measles	T. T.		- 63	6.1						78
Typhoid and Paratypholo	1	1				-	-			
Number of Stillbirths	31		31			60	Contract II		-	
Infant Mortality Rate (per 1,000 births)	39.4		32.1	-		18.9			32.0	
Number of Deaths (under I year)	64		39			18 7	-		4	
Death Rate per 1.000 Population	8.0		8.2	100		8.1	-		9.3	
Number of Deaths	711	tion	702	tion		112	ion	1	06	ion
Population	18.3	pula	14.2	pula		16.6	pulat		12.9	oulat
Birth Rate per 1,000	-	00 Po		00 Po		228 1	0 Po		125 12	O Pol
Number of Births	88887 1625	100,00	6 1215	00000			00'00			00.00
Population, 1938	8888	per	85726	per		13773	per 1		9711	per 1
Cities	Edmonton	Death Rate per 100,000 Population	Calgary	Death Rate per 100,000 Population		Lethbridge	Death Rate per 100,000 Population		Medicine Hat	Death Rate per 100,000 Population

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	CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	1 Typhoid fever 2 Paratyphoid fever 6 Smallpox 7 Measles 8 Scarlet fever 9 Whooping-cough 10 Diphtheria 11 Influenza (a) Sole cause (b) With bronchitis (c) With pneumonia (d) With other diseases of the respiratory system (e) With intestinal complications (f) With other causes
		Total Male Female	Total Male Female	Male Male Male Male Female Male Female Male Male Female Male Male Female Male Male Female Male Male Female Male
	Total	5871 3481 2390	654 376 278	8821-1111111111111111111111111111111111
	Under 1 year	812 451 361	244	
	I year	97 48 48	31 15 16	1
	2 years	2838	100	
	3 years	19 82	140	
	5-9 years	38 142 25 83 13 59	12 6 35 6 20 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	10-14 years	116	253	21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	12-19 years	155	322	H H
	20-24 years	54	428	8
	25-29 years	1001	17.71	
	30-34 Years	90 8	1238	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
A.	40-44 years	92 10 74 8	111 1	
AGES	45-49 years	184 253 101 152 83 101	26 19 17	H
	20-24 years	3 397 2 255 1 142	25 48 16 36 9 12	HH 104 01 0 H
	22-29 Aests	466 301 165	85 45 e	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	60-64 years	458 297 161	16	
	65-69 years	472 4 307 2 165 2	8 122	
	70-74 years	493 44 291 2 202 11	117	
	75-79 years	487 34 289 21 198 13	8 8	1 1 9 1 7 4 1 4 1
	80-84 years	344 17 210 9 134 7	13	
	85-89 years	70 94 2 76 3	000	
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Male         4         1           Female         3         2         1           Female         2         1         1           Female         5         1         1           Female         5         1         1           Female         2         1         1           Female         2         1         6           Female         158         11         6           Female         122         5         3           Male         122         5         3           Male         122         5         3           Female         122         5         3           Female         122         5         3	Male 17 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Female 2 Male 1 Male 2 Male 2 Male 2 Female 2 Male	Female 2 1 Male 3 Male 5 Male	Male         2         1           Female         3         8           Female         1         1           Female         1         1           Female         2         1           Female         4         4           Male         3         4           Female         3         4           Female         4         4           Female         3         6           Female         4         6
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Male   Female   3   2   1	Male 17 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of the bones   Female   2   Male   1    of the joints   Male   2   Male   2    the skin and sub-cutaneous   Female   2	Female 2 1 Nale 3 Male 5 Nemale 5 Nemal	Male 2 1
Male   Female   3   2   1	Male 17 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of the bones   Female   2   Male   1    of the joints   Male   2   Male   2    the skin and sub-cutaneous   Female   2	Female 2 1 Nale 3 Male 5 Nemale 5 Nemal	Male 2 1
Male   Female   3   2   1	Male 17 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of the bones   Female   2   Male   1    of the joints   Male   2   Male   2    the skin and sub-cutaneous   Female   2	Female 2 1 Nale 3 Male 5 Nemale 5 Nemal	Male         2         1           Female         3         8           Female         1         1           Female         1         1           Female         2         1           Female         4         4           Male         3         4           Female         3         4           Female         4         4           Female         3         6           Female         4         6
Dysentery         Male         4         1           Erystpelas         3         2         1           Erystpelas         7         1         2         1           Poliomyelitis and polioencephalitis         Female         5         1           Lethargic or epidemic encephalitis         Female         5         1           Epidemic cerebrospinal meningitis         Female         5         1           Tetanus         Female         2         1           Tuberculosis         Tuberculosis of the respiratory system         Total         114         6           Tuberculosis of the respiratory system         Female         152         5         3	Tuberculosis of the meninges and central nervous Male 17 2 3 Female 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(a) Tuberculosis of the bones Male 1	Tuberculosis of the lymphatic system (bronchial, mesenteric and retroperitoneal glands excepted)  Tuberculosis of the genito-urinary system  Female  Female  Z  I  Female  Female  Female  Female	Tuberculosis of other organs  (a) Disseminated tuberculosis (acute)  (b) Disseminated tuberculosis (Chronic)  (c) Disseminated tuberculosis (not specified)  (d) Male  (e) Disseminated tuberculosis (not specified)  (e) Disseminated tuberculosis (not specified)  (f) Male  (g) Syphilis  (g) Chronic  (h) Male  (h) Character
Dysentery         Male         4         1           Erystpelas         3         2         1           Erystpelas         3         2         1           Poliomyelitis and polioencephalitis (acute)         Female         5         1           Lethargic or epidemic encephalitis         Female         5         1           Epidemic cerebrospinal meningitis         Female         5         1           Tetanus         Female         2         1           Tuberculosis         Tuberculosis of the respiratory system         Total         6           Tuberculosis of the respiratory system         Female         118         8         2           Female         114         8         2         3	Male 17 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of the bones   Female   2   Male   1    of the joints   Male   2   Male   2    the skin and sub-cutaneous   Female   2	Tuberculosis of the lymphatic system (bronchial, mesenteric and retroperitoneal glands excepted)  Tuberculosis of the genito-urinary system  Female  Male  Female  Female  Female  Female  Female	Male         2         1           Female         3         8           Female         1         1           Female         1         1           Female         2         1           Female         4         4           Male         3         4           Female         3         4           Female         4         4           Female         3         6           Female         4         6

TABLE 17.—CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938—Continued

		VITAL STATISTICS BRANCH
1	Not stated	
1	100 years	
	92-99 years	
	90-94 years	
	82-89 years	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	80-84 years	821 211   84   14   10
	12-19 years	328 82000 4400040 H4 H
	70-74 years	2 44 28 20 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0 1 0
	65-69 years	23 33 33 33 34 4 7 7 7 7 7 7 7 7 7 7 7 7
	60-64 years	1 1 1 1 1 1 1 844 640 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	22-29 years	951 45 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	20-24 years	246 486 3191 1 1 1 1 1 40
AGES	42-49 years	\$45 45 44 000 0 000000000000000000000000
AG	40-44 years	77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	32-39 years	1 1 1 1 1 1 1 1 2 2 2 2 E
	30-34 years	
	25-29 years	1 1 1 1 2 4 98 1 1 2 1 1 1 1 1 1 1
	20-24 years	11111111111111111111111111111111111111
	12-19 years	
	10-14 years	
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	CAUSES OF DEATH	aria  Chickenpox  German measles  Other infectious or parasitic of the buccal cavity and of the stomach and duodenur of the pancreas  Of the pancreas  Of the peritoneum  Of the peritoneum  Of the larynx  Of the larynx  Of the lung
		NCE and the
		Malaria  Mycoses  (a) Chickenpox (b) German measles (c) Other infectious or parasitic diseases (d) Of the buccal cavity and pharynx (e) Of the rectum (d) Of the pancreas (e) Of the pancreas (f) Of the peritoneum (g) Of other organs (h) Of the lung (h) Of the lung
		Major
		44 (a) Chickenpox (b) German measles (c) Other infectious or parasitic dises (d) Of the oesophagus (e) Of the rectum (f) Of the pancreas (g) Of other organs (g) Of other organs (h) Of the larynx (g) Of the larynx (h) Of the larynx
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938—Continued

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AGES	40-44 years	-	9	1	11		T	TI	11	-	10 -4	H	-		-	П	III
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	30-34 Acuts	-	1	1	11		1	T	T	11	460				63	П	П
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	CAUSES OF DEATH	(a) Of the ovary	(b) Of the uterus	(c) Of other female genital organs	(d) Of the brain	(e) Of the thyroid gland	(f) Of the prostate gland	(g) Of other or unspecified sites	(d) Tumours of the brain, nature not specified	(g) Tumours of other or unspecified sites, nature not specified	III.—RHEUMATIC DISEASES, DISEASES NUTRITION AND OF THE ENDOCR GLANDS AND OTHER GENERAL DISEASE	Acute rheumatic fever	Chronic rheumatism, osteo-arthritis	Gout	Diabetes mellitus	Scurvy	Rickets
									55		CLASS	26	57	28	59	09	83

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Diseases of the pituitary gland  Diseases of the thyroid and parathyroid  a) Simple goitre  (a) Tetany  C) Myxoedema, cretinism  (b) Exophthalmic goitre  (c) Myxoedema, cretinism  (d) Tetany  Diseases of the adrenals (Addison's disease)  Other general diseases  Other general diseases  (b) Steatosis  (c) Others under this title  (d) Tetany  (e) Others under this title  (e) Others under this title  (f) Others under this title  (g) Chers under this title  (h) Haemophilia  (a) Simple purpura  (b) Haemophilia  (c) Others under this title  (d) Haemophilia  (e) Others under this title  (d) Haemophilia  (e) Others under this title  (b) Haewophilia  (c) Others under this title  (d) Leukaemia  (d) Aleukaemia  (d) Aleukaemia  (d) Aleukaemia  (d) Aleukaemia  (d) Aleukaemia  (e) Other diseases of the blood and blood-forming	
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Diseases of the pituitary glands  a) Simple goitre  (b) Exophthalmic goitre  (c) Myxoedema, cretinism  (d) Tetany  (e) Others under this tituliseases of the thymus glineases of the adrenals  (d) Fatty or amyloid dege  (b) Steatosis  (c) Others under this title  (d) Tetany  (e) Others under this title  (b) Haemophilia  (c) Others under this title  (d) Haemophilia  (d) Haemophilia  (h) Haemophilia  (h) Aleukaemia	organs
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938—Continued

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	2-9 years	111	111111	100001	1.0
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	OF	POISONINGS AND INTOXICA-	c in	GA	is motor ataxia (tabes dorsalis) of the spinal cord rrhage, cerebral embolism and rotal morrhage bolism and thrombosis the brain and other paralysis, cause not s of the insane
	SES	PO	holi ing.	0.8	of the of the sis
	CAUSES OF DEATH	V.—CHRONIC TIONS	(a) Delirium tremens (b) Other alcoholic intoxications Chronic poisoning, by other organis substances	VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	Encephalitis (non-epidemic)  Simple meningitis  Progressive locomotor ataxia (tabes dorsalis)  Other diseases of the spinal cord  Cerebral haemorrhage, cerebral embolism and thrombosis  (a) Cerebral embolism and thrombosis  (b) Cerebral embolism and thrombosis  (c) Softening of the brain  (d) Hemiplegia and other paralysis, cause not specified  General paralysis of the insane
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84 (a) Dementia protecox  85 Equipper  86 Convulsions (under 5 years of age)  87 Other diseases of the nervous system.  88 Taylogue (b) Other pycychoses.  88 Taylogue (c) Peralysis agitums  89 Convulsions (under 5 years of age)  89 Convulsions (under 5 years of age)  89 Convulsions (under 5 years of age)  80 Convulsions (under 5 years of age)  80 Convulsions (under 5 years of age)  81 Taylogue (c) Peralysis agitums  82 Convulsions (under 5 years of age)  83 Convulsions (under 5 years of age)  84 Convulsions (under 5 years of age)  85 Convulsions (under 5 years of age)  86 Convulsions (under 5 years of age)  87 Chronic endocarditis, specified as acute  88 Diseases of the neatod process  89 Diseases of the regions of vision  89 Diseases of the mastod process  89 Diseases of the heart  80 Taylogue (c) Peralysis agitums  80 Acute endocarditis, specified as acute  80 Diseases of the heart  81 Diseases of the heart  82 Diseases of the heart  83 Diseases of the heart  84 Diseases of the heart  85 Diseases of the heart  86 Diseases of the heart  87 Diseases of the heart  88 Diseases of the heart  89 Diseases of the heart  80 D	ANNUAL REP	ORT, 1938	55
(a) Dementia priecox  Male  (b) Other psychoses  (c) Chorea  (d) Chorea  (d) Chorea  (e) Other system of age)  (f) Chorea  (g) Chorea  (g) Chorea  (g) Chorea  (h) Carayasia agitans  (g) Chorea  (g) Chorea  (g) Chorea  (h) Carayasia agitans  (h) Chorea  (g) Chorea  (h) Carayasia agitans  (h) Chorea  (h) Chor			
(a) Dementia practices    Name   18		THE PROPERTY OF THE	11 11
(a) Dementing process   Familie   16   16   17   17   17   17   17   17		8-8 1- 11- 11- 11- 11- 11- 11- 11- 11	1111
(a) Dementing projectors  (b) Male  (c) Male  (c) Male  (d) Male  (e) Male  (e) Male  (f) Male  (g) Male		2500 0010	11 11
(a) Dementia projectox    Maine   Simple   Simpl			6310
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(a) Dementia priecox    Name   Same			98 1
(a) Denentia protecox    Maile   18		22 23 20 20 20 20 20 20 20 20 20 20 20 20 20	
(a) Dementia projects  (b) Other psychoses    Male   Safe    1 2 1 1 2 1 1 2 2 2	22.22 28.2 2.22 28.4	100	
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(a) Dementia praecox    Male   S		H	
(a) Dementia praiecox    Maile		QUO 401 ::::::	8
(a) Dementia praceox    Maile		484 84 :::::::::	
(a) Dementia praecox    Remale   8		211 1	1 1 1
(a) Dementia praecox (b) Other psychoses (c) Parale (d) Selevations (under 5 years of age) (e) Other diseases of the nervous system (e) Otheralysis agitans (f) Selevations (under 5 years of age) (f) Remale (g) Chrorea (g) Chrorea (h) Neuralgia and neuritis (g) Selevations (under 5 years of age) (g) Remale (g) Chrorea (h) Neuralgia and neuritis (g) Selevations (under this title (g) Others under this title (g) Others (g	2  -	NAH - : : : : : : : : : : : : : : : : : :	
(a) Dementia praecox    Male		#	
(a) Dementia praecox  (b) Other psychoses  (c) Other psychoses  (d) Other psychoses  (e) Other diseases of the nervous system  (e) Paralysis agitans  (f) Sclerosis (other than of the spinal cord)  (e) Others under this title  (f) Sclerosis (other than of the spinal cord)  (g) Emale  (g) Sclerosis (other than of the spinal cord)  (g) Emale  (g) Sclerosis (other than of the spinal cord)  (g) Endocarditis, specified (under 45 years of than corditis, valvular diseases Sub-total male  (g) Endocarditis, pecified (df) years and over male  (g) Endocarditis pecified (df) years and over male  (g) Endocarditis pecified (df) years and over male  (g) Table male  (g) Table male  (g) Table male  (g) Table male  (g) Ta	111211111111111111111111111111111111111		
(a) Dementia praecox  (b) Other psychoses    Penale   16	111711171111711117111171		
(a) Dementia praecox  (b) Other psychoses  Epilepsy  Epilepsy  Convulsions (under 5 years of age)  Female  (a) Chorea  (b) Neuralgia and neuritis  Female  (c) Paralysis agitans  (d) Sclerosis (other than of the spinal cord)  Female  (e) Others under this title  (f) Sclerosis (other than of the spinal cord)  Female  (g) Chorea  (hale  (ha	<sup>9</sup>	51515 1515 1515	244
Epilepsy   Male   16   17   18   18   18   18   18   18   18	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	21-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
Epilepsy   Male   16   17   18   18   18   18   18   18   18			11 11
(a) Dementia praecox  (b) Other psychoses  Epilepsy  Epilepsy  Epilepsy  Convulsions (under 5 years of age)  Epilepsy  Convulsions (under 5 years of age)  National Servations (under 4 years and over)		and to the to the	
(a) Dementia praecox (b) Other psychoses  Epilepsy  Epilepsy  Convulsions (under 5 years of age)  Male  (b) Neuralgia and neuritis  (c) Paralysis agitans  (d) Sclerosis (other than of the spinal cord)  Convulsions  (e) Others under this title  (f) Male  (g) Choreas of the mastoid process  (g) Othis  (h) Diseases of the mastoid process  (g) Diseases of the heart  (g) Diseases of the heart  (h) Endocarditis, specified as acute  (h) Endocarditis, valvular diseases  (h) Endocarditis, unspecified (45 years and over)			
Convulsions (under 5 years of age)   Convulsions (under 5 years of age)   Female   15   1   1			
(a) Dementia praecox         (a) Dementia praecox         (b) Other psychoses         (c) Male         16         17         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		-   -	
(a) Dementia praecox (b) Other psychoses  Convulsions (under 5 years of age)  Convulsions (under 6 years of age)  Convulsions (under 7 years of age)  Convulsions (under 7 years of age)  Convulsions (under 6 years of age)  Convulsions (under 7 years of age)  Convolitions  Convulsions (under 6 years of age)  Convolitions  Co	THE HILLIAM HILLIAM IT		
(a) Dementia praecox (b) Other psychoses (c) Convulsions (under 5 years of age) (d) Sclerosis (under 5 years of age) (e) Paralysis agitans (f) Sclerosis (other than of the spinal cord) (g) Sclerosis (	1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	400	
(a) Dementia praecox  Epilepsy  Convulsions (under 5 years of age)  Female  Female  Female  Convulsions (under 5 years of age)  Female  Female  Female  Female  Female  Female  (b) Neuralgia and neuritis  (c) Paralysis agitans  (d) Sclerosis (other than of the spinal cord)  Female  Female  Female  Female  Female  (a) Others under this title  Female  Female  Female  Female  Female  Female  (b) Diseases of the mastoid process  (a) Otitis  SYSTEM  SYSTEM  Acute endocarditis, specified as acute  (a) Endocarditis, valvular diseases Sub-total  Female  Fem		255 255 255 256 256 256 256 256 256 256	49
(a) Other psychoses  (b) Other psychoses  Convulsions (under 5 years of age)  Convulsions (under 6 years)  Convulsions (under 7 years)  Convulsions (under 6 years)  Convulsions (under 7 years)  Convulsions (under 6 years)  Convulsions (under 7 years)  Convulsions (under 6 years)  Convulsions (under 6 years)  Convulsions (under 7 years)  Convulsions  Convul	e .e .e.	Gora rau	11 11
(a) Dementia praecox (b) Other psychoses  Epilepsy Convulsions (under 5 years of age)  Convulsions (under 5 years of age)  Convulsions (under 5 years of age)  (a) Chorea  (b) Neuralgia and neuritis (c) Paralysis agitans (d) Sclerosis (other than of the spinal cord)  (e) Others under this title (f) Diseases of the mastoid process (g) Otitis (h) Diseases of the mastoid process (h) Diseases of the heart  Diseases of the heart  NII.—DISEASES OF THE CIRCULATORY  SYSTEM  Acute endocarditis, specified as acute (a) Endocarditis, unspecified (under 45 years of age)  Chronic endocarditis, valvular diseases Sub-total (a) Endocarditis, unspecified as chronic and other valvular diseases (b) Endocarditis, unspecified (45 years and over)			0 0
(a) Dementia praecox  (b) Other psychoses  Epilepsy Convulsions (under 5 years of age)  Convulsions (under 5 years of age)  (c) Paralysis agitans (d) Sclerosis (other than of the spinal cord)  (e) Others under this title (f) Diseases of the mastoid process (g) Otitis (h) Diseases of the mastoid process (g) Otitis (h) Diseases of the heart  Diseases of the heart  Total  NII.—DISEASES OF THE CIRCULATORY  SYSTEM  Acute endocarditis, specified as acute (a) Endocarditis, unspecified (under 45 years of age)  Chronic endocarditis, valvular diseases Sub-total (a) Endocarditis, unspecified as chronic and other valvular diseases (b) Endocarditis, unspecified (45 years and over)	e e e e e e e e e e e e e e e e e e e	he male male male male male male male mal	nle mal
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938—Continued

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	CAUSES OF DEATH	(b) Gangrene of the lung (c) Other diseases of the respiratory system	LASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	(a) Diseases of the buccal cavity and annexa (b) Diseases of the tonsils	(c) Other diseases of the pharynx  Diseases of the aesophagus	(a) Ulcer of the stomach (b) Ulcer of the duodenum	Other diseases of the stomach	(a) Diarrhoea and enteritis (2 years and over)	(b) Ulceration of the intestines (2 years and over)	Appendicitis	(b) Intestinal obstruction	Other diseases of the intestines
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rrhosis of the liver, specified as rrhosis of the liver, not specification at the liver of the liver calculi diseases of the gall-bladder angles as of the pancreas itis, cause not specified	SEASES OF THE GENITO-URIN	nephritis (including unspecifies years of age) to nephritis tits, unspecified (10 years and over diseases of the kidneys and urete i of the urinary passages es of the bladder (tumours excep ricture of the urethra ther disease of the urethra, etc. es of the male genital organs (not venereal) seases of the ovary Fallopian trametrium, not specified as vener seases of the uterus, not spec
Cirrhosis of the liver, specified as Cirrhosis of the liver, not specifial alcoholic  Yellow atrophy of the liver  Other diseases of the liver lary calculi or diseases of the gall-bladder a passages seases of the pancreas ritonitis, cause not specified	DISEASES OF THE GENITO-URIN	ute nephritis (including unspecified, un 10 years of age)  ronic nephritis  phritis, unspecified (10 years and over)  her diseases of the kidneys and ureters  leuli of the urinary passages  seases of the bladder (tumours excepted).  Stricture of the urethra  Other disease of the urethra, etc.  seases of the prostate  seases of the male genital organs (not spectas yenereal)  Diseases of the ovary Fallopian tube parametrium, not specified as venereal.
(a) Cirrhosis of the liver, specified as alcoholic alcoholic (b) Cirrhosis of the liver, not specified as alcoholic (a) Yellow atrophy of the liver (b) Other diseases of the liver Biliary calculi Other diseases of the gall-bladder and biliary passages  Diseases of the pancreas  Peritonitis, cause not specified	X.—DISEASES OF THE GENITO-URIN SYSTEM	Acute nephritis (including unspecified, under 10 years of age)  Chronic nephritis  Nephritis, unspecified (10 years and over)  Other diseases of the kidneys and ureters  Calculi of the urinary passages  Diseases of the bladder (tumours excepted)  (a) Stricture of the urethra  (b) Other disease of the urethra, etc.  Diseases of the prostate  Diseases of the male genital organs (not specified as venereal  (a) Diseases of the overy Fallopian tube and parametrium, not specified as venereal  (b) Diseases of the uterus, not specified as
(b) Cirrhosis of the liver, specified as alcoholic alcoholic (c) Cirrhosis of the liver, not specified as alcoholic alcoholic (d) Cirrhosis of the liver (e) Other diseases of the liver (f) Other diseases of the gall-bladder and biliar passages (f) Diseases of the pancreas (f) Diseases (f	CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM	130 Acute nephritis (including unspecified 10 years of age) 131 Chronic nephritis. 132 Nephritis, unspecified (10 years and over 133 Other diseases of the kidneys and urete 134 Calculi of the urinary passages 135 Diseases of the bladder (tumours excep 136 (a) Stricture of the urethra (b) Other disease of the urethra, etc. 137 Diseases of the prostate as venereal) 138 Diseases of the male genital organs (not as veneral Diseases of the ovary Fallopian typarametrium, not specified as vener (b) Diseases of the uterus, not specified

TABLE 17.—CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938—Continued

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	CAUSES OF DEATH	(c) Diseases of the breast	S XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	0 (a) Abortion (with septic conditions)	(b) Self-induced abortion (with septic conditions)	1 (a) Abortion (without mention of septic conditions)	(b) Self-induced abortion (without mention of septic conditions)	2 (a) Ectopic gestation (with septic conditions)	(b) Ectopic gestation (without mention of septic conditions)	3 Other accidents of pregnancy (haemorrhage ex-	4 (a) Placenta praevia	(b) Other puerperal haemorrhages	(a) Puerperal septicaemia and pyaemia specified as due to abortion)	6 Puerperal albuminuria and eclampsia	7 Other toxaemias of pregnancy	8 (a) Puerperal phlegmasia alba dolens and throm- bosis
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Fen	Fen	Fen	Fer	Fer	Fer	Fer		Total Male Fema			Total Male Fema		Fema Male Fema Male Fema
(b) Puerperal embolism	(c) Puerperal sudden death	149 (a) Caesarean operation	(b) Other surgical operations and instrumental delivery	(c) Dystocia	(d) Rupture of uterus in parturition	(e) Other accidents of childbirth	150 (b) Other or unspecified conditions of the puer- peral state	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR Total Male TISSUE Fema	151 Carbuncle	the cellular tissue	SS XIII.—DISEASES OF THE BONES AND ORGANS Total OF LOCOMOTION Male Fema	154 Osteomyelitis 155 Other diseases of the bones (tuberculosis excepted)	156 (a) Diseases of the joints (tuberculosis and rheumatism excepted)  (b) Diseases of other organs of locomotion
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938—Continued

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	CAUSES OF DEATH	CLASS XIV.—CONGENITAL MALFORMATIONS	(b) Spina bifida and meningocele (c) Congenital malformations of the heart (d) Abnormalities (e) Others under this title	CLASS XV.—DISEASES OF EARLY INFANCY	158 Congenital debility 159 Premature birth 160 (a) Injury at birth, with mention of caesarean operation	(b) Injury at birth, without mention of caesarean peration operation Male Remains to the diseases peculiar to early infancy (under Fema	(a) Atelectasis (b) Icterus of the new-born (c) Sclerema and oedema
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(d) Athrepsia (e) Others, including lack of care (f) No cause given, no doctor in attendance	CLASS XVI.—SENILITY	(a) With senile dementia (70 years and over) (b) Without senile dementia (70 years and over) (c) Premature senility (55 years but under 70 years)	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	Suicides	Suicide by solid or liquid poisons or by absorp- tion of corrosive substances	Suicide by poisonous gas	Suicide by hanging or strangulation	Suicide by drowning	Suicide by firearms	Suicide by cutting or piercing instruments	Suicide by jumping from high places	Suicide by crushing	Suicide by other means	Homicides	Homicide by firearms	174 Homicide by cutting or piercing instruments
	ASS	162	ASS	163-171	163	164	165	166	167	168	169	170	171	173-175	173	174
	CL		CL	163										173		

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## VITAL STATISTICS BRANCH

100 years 32-33 Acuts 90-94 years 85-89 years 80-84 years 75-79 years 70-74 years 65-69 years TABLE 17.—CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938—Continued 60-64 years 12 22-29 years 35 20-24 Years 12 -42-49 years -AGES 40-44 years 32-39 years 30-34 years 30 25-29 years 20-24 years 12-19 years 10-14 years 2-9 years 4 years : 60 3 years 2 years I year Under 1 year Total Male
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Female Male Female Male Female Male Female Male Female Male Female Male Male Male Female Male Female Male Female Male Female Female Female Male Male Total Other acute accidental poisonings (except by gas) Ė Accidental injury by fall, crushing or landslide piercing Accidental burns (conflagration excepted) Accidental absorption of toxic gases or Accidental mechanical suffocation Accidental injury by cutting struments Attacked by venomous animals firearms CAUSES OF DEATH Homicide by other means Accidental injury by Accidental drowning Other violent deaths Injuries by animals Hunger or thirst Food poisoning heat Excessive cold Conflagration Excessive Lightning 175 177 178 179 180 184 186 161 181 182 183 185 188 189 190 176-198

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Accidents due to electric currents  Other accidents  (a) Foreign body  (b) Others under this title Violent deaths of which the nature (accident, suicide, homicide) is unknown  Capital punishment  XVIII,—ILL-DEFINED CAUSES OF DEATH  Sudden death  Cause of death not specified or ill-defined	den den way way mol mol er t
	Accidents in mines and quarries Accidents caused by machines Railway accidents Street-car accidents Automobile and motorcycle accidents Other land transportation Water transportation Air transportation
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TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1938

	CAUSES OF DEATH	ATHS—ALL CAUSES	1 Typhoid fever 2 Paratyphoid fever 6 Small-pox 7 Measles 9 Whooping-cough 10 Diphtheria 11 Influenza (a) Sole cause (b) With bronchitis (c) With pneumonia (d) With other diseases of the respiratory system (e) With other causes (f) With other causes
		Total Male Female	Total Male Female Male Female Male Female Male Female Male Female Male Female Female Male Female Female Male Female Male Female Female Male Female
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	January	549 317 232	822 40000 1410111174 044
	February	235 235	88664111 12561 12571111 2
	March	352 22 22 215 2	22 23 23 23 23 23 23 23 23 23 23 23 23 2
	May	503 486 293 317 210 169	8335
MONTHS	nue	6 416 9 182	22 27 27 27 27 27 27 27 27 27 27 27 27 2
THS	July	460 248 212	482
	1suguA	437 265 172	\$100 000
	September	440 255 185	2528 HT
	October	484 290 194	468
	November	483 286 197	2 H H H H H N N H   N N H   N N N H
1 1	Decemper	513 326 187	282

Erysipelas  Pollomyelitis and polloencephalitis (acute)  Lethargic or epidemic encephalitis  Epidemic cerebrospinal meningitis  Tetanus  Tuberculosis of the respiratory system  Tuberculosis of the meninges and central nervous system  Tuberculosis of the vertebral column  Tuberculosis of the bones  (a) Tuberculosis of the skin and sub-cutaneous cellular tissue  Tuberculosis of the skin and sub-cutaneous cellular tissue  Tuberculosis of the lymphatic system  Tuberculosis of the genito-urinary system  Tuberculosis of the genito-urinary system  Tuberculosis of other organs  (a) Disseminated tuberculosis (acute)  (b) Disseminated tuberculosis (not specified)  Syphilis  Gonococcus infection and other venereal diseases  Purulent infection, septicaemia (non-puerperal)	10	Dysentery	Male Female	60	-			11	-	-	-	1	1	4		1
Ethangle or epidemic encephalitis (acute)   Male   5		Erysipelas	Male	00 01		-				-		4	1 1	1 1		
Epidemic cerebrospinal meningitis   Venical   Epidemic cerebrospinal meningitis   Venical   Epidemic cerebrospinal meningitis   Venical   Venica		Poliomyelitis and polioencephalitis (acute)	Male	10		-	-		1		-	9 6	-			
Epidemic cerebrospinal meningitis  Total Miles  Tetanus  Total Miles  Tuberculosis of the respiratory system  Total Miles  Tuberculosis of the pones  Tuberculosis of the bones  Tuberculosis of the bones  Tuberculosis of the bones  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the skin and sub-cutaneous cellular tissue Remale  Tuberculosis of the pones  Tuberculosi		Cethargic or epidemic encephalitis	Male	91	1 1		П				-		-		01	1
Tuberculosis of the respiratory system		Epidemic cerebrospinal meningitis	Male	2 63 6	1			4 ;	1		-				-	
Tuberculosis of the respiratory system			Male	7								•				
Tuberculosis of the respiratory system   Female   112   13   11   14   15   15   15   15   15   15		Total	Female Male	158	12	13	18	91	12	12	22	6		0 0		01
Tuberculosis of the meninges and central nervous system   Female   92   4   9   6   8   10   1   10   10   10   10   10		Tuberculosis of the respiratory system	Female Male	114	0 - 0	0 6	14	200	101	200	001	999	-	1	000	*0
Tuberculosis of the intestines and peritoneum   Female   2   1   1   2   2   2   1   1   1   1		Tuberculosis of the meninges and central nervous system	Female Male	172	₩ ~ .	00 00	9010	90 00 H	2010	97 :-		200		D :	# 60 m	
Tuberculosis of the vertebral column   Fernale   2   1   1   1   1   1   1   1   1   1		Tuberculosis of the intestines and peritoneum	Female Male	246			4-0	4 0	1 0	• 1			-	1		
(a) Tuberculosis of the bones         Female         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		Tuberculosis of the vertebral column	Female Male	- 010	4 1	1 17	4	4	1		-					
Tuberculosis of the joints   Female   S   1   1   1   1   1   1   1   1   1		(a) Tuberculosis of the bones	Female Male	NHO	11	-									-	
Tuberculosis of the skin and sub-cutaneous cellular tissue Female         Male remail         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		(b) Tuberculosis of the joints	Female Male	2	11		11	1 :	11	- 1		1 10				
Tuberculosis of the lymphatic system         Female         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		Tuberculosis of the skin and sub-cutaneous cellular tissue	Female Male			l-I		les in	1.10							
Tuberculosis of the genito-urinary system			Female Male	63			-		-							
Tuberculosis of other organs		Tuberculosis of the genito-urinary system	Female Male	64 63	1	11		-	-				-	1 1		
(a) Disseminated tuberculosis (chronic) (b) Disseminated tuberculosis (chronic) (c) Disseminated tuberculosis (not specified) (d) Disseminated tuberculosis (not specified) (e) Disseminated tuberculosis (not specified) (f) Female (g) Disseminated tuberculosis (not specified) (g) Disseminated tuberc		Tuberculosis of other organs	Female Male	10 01	1	TI	11	11	-	-		-		-	7 1	
(a) Disseminated tuberculosis (actue)  (b) Disseminated tuberculosis (chronic)  (c) Disseminated tuberculosis (not specified)  (d) Disseminated tuberculosis (not specified)  (e) Disseminated tuberculosis (not specified)  (f) Male  (g) Disseminated tuberculosis (not specified)  (g) Disseminated tuberculosis (not specified)  (h) Male  (g) Disseminated tuberculosis (not specified)  (h) Male  (g) Disseminated tuberculosis (not specified)  (h) Male  (h) Disseminated tuberculosis (not specified)		THE CHANGE OF CHANGE COURSE	Female		1		1	.00		-			-	1 1		
(b) Disseminated tuberculosis (chronic)   Female   10   2   2   1   2   1   1   1   1   1   1		(a) Disseminated tuberculosis (acuve)	Female						1							
(c) Disseminated tuberculosis (not specified)         Male Female         10         2         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		(b) Disseminated tuberculosis (chronic)	Male							I						
Syphilis  Gonococcus infection and other venereal diseases  Female  Female  Male  Female  Male  Female  Female  Female  Female  Male  Male  Female  Female  Female  Male  Female  Male  Female  Male  Female  Male  Female  Male  Male  Female  Male  Male  Female  Male  Male  Male  Male  Female  Male  Ma		(c) Disseminated tuberculosis (not specified)	Male	10		63		01-	-	6/1	-		1	63		
Gonococcus infection and other venereal diseases Male 1 Female Female 3 Male 1 Female 1 Male		Symphilis	Male	23.	23	01	44	101	00	1		1	-	63	01+	
Purulent infection, septicaemia (non-puerperal) Male 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Gonococcus infection and other venereal diseases	Female Male	71	11	-	11	11	11	11			11	11		N
No.		Purulent infection, septicaemia (non-puerperal)	Female Male	60.	11	H	II	11	1	11	11			12		100
		Malaria	Female	•	1	1 1	11		T		1.1		-	1 1		4

TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE. 1938—Continued

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		Mycoses  (a) Chicken-pox  (b) German measles  (c) Other infectious or parasitic diseases	S	Cancer and other malignant tumours  Cancer of the buccal cavity and pharynx  (a) Of the stomach and duodenum  (b) Of the rectum  (c) Of the liver and biliary ducts  (d) Of the pancreas  (f) Of the peritoneum  (g) Of other organs  (a) Of the lung  (b) Of the lung  (c) Of the mediastinum
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		Mycoses  (a) Chicken-pox  (b) German measles  (c) Other infectious or	ANC	Cancer and other malignant tumour Cancer of the buccal cavity and phi (a) Of the stomach and duodenum (b) Of the rectum (c) Of the liver and biliary ducts (d) Of the pancreas (f) Of the peritoneum (g) Of other organs (g) Of other larynx (h) Of the lung (c) Of the mediastinum (c) Of the mediastinum
		Mycoses  (a) Chicken-pox (b) German mea (c) Other infecti	1	Cancer and other malia Cancer of the buceal ca (a) Of the oesophagus (b) Of the rectum (c) Of the liver and bil (e) Of the pancreas (f) Of the peritoneum (g) Of other organs (a) Of the larynx (b) Of the lung (c) Of the mediastinum (c) Of the mediastinum (d) Of the lung
		6 4	CLASS II.—CANCER AND OTHER TUMOURS	45-53 Cancer and other malignant tumours 46 (a) Of the buccal cavity and phar. 46 (a) Of the stomach and duodenum (c) Of the rectum (d) Of the liver and biliary ducts (e) Of the pancreas (f) Of the peritoneum (g) Of other organs (f) Of the larynx (g) Of the lung (c) Of the mediastinum
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	(d) Of other organs of the respiratory system	Male	 60	-	7	-	1	1	-	-	-	T	-	-	
48	(a) Of the uterus	Female	33.1	100	00	-	0	67	-	W.		0	- 0		
	(b) Of the cervix uteri	Female	23	- 23	- 64		1 81	00	-	0 01	1 4	1 17		,	
49	Cancer of other female genital organs	Female	 21	63	63	6/1	6.3	-	-	6.3		-	63	64	
20	Cancer of the breast	Male	- 1	1	- 1	- 1	-	1	-	-					
51	(a) Of the bladder	Female Male	28 62	00 01	02.01	7-1	10 00	10	217	63 63	(- v#	64 63	1 6	10.01	44
	(b) Of the kidney	Male	 12	1	61	63	63		F	-1	-	-		-	1
	(c) Of the prostate gland	Male	 22	64	63	-	63	v	9	64	- 1		60	-	-
	(d) Of the testicles and annexa	Male	 64		1	-	-	1	-	-	-		-	-	
	(e) Of other male genito-urinary organs	Male	 61	T	1	1	П					-	П	-	
52	Cancer of the skin	Male	 7	-	-			1				-	-	63	62
53	(a) Of the eye and orbit	Female Male	9	-	11	-			-	1		61		1	
	(b) Of the circulatory system	Female Male	-	11	T			T							-
	(c) Of the glandular system	Female Male	00	П	1					60		-	0.		-
	(d) Of the female urinary organs	Female Female	15	11				- 53	F	60	6.3	Н		03	
	(e) Of the bones and joints	Male	 10	-	1	-	-	-							
	(f) Of the brain	Female	 21	21	11	11	-	60	-	-	67	-		-	-
	(g) Of the spine and spinal cord	Female	901	H		-	-		H		н		-		(
	(h) Of the neck	Male	7	11	H	Ti	11		11	11	-		11	11	
	(i) Of the abdomen	Male	00	11	11	1		-	11		1.1				-
	(j) Of other specified organs	Female	10 10	TI	П			-	-	T				-	
	(k) Multiple cancer	Female Male	400			61	11		-			н	-		
	(m) Of unspecified or unknown location	Female	60	11	11	11	11			-	н		,	-	
54	Non-malignant tumours Total		16		-	1.1	-	60	-		63	-	-		01
	(a) Of the ovary	Female Female	20 02	-	4-1	7	٠٠ :	11	-	60	-	<b>*</b>	60	49 ;	
	(b) Of the uterus	Female	11	T	63	04	60		1	1	-		63	-	

TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE. 1938—Continued

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		Female Male Female Female Male Male Female Male Female Female Female Total Male Female Female Female Female	Male Female Female Female Female Female Male Female Female Female Female Male Female Female Male Female
	CAUSES OF DEATH	(c) Of other female genital organs  (d) Of the brain  (e) Of the thyroid gland  (f) Of the prostate gland  (g) Of other or unspecified sites  (g) Tumours of the brain, nature not specified  (g) Tumours of other or unspecified sites, nature not specified  (g) Tumours of other or unspecified sites, nature not specified  (g) Tumours of other or unspecified sites, nature not specified  (g) Tumours of other or unspecified sites, nature not specified  (g) Tumours of other or unspecified sites, nature not specified  (g) Tumours of other or unspecified sites of the properties of the proper	56 Acute rheumatic fever 57 Chronic rheumatism, osteo-arthritis 59 Diabetes mellitus 60 Scurvy 63 Rickets 64 Osteomalacia 65 Diseases of the pituitary gland
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TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1938—Continued

MONTHS	March May April May June June June June June June June June	28 25 20 14 24 23 21 19 17 15 28 19 10 17 15 28	11 2 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	-	4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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		Male Female Male Female	Female Male Female Male	Female Male Female Male Female	l Male Female Male Female Male Male Female Male Female Female Female Female	Male Female Male Female Male Female Male Female Male Female Male Male Male
	CAUSES OF DEATH	(b) Other alcoholic intoxications 76 (d) Chronic poisoning, by other organic substances CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE	ORGANS OF SPECIAL SENSE  78 Encephalitis (non-epidemic)  79 Simple meningitis		(a) Cerebral haemorrhage (b) Cerebral embolism and thrombosis (c) Softening of the brain	(d) Hemiplegia and other paralysis, cause not specified  83 General paralysis of the insane  84 (a) Dementia praecox  (b) Other psychoses  85 Epilepsy  86 Convulsions (under 5 years of age)

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	(c) Chronic myocarditis and myocardial degeneration (d) Myocarditis, unspecified (45 years and over)
a) Chorea b) Neuralgia and neuritis c) Paralysis agitans d) Sclerosis (other than of the spinal cord) e) Others under this title Olseases of the organs of vision Diseases of the mastoid process (b) Diseases of the heart Pericarditis Acute endocarditis, specified as acute (a) Endocarditis, unspecified (under 45 years of Chronic endocarditis, valvular diseases (b) Endocarditis, unspecified (45 years and over) Diseases of the myocardium (a) Acute myocarditis (b) Myocarditis, unspecified (under 45 years of 8) (b) Myocarditis, unspecified (under 45 years of 8)	(c) Chronic myocarditis and myocardial degener (d) Myocarditis, unspecified (45 years and over)
(a) Chorea  (b) Neuralgia and neuritis  (c) Paralysis agitans  (d) Sclerosis (other than of the spinal cord)  (e) Others under this title  Diseases of the organs of vision  (a) Otitis  (b) Diseases of the mastoid process  TI.—DISEASES OF THE CIRCULATORY SYST  TI.—DISEASES OF THE CIRCULATORY SYST  TO DISEASES  (a) Endocarditis, specified as acute  (b) Endocarditis, unspecified (as chronic and of diseases  (b) Endocarditis, unspecified (45 years and or Diseases of the myocarditus  (a) Acute myocarditis, unspecified (under 45 years of b) Myocarditis, unspecified (under 45 years of b) Myocarditis, unspecified (under 45 years of b)	and and
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(a) Chorea (b) Neuralgia and neuritis (c) Paralysis agitans (d) Sclerosis (other than of the spina (e) Others under this title Diseases of the organs of vision (a) Otitis (b) Diseases of the mastoid process (c) Diseases of the heart (a) Endocarditis (b) Endocarditis, specified as acute (c) Endocarditis, unspecified as chronic endocarditis, unspecified (45 year) (b) Endocarditis, unspecified (45 year) (c) Endocarditis, unspecified (45 year) (d) Endocarditis, unspecified (45 year) (e) Myocarditis, unspecified (under (b) Myocarditis) (under (b) Myocarditis)	6) C
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SEX BY MONTHS.		1-7-40	Male Female	Male			Female Male	9	le	Female Male	e	Female	Female	-	Female Male	Female Male	Female Male Female		le	Male Female
TABLE 18.—CAUSES OF DEATH FOR EACH	THE STREET STREET, STR	CAUSES OF DEATH	4 Diseases of the coronary arteries and angina Sub-total	(a) Diseases of the coronary arteries	(b) Embolism and thrombosis of the coronary arterles	(c) Angina pectoris	5 Diseases of the heart Sub-total	(a) Functional diseases of the heart	(b) Other and unspecified	6 Aneurysm (except of the heart)	77 Arteriosclerosis (of coronary arteries excepted)	8 Gangrene	99 Other diseases of the arteries	00 Diseases of the veins (varices, haemorrhoids, phiebitis, etc.	11 Diseases of the lymphatic system (lymphangitis, etc.)	22 Idiopathic abnormalities of blood pressure	03 Other diseases of the circulatory system	CLASS VIII. DISPASES OF THE RESPIRATORY SYSTEM	2	M Diseases of the nasal fossae and annexa
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the larynx  c) cified) tis  in and thrombosis  emorrhagic infarct of the lung, etc.  a la mand thrombosis  the respiratory system  the respiratory system	ASS IX.—DISEASES OF THE DIGESTIVE SYSTEM  115 (a) Diseases of the buccal cavity and annexa  (b) Diseases of the tonsils  (c) Other diseases of the pharynx  116 Diseases of the stomach  (b) Ulcer of the duodenum
105 (a) Croup  (b) Other diseases of 106 (a) Bronchitis (acute) (b) Bronchitis (unspector) (c) Bronchitis (unspector) 107 (a) Bronchopneumonia 108 Lobar pneumonia 109 Pneumonia, unspecifie 110 Pleurisy 111 (a) Pulmonary embolic (b) Congestion and ha 112 Asthma 113 Pulmonary emphysem 114 (a) Chronic interstitti (c) Other diseases of the reconstruction	ASS IX.—DISEASE  115 (a) Diseases (b) Diseases (c) Other dis 116 Diseases of 1 117 (a) Ulcer of (b) Ulcer of

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		Male Female Male Female Female Male Female Female Male	4.1
	CAUSES OF DEATH	118 Other diseases of the stomach 119 Diarrhoea and enteritis (under 2 years of age) 120 (a) Diarrhoea and enteritis (2 years and over) 121 Appendicitis 122 (a) Hernia (b) Intestinal obstruction 123 Other diseases of the liver, specified as alcoholic (b) Cirrhosis of the liver, not specified as alcoholic (c) Cirrhosis of the liver of the liver (d) Other diseases of the liver (e) Other diseases of the gall-bladder and biliary passages 126 Biliary calculi 127 Other diseases of the gall-bladder and biliary passages 128 Diseases of the pancreas 129 Peritonitis, cause not specified	ars

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the kidneys and ureters  hary passages ladder (tumours excepted)  s of the urethra, urinary abscess, etc.	of the ovary, Fallopian tube and parametrium cified as venereal)	as venereal)	EGNANCY, CHILDBIRTH AND THE			septic		gestation, without mention of septic conditions Female	excluded)			
the kidneys and ureters  hary passages ladder (tumours excepted)  s of the urethra, urinary abscess, etc.	of the ovary, Fallopian tube and parametrium cified as venereal)	as venereal)	EGNANCY, CHILDBIRTH AND THE			septic		topic gestation, without mention of septic conditions Female	excluded)			
the kidneys and ureters  hary passages ladder (tumours excepted)  s of the urethra, urinary abscess, etc.	of the ovary, Fallopian tube and parametrium cified as venereal)	Diseases of the uterus (not specified as venereal)  Diseases of the breast (not specified as venereal)	-DISEASES OF PREGNANCY, CHILDBIRTH AND THE ERPERAL STATE		Self-induced abortion (with septic conditions)	Self-induced abortion (without mention of septic conditions)	Ectopic gestation, with septic conditions	Ectopic gestation, without mention of septic conditions Female	excluded)			
Chronic nephritis  Nephritis, unspecified (10 years and over)  Other diseases of the kidneys and ureters  Calculi of the urinary passages  Diseases of the bladder (tumours excepted)  (a) Stricture of the urethra  (b) Other diseases of the urethra, urinary abscess, etc.	Useases of the male genital organs (not specified as to Diseases of the ovary, Fallopian tube and parametrium (not specified as venereal)	as venereal)	XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	(a) Abortion (with septic conditions)	(b) Self-induced abortion (with septic conditions)	(b) Self-induced abortion (without mention of septic conditions)	(a) Ectopic gestation, with septic conditions	(b) Ectopic gestation, without mention of septic conditions Female	Other accidents of pregnancy (haemorrhage excluded)	(a) Placenta praevia	(b) Other puerperal haemorrhages	(a) Puerperal septicaemia and pyaemia
Chronic nephritis  Nephritis, unspecified (10 years and over)  Other diseases of the kidneys and ureters  Calculi of the urinary passages  Diseases of the bladder (tumours excepted)  (a) Stricture of the urethra  (b) Other diseases of the urethra, urinary abscess, etc.	of the ovary, Fallopian tube and parametrium cified as venereal)	Diseases of the uterus (not specified as venereal)  Diseases of the breast (not specified as venereal)	-DISEASES OF PREGNANCY, CHILDBIRTH AND THE ERPERAL STATE		Self-induced abortion (with septic conditions)	(b) Self-induced abortion (without mention of septic conditions)	Ectopic gestation, with septic conditions	(b) Ectopic gestation, without mention of septic conditions Female	excluded)		(b) Other puerperal haemorrhages	

TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1938—Continued

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	реатн		eclampsia	cy	lba dolens and thrombosis						arturition	1birth	ndition of the puerperal state			
	ог реатн		and eclampsia	gnancy	sia alba dolens and thrombosis	п	leath	u			in parturition	childbirth	ed condition of the puerperal state		in and annexa and of the cellular	
	USES OF DEATH	anus	nuria and eclampsia	of pregnancy	egmasia alba dolens and thrombosis	bolism	den death	eration			terus in parturition	ts of childbirth	pecified condition of the puerperal state		in and annexa and of the cellular	
	CAUSES OF DEATH	1 tetanus	numinuria and eclampsia	nias of pregnancy	I philegmasia alba dolens and thrombosis	l embolism	1 sudden death	n operation			of uterus in parturition	cidents of childbirth	unspecified condition of the puerperal state		in and annexa and of the cellular	
The second secon	CAUSES OF DEATH	rperal tetanus	al albuminuria and eclampsia	xaemias of pregnancy	rperal philegmasia alba dolens and thrombosis	rperal embolism	rperal sudden death	garean operation	tocia		ture of uterus in parturition	er accidents of childbirth	er or unspecified condition of the puerperal state		acute abscess	
	CAUSES OF DEATH	Puerperal tetanus	erperal albuminuria and eclampsia	her toxaemias of pregnancy	Puerperal phiegmasia alba dolens and thrombosis	Puerperal embolism	Puerperal sudden death	Caesarean operation	Dystocia		Rupture of uterus in parturition	Other accidents of childbirth	Other or unspecified condition of the puerperal state		acute abscess	
The same of the sa	CAUSES OF DEATH	(b) Puerperal tetanus	Puerperal albuminuria and eclampsia	Other toxaemias of pregnancy	(a) Puerperal phlegmasia alba dolens and thrombosis	(b) Puerperal embolism	(c) Puerperal sudden death	(a) Caesarean operation	(b) Dystocia	(c) Other surgical operations and instrumental delivery	(d) Rupture of uterus in parturition	(e) Other accidents of childbirth	(b) Other or unspecified condition of the puerperal state		Carbuncle Cellulitis, acute abscess Other diseases of the skin and annexa and of the cellular	tissue
	CAUSES OF DEATH	(b) Puerperal tetanus	146 Puerperal albuminuria and eclampsia	147 Other toxaemias of pregnancy	118 (a) Puerperal phiegmasia alba dolens and thrombosis	(b) Puerperal embolism	(c) Puerperal sudden death	149 (a) Caesarean operation	(b) Dystocia		(d) Rupture of uterus in parturition	(e) Other accidents of childbirth	150 (b) Other or unspecified condition of the puerperal state	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE	acute abscess	tissue

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OF THE BONES	Osteomyelitis Other diseases of the bones (tuberculosis excepted) (a) Diseases of the joints (tuberculosis and rheu excepted) (b) Diseases of other organs of locomotion	MAL	(a) Congenital hydrocephalus (b) Spina bifida and meningocele (c) Congenital malformations of the heart (d) Abnormalities (e) Others under this title	EARI	Congenital debility  Premature birth  (a) Injury at birth, with mention of caesarean operation  (b) Injury at birth, without mention of caesarean operation	Other diseases peculiar to early infancy (under months)  (a) Atelectasis (b) Icterus of the new-born (c) Sclerema and oedema
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XIIIDISEASES LOCOMOTION	Osteomyelitis Other disease (a) Diseases excepted) (b) Diseases	0-7	Spi Cos Cos Oth	III-	Congenital debility Premature birth  (a) Injury at birth,  (b) Injury at birth,	her mo ) Ate ) Icte ) Scl
		CLASS XIV.—CONGENITAL MALFORMATIONS		CLASS XV.—DISEASES OF EARLY INFANCY		
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	CAUSES OF DEATH	(d) Athrepsia Merchang lack of care From Property (e) Others, including lack of care From Property (f) No cause given, no doctor in attendance From Property (f) Response given, no doctor in attendance From Property (f) Response given, no doctor in attendance From Property (f) Response given, no doctor in attendance From Property (f) Response given for the first fi	CLASS XVI.—SENILITY M	162 (a) With senile dementia (70 years and over)	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	163 Suicide by solid or liquid poisons or by absorption of Corrosive substances 164 Suicide by poisonous gas 165 Suicide by hanging or strangulation 166 Suicide by drowning 167 Suicide by firearms 168 Suicide by furning or piercing instruments 169 Suicide by jumping from high places 169 Fema
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	CAUSES OF DEATH	(b) Others under this title  Violent deaths of which the nature (accident, suicide, homicide) is unknown  Capital punishment	CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH  199 Sudden death  200 Cause of death not specified or ill-defined	SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN	Accidents in mines and quarries Accidents caused by machines Railway accidents Street-car accidents Automobile and motorcycle accidents Other land transportation Water transportation Air transportation
		195	CLASS 199 200		HGFEDCBA
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82-89 years 10 - -90-94 years 31 13 13 01-85-89 years 181 80-84 years 900 98 28 40 siesy 97-57 73 0101 70-74 years 9104 20 62 01-65-69 years E- 40 00 382 8169¥ \$6-08 00 00 01 524 55-59 years 99 55135 20-24 years 1632 t= 10 ct 42-49 years 1938 40-44 years 2888 10 4 1 TABLE 19.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON. 6000 13 13 21 35-39 years 910-2233 30-34 Acuts 18 18 9 25-29 years 1919 118 20-24 years 14204 217.7 :2-19 years E 6000 10-14 Acuts 255 11 29 0101 2-9 years 10 64 65 2 4 years 940 60 60 3 years 2 years 6000 I year 40101 54 59 Under I year 678 678 437 113 IntoT Male
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_	1-4-45	
	Section 1	Male Female Male Female Male Female Female Male
	CAUSES OF DEATH	Poliomyelitis and polioencephalitis (acute)  Lethargic or epidemic encephalitis  Tuberculosis  Tuberculosis of the respiratory system  Tuberculosis of the meninges and central nervous system  Tuberculosis of the intestines and peritoneum  Tuberculosis of the vertebral column excepted)  Tuberculosis of the skin and sub-cutaneous cellular tissue  Tuberculosis of the lymphatic system (bronchial, necepted)  Tuberculosis of the genito-urinary system  Tuberculosis of other organs  Tuberculosis of other organs  Tuberculosis of the genito-urinary system  (a) Disseminated tuberculosis (acute)  (b) Disseminated tuberculosis (not specified)  (c) Disseminated tuberculosis (not specified)
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ulent infection, septicaemia (non-puer oses Chicken-pox German measles Other infections or parasitic diseases	CLASS II.—CANCER AND OTHER TUMOURS	Cancer and other malignant tumours  Cancer of the buccal cavity and pharynx  (a) Of the stomach and duodenum  (b) Of the rectum  (d) Of the pancreas  (f) Of the peritoneum  (g) Of other organs  (a) Of the lung  (b) Of the lung  (c) Of the mediastinum  (d) Of the uterus  (e) Of the uterus  (b) Of the cervix uteri  (c) Of the uterus  (d) Of the uterus  (e) Of the uterus  (f) Of the uterus  (g) Of other organs of the respiratory s  (g) Of the uterus  (h) Of the uterus  (c) Of the uterus
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Syphilis Purulent infectio Mycoses (a) Chicken-pox (b) German mea	-CA	Cancer and other mali, Cancer of the buccal ca (a) Of the oesophagus (b) Of the rectum (c) Of the liver and bi (e) Of the pancreas (f) Of the partitioneum (g) Of other organs (a) Of the larynx (b) Of the larynx (c) Of the mediasthum (d) Of the uterus (d) Of the uterus (d) Of the uterus (d) Of the cervix uteri (e) Of the cervix uteri (b) Of the cervix uteri
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TABLE 19.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1938—Continued

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		Male Fema Male	Male	Male	Male	Male	Male	Male	Male	Male	Fen	Male	Male	Male	Male	Male	Male	Male	Fen
		11			1		-		-			1			-			Total	
	CAUSES OF DEATH	50 Cancer of the breast 51 (a) Of the bladder	(b) Of the kidney	(c) Of the prostate gland	(d) Of the testicles and annexa	(e) Of other male genito-urinary organs	52 Cancer of the skin	53 (a) Of the eye and orbit	(b) Of the circulatory system	(c) Of the glandular system	(d) Of the female urinary organs	(e) Of the bones and joints	(f) Of the brain	(g) Of the spine and spinal cord	(i) Of the abdomen	(j) Of other specified organs	(k) Multiple cancer	54 Non-malignant tumours T	(a) Of the ovary

	(b) Of the uterus	Female	4			-		4		-		-	65			-	COR.					-	_		
	(d) Of the brain	Male	1	- 8				1														I			
	(e) Of the thyroid gland	Female Male	60						-	1 1			1								TI	H	11		
	(f) Of the prostate gland	Female Male				11							-												
	(g) Of other or unspecified sites	Male Female	63	11	11	11							_	11	-										
100	Tumours, nature not specified	Male Female	11		11	11		1.1	11	11				11											
CLASS	III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES	Total Male Female	1138	27-1		1111					4-10			0101			******				TI			9.60	
26	Acute rheumatic fever	Male	6.3	-							-					-									
57	Chronic rheumatism, osteo-arthritis	Female Male	<b>7</b> H				1		-		63				17						II				
29		Female Male	- 00									-	-	1							II	11	11	11	
63	Rickets	Female Male	00		1 1						1			1	_					6.1	II	11	T	11	
99	(a) Simple goitre	Female Male																			II	H	11		
	(b) Exophthalmic goitre	Female Male	61							-								-			11	H			
67	Diseases of the thymus gland	Female Male	-			11															П				
69	Other general diseases	Female Male Female	7	-		111					Til														
CLASS	IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	Total Male Female	12 12 12 12 12 12 12 12 12 12 12 12 12 1		111									-					10000						
11	(a)	Male Female	99			TI	-						-	-	-				000						
72	(a) Leukaemia	Male Female Male	144			11	-				TI			10.00		i i et e					III				
	(b) Aleukaemia (Hodgkin's disease)	Female Male	40			-					-		-						111		111	111	11		
74	Other diseases of the blood and blood-forming Male organs	remale Male Female	7 11			111					H			11		11			11		H				

TABLE 19.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1938—Continued

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	65-69 years	111	H		
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Ages	40-44 years	111	11		
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	25-29 years	HII	TI		
	20-24 years	111	11	21-12	-11-1111 111111111111111111111111111111
	15-19 years	111	11	61 61	
	10-14 years		11	111	THE
	2-9 years	111	11	111	
	4 years	111	III	111	
	3 years		11		
	2 years		11		
	I year	111	11	111	
	Under I year	111	11		
	Total		-	1286	884888 H HH H H488 H HH H
		111	11	111	1111111 1111111111111111
		Total Male Female	Male Female	Total Male Female	Male Female Female Male Female Female
	CAUSES OF DEATH	CLASS V.—CHRONIC POISONINGS AND INTOXICA-		VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	Encephalitis (non-epidemic)  Other diseases of the spinal cord  (a) Cerebral haemorrhage  (b) Cerebral embolism and thrombosis  (c) Hemiplegia and other paralysis, cause not specified  Epilepsy  Convulsions (under 5 years of age)  (d) Sclerosis (other than of the spinal cord)  (e) Other diseases of the nervous system  Diseases of the organs of vision  (a) Otitis  (b) Diseases of the mastoid process
	CAUS	V.—CHRONIC	75 (b) Alcoholism	CLASS VI.—DISEASES OF THE AND OF THE ORGANS OF	81 Other diseases of the spinal 82 (a) Cerebral haemorrhage (b) Cerebral embolism and (d) Hemiplegia and other specified 85 Epilepsy 86 Convulsions (under 5 years 87 (d) Sclerosis (other than of (e) Other diseases of the ne 88 Diseases of the organs of vi 89 (a) Otitis (b) Diseases of the mastoid

29 37 24 18 38 23 14 4 19 27 17 13 24 14 8 4 19 10 7 5 14 9 6	15 19 9 13 11 6 3 4 7 6 2 2 1 6 2 2 4 7 6 2 2			1 11	2 1 2 1		3 3	1 2	1 1 2 2 2	11 4 6 7	63		2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1 2 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			60 H CO H C
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230 le 155	le 105			e	Pemale Male Male Remale			9 4			(c) Angina pectoris Male	(a) Functional diseases of the heart Formale Formal	9 9		le	le .	rees, haemorrhoids, Med.	normalities of blood pressure Female Female

TABLE 19.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1938—Continued

ANS VIII.—DISEASES OF THE RESPIRATORY  ANS VIII.—DISEASES OF THE RESPIRATORY  AND Diseases of the nasal fossue and annexa  AND Diseases of the nasal fossue  AND Diseases of the nasal fossue and annexa  AND Diseases of the nasal fossue  AND Diseases of the teoralis  AND DISEASES OF THE RESPIRATORY  AND DISEASES OF THE DIGESTIVE SYSTEM  AND DISEASES OF THE DIGESTIVE	CAUSES OF DEATH   CAUSES OF THE RESPIRATORY   CAUSES OF THE ANALYSIS OF THE ANALYS			V	ITAL	51	ATIS	STIC	S BI	RAN	CH		
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duodenum the stomach teritis (under 2 years of age d enteritis (2 years and over the intestines (2 years and ov the intestines the liver (not specified the liver (not specified	of the gall-bl ancreas not specified	(including unitional interpretation
the duodenum s of the stomach and enteritis (2) n of the intestines obstruction s of the intestines of the liver ( eases of the liver	s of the gall-bl re pancreas use not specified	s OF THE GENT tis (including uni age) ritis specified (10 year s of the kidneys i urinary passage e bladder (tumo
ases of the stomach and enteritis (under oea and enteritis (2) tion of the intestines is nal obstruction ases of the intestines sis of the liver ( lic) diseases of the liver	reali sesses of the gall-bles f the pancreas cause not specified	hritis (including unsof age) ephritis unspecified (10 year ases of the kidneys if the urinary passage to the bladder (tumo)
iseases of the stomach bea and enteritis (under urhoea and enteritis (2) eration of the intestines licitis nia estinal obstruction estinal obstruction liseases of the intestines rhosis of the liver ( sholic)	calculi diseases of the gall-bl sages s of the pancreas itis, cause not specified	REASES OF THE GENT  mephritis (including uni ars of age) c nephritis tis, unspecified (10 year liseases of the kidneys a  of the urinary passage s of the bladder (tumo
er diseases of the stomach rhoea and enteritis (under Diarrhoea and enteritis (2) Ulceration of the intestines endicitis  Hernia Intestinal obstruction er diseases of the intestines of clirrhosis of the liver (alcoholic) Other diseases of the liver (other diseases of the liver (other diseases of the liver (other diseases of the liver	ary calculi  er diseases of the gall-bl  passages  eases of the pancreas  itonitis, cause not specified	STEM STEM  te nephritis (including universe of age) onic nephritis ohritis, unspecified (10 year er diseases of the kidneys are diseases of the bladder (tumo
the of the of the obst	Biliary calculi Other disesses of the gall-bladder and biliary passages Diseases of the pancreas Peritonitis, cause not specified	X.—DISEASES OF THE GENITO-URINARY SYSTEM Acute nephritis (including unspecified, under 10 Chronic nephritis Nephritis, unspecified (10 years and over) Other diseases of the kidneys and ureters Calculi of the urinary passages Diseases of the bladder (tumours excepted)
	<ul> <li>26 Biliary calculi</li> <li>127 Other diseases of the gall-blessages</li> <li>28 Diseases of the pancreas</li> <li>29 Peritonitis, cause not specified</li> </ul>	SYSTEM SYSTEM  SYSTEM  Acute nephritis (including universe)  Chronic nephritis  Nephritis, unspecified (10 year  Colculi of the urinary passage  Calculi of the bladder (tumo
(b) Ulcer of the duodenum  118 Other diseases of the stomach 119 Diarrhoea and enteritis (under 120 (a) Diarrhoea and enteritis (2; (b) Ulceration of the intestines 121 Appendicitis 122 (a) Hernia (b) Intestinal obstruction 123 Other diseases of the intestines 124 (b) Cirrhosis of the liver (alcoholic) 125 (b) Other diseases of the liver	126 Biliary calculi 127 Other disesses of the gall-bl passages 128 Diseases of the pancreas 129 Peritonitis, cause not specified	CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM  130 Acute nephritis (including unspecified, und years of age)  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 bladder (tumours excepted).

TABLE 19.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1938—Continued

			TAL	51	ATIS	110		DKA	NCH					
	and over betated			-	- 1	-						-	111	
	100 years			-		-	-		-	-		-	111	
	95-99 years	111	- 1	:	1	-	-	-				-	111	
	90-94 years				- 1	1	-		-	- 1		-	111	
	85-89 years	1.1	- 1			-	-	-	-	-	1	-		
	80-84 years	10	-	1	- 1	- 1	-	-	- 1		-	- 1	111	-
	75-79 years	10		-		1	1	-	- 1	- :		-	111	-
	70-74 years	1 4		-	-	-	-				- 1			-
	65-69 years		-	-	-	-	-	-		-	-	-		
	60-64 years		-				-	-	- 1			-	1.1.1	
	22-29 years				1		-	-	-	-	-		111	
	20-24 years				- 1		-	-	- 1	- 1	1	- 1		-
Ages	42-49 years		-		-	i	-	-					111	
Ag	40-44 years				-		-		1		- 1			
	32-39 years				9	-	-	-	-		60	-	111	
	30-34 years		-		1 3	-	-	-			-	-	111	-
	25-29 years	111		-	61	1	-		-	-		i	111	
	20-24 years	111	-	-		1	-			-	- 1	-	111	-
	15-19 years	1 141						-		- 1	- 3	-	111	
	10-14 years			1	1	-	-	-	-	-			111	
	2-9 years	111			1	1	1	1	i	-	1	1		
	4 Aests	THE	1			1	-	1		- 1		1	111	
	3 Aests	111	1		1	1	-		1	-	1	-		
	2 years	111	1		i	-	-		1	-	9	1		11
	I year		-			1	-	1	-		-	1	111	
	Under 1 year		-			-	-	-		1		-		
	Total	1 26	23	I	13	-	1	4	-	-	6.3	91	21-1	1
			1	T				1						
		Male Female Male	Female	Female	Total	Female	male	Female	Female	Female	Female	Female	Total Male Female	Male
_				Fe		Fe	) Fe					Fe	R Total Male Fema	Ma
	CAUSES OF DEATH	(b) Diseases of the urethra, urinary abscess, etc Diseases of the prostate	Diseases of the ovary, Fallopian tube and parametrium	Of the uterus	XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	(a) Abortion (with septic conditions)	Self-induced abortion (with septic conditions) Female	Abortion without mention of septic condi- ditions	Self-induced abortion without mention of septic conditions	Ectopic gestation without mention of septic	Puerperal septicaemia (not specified as due to abortion)	Puerperal albuminuria and eclampsia	XII.—DISEASES OF THE SKIN AND CELLULAR Total TISSUE Fema	Carbuncle
		136 (b) D 137 Disea	139 (a) I	(b) c	CLASS XI,—I	140 (a) A	(b) S	141 (a) A	(p) S	142 (b) E	145 (a) F	146 Puery	CLASS XII.—DIS	151 Carbi
					- 2									

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TI	111	71 11	111	11111111	111	1111	THE THE
11	111	11 11	111	11111111	111	HIII	
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TI	111	11 11			111		
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TI	1111	11 11	TIII	HHHHH		THE	111111 1111
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T							
ale	il eale	Male Female Male Female	Total Male Female	Male Female Male Female Male Male Male	Female Female	Male Female Male Female	Male Female Male Female Male Female Female Male Female
Mal	Total Male Female	Male Female Male Female	Total Male Fema	Male Femal Male Femal Male Femal Male	Total Male Femal	Male Femal Male Femal	Male Fema Male Fema Male Fema Male Fema
153 Other diseases of the skin and annexa and of Male the cellular tissue Female	CLASS XIII—DISEASES OF THE BONES AND ORGANS Total Male OF LOCOMOTION Fema	joints and other organs of					(a) Atelectasis  (b) Icterus of the new-born  (c) Other diseases peculiar to early infancy, including lack of care  (d) No cause given, no doctor in attendance
nex	QN	0	CLASS XIV.—CONGENITAL MALFORMATIONS	Congenital hydrocephalus Spina bifida and meningocele Congenital malformations of the heart Others under this title	VCX.		y in
an	SA	othe	ATI	t th	FA		in a
and	NE	- P	RM	Congenital hydrocephalus Spina bifida and meningocele Congenital malformations of th Others under this title	Z		Injury at birth without mer operation  Atelectasis Icterus of the new-born Other diseases peculiar to cluding lack of care No cause given, no doctor
ii.	BO	æ	C.F.O	nin tion tion	EX		Injury at birth without moperation  Atelectasis Icterus of the new-born Other diseases peculiar to cluding lack of care  No cause given, no doctor
28	HE	nts	MAJ	Congenital hydrocepha Spina bifida and meni Congenital malformatio Others under this title	EAF		w-k w-k care no
er diseases of the	E :	joi	H	dro and alfor	- E	b .	Injury at birth wo operation  Atelectasis  Icterus of the nevoluter diseases perioding lack of control of the nevoluting lack of control of the nevoluting lack of control of the nevoluting lack of the nevol
r of	SOL	the	TI.	da mi	S	th th	the the ck
lula	NOT	omyelitis	GEN	biffi biffi um	ASE	de	Injury at operation Atelectasis Icterus of Other discinding la
lise	SE	yeli s omo	ONO	na nger nger	SE	uital	ury eru eru her idin
the	DISEASES OF LOCOMOTION	Osteomyelitis Diseases of the locomotion	0	(a) Congenital hydrocephalus (b) Spina bifida and meningo (c) Congenital malformations (e) Others under this title	-D	Congenital debility Premature birth	opt At Ott
Oth	HO NO	Osteomyelitis Diseases of locomotion	CIV.	(e) (e) (e) (e) (e)	CLASS XV.—DISEASES OF EARLY INFANCY	Cor	(£ (£ (£) (£)
60	SS	154	SS	157	SS	158	161
H	LAS		LAS	-	LAS		
	0		0		0		

TABLE 19.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1938—Continued

	CAUSES OF DEATH	CLASS XVI.—SENILITY	162 (a) With senile dementia (70 years and over) (b) Without senile dementia (70 years and over)	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	Total		Suicide by drowning	167 Suicide by firearms 168 Suicide by cutting or piercing instruments	Suicide by other means	173-175 Homicides Total	Homicide by other means	176-198 Other violent deaths Total	181 Accidental burns (conflagration excepted)
		Total Male Female	Male Female Male Female	Total Male Female	Male Female	Male Male	Female Male Female	Male Female Male	Female Male Female	Male Female Male	Female Male	Female Male	Female Male Female
	Total	0104	01-00	62 13	14	2 01	62	9 1	I	(00 04 -	10101	55	122
	Under 1 year	THE	1101	201	TI	111				III		2	- 11
	I year	111	1111	1111	TH	111	TT		11			T	
	Z years	111	1111	iii	11	111					111	TI	111
	3 years		1111		11	111							111
	5-9 years			201						-	-	61	
	10-14 years	111	1111	461	H	TII			TI	-	1	61	
	12-19 years			461	111	H	111		11	111	H	.00	- 11
	20-24 years			44	63	111		2 1	11		H	-	111
	S2-S9 years			63.63	64	-		-	11			-	
	35-39 years			60.00	-	-			11	110	1 1	. 63	111
Ag		111	1111	9101	-			-		111		-	-
Ages	45-49 years	111		10.10	-	-				-	11-	60	
	20-24 years		1111	844	es ==	115	111	61	11	1	11	-	60 1
	22-29 Aests			99	-		Т			-	115	4	
	STESY \$8-08			40-						111	11	60	-
	70-74 years				-		-						
	75-79 years			21-1	11								-
	80-84 years	0101	1 1	111									
	85-89 years	64 64	111	00.01-		H	H	111		111	II		
	90-94 years	27-1-				TT	III	III		111	11	П	
	95-99 years							TIT			11		
-	100 years and over					11		111		111	11		
1	belets tow	V	ITAL S	IAIIS	STICS	BRA	ANCI	H					

	DEATHS (INCLUD)			20-20		1 1 2 3 3 1 1 1 1 2 3 3 1 1 1 1 1 1 1 1	1		The state of the s
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#### VITAL STATISTICS BRANCH

TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1938

		VI	TAL S	FATIS	TIC	CS :	BR	AN	CH	1						
	patets toN	1111	1111	111	11	11	11	11	11	11	11	11	11	11	11	111
	100 years		111	111	H	TI	H	H	11	TT	II	II	TT	TT	TT	П
	92-99 years		111	111	11	11	Ti	11	11	11	TI	11	11	11	11	III
	90-94 years	01:010		111	11	TT	Ti	11	11	T	II	II	11	II	II	III
	82-89 years	41 8 9		111	T	II	TI	-	11	1.5	-	11	11	II	TT	III
	80-84 years	230 22	111	111	11	11		11	11	11	11	11	11			П
	75-79 years	111		111	11	11	T	T	1 1	11	11	11	11	TI	II	
	70-74 years	522	60 m 61	111		11	T	11	61	-	-	11	11	III		TII
	65-65 years	80 48 32	TH	111	11	H	H	11	11		TT		11	II	11	ПП
	8169K \$9-09	81 55 26	44	111	11		11	-	11	-	11	11	11	11	H	117
	22-23 Assts	34	7041	111	11	11	11	6.3	11	61	11	11	11	11		111
	20-24 years	67 48 19	9000	111	11	11	11	-	111	-	H	11	11	11	TT	П
SS	42-49 years	422	21-1	111	T	11	11	11	11	11	II		H	11	н	III
AGES	40-44 years	13	65-61	111	11	11	III	11	-	1 1	-	11	111	11	н	III
	22-23 Asurs	20 111		111	TI	II	11	11	11	11	11	11	11	TI	11	III
	30-34 years	100	01 01	1111	11	11	11	11	-	11	-	11	11	11	11	III
	25-29 years	17	2111	-	11	11	11	-	11	H	II	11	11	11	11	III
	20-24 years	17-4	460-	111	11	11	11	11	11	II	11		11	01 -	1	III
	12-19 years	000	211	1111	11	H	11		T	II	H	11	11	F	11	
	10-14 years	200	111	III		11			11	11	H		11	H	I	Ш
	2-9 years	55.00	400-	H	H	-	11	11	11	11		II	11	11	11	III
	4 years	1010		111	11	11		11	11	11	11	11	11	11	II	111
		044		111	11	II	TI	-	TI	11	H	F	H	TI	II	TIT
	2 years	904		111	П	11	11		-	11	-		11	H	II	ПП
	I year	to to	TII	111	H	II	II	11	T	11	II	II	II	II	II	TTT
	Under I year	25 24 24		111	11	П	H	11	11	TI	11	11	11	III	11	П
	Total	801 461 340	173		-	-	11	1	10	ro	41	-	11	60.	121	111
					11	11	H	11	1	11	11	11	11	11	П	H
		l ale	l ale	ale	ale	ale	ale	ale	ale	ale	ale	ome .	ale	ale	ane	ale
		Total Male Female	Total Male Female	Male Female Male	Female Male	Female Male	Female Male	Female	Female Male	Female Male	Female Male	Male	Female Male	Female	Male	Male Female
-			-	-			-	Total				-				
	CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	1 Typhoid fever 7 Measles	8 Scarlet fever	9 Whooping-cough	0 Diphtheria	Influenza	(b) With bronchitis	(c) With pneumonia	(d) With other diseases of the respiratory system	(f) With other causes	5 Erysipelas	6 Poliomyelitis and polioencehpalitis (acute)	7 Lethargic or epidemic encephalitis	8 Epidemic cerebrospinal meningitis
		DEAT	CLAS	0.00			10	11					15	16	17	18

							ANN	UA	L	RE	POI	KI,	19	38								97
	11	1 1	11	11	1	111	1 111	1	1		111	1									-	-
-	III	1				III	IIII	-	1	T		T										T
7	11	1 1	11	11	1		1 111			1		1		I			1					T
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-	-	1	11	11			1- 1-	1	-					-	-					61	I	60
-	-		11	11	-	TH	000	10	00		1					1			-	1	1	-
1		1	11	11			60 60	1	01		11						11		-	1	I	-
		1	11	11	1		63 63	63			I	1		-	11	H		11	11	T	1	
1	11		11	H	1 1	TI	0101	6.1	I	T		T	III		-	11				I	1	
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-	11		11	11	1 1	H		-	11	T	11	11	H	11	-	11			11	į	i	11
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														-					11		-	
le .	Male Female	le	Female Male	Female Male	Female	Female Male Female	Total Male Female	e e	Male	Female Male	Female	Female	Female	Female Male	Female	Female	Female Male	Female	Female	Female	Female	Male
Ma	Male Fema	or fragment of the latest owner.	Male	Male		Fema Male Fema	Total Male Fema	Ma	Male	Femal	Femal	Fema	Femal	Femal Male	Fema Male	Femal	Femal	Fema Male	Fer	Fen	Fen	Male
Total Male		the meninges and central ner-	1		Tuberculosis of the bones and joints (vertebral column excepted)			Total Male	-													
	В	entra	Tuberculosis of the intestines and peritoneum		s (ve		70	To the second	Cancer of the buccal cavity and pharynx				-					Of other organs of the respiratory system	-		SI	
1000	rste	p	D D	mn	oints		URS	ours	pha		n					-		ory			rgar	
-	y 83	am	an	nloc	1 30		MO	din	pu		nur		ucts					irat			1 0	-
1	tor	ges	nes	al	ano		TU	11 1	ya		ode	-	b d	-				resp			nita	
-	pira	enin	estin	tebr	nes	- Company	ER	gnar	avit	*******	the stomach and duodenum	-	the liver and billary ducts					he			ge	
-	res	H	int	ver	bou (1		ТН	alig	Il Ca	the oesophagus	and		l bil		H	-		of t	-	teri	ale	
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	Jo 1	of	of 1	of t	of		AN	the	bt.	rsop	oma	ectu	ver	ner	rito	gro	ng	orga	eru	ivi	ner	bre
sis	sis	sis	sis	sis	sis n e		H.	o p	the	0 0	ste	the rectum	III	the pancreas	pe	ier	lu s	er c	in a	0	oth	the
nlos	nlo	erculosis of vous system	nlos	nlos	erculosis of the b	00	NCE	an	of		the		the	the	Of the peritoneum	Of other organs	Of the lung	oth	Of the uterus	the	of	jo
Tuberculosis	Tuberculosis of the respiratory system	Tuberculosis of vous system	berc	Tuberculosis of the vertebral column	col	Syphilis	CA	Cancer and other malignant tumours	cer	Of	Of	Of	Of	or	of					(b) Of the cervix uteri	Cancer of other female genital organs	Cancer of the breast
Tur	Tul	Ta	Tul	Tuk	Tul	Syp	I.	Can	Car	(a)	(b)	(c)	(p)	(e)	(£)	(8)	(p)	(p)	(a)	(p)	Can	Can
	53	24	22	26	27	35	CLASS II.—CANCER AND OTHER TUMOURS		45	46							47		48		65	20
23-32							LAS	45-53		-							4		*			
							C															

TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1938—Continued

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	100 years		T	1	1	T	T		11	ī			11	11	11	11	11	-	Ŧ
	92-99 years		T	T	ī	T			11	1		T	11	11	11	11	T	1	Ī
	90-94 years	1		-	T				11	1			11	III	T	11	T		ī
	82-89 years		T		T	T		1	11				11	11	11	T	11	1	1
	80-84 years	-	1	-		T		1	11	T				T	TT	T	11	1	1
	12-19 years	T	-	-	1	1							64	T	11	11	11	T	T
	70-74 years	T	-	-	1	-			11	1		-	11	11	es =	-	-	-	-
	62-69 years	-	T	T	T	1		-		-	•		11	11	11		1	1	T
	34001 65 35	- 61	63	14	-	-	-		10		1 1		11	: :					-
	8169 years								5.83										
	22-29 years	4		-					11		-				60			6.3	
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	CAUSES OF DEATH	51 (a) Of the bladder	(b) Of the kidney	(c) Of the prostate gland	(e) Of other male genito-urinary organs	52 Cancer of the skin	53 (c) Of the glandular system	(d) Of the female urinary organs	(e) Of the bones and joints	(f) Of the brain	(g) Of the spine and spinal cord	(i) Of the abdomen	(j) Of other specified organs	(k) Multiple cancer	54 Non-malignant tumours Total	(b) Of the uterus	(d) Of the brain	(e) Of the thyroid gland	(f) Of the prostate gland
		rus				100	113								4.5				

NUTRITIONS AND OF THE ENDOCRINE GLANDS  AND OTHER GENERAL DISEASES  Acute rheumatic fever  Acute rheumatic fever  Acute rheumatic fever  Chronic rheumatism, osteo-arthritis  Chronic general diseases  Chronic general g		Total   43	Total   43   1	Total   43   1   1   1   1   1   1   1   1   1	Total   43   1   1   1   1   1   1   1   1   1	Total   13	RITION O OTHER	ute r	roni	abet	H	sea	0	78	-						8	10		16	E
	Total  Rale Female Male Male Female Male Male Male Male Male Male Male M	Total   43	Total   43   1	Total   43   1   1   1   1   1   1   1   1   1	Total   43   1   1   1   1   1   1   1   1   1	Total   13   13   14   15   15   15   15   15   15   15	AATIC DISEASES, DISEASES OF AND OF THE ENDOCRINE GLAND: GENERAL DISEASES	heumatic fever	c rheumatism, osteo-arthritis	es mellitus	xophthalmic goitre	ses of the thymus gland	ther general diseases	DISEASES OF THE BLOOD AND BLOOD MING ORGANS	Simple purpura	Haemophilia	Pernicious anaemia	Others under this title	Leukaemia .		ases of the spleen	AND	Alcoholism	O/2	ole meningitis
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1938—Continued

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	62-69 years					171	121
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	20-24 years			H	THIR	5114	20
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	CAUSES OF DEATH	81 Other diseases of the spinal cord	83 General paralysis of the insane 84 (b) Other psychoses	85 Epilepsy 87 (b) Neuralgia and neuritis (c) Paralysis agitans	88 Diseases of the organs of vision 89 (a) Otitis (b) Diseases of the mastold process	>	Diseases of the heart  Pericarditis  (a) Endocarditis, specified as acute  (b) Endocraditis, unspecified (under 45 yeage)
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nic e 1	Myocarditis, unspecified (45 years and over) Diseases of the coronary arteries Embolism and thrombosis of the coronary	Angina pectoris Functional diseases of the heart	r a	e a	SEA	nses	nen	tion
Chronic endocraditis, valvular diseases  Endocarditis, unspecified (45 years and over)  Acute myocarditis  Chronic myocarditis and myocardial degeneration	0 0 0	ngi	ysr	iose	EM	Diseases of the larynx Bronchitis (acute)	Bronchopneumonia ar pneumonia	hro
	Ty die	PH 100		A	150			
			b) (d	Arter	YS.	b) D	a) B oban	a) C
(e) (e) (e) (e)	(g) (g) (g)	(c)	(b) Other and unspecified 36 Aneurysm (except of the heart)	97 Arteriosclerosis (of coronary arteries excepted) 98 Gangrene 02 Idiopathic abnormalities of blood pressure	SYSTEM  SYSTEM  Of Diseases of the massal foscase and annews		(a) Lob Pleu	14 (a) Chronic interstitial pneumonia including oc- cupational diseases of the respiratory system Male Fema
			(b) C 96 Aneu	97 Arter 98 Gang 102 Idiop	CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM  104 Diseases of the massal foscase and annexes		107 (a) B 108 Lobar 110 Pleur	114 (a) C

TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1938—Continued

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	65-69 years	40101	TT		-	-		111	-	111		11	-	T	11
	60-64 years	44	11	61	11	111			-	-					11
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	20-24 years		11	111		111		11-	11	TI	T				TT
	12-19 years		11			111		117	111		T		T		T
	10-14 years	111		111		1 [ ]			H			H			TI
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		CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	(a) Diseases of the buccal cavity and annexa			Other diseases of the stomach	(a) Diarrhoea and enteritls (2 years and over)	(b) Ulceration of the intestines (2 years and over)				Cirrhosis of the liver, specified as alcoholic	not specified	(a) Yellow atrophy of the liver	
	CAUSES OF DEATH	DIGE	1 cavity	ls h	(b) Ulcer of the duodenum	Other diseases of the stomach	tis (2 y	stines		1	Other diseases of the intestines	r, spec	of the liver,	he live	
1	D &	HE	acca	<ul><li>(b) Diseases of the tonsils</li><li>(a) Ulcer of the stomach</li></ul>	den	stc tis	teri	inte		(b) Intestinal obstruction	int	live	e	of t	
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Other diseases of the control of the	Chronic nel Nephritis, u Other disea	Diseases of the bladder Diseases of the urethra, Diseases of the prostate (a) Of the ovary, Fallopi	(b) Of the uterus  CI.—DISEASES OF PREGNANCY AND THE PUERPERAL STATE	(a) Abort (b) Self-i	(b) Dystocia
Other dise passages Diseases of Peritonitis, X.—DISEAS SYSTEM	Chronic nephritis  Nephritis, unspecified (10 years and over)  Other diseases of the kidneys and ureters.			(a)	
127 Other disea passages	131 Chronic nel 132 Nephritis, u 133 Other disea 134 Calculi of t	135 Diseases of 136 Diseases of 137 Diseases of 139 (a) Of the	(b) Of the CLASS XI,—DISE/AND THE	140 (a) Abort (b) Self-i	142 (b) Ectop condit 149 (b) Dysto

TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1938—Continued

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	and over	111	11	111	TIT	111	
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	65-69 years						
	60-64 years	111	11		11	111	
	22-23 Aests	111	11	111	- 11	171	
	20-24 years	111	H	111	111	111	
	45-49 years		-	111	11	111	THITTI
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	10713	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR Total Male Fema	151	CLASS XIII,—DISEASES OF THE BONES AND ORGANS Total OF LOCOMOTION Male Fema	156 I	CLASS XIV.—CONGENITAL MALFORMATIONS	
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Total Male Female	Male Female Male Female	Male Female Female Male Male	Total Male Female	Male	Total Male Female	Male Female Male	Female Male Male Male Male Male Male Male Female Male	Male Female
Total Male Fema			Total Male Fema	Ma	Total Male Femal	Total Male Sorp-	Femal Male Male Femal Male Femal Male Femal	Fen
-				(rer)		otal rp-		
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Z.A.	otto	ear		0.0	LA	suc	rtio	
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	th th	und	×	5	=	. 0 1	UU - 21 44	50
SES	debilit birth at birt	on and lisease	LITY	t sen	ENT	solic	dro fire cutt	crus
SEASES	ital debilit ure birth ury at birt	ration rema and er disease	ENILITY	hout sen	IOLENT	by solic of corr	by hang by dro by fire by cutt	by crusi
-DISEASES	genital debilit mature birth Injury at birt	operation Sclerema and Other disease	-SENILITY	Without sen	-VIOLENT	ide by solic	ide by hang	ide by crus
(V.—DISEASES	Congenital debility  Premature birth  (b) Injury at birth without mention of caesarean	(c) Sclerema and oedema (e) Other diseases peculiar to early infancy	KVI.—SENILITY	(b) Without sen	CVII-VIOLENT	Suicides Suicide by solic tion of corr	Suicide by hang Suicide by dro Suicide by fire Suicide by cutt	Suicide by crus
SS XV.—DISEASES	A STATE OF THE PARTY OF THE PAR		S XVI.—SENILITY	62 (b) Without senile dementia (70 years and over) Male Fema	SS XVII-VIOLENT	71 Suicides Total 63 Suicide by solid or liquid poisons or by absorption of corrosive substances		70 Suicide by crushing
CLASS XV.—DISEASES OF EARLY INFANCY	158 Congenital debilit 159 Premature birth 160 (b) Injury at birth		CLASS XVI.—SENILITY	162 (b) Without sen	CLASS XVII-VIOLENT OR ACCIDENTAL DEATHS	163-171 Suicides 163 Suicide by solle tion of corr		170 Suicide by crust

TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1938—Continued

		V	ITA	L :	ST	AT	ST	ICS	B	RAN	ICH
1	betate toN	1	11	11	11	11	1 1	11	11	11	111
	100 years	1	11	11	II	11	11	11	11	14	
	92-99 years	1	11	11	11	T	11	11	11	11	
	90-94 years	1	-	- 1		11	11	11	-	- (	
	82-89 years		11	-		11	1 1	11	111	-	HI
	80-84 years	1	-	04	11	11	TI	III	-	01	111
	75-79 years	1	.04	11	11			11	64	11	
	70-74 years	1	60		11			11	63	-	
	65-69 years	1	-	4	11	11	1 1	11	-	7	
	60-64 years		61	11		1 1	1.1	-	-	11	
	22-29 years	1	60	- 1	11		11	11	60	-	
	20-24 Acets		, IO	-	11	11	11	11	4	II	
	42-49 years		-	11	11	-	11	11	11	III	HII
AGES	40-44 years	1	64	11		11		11	61		
A	32-39 years	1	01	11	1	11	11	11	63	II	
	30-34 years	T	-	-	1			11	11	11	
	25-29 years	-	64	-	-	11	11	11	-	-	111
	20-24 years		-	11	H	11	11	11	-		
	15-19 years	1	11	11		11	11	11	11	111	TIII
	10-14 years	1		11				11	11		III
	2-9 years	1	-	11	11	1.1	11	11	M	11	111
	4 years	1	61	11	T	11	01	11	11	H	
	3 years		61	-	TI	T	-	11	-	-	111
	Z years	T	-	-	11	11	1	-	-	11	
	I year		11	11	T	11	11	11	11	11	
	Under I year		1.1	H	11	11	T	11	11	H	
	Total	1	65	3.5	-	-	C3		24	==	TIII
		1	11	11		T	11	11	11	111	
	I de la	0	Female	Female Vale	Female Male	Female Male	Female Male	Female Male	nale le	Female Male Female	Total Male Female
		Total Male	Total Male	Femal Male	Femal	Femal Male	Fema Male	Fer	Femal Male	Fema Male Fema	Total Male Fema
	1	otal	otal		-	1	-		-		
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	OF		ps	on		con	50	y f	y f	60	9
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	CAUSES OF DEATH		nt d	pso		urn	drov	mju	mju	ccic	DE
	CA	90	oler	als	atio	al h	al	al is	al is	T S	-H
	5 1 3	cide	Vi	ent	agr	ent	ent	ent	ent	the	7
	107	omi	Other violent deaths	Accidental absorption of toxic gases	Conflagration	Accidental burns (conflagration excepted)	Accidental drowning	Accidental injury by firearms	Accidental injury by fall or crushing.	0 (4	,III.
		H								194 (b) Other accidents	X S
		173-175 Homicides	176-198	178	180	181	183	184	186	194	CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH
		17	17								5

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), CALGARY, 1938

*	A match make the majores and accommission	Mala																-					-			
5	A Accidents in mines and quarties	Female																								
B	B Accidents caused by machines	Male	63	1000	1		-				1	1	1	1 1		1	1	-	1	1	-	1	-	-	T	
		Female	1	-	1	-	1	-			-	ī	1		-	1	1	-	-	1	-	-	-	-	1	
0	C Railway accidents	Male	1	T	1	-	-	-			110	-	-	1	-	i.	-	1	T.	E	-	Ī	-		1	
		Female	000	1000	-	-	1	-				1	-	-	-	-	-	1000		1	-	1	-		ī	
Q	D Street-car accidents	Male	1	-		1		-		-	1	10000	-	total date	-	1	i	1		-	1	-	-	-	I	
		Female		-	-		1000	-			-		0	100			-	1	1000		1	-	-	100	ī	
E	E Automobile and motorcycle accidents	Male	15	1	-	-	1	-			Ī	9	1	-	1 1	0	20 .	-	-	N :		1	-	-	ī	1
		Female	00		-	7		1		1		-	-	-	-	1	7	I		-	-	-	-	-	Ŧ	
[H	Other land transportation	Male	*****	1	1000	-		-		1	1	101	1	1	-	1	1	11		1	1	-	-	-	Ŧ	
		Female		-		-		-		-	I	-		-	-		-	I	ī	1	-	-	-	1	Ī	
5	G Water transportation	Male	2000		1		-	1000		1000			-	1000	-	-	1	1	1000	Ī	1	-	1	-	ī	
		Female	100		-	*	A	-	10.	-	i		-			ī	I		-	1	Ī	1	1		ī	
H	H Air transportation	Male	100	1000	-			-	1000	-	-				-		-		1	ì	Ī	-	1	-	Ī	
		Female	-	-	-	-	-	*****	-		1	-	-		-	Ti	1111	-	-	-	-	-	-	-	Ŧ	

### VITAL STATISTICS BRANCH

TABLE 21.—SPECIAL CLASSES OF ACCIDENTAL DEATHS, ALBERTA, 1938, SUBDIVIDED ACCORDING TO NATURE OF ACCIDENT

1	CAUSES OF DEATH	Male	Female
1.	A.—Accidents in mines and quarries	21	1
78	Accidental absorption of toxic gases	7	1000
86	Accidental injury by fall, crushing or landslide	12	
94	Other accidents	2	****
1	B.—Accidents caused by machines	20	1
78	Accidental absorption of toxic gases	1	
85	Accidental injury by cutting or piercing instruments	3	100
50	Accidental injury by fall, crushing or landslide	16	1
(	C.—Railway accidents	8	1
86	Accidental injury by fall, crushing or landslide	8	1
1	D.—Street-car accidents	2	
86	Accidental injury by fall, crushing or landslide	2	
1	E.—Automobile and motorcycle accidents	60	17
18	Accidental absorption of toxic gases	5	1
30	Conflagration	1	1
2	Accidental burns (conflagration excepted)	1	
5	Accidental mechanical suffocation Accidental injury by cutting or piercing instruments	1	
6	Accidental injury by fall, crushing or landslide	50	17
0	Excessive cold	1	1
1.			
6 1	F.—Other land transportation	10	2
0	Accidental injury by fall, crushing or landslide	10	2
(	G.—Water transportation	7	-
3	Accidental drowning	7	

TABLE 22.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, CLASSIFIED ACCORDING TO RESIDENCE OF DECEDENTS IN ALBERTA, 1938

	1 2 - 1	1 0	l amma v	H00
Sc	Non-resident in city or town where death occurred and	resi t in	Female	-100
ition	t in whe	Non-1 dent Provi	Male	019
Deaths elsewhere than in Institutions	on-resident in or town wher death occurred a	-	Total	00 00 H
Ins	tow tow	Resident in Province	Female	96 =
i ii	or leat	Resident in Province	Male	
han	N TO	- H H	LetoT	7000
9		ents	Female	7 110 3 137 8 222
vher		pisid	Male	7 150 7 157 1 18 1 18
lsev		×	Total	287 247 31 40
s e		100	Female	121 121 146 122
eath	3 . 1	Total	Male	157 149 18 19
Ä		H	Total	303 270 32 41
	it p	ce n si	Female	624462
	n c ere	Non-resi- dent in Province	Male	10.0
	nt i wh	Nor	Total	910
128	n-resident in or town where		Female	20139
tion	or tow death occ	Resident in Province	Male	280 1 65 32
Deaths in Institutions	Non-resident in city or town where death occurred and	Res	Total	139 419 2 116 52
Ins	-	53	Female	147 1 173 4 36 1 19
ii.		den	Male	243 1 243 1 243 1 24
aths		resi	Total	351 2 416 2 71 43
Des		ш		194 316 88 42
P. P. P.		7	Female	304 1 529 3 100 62
-		Total	Male	498 845 188 104
			IntoT	40000
-	ity id	in in	Lemale	41-40
	t in c where	Von-resi dent in Province	Male	96 9
	0 0	Nor de Pro	Total	10 16 9
	sider	t e	Female	52 20 20 20
	r to	Resident in Province	Male	101 289 65 33
ths	Non-r or death	Reside in Provir	Total	153 136 117 53
All Deaths		ts	Lemale	354 284 153 1 380 283 436 2 53 49 117 42 41 53
A.		lder	Male	254 53 42
		Residents	Total	83538
			Female	340 137 02 64
		Total	Male	801 461 340 6 1115 678 437 6 220 118 102 10 145 81 64
1	1	F	IstoT	801 1115 220 145
	HARRY			
		Cities		algary dmonton ethbridge fedicine Hat
				llgar imor thbr edici

TABLE 23.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, SHOWING THE NUMBER NON-RESIDENT IN ALBERTA, 1938

			All D	All Deaths					In Institutions	itutions		
		Total		Non	Non-resident in Province	nt in		Total		Non	Non-resident in Province	it in
CACHER OF DIVINE	Total	Male	Total Male Female Total Male Female Total Male Female Total Male Female	Total	Male	Female	Total	Male	Female	Total	Male	Femal
Total for the Province	5871	3481	2390	72	40	32	3097	1884	1213	52	27	25

TABLE 24.—RATE PER 100,000 POPULATION AND NUMBER OF DEATHS BY AGE PERIODS FROM CERTAIN SPECIFIED CAUSES, FOR 1938 THE WHOLE PROVINCE,

80 years and over 2000 0 111711 53 10 01 01 130 5136 31 20-79 years 181 60-69 years 57 10 14 1 20-29 years 200012140400 40-49 years Deaths Strangenous-30-39 years E4601-6 of 20-29 years Number 0.000 :01 0.0 15-19 years 10-14 years 1400 10 2-9 years I-4 years 1091 Under I year 888827474888884848181888884848488885 and IIA Rate per 100.000 Population Alcoholism

Simple meningitis
Progressive locomotor ataxia
Cerebral haenorrhage, cerebral embolism and thrombosis.
General paralysis of the insane
Dementia praecox and other psychoses
Epilepsy
Diseases of the ear and mastoid process
Diseases of the heart 6 Poliomyelitts and polioencephalitis (acute)
8 Epidemic cerebrospinal meningitis
2 Tuberculosis of the respiratory system
2 Tuberculosis, other forms
3 Syphilis
6 Purulent infection, septicaemia
5 Cancer and other malignant tumours
6 Diabetes mellitus
7 Diabetes mellitus
7 Diabetes of the thyroid and parathyroid glands
7 Leukaemia and aleukaemia Pleurisy Congestion and haemorrhagic infarct of the lung Asthma CAUSES OF DEATH Typhoid and paratyphoid fever Smallpox Diseases of the arteries Whooping-cough Diphtheria Influenza Scarlet fever Pneumonia Bronchitis Erysipelas 

Appendictive and consists of the stormeth and on the pharyinx and tonsis and	27288 272 27288 286 272 272 272 273 286 272 272 272 273 286 273 273 273 273 273 273 273 273 273 273	280
Action   Color of the pharytra   Action   Acti	22 28 28 28 28 28 28 28 28 28 28 28 28 2	086
## 4.0 31 2 5 2 1 2 5 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	119 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
## 4.0   31   2   5   2   1   2   5   5   5   5   5   5   5   5   5	16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	863
## 4.0   31   2   5   2   2   1   2   2   1   2   2   3   1   1   3   1   3   3   3   3   3	100 100 110 110 110 110 110 110 110 110	437
## 4.0   31   2   5   2   2   1   1   1   1   1   1   1   1	3233 2255 2255 2255 2255 2255 2255 2255	327
## 4.0   31   2   5   2   2   3   15   15   15   15   15   15   15	282222 31 118 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	287
## 4.0   31   2   5   2    8.8   69   5   15   12    18.6   146   4   1   1    8.2   64   4   1   1    8.2   64   4   1   1    8.2   64   4   1   1    8.3   31.0   243   1   1    11.7   92   79   6   4    44.8   351   351   6   4    44.8   351   351   1    12.4   97   15   1    1.1   9   15    1.1   9   16    1.2   1.3    2.3   184   12   21    1.4   32   41    2.3   184   12   21    4.6   321   42   20    4.6   321   42   20    4.7   1   1    4.9   321   42   20    4.0   5842   809   242   141    749.7   5871   812   242   141    749.7   5871   812   242   142    749.7   5871   812   242   142    749.7   5871   812   242   142    749.7   5871   812   242   142    749.7   5871   812   242   142    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.0    740.0   740.	1 113 5 4 4 4 22 1 13 113 113 113 113 113 113 113 113	155
4.0 31 2 5 5 8.8 69 5 5 15 118 118 78 115 118 118 118 118 119 119 119 119 119 119	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	116
4.0 31 2 8.8 69 55 151 118 78 182 64 4 182 184 185 118 18 18 18 18 18 18 18 18 18 18 18 18	11116	142
4.0 31 8.8 69 15.1 118 15.1 118 15.1 118 15.1 118 15.2 17 3.0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243 3.1 0 243	2 272 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	242
4.0 8.8 8.8 8.2 15.1 18.6 8.8 8.2 8.2 8.2 8.7 8.7 8.7 11.7 11.7 11.7 11.9 1.9 1.9 1.9 1.0 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.1	2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	812
adder 4.0 8.8 8.8 8.2 15.1 18.6 8.2 8.2 8.0 9.8 8.7 11.7 11.7 11.7 11.1 0.3 6mts 1.9 12.6 1.9 12.6 1.9 13.6 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	243 1118 1146 1146 1146 1146 1146 1146 1146	1282
adder Total	2000 22 22 22 22 22 22 22 22 22 22 22 22	7
adder adder ents trion		748
	adder ents tion	

TABLE 25.—MARRIAGES IN THE PROVINCE OF ALBERTA, BY MONTHS, 1938

	November	180 139 128 48 23 42 23 11 8 5 17 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	1038 602
	Осторет	206 161 457 477 112 113 504	1005
	September	125 113 26 14 6 5 6	479
	tsuguA	137 125 21 22 22 7 7	230
MONTHS	July	164 138 14 18 18 18 335 335	691
MC	aunc	192 149 23 123 15 4 4 4 304	79 350 701 691 53
	May	103 66 14 10 10 3 2 151	350
	HrqA	130 83 16 7 7 9 9 8 219	
	Матећ	76 71 113 110 111 143	333
	February	90 70 7 7 204	383
	Tannaty	1114 655 20 7 8 8 8 4 162	382
	Total	1640 1308 273 219 99 68 77 3289	6973 382 383 4
		Edmonton Calgary Lethbridge Medicine Hat Red Deer Wetaskiwin Drumheller Rural Districts	Total for the Province

of o	9	Divorced	2.1
cent	des wh	swobiW	4.6
Per	Bri	Spinsters	93.3
of	ms	Divorced	2.0
cent.	degroom	Widowers	50
Per	Bri	Bachelors	92.7
		Momen	17
	vorced n and	swobiW	13
	Div	Spinsters	109
between	and	Divorced	15
383	wers	swobiW	167
Marriages	Wide	Spinsters	191
Ma	and	Divorced	115
	achelors	swobiW	140
	Bach	Spinsters	9029
	səğe	Total Marr	6973
			Total for the Province

	Ages of Bridegrooms Total Grooms Under 16	28 244 492 492 231 231 231 231 231 231 231 231 231 23
-	16 17	22.11.12.2.14.2.14.2.2.1.1.2.2.1.1.2.2.2.2
	18	085284455455544555045544555
	19	1-4-51286-52-52-52-52-52-52-52-52-52-52-52-52-52-
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	United Brethren		1 1
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	Salvation Army		-
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	Protestants	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	229
	Presbyterians	23.2 2 1 1 2 1 2 2 2 3 3 3 3 4 1 1 1 4 4 1 1 1 4 4 1 1 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	512
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of	Lutherans	222 232 232 24 111 24 44 44 44 44 44 44 44 44 44 44 44 44	999
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Ď	Friends		
	Evangelicals		41
	Disciples	1711111111171171111111111	63
	Church of Christ		20
	Christian Science	10    -4	16
	Christians	2   12	31
	Brethren	9-1-	15
	Baptists	11382 1128 1149 1149 1149 1149 1149 1149 1149 114	309
	Anglicans	98 33 38 25 1 1 1 1 2 2 2 2 1 1 1 1 2 3 3 3 3 3 3 3	831
	Adventists	8420	21
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	Total Grooms	298 298 298 298 200 23 252 252 252 252 253 113 113 113 113 113 113 113 113 113 1	6973
	Denominations of Grooms	Adventists Adventists Anglicans Applies Baptists Brethren Christians Christians Church of Christ Disciples Evangelicals Evangelicals Evangelicals Greek Catholics Greek Orthodox Holiness Movement Jews Mormons Mormons Protestants Mormon Catholics Church Orinited Brethren United Brethren Orinited Brethren Orinited Church Mohammedans, Shintos, Sikhs, Hindus) No religion Other sects Not stated	Total Brides

# TABLE 30.—DIVORCES AND NULLITIES BY JUDICIAL DISTRICTS FOR THE YEAR 1938

		Divorce	S	1	Nullities	
Judicial Districts	Number of Divorces	Granted to Husband	Granted to	Number of Nullities	Granted to Husband	Granted to
Edmonton Calgary Lethbridge Medicine Hat Drumheller Peace River Red Deer Grande Prairie Macleod Vegreville Wetaskiwin Hanna	132 94 17 6 4 4 3 3 1 1	57 25 11 1 3 2 2 2 3	75 69 6 5 1 2 1	2 2	1	1 2
Total	267	105	162	4	1	3

## DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Year	Granted to Husband	Granted to Wife	Total
	3	3	6
	74	26	100
	53	37	90
	80	49	129
	57	32	89
	66	53	119
	59	42	101
	79	75	154
	83	66	149
	91	84	175
	77	71	148
	64	87	151
	69	97	156
***************************************	69	81	140
	56	79	195
	69	106	100
	7.4	106	168
Harris Harris Committee Co	74	100	209
	102	133	209
	102	109	241
	105	162	267

TABLE 31.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, ALBERTA, 1938

		Months											
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province	883	89	88	110	92	74	51	65	65	62	54	70	63

TABLE 32.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE, ALBERTA, 1938

	To	Legitimate			Illegitimate				
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	883	460	423	763	394	369	120	66	54

TABLE 33.—DEATHS OF INDIAN CHILDREN (EXCLUSIVE OF STILLIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE FOR EACH SEX, ALBERTA, 1938

	Causes of Death	Total	Male	Female
LL CA	AUSES	133	75	58
7	Measles	5	3	2
8	Scarlet fever			1
9	Whooping-cough	6	3	3
10	Diphtheria		4414	
11	Influenza	6	3	3
13	Dysentery	2	1	1
15	Erysipelas	1	1	
16	Poliomyelitis and poliencephalitis (acute)		-	1
18	Epidemic cerebrospinal meningitis			1
23	Tuberculosis of the respiratory system	10	8	2
24	Tuberculosis of the meninges and central ner-			
	vous system	2	1	1
25-32	Tuberculosis, other forms	3	1	2
34	Syphilis	1000	1910	
67	Diseases of the thymus gland		1111	4414
86	Convulsions Diseases of the ear and mastoid process	3	****	3
89		1	1	
106	Bronchitis	1	2100	1
107	Bronchopneumonia	21	14	7
08, 109	Pneumonia	20	7	13
16-118	Diseases of the stomach	2	1	1
119	Diarrhoea and enteritis	12	8	4
157	Malformations	2	1	1
	(a) Congenital hydrocephalus	1000	.,	1111
	(c) Congenital malformations of the heart	1		1
150	(b, d, e) Others under this title	1	1	****
158	Congenital debility	5	4	1
159	Premature birth	9 2	5	4
160 161	Injury at birth	2	1	1
101	Other diseases peculiar to early infancy (under	***	_	
	3 months Total	12	5	7
	(a-e) Specified diseases	5	2	3
76-198	(f) No cause given, no doctor in attendance	7	3	4
10-138	Other external causes	1	1	-
99-200	Other specified causes	3	2	1
33-200	Unspecified or ill-defined causes	3	3	2011

TABLE 34.—CAUSES OF DEATHS OF INDIANS BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938

	CAUSES OF DEATH	DEATHS—ALL CAUSES  Rale Female	CLASS I.—INFECTIOUS AND PARASITIC DISEASES Male Female	Typhoid Fever	Female	Scarlet Fever Male	Whooping-cough Male	Diphtheria Male Male	Influenza Total Male	(a) Sole cause Male	(c) With pneumonia Male Male	(e) With intestinal complications Male	Dysentery Female Male	Fremale Male Male	Poliomyelitis and polioencephalitis (acute) Male	Lethargic or epidemic encephalitis Male	Tuberculosis Total Male	Female Tuberculosis of the respiratory system
-	IntoT			-		e	e	- e	e		9		e	e	e			
	Under 1 yr.	228 75 199 58	90 35 97 21 93 14	60	53											-		511 8 51
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	70-74 years	17	0101	1									T				61	- 61
	75-79 years	2000	2000	-		-											-	1
	80-84 years		111		11												11	11
	85-89 years	10-4-4		-													-	-
li	90-94 years	63 63	111															11
	100 years and over	010		- 1	11			1				11						

TABLE 34.—CAUSES OF DEATHS OF INDIANS BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938—Continued

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	95-99 years	
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	82-89 years	
	80-84 years	
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	60-64 years	
	22-29 years	
	20-24 years	
ES	42-49 Acets	
AGES	40-44 years	
	35-39 years	
	30-34 years	
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	20-24 yeras	
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	5-9 years	
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	I year	27
	Under I yr.	
	Total	0488 31 3111 313311 318 18 18 1
		Male Female
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		Tuberculosis of the meninges and central ner vous system  Tuberculosis of the intestines and peritoneum.  Tuberculosis of the vertebral column excepted)  Tuberculosis of the lymphatic system (bronchial mesenteric and retroperitoneal glands excepted)  Tuberculosis of the genito-urinary system  Tuberculosis of other organs  Tuberculosis of other organs  (a) Disseminated tuberculosis, not specified  Syphilis  Mycoses  Cancer and other malignant tumours  (b) Of the stomach and duodenum  (d) Of the liver and billiary ducts  (a) Cancer of the uterus  Cancer of other or unspecified organs
		the meninges and of the intestines and per the vertebral columns of the bones (vertebral retroperitoneal and retroperitoneal and retroperitoneal the genito-urinary system and tuberculosis, not significant tumours are malignant tumours are and biliary ducts and biliary ducts to runspecified organ
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		Tuberculosis of the meninges and ce vous system Tuberculosis of the intestines and per Tuberculosis of the vertebral column excepted)  Tuberculosis of the lymphatic system mesenteric and retroperitoneal greepted)  Tuberculosis of the genito-urinary system of the genito-urinary system of the genito-urinary system of Disseminated tuberculosis, acute (c) Disseminated tuberculosis, not specified other and other malignant tumours  Cancer and other malignant tumours  Cancer of the buccal cavity and phary (b) Of the stomach and duodenum (d) Of the liver and billiary ducts  (a) Cancer of the uterus  Cancer of other or unspecified organ
		24 Tuberculosis of the meninges and convous system 25 Tuberculosis of the intestines and per Tuberculosis of the vertebral column excepted) 26 Tuberculosis of the lymphatic system mesenteric and retroperitoneal cepted) 37 Tuberculosis of the genito-urinary system mesenteric and retroperitoneal cepted) 38 Tuberculosis of the genito-urinary system mesenteric and retroperitoneal cepted) 39 Tuberculosis of the genito-urinary system mesenteric and other organs 30 Tuberculosis of the genito-urinary system mesenteric and other malignant tumours conversed and other malignant tumours conversed (b) of the stomach and duodenum (d) of the liver and billiary ducts (d) of the liver and billiary ducts cancer of other or unspecified organs
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			VIII—DISEASES OF SYSTEM	Diseases of the nasal fossae and annexa (a) Acute (c) Unspecified	(a) Bronchopneumonia Lobar pneumonia	Pneumonia, unspecified Asthma	q	(a) Diseases of the buccal cavity and annexa.  (b) Diseases of the tonsils  (a) Ulcer of the stomach  Other diseases of the stomach  Diarrhoea and enteritis (under 2 years of age)  (a) Diarrhoea and enteritis (2 years and over)
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(b) Intestinal obstruction Other diseases of the intestines Other diseases of the gall-bla passages C_DISEASES OF THE GENITY SYSTEM	Chronic nephritis  Nephritis, unspecified (10 years and over)  Calculi of the urinary passages  Diseases of the bladder (tumours excepted)  Diseases of the prostate	AND THE PUERPERAL STATE  (a) Abortion with septic conditions		Other accidents of pregnancy (haemorrhage excluded)  (a) Placenta praevia		(c) Puerperal sudden death	Other diseases of the cellular tissucini CIII.—DISEASES OF OF LOCOMOTION
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122 123 127 CLASS	131 132 134 135 137	CLASS 140	141	143	145	CLASS	ASS ASS
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TABLE 34.—CAUSES OF DEATHS OF INDIANS BY SEX AND AGE FOR THE WHOLE PROVINCE, 1938—Continued

1   1   1   1   1   1   1   1   1   1	THE PERSONNELS OF THE PROPERTY AND DESCRIPTION OF THE PERSONNELS O	CAUSES OF DEATH	CLASS XIV.—CONGENITAL MALFORMATIONS MARFORMATIONS Fe	157 (c) Congenital malformations of the heart Fe (e) Others under this title M. Fe Fe	CLASS XV.—DISEASES OF EARLY INFANCY He	158 Congenital debility Fe 159 Premature birth MA 160 (b) Injury at birth without mention of caesarean	operation Misconsis Miscon		162 (b) Without senile dementia (70 years and over) M. Fe	XVIIVIOLENT OR ACCIDENTAL DEATHS.	163-171 Suicides Total Male Fema 167 Suicide by firearms Rema Fema
100 Agains   100		Te Tes	Total Male Female	Male Female Male Female	Total Male Female	e e	el el	Female Male Female Total Male		Total Male Female	Male Female Male Female
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		80-84 years	1111	1111	111	THE	1111		-	111	1111
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168	168 Suicide by cutting or piercing instruments	Male 1	1		-		_	1	-			11	T	T	-						11	TT	
173-175	173-175 Homicides Total Male				1								1							1 1			
173	Homicide by firearms	Male 1	11			II																	
176-198	Other violent deathsTotal		-	-		-	-	-	60		-				-	_		11	II	-			11
181	Accidental burns (conflagration excepted)			1						11							11			11	11	H	11
182	Accidental mechanical suffocation	Male 1	1							1.1		11	11					11		11	11	11	11
183	Accidental drowning	Male 2				T			2	T				11				11	11	11		11	11
194	Accidental injury by firearms	Male 1							-		1 1	11	11	11				11	11	11	11	11	11
185	Accidental injury by cutting or piercing instru-	Male 1				-	-			1					-		1	1	1	-	1	I	1
186	Accidental injury by fall, crushing or landslide	Female 4		11		11	11			111	-		111	111	1 1 1	-		111		-		111	111
194	Other accidents	Male 1 Female				III		-		III							11	11	H			11	11
CLASS	CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH	Total 6 Male 4 Female 2	60 60	111	111	111		111	111	Til								111		111		111	111
199	Sudden death Cause of death not specified or ill-defined	Male 1 Male 4 Female 1	1 60	THE	1111		11111	1111	1111	THE	1111			117			-	HH					1111
	SPECIAL CLASSIFICATION OF ACCIDENTAL		DEATHS	OF		INDIANS		(INCLUDED	ED AI	I SO	Z	THE	PRECEDING	CEDI	ING T	TABLE), 1938	E), 1	938		-			1 1

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B Accidents caused by machines		Male	-		-	-		-		100		-		-		-	1		-		1	1	ī
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C Railway accidents		Male	1100		-			-		1	-	-	-	-	-	-	-	T	-	-	-	-	1
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F Automobile and motor-cycle accidents	nts	Male	63	-			100	000	1000	1	1	1	1		-	I	-		-	-	1	1	-
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F Other land transportation		Male	-		-	-	-	-		1	1	-	-		-	-	1		1	-	1	1	
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H Air transportation		Male	-			-	Tone   100	-		1		-	-	-	-		-	-	Ì	-	-	-	
		Female			-	1000	Total Total	1000		111	-	- Total	1000	Total State	-	-	Troop,	-	-	1	Total I		Brook Stone

TABLE 35.—BIRTH, MARRIAGE, DEATH AND OTHER RATES PER 1,000 POPULATION FOR THE YEARS 1923-1938

	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Birth Rate Marriage Rate Death Rate Rate of Natural Increase Infantile Death Rate (per 1,000 births) Puerperal Death Rate (per 1,000 births)	25.75 6.09 8.06 18.75 90.54	24.74 7.50 8.30 16.42 82.40 6.18	25.02 7.27 7.86 16.16 72.90 5.76	23.79 7.40 8.49 15.31 81.63 5.82	24.03 7.58 8.16 15.87 74.51 6.38	24.79 9.12 9.00 15.79 76.50 6.75	26.19 9.29 9.65 16.54 77.40	26.74 8.08 8.33 18.41 63.57 6.46	23,57 7,24 16,32 69,38 5,04	22.96 6.83 7.46 15.50 58.68 3.76	21.33 7.10 7.07 14.24 59.90 4.43	21.10 7.87 6.93 14.01 54.89 4.99	21.0 7.7 7.3 14.0 57.8 4.2	20.4 7.8 8.0 12.5 60.0 5.8	20.4 88.2 12.8 63.0 4.9 63.0 4.9	20.3 8.9 7.5 112.8 51.0

TABLE 36.—DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1938

	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province	15891	89	4.3
City of Edmonton City of Calgary Small Cities Rural Districts	2804 1655 1575 9857	13 8 8 14	46.79.4 8 8 0 6 6

TABLE 37.—VITAL STATISTICS, 1905 TO 1938 INCLUSIVE

1906 1907 1908 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	185,000 236,000 266,000 301,000 336,000 374,000 400,000 429,000 459,000 480,000 496,000 508,000 522,000 541,000 565,000	421 3.003 4,732 5.973 6.897 8.321 8.813 10,284 11,871 13,685 13,452 13,331 13,576 14,890 14,130	187 927 1.907 2.032 2.384 3.086 3.630 4.429 5.053 4.623 4.202 4.230 4.270 4.048	114 1.091 1,578 2.188 2.662 3,526 3,618 4.232 4.432 4.147 3,588 4,058 4,047 7,924	307 1,912 3,154 4,235 4,705 5,195 6,052 7,439 9,538 9,864 9,273 9,529 6,966
1907 1908 1909 1910 1911 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	236,000 266,000 301,000 336,000 374,000 400,000 429,000 459,000 480,000 496,000 508,000 522,000 541,000	4,732 5,973 6,897 8,321 8,813 10,284 11,871 13,685 13,452 13,331 13,576 14,890	1,907 2,032 2,384 3,086 3,630 4,429 5,053 4,623 4,202 4,230 4,270 4,048	1.091 1.578 2.188 2.662 3.526 3.618 4.232 4.432 4.147 3.588 4.058 4.047 7,924	1,912 3,154 3,785 4,235 4,705 5,195 6,052 7,439 9,538 9,864 9,273 9,529
1908	266,000 301,000 336,000 374,000 400,000 429,000 459,000 480,000 496,000 508,000 522,000 541,000	5.973 6.897 8.321 8.813 10.284 11.871 13.685 13.452 13.331 13.576 14.890	2,032 2,384 3,086 3,630 4,429 5,053 4,623 4,202 4,230 4,270 4,048	1,578 2,188 2,662 3,526 3,618 4,232 4,432 4,147 3,588 4,058 4,047 7,924	3,154 3,785 4,235 4,705 5,195 6,052 7,439 9,538 9,864 9,273 9,529
1909 1910 1911 19912 1913 1914 19915 1916 1917 1918 19919 1920 1921 1922 1923 1924 1925	301,000 336,000 374,000 400,000 429,000 459,000 480,000 496,000 508,000 522,000 541,000	6.897 8.321 8.813 10.284 11.871 13.685 13.452 13.331 13.576 14.890	2,384 3,086 3,630 4,429 5,053 4,623 4,202 4,230 4,270 4,048	2,188 2,662 3,526 3,618 4,232 4,432 4,147 3,588 4,058 4,047 7,924	3,785 4,235 4,705 5,195 6,052 7,439 9,538 9,864 9,273 9,529
910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925	336,000 374,000 400,000 429,000 459,000 480,000 496,000 508,000 522,000 541,000	8,321 8,813 10,284 11,871 13,685 13,452 13,331 13,576 14,890	3,086 3,630 4,429 5,053 4,623 4,202 4,230 4,270 4,048	2,662 3,526 3,618 4,232 4,432 4,147 3,588 4,058 4,047 7,924	4,235 4,705 5,195 6,052 7,439 9,538 9,864 9,273 9,529
910   911   912   913   914   915   916   917   918   919   920   921   922   923   924   925   925   925   925   925   926   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927   927	374,000 400,000 429,000 459,000 480,000 496,000 508,000 522,000 541,000	8,813 10,284 11,871 13,685 13,452 13,331 13,576 14,890	3,630 4,429 5,053 4,623 4,202 4,230 4,270 4,048	3,526 3,618 4,232 4,432 4,147 3,588 4,058 4,047 7,924	4,705 5,195 6,052 7,439 9,538 9,864 9,273 9,529
912 913 914 915 916 917 918 919 920 921 922 923 924 925	400,000 429,000 459,000 480,000 496,000 508,000 522,000 541,000	10,284 11,871 13,685 13,452 13,331 13,576 14,890	3,630 4,429 5,053 4,623 4,202 4,230 4,270 4,048	3,618 4,232 4,432 4,147 3,588 4,058 4,047 7,924	5,195 6,052 7,439 9,538 9,864 9,273 9,529
913 914 915 916 917 918 919 920 921 922 923 923 924	429,000 459,000 480,000 496,000 508,000 522,000 541,000	11.871 13.685 13.452 13.331 13.576 14.890	4,429 5,053 4,623 4,202 4,230 4,270 4,048	4,232 4,432 4,147 3,588 4,058 4,047 7,924	6,052 7,439 9,538 9,864 9,273 9,529
913 914 915 916 917 918 919 920 921 922 923 924 925	429,000 459,000 480,000 496,000 508,000 522,000 541,000	11.871 13.685 13.452 13.331 13.576 14.890	5,053 4,623 4,202 4,230 4,270 4,048	4,432 4,147 3,588 4,058 4,047 7,924	7,439 9,538 9,864 9,273 9,529
914 915 916 917 918 919 920 921 922 923 924 925	459,000 480,000 496,000 508,000 522,000 541,000	13,685 13,452 13,331 13,576 14,890	4.623 4.202 4.230 4.270 4.048	4,147 3,588 4,058 4,047 7,924	9,538 9,864 9,273 9,529
915 916 917 918 919 920 921 922 923 924 925	480,000 496,000 508,000 522,000 541,000	13,452 13,331 13,576 14,890	4,202 4,230 4,270 4,048	3,588 4,058 4,047 7,924	9,864 9,273 9,529
916 917 918 919 920 921 922 923 924 925	 496,000 508,000 522,000 541,000	13,331 13,576 14,890	4,230 4,270 4,048	4,058 4,047 7,924	9,273 9,529
917 918 919 920 921 922 923 924 925	 508,000 522,000 541,000	13,576 14,890	4,270 4,048	4,047 7,924	9,529
918 919 920 921 922 923 924 925	 522,000 541,000	14.890	4,048	7,924	212.00
919 920 921 922 923 924 925	 541,000		200		0,500
920 921 922 923 924 925			4.718	5,507	8.623
921 922 923 924 925	20020 - 100001	16.565	5.110	5,675	10.890
922 923 924 925	588,000	16.414	4.661	4.940	11.474
923 924 925	592,000	16.163	4.272	5.281	10.882
924 925	593,000	15.153	4.117	4.843	10,320
925	597,000	14,598	4.160	4.907	9,691
000	602,000	15.014	4.363	4.717	10.297
	608,000	14,455	4.498	5.156	9.299
DOT	633,000	14.897	4.707	5.059	9,838
000	658,000	15.692	5.776	5.699	9,993
000	684,000	16,924	6.004	6.239	10.685
000	708,000	17,649	5.334	5.396	12.153
001	 732,000	17.252	5.142	5.302	11.950
000	 740,000	16.990	5.054	5.521	11.469
onn	748,000	16.123	5.389	5.346	11.093
004	756,000	16.236	6.053	5.337	10.899
OOF	770,000	16.183	6.010	5.729	10,855
one	772.782	15.786	6.020	6.147	9,639
OOM	778,000	15.903	6,345	6.261	9,642
one	 783,000	15.891	6.973	5.871	10.020

### POPULATION, BIRTH, MARRIAGE AND DEATH RATES, 1938

Population	783,000
Birth Rate per 1,000	20.3
Marriage Rate per 1,000	8.9
Death Rate per 1,000	7.5

#### RATIO OF MALE TO FEMALE BIRTHS. AND OF BIRTHS TO DEATHS

Year	Births of Males to 1.000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths
905	1.059	3.11	1922	1.034	3.06
966	1.004	2.07	1923	1.072	3.13
907	1.075	2.96	1924	1.036	2.97
908	1,077	2.73	1925	1.042	3.18
909	1,086	2.59	1926	1,053	2.80
910	1.065	2.69	1927	1,065	2.94
911	1,103	2.43	1928	1,064	2.75
912	1,084	2.43	1929	1,042	2.71
913	1.053	2.67	1930	1,027	3.21
914	1,081	3.30	1931	1,075	3.25
915	1,100	3.47	1932	1,052	3.08
916		3.29	1933	1,053	3.01
917	1,061	3.25	1934	1.032	3.04
18		1.88	1935	1,055	2.81
919	1.074	2.56	1936	1,049	2.57
920		2.92	1937	1.019	2.38
921	1,055	3.32	1938	1.046	2.70

