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

#### **Contributors**

Alberta. Department of Public Health.

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# ANNUAL REPORT

OF THE

# Department of Public Health

PROVINCE OF ALBERTA

INCLUDING

# Vital Statistics Branch

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

PRINTED BY W. D. McLEAN, KING'S PRINTER





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Edmonton, December 15, 1934.

To His Honour

W. D. Walsh,

Lieutenant Governor of the Province of Alberta.

SIR,-

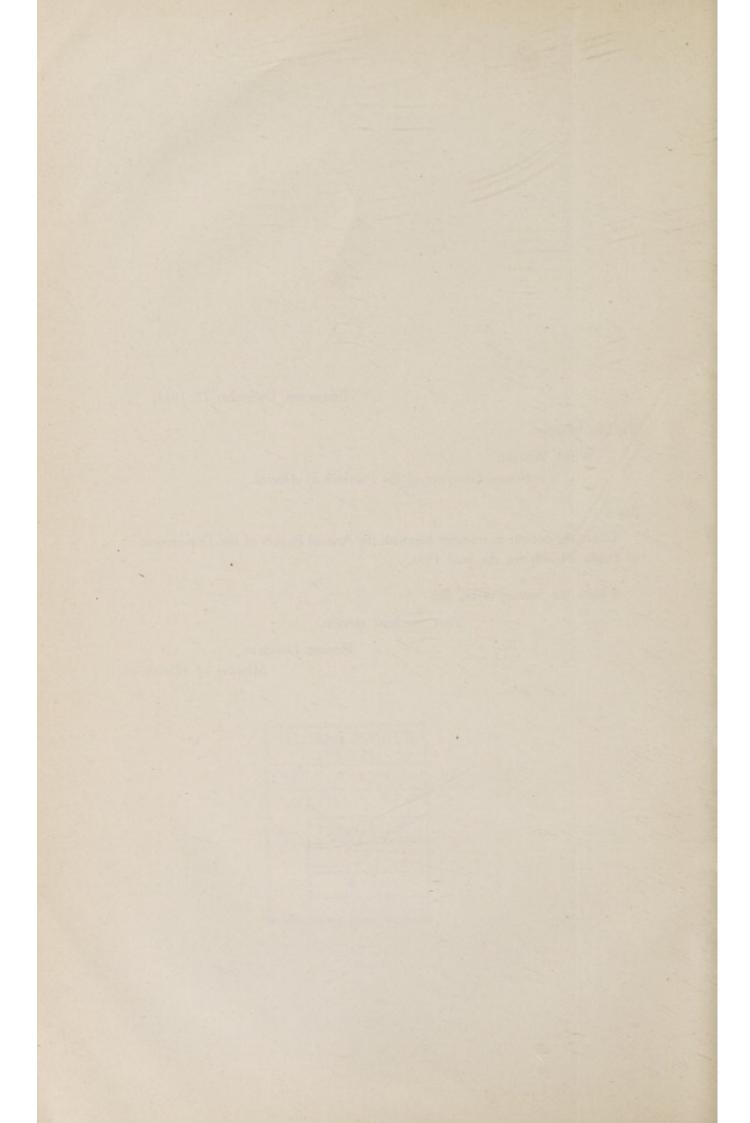
I have the honour to transmit herewith the Annual Report of the Department of Public Health for the year 1933.

I have the honour to be, Sir,

Your obedient servant,

George Hoadley,

Minister of Health.



Edmonton, December 15, 1934.

To The Honourable George Hoadley, Minister of Health,

Parliament Buildings, Edmonton, Alberta.

SIR,-

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

I have the honour to be, Sir,

Your obedient servant,

MALCOLM R. Bow, M.D., C.M., D.P.H., Deputy Minister.

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# FIFTEENTH ANNUAL REPORT OF THE PROVINCIAL DEPARTMENT OF PUBLIC HEALTH, INCLUDING THE VITAL STATISTICS REPORT

#### 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.

  Psychopathic Ward, University Hospital.

  Provincial Auxiliary Hospital, Claresholm.

  Central Alberta Sanatorium, Calgary.
- 12. Vital Statistics Division.
- 13. General Administration.

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

#### THE ADVISORY COMMITTEE OF HEALTH

No meeting of the Advisory Committee of Health was held during the year.

#### REGULATIONS PASSED DURING THE YEAR

Public Health Regulations.

Re: Embalmers, passed August 14, 1933.

Re: Dentists—association of a dentist with a dental mechanic, passed June 26, 1933.

Re: The Hospitals Act—making reciprocal arrangements with the Province of Saskatchewan covering responsibility for certain residents of one province who are admitted to hospitals in the other province, passed March 18, 1933.

Re: The Hospitals Act—Section 46, covering submission of all specimens removed at operation to the Provincial Laboratory, was suspended April 22, 1933.

Re: The Mental Defectives Act—Provincial Mental Institute, Oliver, named as an Institute for care of mentally defective persons, June 26, 1933.

#### LEGISLATION PASSED DURING THE YEAR

The Mental Diseases Act, Amendment Act, 1933.

The Director or Superintendent is empowered to approve an order for the removal of a patient to an institution without waiting to inspect the actual certificates upon which the Justice of the Peace makes the order.

The Director is given authority to remove any patient in a psychopathic ward to any other hospital by order of the Attorney General or upon the

certificate of two medical practitioners and the direction of a Justice of the Peace.

The Mental Defectives Act, Amendment Act. 1933.

The Superintendent is given additional powers in discharging or releasing on parole any patient in an institution.

The period of residence in a municipality to make such municipality liable for the maintenance of a mental defective under The Child Welfare Act, is changed from one year to not less than six consecutive months.

The Minister may, upon the recommendation of the Superintendent, order the removal of a mental defective from one institution to another.

The Public Health Act, Amendment Act, 1933.

The Provincial Board of Health, with the approval of the Lieutenant Governor in Council, is given additional powers of regulation with respect to mausoleums, also power to make regulations as to the responsibility of local boards with respect to communicable diseases and as to persons infected with tuberculosis.

The Provincial Board may by regulation delegate to a local board such powers and authority of the Provincial Board as may be necessary to enable the local board to carry out the provisions of the Act.

The Municipal Hospitals Act, 1929, Amendment Act, 1933.

Where by any scheme provision is made by which a resident of the district who is not a ratepayer may become entitled to hospitalization in the hospital of the district at a fixed per diem fee upon payment of an annual sum, in case such resident has in any year become so entitled, and in any subsequent year ceased to be so entitled, the Board may in any subsequent year add to the amount of the annual fee payable by the resident a sum not in excess of the aggregate of the annual sums for all the years which have elapsed since the year he was last entitled.

The Minister is empowered to transfer any area included in a hospital district to any other hospital district without a vote of the ratepayers, upon being requested so to do by petition signed by sixty-five per centum of the resident ratepayers of the area and with the consent of the Board of the district from which the area is to be transferred and of the Board of the district to which the area is to be transferred.

Provision is made for the appointment of auditors and for the prescribing of their duties.

Upon the receipt of a petition signed by not less than twenty-five per centum of the resident ratepayers of any included area, the Minister may by Order appoint a Returning Officer and provide for the taking of a poll of those persons resident in the included area who are entitled to vote upon the following question, namely:

"Are you in favour of a proposal whereby-

- (a) any patient who is a resident of that part of (name of municipality) which is included in (name of hospital district) and who is entitled to hospitalization in the hospital of the district at the rate chargeable to a ratepayer shall no longer be personally liable for the payment of the hospital charges at the rate aforesaid in respect of hospitalization received by him; and
- (b) the cost of hospitalization of all such patients not exceeding the aggregate amount chargeable in respect thereof calculated at the rate chargeable to ratepayers shall be added to the portion of the annual expendi-

The vote shall be taken in the same manner as nearly as possible as if it were a poll to ratify or reject a hospital scheme, but the Minister may give any contrary or other directions which may seem to him to be necessary or convenient.

If upon the taking of a vote it is made to appear to the Minister that more than sixty-six per centum of all the persons who voted thereon voted in favour of the proposal, he may by Order published in The Alberta Gazette declare that from and after a day to be mentioned therein—

- (a) any patient who is a resident of that part of (name of municipality) which is included in (name of hospital district) and who is entitled to hospitalization in the hospital of the district at the rate chargeable to a ratepayer shall no longer be personally liable for the payment of the hospital charges at the rate aforesaid in respect of hospitalization received by him and
- (b) the cost of hospitalization of all such patients not exceeding the aggregate amount chargeable in respect thereof calculated at the rate chargeable to ratepayers shall be added to the portion of the annual expenditures of the hospital district payable by the included area and be levied as a part of the ordinary hospital taxes leviable in the included area.

Upon the making and publication of any Order by the Minister as last aforesaid, from and after the day mentioned therein the cost of hospitalization in the hospital of the district of all patients resident in the included area, not exceeding the aggregate amount chargeable in respect thereof, calculated at the rate chargeable to ratepayers shall be ascertained and fixed by the Board and shall be paid by a levy upon all the property in the included area liable to assessment and taxation for the purposes of this Act; and upon the Board making a requisition upon the contributing council in respect of the included area for that part of the estimate attributed to it, the Board shall add to the amount of the part aforesaid the total amount of the hospitalization costs of the resident patients of the included area for the previous calendar year and thereupon the amount to be levied and collected by the contributing council for hospital tax pursuant to Section 68 of this Act shall be increased by the amount of the charges for hospitalization added thereto as aforesaid.

In case in any included area any manufacturing or mining industry is carried on, the Board of directors may, at any time before the making of any Order by the Minister under the provisions of this section by resolution, request the Minister to declare the area to be an industrial area, and the Minister may, upon being advised of the passing of any such resolution, if in the circumstances he deems it convenient and proper so to do, declare the included area to be an industrial area accordingly, and thereupon the foregoing provisions of this section shall not apply therein.

The Public Health Act, Amendment Act No. 2, 1933.

The Provincial Board may, subject to the approval of the Lieutenant Governor in Council, make and issue rules and regulations providing for the terms and conditions upon which a dentist registered under The Dental Association Act may enter into and remain in an association with persons who are dental mechanics and who are not registered under this said Act, and to make rules and regulations governing the conduct of persons so associated.

Any dentist who enters into and remains in an association with a dental mechanic upon terms and conditions approved by the Provincial Board and who conforms with the rules and regulations of the said Board governing the persons so associated, shall not be deemed to be guilty of any offence of any professional misconduct within the meaning of The Dental Association Act by reason of his being so associated or by reason of anything done by him or his associates in conformity with such rules and regulations.

TABLE No. 1 DEPARTMENT OF PUBLIC HEALTH

F	INAN	CIAL STATEMENT FOR THE FISC	CAL YEAR END	DING MARCH	31st, 1934
Div.	Vote.	Name.	Salaries.	Expenses.	Revenue.
1.	605.	Communicable Diseases	\$ 3,879.61	\$ 11.724.19	\$ 501.55
2.	602.	Public Health Education	2.000.00	757.40	
3.	603.	Hospital Inspections	4.881.51	1.521.41	***************************************
		Grants		382,706.50	
4.		Laboratory			
5.	606.	Public Health Nursing and Clinics	26,300.82	6.794.84	2.304.40
6.	608.	Municipal Hospitals	3,950.00	796.99	
7.	610.	Social Hygiene	8.760.19	7.249.80	
8.	605.	Sanitary Engineering and Sani-			
		tation	10.510.69	14,569.27	210.00
9.		Dental Hygiene		613.75	
10.	622.	Mental Hygiene	7.475.35	12.011.94	
11.		Institutions:			
	614.	Prov. Mental Hospital, Ponoka	271.215.04	117.131.77	136.641.52
	623.	Prov. Auxiliary Hospital, Clares-			
		holm	7.210.79	5.861.48	1.993.07
	612.	Prov. Mental Institute, Oliver	74.537.12	31.195.32	31,393.41
	613.	Prov. Training School, Red Deer	49.630.92	19.683.64	40,135.00
	604.	Central Alberta Sanatorium.			
		Calgary	113.347.87	54,579.97	112.045.66
	619.	University Hospital		20,000.00	
12.	607.	Vital Statistics	14.860.95	4,948.64	35.444.37
	611.	Grants to Homes		3,500.00	
		Administration	13,710.97	11,899.22	2,195.48
				-	-
			\$612,263.83	\$707,546.13	\$362,864.40
	TOT	AL-Public Health Administration.		\$1.21	9,809.96
		AL—Public Health Revenue			2.864.46
	101	AL-Fubile Health Revenue			2,001.10
	TOT	AL-Public Health Net Cost		\$ 95	6.945.50
	101	The Labor Met Cost		9 50	0,010.00

#### General Health Conditions.

The favourable health conditions experienced during the last three years have been maintained in 1933, so that 1933 takes rank as one of the most satisfactory years in the history of the Province. No serious outbreaks of acute communicable diseases occurred during the year, with the exception of an outbreak of Whooping Cough. Fifty-five deaths were reported from Whooping Cough as compared with 34 deaths from this disease in 1932. Whooping Cough must be regarded as a communicable disease of major importance when one considers the number of deaths for which it is responsible. Of the 55 deaths from Whooping Cough, 48 were of children under three years of age.

Vital statistics registrations during 1933 were as follows: Births, 16,123; marriages, 5,389; deaths, 5,346.

In the following table the number of births and the birth rate, the number of marriages and the marriage rate, and the number of deaths and the death rate for each of the years from 1929 to 1933 is shown:

Year 1929 1930 1931	No. of Deaths 6,239 5,396 5,302	Death Rate 9.65 8.33 7.24	Year 1932 1933	No. of Deaths 5,521 5,346	Death Rate 7.46 7.06
Year 1929 1930 1931	No. of Births 16,924 17,649 17,252	Birth Rate 26.19 26.74 23.57	Year 1932 1933	No. of Births 16,990 16,123	Birth Rate 22.96 21.33
Year No. o. 1929 1930 1931	f Marriages Ma 6,004 5,334 5,142	9.29 8.08 7.02	Year No. of 1932 1933	Marriages M 5,054 5,389	farriage Rate 6.83 7.10

The birth rate for 1933 is the lowest recorded in the history of the Province, and shows a reduction of 1.63 as compared with the birth rate for the previous year. The death rate for 1933 of 7.06 is the lowest on record and is .40

below the death rate for the previous year. These rates are based on an estimated population of 757,000 (the estimate of the Dominion Bureau of Statistics).

The combined death rate (deaths per 100,000 population) for diphtheria, scarlet fever, measles and whooping cough is 9.5, as compared with the rate of 8.3 for 1932 and 17.3, the average rate for the last five years. The decline in the number of cases of and deaths from diphtheria, to which reference was made in the report of 1932, has continued. In 1933 only 32 cases of diphtheria were reported, and 6 deaths were registered as due to this cause, giving a diphtheria death rate of .79 per 100,000 population, the lowest rate ever recorded in the Province. The rate for 1932 was 1.3. Diphtheria can now be practically eliminated in any community if advantage is taken of the means if immunizing children, and particularly children of pre-school age. The toxoid used for the purpose of immunization is supplied free of charge by the Department, 2nd as the procedure is comparatively simple, there is no reason why every child in the Province should not be protected. There are still, however, many districts in the Province in which no action has been taken by local authorities to safeguard the children against this highly dangerous, but entirely preventable disease.

Only one case of smallpox was reported during the year. While smallpox did not present any problem in 1933, the fact that we have a large unvaccinated population in Alberta gives us cause for real concern. When a severe type of smallpox breaks out in an unvaccinated community the result is almost certain to be serious, both for the persons affected and the community. We pay a high price in sickness and death for our indifference to, and neglect of the means of prevention. In the outlying districts 2,323 persons were vaccinated against smallpox and 1,982 inoculated against diphtheria by one of our inspectors who devotes part of his time to this work.

Typhoid fever cases reported during the year numbered 46, and 6 deaths were reported from this disease, giving a typhoid death rate of .79. This marks the lowest rate we have ever experienced. I desire to again emphasize the great risk of utilizing raw water, drawn from streams and irrigation ditches, for domestic purposes. Typhoid carriers present a public health problem of considerable importance, and are doubtless responsible for the sporadic cases of typhoid, the source of which it is frequently impossible to determine.

Influenza was responsible for 223 deaths in 1933, as compared with 297 in 1932. Pneumonia (all forms) was responsible for 327 deaths, as compared with 362 deaths in 1932.

#### Tuberculosis.

Three hundred and ninety deaths were reported from tuberculosis in 1933, as compared with 401 deaths in 1932. Of these 390 deaths, 305 were due to pulmonary tuberculosis. The death rate from tuberculosis was 51 per 100,000 population and 40.3 from the pulmonary type of the disease. Excluding deaths of Indians, the total deaths from all forms of tuberculosis in 1933 numbered 207, giving a death rate of 27.8 per 100,000 population.

The total Sanatorium accommodation available for the treatment of tuberculous patients is 230 beds; 382 patients suffering from tuberculosis were admitted to the Sanatorium and 615 to general hospitals during the year. Having in mind the delay which frequently occurs in persons suffering from tuberculosis seeking medical advice, and having in mind the length of time patients requiring Sanatorium treatment have to wait until Sanatorium accommodation is available, and in view of the fact that those suffering from open types of tuberculosis are a menace to the other members of their families, as well as to those with whom they come in contact in the community, this is, in my opinion, the most serious public health problem confronting us today. Diseases of the Heart and Circulatory System.

Diseases of the heart accounted for 749 deaths, or 14.01% of the total deaths registered, and diseases of the circulatory system for 295 deaths, or 5.5% of all deaths registered in the Province in 1933. Of every 1,000 deaths registered, diseases of the heart and circulatory system were responsible for 195. As the age distribution of our population changes and more and more of our people are found in the older age groups, we will experience an increase in the death rate from diseases of the heart and circulatory system.

By means of the medical examination of all children, both school and preschool, through the correction of the defects so found and through provision for the treatment advised, much can be done to reduce the number of potential victims of heart disease. In this connection I also desire to urge the importance of the periodic medical examination of adults. When all persons attaining 40 years of age make it a rule to have a thorough examination by a competent physician each birthday and act on the advice given, a large number of deaths from diseases of the heart and circulatory system will be prevented or postponed.

Cancer.

There were 590 deaths reported from cancer in 1933, an increase of 51 deaths over 1932. The cancer death rate is 79.3 per 100,000 population, as compared with 72.8, the rate for 1932. Cancer accounted for 11% of the deaths registered in 1933, ranking second as a cause of death. It is estimated that not less than 40% of the deaths from cancer could be prevented if all cases could be discovered in the earliest stages and given prompt and efficient treatment.

As in previous years, the Department has co-operated with the Cancer Committee of the Alberta Medical Association in connection with its educational programme. There were 695 reports on cancer cases submitted by physicians and hospitals during the year, and a summary of the information contained in these reports has been prepared by the Department.

Deaths by Violence.

Deaths due to violence (suicides excepted) numbered 378, or 7% of the total deaths registered in 1933, ranking as the third principal cause of death. In the following tables the deaths by violence are classified:

#### TABLE 1

Homicides Attack by venomous animals Food poisoning	. 2
Accidental absorption of toxic gases	. 8
Other acute accidental poisonings (except by gas)	. 5
Conflagration	. 16
Accidental burns (conflagration excepted)	. 26
Accidental mechanical suffocation	
Accidental drowning Accidental injuries by firearms	22
Accidental injuries by cutting instruments	. 6
Accidental injuries from falling, crushing or landslides	172
Cataclysm	. 1
Injuries inflicted by animals	
Hunger or thirst	
Excessive cold Excessive heat	. 8
Accidental electric shocks	2
Other accidents	. 14
Violent death (accident, suicide or homicide), unknown	. 1
Capital punishment	
TABLE 2	
SPECIAL CLASSES OF ACCIDENTAL DEATH INCLUDED IN THE TABLE	
Accidents in mines and quarries	
Accidents caused by machines	
Railways accidents Street car accidents	
Automobile and motor cycle accidents	. 64
Other land transportation	24
Water transportation	
Air transportation	1

Accidental injuries by falls accounted for 101 deaths and transport (chiefly highway accidents) for 112 deaths, and drowning for 51 deaths. These three accounted for 72% of all violent deaths registered in 1933.

When we consider the number of deaths due to highway accidents, namely 88, we realize the need of a well planned campaign of education in this field. By means of education, regulation and the careful planning of highways much can be done to prevent highway accidents and to reduce the large number of preventable deaths from this cause.

The number of deaths from suicides was 85, as compared with 96 deaths from this cause in 1932, a reduction of 11.4%.

#### Infantile Mortality Rate.

Deaths of children under one year of age numbered 966, as compared with 997 in the previous year. The infantile mortality rate for 1933 is 59.9 as compared with 58.6, the rate for 1932, and 69.08, the average rate for the five-year period 1928 to 1932. We have pointed out in previous years that the infantile mortality rate in the rural districts and the towns and villages is, generally speaking, considerably higher than the rate in the larger cities in which full time public health service is available. In 1933 the average infantile mortality rate for the rural districts was 65.2, and for the cities of the Province 48.1. Of the 966 deaths of children under one year of age, 383 occurred within the first week of life and 547 within the first month. The principal causes of infantile deaths were as follows:

Prematurity	249
Respiratory	140
Gastro-intestinal	88
Acute contagious	100

The need of full time local health services in our rural districts, including towns and villages, becomes evident from a study of the causes of infantile deaths in these districts. It would be quite conservative to say that not less than one-third of these deaths could be prevented were an adequate full time local health service available throughout the Province.

#### Maternal Mortality.

Seventy-three deaths of women were registered in 1933 as due to conditions associated with childbirth. This represents the deaths of 4.53 mothers for every 1,000 births as compared with a maternal death rate of 3.76 in 1932, and 5.41, the average death rate for the five-year period 1929 to 1933. When more adequate pre-natal as well as post-natal care is available in every part of the Province, it will be possible to show a material reduction in the maternal mortality rate. The establishment of full time rural health units in which such care is included as a part of the local health programme is the logical way of dealing with this problem.

#### Full Time Health Districts.

The work of the Red Deer and the Foothills Full Time Health Districts, which were established on June 1, 1931, has been conducted along the same lines as in previous years. The staff of each of these units is composed of a medical officer of health who has received special training in public health to qualify him for his duties, two graduate nurses with special training in public health nursing, one sanitary inspector with special training and experience in this work, whose time is divided between the two units, and one stenographer who has been trained as a laboratory-technician, and is responsible for the office work and the keeping of records.

These two full time health units were established as demonstration units for the purpose of determining whether, through the operation of such units, a solution could be found for the health problems of our rural districts and smaller urban centres. Each unit has been fortunate in the selection of a competent staff, and the work has gone forward in a very satisfactory manner.

The following is a summary of the work of each of the units for the year 1933:

	Foothills (High River)	Red Deer
EDUCATIONAL:	The state of the s	
Lectures		245
Attendance at above	2,206	2.188
Letters	2,104	1,877
Conferences	130	600
SANITATION:		
Inspections, public and private premises	1.160	729
CHILD HYGIENE:		
Babies and pre-school children examined	899	690
School visits		435
School children examined	2.574	1.985
Home visits	291	184
LIFE EXTENSION EXAMINATIONS		254
	240	201
COMMUNICABLE DISEASES:	104	015
Visits to cases and contacts	104	215
TUBERCULOSIS:		1000
Cases examined	64	124
Visits to homes	3	151
IMMUNIZATION:		
Diphtheria inoculations	675	1,917
Smallpox vaccinations		654
LABORATORY EXAMINATIONS:	766	578

#### Public Health Educational Work.

Notwithstanding the reduction in funds available for travelling, and for the purchase of educational material, the programme in health education carried out in 1933 was an extensive one. As in previous years, by means of lectures, exhibits, radio talks and the distribution of public health literature, the value of preventive health measures has been stressed. By greatly improving the Public Health Education division as a bureau of information, it has been possible to serve more people than in any previous year. During the year a total of 162 lectures was given in 75 places, at which the total attendance was 31,671. The subjects of the lectures included health habits, sanitation, communicable diseases, food, child welfare, sex hygiene, mental hygiene and social hygiene. Radio health talks were broadcast over CKUA every second week during the fall, winter and spring months. Eleven monthly health bulletins were published by the Department during the year and distributed to all local boards of health in the Province. Health educational work is of fundamental importance, and the Department is faced with an increased demand each year for the extension of this service.

#### Public Health Nursing and Child Welfare.

A public health nurse is in charge of each of the following Child Welfare Clinics: Edmonton, Calgary and Medicine Hat, and devotes her whole time to the work of the clinic. Local physicians giving special attention to pediatrics are in attendance at these clinics each week; 14,162 children were examined at these clinics, and 7,925 home visits were made by the nurses. Owing to the reduction in funds available it was necessary to reduce the services of the Travelling Child Welfare Clinic. During the summer months this clinic visited 32 centres, at which 748 babies and pre-school children were examined. As in previous years public health nurses served each of the following municipalities: Norma Municipal District No. 515, with Vegreville as a centre; Marquis Municipal District No. 157, with Milo as a centre; and Richdale Municipal District No. 274, with Stanmore as a centre. A generalized public health nursing service is given by the public health nurses stationed in these districts.

District physicians on the staff of the Department provided service in two outlying districts and district nurses in six outlying districts. The following districts were served by district physicians: Fort Vermilion, Notikewin, and the following by district nurses: Worsley, Valley View, Kinuso, Jarvie, Pendryl and Peers. These district physicians and nurses stationed in pioneer communities remote from hospital and medical services are engaged in a service which demands a strong physique and a high degree of courage, initiative and skill.

A detailed statement of the work of the Public Health Nursing Division is submitted in the report of this division.

Social Hygiene.

The work of this division, which has been very heavy during recent years again shows an increase over the previous year. As a result of economic conditions during recent years many patients who had been under treatment by private physicians are no longer able to pay for such service and now come to the Provincial clinics. The total number of cases of syphilis under treatment at all Provincial clinics in 1933 was 1,043, and the total number of cases of gonorrhoea 1,211.

As in previous years special attention has been directed to the early detection of neuro-syphilis and cardio-vascular syphilis, the two types of the disease which cause the greatest economic loss through incapacitation and early death. During the year the neurological examination of 500 syphilitic individuals was completed. We believe that this work will produce a marked reduction in the incidence of symptomatic neuro-syphilis in the years to come, and should result in a reduction in the number of cases of general paralysis of the insane admitted to our institutions.

#### The Provincial Laboratory.

The report of the Director of the Provincial Laboratory indicates that 63,203 examinations were made during the year. The work of the Provincial Laboratory includes the examination of water, ice, sewage and milk, the examinations required in connection with communicable diseases, examination of pathological material submitted by hospitals, chicken and cattle blood examinations, medico-legal examinations, post-mortem examinations and a number of other examinations too numerous to detail.

In addition, the Provincial Laboratory functions as a centre for the distribution of all vaccines and sera used in the prevention and treatment of communicable diseases. A highly efficient service is rendered by the laboratory staff to local boards of health, hospitals and physicians, which is of prime importance in safeguarding the public health. The commercial value of the work done free of charge by the laboratory in 1933, if minimum charges only had been made for the service, was \$132,424.60.

#### Sanitary Engineering and Sanitation.

All plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants as required under The Public Health Act were examined and, where approved, certificates were issued for the same. A statement of the works for which approval has been given will be found in the report of the Sanitary Engineering Division. Typical plans dealing with sewage disposal, heating, ventilation, water filtration, etc., have been prepared and distributed to those requesting information on these subjects. During the year 1,452 reports on the analyses of water and ice were received from the Director of the Provincial Laboratory. These were examined and, where necessary, action in the matter of prohibiting the use of the supply, was taken, or an investigation made for the purpose of advising as to a remedy.

We would again call attention to the great danger to the public in the use of untreated water drawn from streams and irrigation ditches. It is a matter of vital importance that municipal authorities should in their own interests as well as in the interests of their citizens take such steps as are necessary to provide safe water supplies. We also desire to draw attention to the responsibility of municipal authorities for the control of local milk supplies. Failure to exercise proper supervision and control over milk supplies invites epidemics of milk borne diseases. Two hundred and eighteen districts in the Province were visited and inspected by Departmental sanitary inspectors, and of these 74 were re-inspected; 63 lumber, tie, saw-mill and mining camps were also inspected during the year. There is a great need for the extension of the sanitary inspection service as soon as more funds can be made available. Municipal authorities have taken full advantage of the services of the sanitary inspectors, but with the very limited staff engaged in this work it has not been possible to give the time which should be given to follow-up work.

Dental Hygiene.

Dental treatment was provided for the patients in all Provincial institutions as in previous years.

While the Travelling Clinic was not sent out in 1933, a dental clinic was sent out on a limited itinerary which included six outlying points; 467 children were examined and 285 given dental treatment by the clinic. There is a great need for such service in our outlying districts.

Hospital Inspection.

There are 86 approved hospitals in the Province in receipt of the Government grant. Fifty-nine private hospitals were licensed under the provisions of The Private Hospitals Act, of which 11 were licensed as baby shelters. All hospitals were inspected during the year. The number of operations reported by hospitals in 1933 was 21,775, and the number of deaths following operations 444, giving a mortality rate of 2.04%. Splendid co-operation has been given by the management and the staffs of the hospitals in carrying out the requirements of The Hospitals Regulations. The difficult conditions of recent years have made it a serious problem for hospitals to maintain efficient service in face of the necessity of exercising the strictest economy. The hospitals of the Province deserve great credit for the way in which they have met the situation.

The total capacity of the approved hospitals, including the Central Alberta Sanatorium, is 4,565 beds, divided as follows: General 2,375, maternity 646, infants 630, isolation 281, tuberculosis 304, pediatrics 329. This represents one bed for every 165.8 of the population, or six beds per thousand population. Patients treated during the year numbered 64,697, representing 8.5% of the population of the Province. The average length of stay in hospital was 12.8 days. Excluding the Sanatorium, isolation, orthopedic and pension cases, the average length of stay was 11.3 days. The average cost per patient per day, excluding capital charges, for all approved hospitals was \$2.97 as compared with \$3.14, the average for 1932. Statements giving detailed statistical information in regard to the administration of approved hospitals will be found in the report of the Hospitals Division.

Municipal Hospitals.

There was no change in the number of municipal hospitals operated in 1933. The 22 municipal hospitals provided accommodation for 758 patients, including babies, and 14,958 patients were treated during the year. A detailed statement giving statistical information in regard to the operation of municipal hospitals will be found in the report of the Hospitals Division. In common

with other hospitals, municipal hospital authorities have had to carry on in face of very difficult economic conditions during recent years, but have faced their difficulties courageously, making every effort to give the best service possible with the funds available.

#### Central Alberta Sanatorium.

As in former years, the medical staff of the Sanatorium has provided a diagnostic service for the tuberculosis clinics held at the Sanatorium and in Calgary weekly, and for the Edmonton clinic, which is held fortnightly. Tuberculosis clinics were also held during the year in Medicine Hat, Lethbridge, Drumheller, Red Deer Health Unit and the Foothills Health Unit, High River. The annual survey was made at the Blood Indian Reserve near Cardston, 266 children being examined. A total of 1,438 persons were examined at all clinics during the year, and 102 new cases of tuberculosis diagnosed at these clinics. The extension of the diagnostic service is an urgent need, as is also the provision of increased accommodation for patients discovered through the clinics, and particularly those who are spreaders of infection.

Mental Health Division.

TABLE No. 1 MOVEMENT OF PATIENTS-MENTAL INSTITUTIONS, 1933

No inches	On Books Jan. 1, 1933					issions g 1933	Disch	arges g 1933		aths g 1933		Books 1, 1933
	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental		
Oliver Ponoka Red Deer Claresholm Psychopathic	407 1161 0 0	17 56 190 0	*16 425 0 95	0 38 38 5	†8 ‡363 0 0	0 26 16 0	8 61 0 0	0 4 5 0	407 1162 0 95	17 64 207 5		
Ward	15	0	31	0	44	0	2	0	0	0		
Total	1583	263	567	81	415	42	71	9	1664	293		

\*Included in 16 admissions, 5 transfers from Ponoka. †Included in 8 discharges, 1 transfer to Ponoka.

Discharges included-

(1) 61 cases not psychotic (admitted for malarial treatment, drug addiction, etc.).
(2) 100 cases to Claresholm.
(3) 2 mental defectives admitted from Red Deer for sterilization.

The preceding table shows that there was an increase of 111 in the patient population in Provincial mental institutions during the year. On December 31st, 1933, the patient population stood at 1,957, of which 1,214 were males and 743 females. The ratio of patients to population in Alberta is still well below the average of the other provinces as well as the average for the United States. As this is a ratio which tends to become relatively constant, a further increase in the number of patients making application for admission to the mental hospitals may be expected.

On October 31st and November 2nd, 100 female patients were transferred from the Provincial Mental Hospital at Ponoka to the Auxiliary Hospital, which was established at Claresholm and which was formally opened on November 8th. While this afforded considerable relief in so far as overcrowding in the women's section of the hospital at Ponoka is concerned, the overcrowding in the men's section was even more acute at the end of the year than at the beginning. There is urgent need for a new reception unit fully equipped for the treatment of patients suffering from acute manifestations of mental disease. With such facilities available early mental cases could be cared for in the most suitable surroundings and given the benefit of the most modern methods of treatment.

On May 31st the first group of psychiatric nurses and attendants was graduated from the Provincial Mental Hospital Training School. This event may be said to mark a very important forward step in the history of our mental hospitals.

The patient population at the Provincial Mental Institute at Oliver remained the same at the end of the year as at the beginning, namely, 424. These patients are practically all of the chronic type, 14% having been patients in Alberta mental hospitals for a period of 20 years or more.

Owing to the necessity of further reducing expenditures it became necessary to close the Psychopathic Ward of the University Hospital on March 31st. As noted in the report of last year, the opening of this ward marked an important forward step, and it is to be hoped that improved economic conditions will soon make possible the re-establishment of this service. During the three months this ward was in operation in 1933, 31 patients were admitted, of which number 27 were first admissions and 4 re-admissions; 144 consultations, exclusive of the examinations, were carried out by the Director in charge of this service, Dr. C. A. Baragar.

The accommodation in the Provincial Training School for Mental Defectives at Red Deer was increased by 6 beds during the year, and at the end of the year stood at 210 beds. This institution continues to be filled to the limit of its capacity, and there is a long waiting list, 75% of the patients are of the low grade type and requiring a maximum of nursing care and supervision. The need for increased accommodation is urgent both for patients of the low grade type requiring custodial care and for the higher grades, many of whom by means of proper training could be made largely self-sustaining. There were 36 new patients admitted to the Training School for Mental Defectives—18 male and 18 female patients.

#### Mental Hygiene Clinics.

These clinics continue to serve a most useful purpose, and the work has followed much the same lines as in previous years. A new clinic was opened at Medicine Hat on November 17th, and is held quarterly. Clinics are now established in Edmonton, Calgary, Lethbridge and Medicine Hat, but there is an urgent need for the extension of this service as soon as improved economic conditions make this possible. There were 326 new cases presented at the various mental hygiene clinics and 332 follow-ups dealt with, making a total of 658 cases dealt with by the clinics. Since this service was established in 1929, a total of 2,708 cases have been presented.

#### The Eugenics Board.

The work of this Board is carried on under the authority of The Sexual Sterilization Act, which was assented to on March 21st, 1928. Four meetings of the Board were held during the year. These included three sessions in Edmonton, four at the Provincial Mental Hospital, Ponoka, two at the Provincial Training School, Red Deer, and two at the Calgary General Hospital. There were 91 cases, of which 35 were male patients and 56 female, presented to and passed by the Board, making a total of 288 cases which have been passed since the Board was constituted in 1929; 72 operations, 22 male and 50 female, were performed during the year, bringing the total number of operations performed since this work was undertaken to 205, of which 48 were male and 157 female cases. This work has gone forward in a most satisfactory manner. The Board has discharged the responsibilities imposed on it under the provisions of The Sexual Sterilization Act, in a most painstaking and efficient way. Our experience in this field has demonstrated the need for such legislation in a mental hygiene programme.

General Administration.

A statement of expenditures and revenue for the fiscal year ending March 31st, 1933, is included in this report. An analysis of said statement indicates that out of a total expenditure of \$1,319,809.96, the sum of \$1,170,087.71 was expended for the maintenance and operation of Provincial institutions, grants to approved hospitals and homes and other treatment services. Only \$149,722.25, or approximately 11.3%, of the total funds were expended for preventive public health activities. This means that out of every dollar expended by the Department in 1933, only 11 cents was spent for preventive public health services. There is an urgent need for the expansion of preventive public health work, and it is earnestly hoped that an improvement in economic conditions may soon make this possible.

In concluding this brief review of some of the more salient features of the work of the Department in 1933, I desire to express my sincere appreciation of the splendid co-operation given throughout the year by the directors of the various divisions and their staffs, including the superintendents of our Provincial institutions and all those working under their direction.

All of which is respectfully submitted.

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

### Communicable Disease Division

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

The chief function of this division is the prevention of communicable diseases.

During the year educational work has been carried on through the press and by the distribution of literature prepared in the Department. Also a number of public lectures and radio talks on some phase of disease prevention have been given.

The interest evidenced in public health work by individuals, local boards of health and school boards during the past year has been very gratifying indeed. This increased interest is a decided incentive to us in the development of our educational programme.

At the request of local doctors and local boards of health, assistance has been given in the diagnosis of suspected cases of communicable diseases and in problems epidemiological in nature.

Mr. Zalizniak, health inspector, has done a considerable amount of public health work in districts so remote from a doctor that this type of service could not otherwise be obtained. In these districts the health inspector has inoculated 1,982 against diphtheria and vaccinated 2,323 against smallpox. He has also lectured at 19 points.

In connection with vital statistics work, Mr. Zalizniak has visited 33 local registrars and 38 cemetery caretakers.

During the past few years our provincial morbidity and mortality rates from communicable diseases have been decreasing materially. The year 1933 shows a decrease over 1932 in many of the communicable diseases. With interest in public health growing throughout the Province, we may hope for the increased municipal appropriations necessary to maintain an efficient health service. Such appropriations will be reflected in the better health of the community.

#### TABLE No. 1 COMMUNICABLE DISEASES AS REPORTED FOR 1932 AND 1933

#### 1932 1933 Acute Anterior Poliomyelitis Meningococcic Meningitis 39 31 Chickenpox 1.594 Diphtheria 51 33 Encephalitis Lethargica Erysipelas Rubella 10 211 267 Measles 7,382 Mumps Scarlet Fever 202 216 Smallpox Pulmonary Tuberculosis Typhoid Fever Paratyphoid Fever 216 Whooping Cough 1.830 Actinomycosis Undulant Fever

#### TABLE No. 2

## TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA DURING THE YEAR 1933

Or removed .			
Pneumonia (all forms)	327	Whooping Cough	55
Influenza (all forms)	223	Diphtheria	6
Pulmonary Tuberculosis	305	Meningococcal Meningitis	7
Tuberculosis (all other forms)	85	Typhoid Fever	6
Erysipelas	17	Poliomyelitis	7
Scarlet Fever	5	Smallpox	
Encephalitis Lethargica	7	Measles	6

	TABLE No. 3	
DEATHS DUE TO	COMMUNICABLE DISEASES IN AND CALGARY DURING	OF EDMONTON

	CALGARY	
42	Pneumonia (all forms)	36
34		
17		
	Meningococcic Meningitis	
î	Typhoid Fever	
Â	Ervsinelas	1
	Scarlet Fever	
1111		
ABLE	No. 4	
DIST	ASES IN THE SMALLER CITIES, TRICTS DURING THE YEAR 1933	rowns,
192	Meningococcic Meningitis	6
	Erysinelas	11
109	Typhoid Fever	
39	Scarlet Fever	5 5 2
	Encephalitis Lethargica	2
ABLE	No. 5	
		INCE
57	Meningococcic Meningitis	
	Typhoid Feyer	
148		
	Scarlet Fever	
	26 34 17 6 6 1 1 4 4 2 ABLE DISE DISTF 192 109 39 5 27 5 ABLE	42 Pneumonia (all forms) 26 Influenza (all forms) 34 Pulmonary Tuberculosis 17 Tuberculosis (all other forms) 1 Diphtheria 6 Whooping Cough Poliomyelitis 1 Meningococcic Meningitis 1 Typhoid Fever 4 Erysipelas Scarlet Fever Encephalitis Lethargica Measles Smallpox  ABLE No. 4  DISEASES IN THE SMALLER CITIES, 7 DISTRICTS DURING THE YEAR 1933 192 Meningococcic Meningitis 152 Erysipelas 109 Typhoid Fever 39 Scarlet Fever 5 Encephalitis Lethargica 27 Measles 5 Smallpox  ABLE No. 5  DMMUNICABLE DISEASES IN THE PROVIALBERTA, 1933 57 Meningococcic Meningitis 21 Typhoid Fever 148 Erysipelas

#### .... Smallpox

Measles

Encephalitis Lethargica

# TABLE No. 6 MORBIDITY, MORTALITY AND CASE FATALITY RATES IN THE MORE COMMON COMMUNICABLE DISEASES FOR THE YEAR 1933

20

Diphtheria Whooping Cough Poliomyelitis

	Total cases	Total	Morbidity rate	Mortality	Case Fatality rate
Acute Anterior Poliomyelitis	31	deaths	4.09	0.92	22.58
Comphys eninal Maningitis	7	7	0.92	0.92	100.00
Proumonia (all forms)		327	0.52	43.18	100.00
Influenza (all forms)	*******	223	recomment.	29.45	
ATTACABLE COLL EVALUED,	010	223	90 59	AND DE L'ANDE	
Pulmonary Tuberculosis	216	303	28.53	40.29	
Pulmonary Tuberculosis (exclusive of				00.70	
Indians)	********	157		20.73	**********
Diphtheria	33	6	4.34	0.79	18.75
Whooping Cough	1.830	55	241.79	7.26	3.00
Smallpox	1		************		
Typhoid Fever	46	6	6.07	0.79	13.04
Erysipelas	53	17	7.00	2.24	32.07
Scarlet Fever	216	5	28.53	0.66	2.31
Encophalitic Tothangian	2	7	0.26	0.92	
Mumps	420		57.99	0.02	
	933		07.07	0.70	0.04
Measles	211	6	27.87	0.79	2.84
Population for 1933—757,000.					

In several of the above noted diseases the case rate is higher than that which prevails elsewhere. Probably certain cases have not been diagnosed, and possibly in a few instances diagnosed cases have not been reported.

A study of the above tables will reveal the fact that there has been an appreciable decrease in most of the communicable diseases for the year 1933.

With the exception of tuberculosis, whooping cough now constitutes our most serious communicable disease problem. Until a means of conferring an active immunity against the disease is made available, we will have to depend upon the early isolation of cases and contacts to prevent its spreading. The use of Pertussis vaccine seems to be of some value when used for contacts and also in the treatment of cases in the early stages of the disease.

Whooping cough is very serious in infants and young children, and every effort should be made to prevent them from contracting the disease.

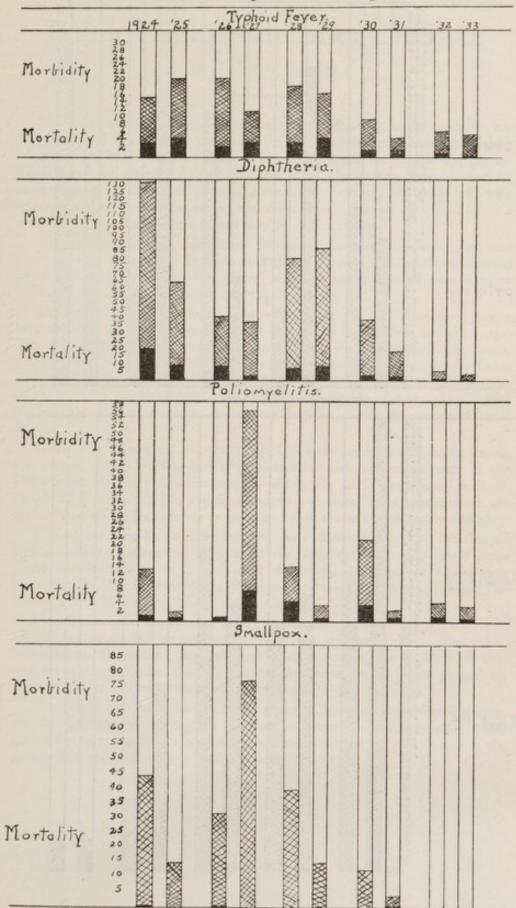
The better control of tuberculosis is another recognized public health problem. It is also a difficult problem from an economic point of view.

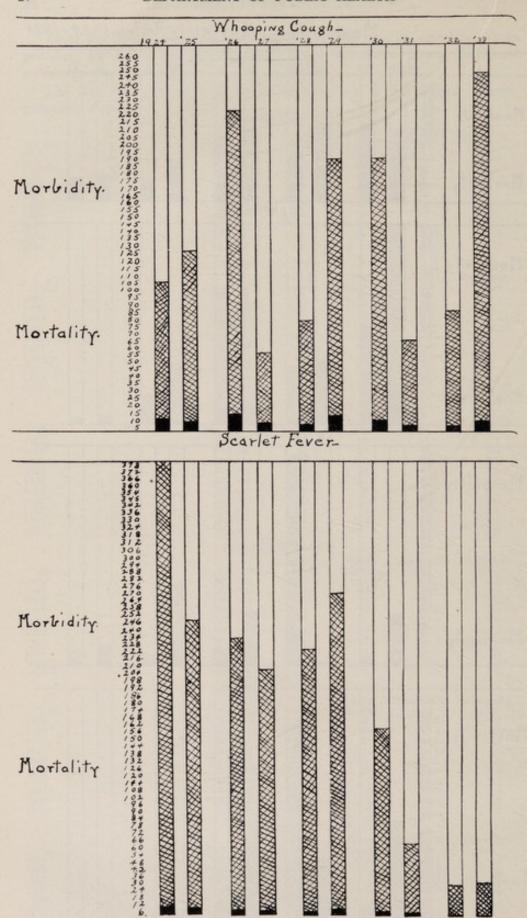
There has been a very gratifying response on the part of school boards in providing for vaccination against smallpox and inoculation against diphtheria at the expense of the district.

The year 1933 has been a very satisfactory one in the control of communicable diseases.

mun	icable diseases.					
		DIPHTE	IERIA			
			Total	Total	Morbidity	Mortality
Yea	r	Population	cases	deaths	rate	rate
1924		590,000	758	100	128	17
1925		600.000	395	62	66	10
1926		607.584	260	60	43	10
1927		620,000	235	18	38	3
1928		633,000	485	50	77	8
1929		646,000	578	64	88	10
1930		660.000 731.605	269 151	30 26	40 20	4.5 2.7
1931 1932		750.000	51	10	6.89	1.35
1933		757,000	32	6	4.23	0.79
1000		101,000		11 10 10	-	0
		TYPHOID	FEVER			
			Total	Total	Morbidity	Mortality
Yea	ar	Population	cases	deaths	rate	rate
1924		590,000	98	26	16	4
1925		600,000	127	27	21	5
1926		607.584	127	18	21	3
1927		620,000	75	23	12	4
1928		633,000	122	26	19	4
1929		646,000	114	31	17	5
1930		660,000	69	16	10	2
1931		731,605 750,000	42 52	16 9	5 7	2 1.21
1932 1933		757.000	46	6	6	0.79
1300		151,000	40			0.13
	ACUT	E ANTERIOR	POLIO	MYELITIS		
			Total	Total	Morbidity	Mortality
Ye	ar	Population	cases	deaths	rate	rate
1924	•••	590,000	83	10	14.1	1.7
1925		600.000	13	5	2.1	0.8
1926		607.584	2	5		0.8
1927		620,000	354	53	57.1	8.5
1928		633,000	92	35	14.6	5.6
1929		646,000	29	8	4.5	1.2
1930		660.000	150	32	22.7	4.8
1931		731,605	23	8	3.2	1.1
1932 1933		750,000 757,000	39 31	14	5.2 4.1	1.8 0.9
1000		151,000	31		4.1	0.5
		WHOOPIN	NG COUG	H		
			Total	Total	Morbidity	Mortality
Ye	ar	Population	cases	deaths	rate	rate
1924	***************************************	590,000	612	51	103.7	8.6
1925		600,000	763	43	123.8	7.1
1926		607,584	1,336	75	220.1	12.3
1927	***************************************	620,000	334	37	53.9	5.9
1928		633,000	492	37	77.7	5.8
1929 1930		646,000 660,000	1,214	70 52	187.9 188.8	10.8 7.8
1931		731,605	451	32	61.8	4.4
1932		750,000	665	34	88.6	4.5
1933		757,000	1.830	55	241.7	7.2
1000						
		SCARLET	FEVER			
0.70			Total	Total	Morbidity	Mortality
Ye	ar	Population	cases	deaths	rate	rate
1924		590,000	2,245	47	380.3	7.9
1925 1926		600,000 607,584	1,473	39 32	245.5	6.5
1927	***************************************	620,000	1.275	22	229.9 205.6	5.2 3.5
1928		633,000	1.397	24	220.7	3.8
1929		646,000	1,731	45	267.9	6.9
1930		660,000	1.028	31	155.8	4.7
1931		731,605	438	8	60.0	1.1
1932		750.000	202	4	26.9	0.5
1933		757,000	216	5	28.5	0.6
		SMALI	LPOX			
		DITTAL	Total	Total	Morbidit	Montelli
Ye	or	Population	cases	Total	Morbidity rate	Mortality
1924	ar	590,000	265	4	44.9	rate 0.6
1925		600,000	89	7 2 7 5 6	14.8	0.6
1926		607,584	202	2	33.2	0.3
1927		620,000	481	3	77.6	0.5
1928		633,000	254		40.1	
1929		646,000	94	****	14.5	****
1930		660,000	81		12.3	-
1931		731,605	27	1	3.7	01
1932		750,000	1	****	0.1	2000
1933		757.000	1	1111	0.1	****

## Morbidity and Mortality Rates 1924-1933.





### Public Health Education Division

(F. T. Cook, Lecturer)

Notwithstanding the very considerable reduction in funds available for travelling and for certain educational material, the programme in health education for 1933 surpassed that of any previous year in its essential phases. There were no special exhibits, and travelling was greatly reduced, but by concentrating on the more populous centres for lectures, by means of radio lectures, and by greatly improving the division as a bureau of information, a great many more people were served than in previous years.

The public and high schools of Edmonton, Calgary, Medicine Hat and Camrose were visited, and in these four places nearly 14,000 children received health education by means of talks and moving pictures. In all cases requests have been received for a repetition of the programme.

During the year 162 lectures were given in 75 different places to a total audience of 31,681 people, 26,250 of whom were children of school age. The chief districts covered were: Calgary, Camrose, the Coal Branch, Edmonton, High River, Okotoks, Lacombe, Red Deer, Medicine Hat, Peers, Smoky Lake, Tofield, Thorsby, Sunnybrook and Vermilion. The subjects of the lectures given included health habits, sanitation, communicable diseases, food, child welfare, the history of public health, sex hygiene, mental hygiene and social hygiene.

Radio talks were given over station CKUA every second week, except during the summer season, by members of the executive and professional staff of the Department and the various institutions, and by Dr. L. C. Conn and Dr. R. B. Leitch, of Edmonton. From various reports and direct correspondence we are assured that the radio audience is large and that the service is highly valued.

During the year 11 monthly bulletins were distributed by the Division of Communicable Diseases, the subjects of the bulletins being: Household Accidents, An Open Letter to Local Boards of Health, Our Children, Community Sanitation, Periodical Examination, Summertime Health, Whooping Cough, The School Term, Vegetables, The Common Cold and Goitre.

Health education has become a part of the work of every division of public health, and is no longer confined to any one set programme. The public health nurse, the sanitary inspector and other inspectors, the registrar of vital statistics, the psychiatrist, the hospital and the doctor are all educators and are indispensable in any comprehensive programme of health education.

The person who holds the key to the situation, however, is the school teacher, and this Department continues in its efforts to secure the co-operation of school authorities in giving health a greater place in the course of studies and in the general life and environment of the school.

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

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

During the year I visited and inspected 85 of the approved hospitals in the Province. The total number of inspections was 90.

The total number of operations, taken from the weekly hospital operation reports, was 21,775, and the number of deaths following operations was 444.

The following is a list of operations performed and deaths which occurred in the approved, municipal and private hospitals during the year 1933:

	Approved H.	100	Municipal H.	85	Private H.	- 10
	bud	eaths	ini	Deaths	N N	Deaths
	A.	De	W	De	Pr	De
GENERAL:	0.00					
Abscess	225	20	125	4	3	0
Adenectomy Adhesions	165	0 2	18	0	0	0
Albee's Operation	100	0	10	0	0	0
Amputation	292	5	50	1	1	0
Anus	9	ő	2	ô	ô	0
Appendectomy	2354	64	1175	21	28	2
Arthroclasis	1	0	0	0	0	0
Arthrodesis	26	0	0	0	0	0
Aspiration	34	0	0	0	0	0
Bone Graft	3	0	0	0	0	0
Bone Plating	2	0	1	0	0	0
Bowel	37	10	7	3	0	0
Bronchoscopy Bunionectomy	3	0	4	0	0	0
Cancer	111	37	15	7	3	2
Carbuncle	13	0	0	0	0	0
Cauterization	31	1	2	0	0	0
Cecopexy	15	0	. 0	0	0	0
Cholecystectomy	369	17	69	4	5	0
Circumcision	287	4	84	0	2 0	0
Colostomy	31	7	3	1		0
Craniotomy	2	0	0	0	0	- 0
Curetting	48	1	11	0	0	0
Cystectomy	371	0	3 8	0	0	0
Cystoscopy Cystotomy	96	9	2	2	0	0
Cyst	11	0	2	0	0	0
Decompresia	6	2	õ	ő	0	0
Dilatation	7	0	0	0	0	0
Dislocation	71	0	20	2	0	0
Epididymotomy	12	0	1	0	0	0
Examination	43	0	31	0	0	0
Excision	213	2	55	0	0	0
Extraction Teeth	427	0	105	0	1	0
Fasciotomy	6	0	0	0	0	0
Fistula Foreign Body	25 33	0	3 12	0	0	0
Foreign Body	797	5	193	3	0	0
Fracture Fulguration	18	0	0	0	0	0
Gastrectomy	3	0	2	1	Õ	ő
Gastroenterostomy	81	13	11	3	1	0
Gastrostomy	2	2	0	0	0	0
Hammer Toe	8	1	1	0	0	0
Hare Lip	29	0	1	0	0	0
Hemorrhoidectomy	141	0	29	0	0	0
Herniotomy	515	13	130	0	6	0
Hydrocele	54	0	28	0	0	0
Illeocolostomy Incision	280	0	0 66	0	0 2	0
Injection	56	0	5	0	0	0
Jejunostomy	17	2	1	0	0	0
		_				

	<b>H</b>		H			
	pproved		Municipal		Private H	
	0	Deaths	ie	Deaths	ate	Deaths
	dd	6.00	E .	ea	P.	ea
	<	А				
Laminectomy		33	79	9	0	0
Laparotomy Ligation		0	11	0	0	ő
Lithotomy	3	0	0	0	0	0
Lobectomy	20	0	7	0	0	0
Manipulation Nephrectomy		3	2	0	0	0
Nephrotomy	3	0	0	0	0	0
Neurectomy		0	0	0	0	0
Orchidectomy Osteoplasty		0	0	0	0	0
Osteomyelitis	51	2	13	1	1	0
Peritonitis Plactor Cost	18	0	18	0	0	0
Plaster Cast Plastic	0.0	0	0	0	0	0
Proctoscopy	25	0	1	0	0	0
Prostatectomy		20	11	1	0	0
Puncture Pyloroplasty		2 2	2	0	0	0
Removal	565	11	118	0	4	0
Repair		8	123	1	0 2	0
Resection Sequestrectomy		12	17	0	0	0
Sinusitis	7	0	0	0	0	0
Skin Graft	27	0	4	0	0	0
Splenectomy Suturing		0	2 40	0 3	0	0
Sympathectomy		1	0	0	Ô	0
Synovectomy	1	0	0	0	0	0
Tenoplasty Tenotomy		0	0	0	0	0
Thoracotomy		1	0	0	0	0
Thyroidectomy	267	4	25	1	2	0
Transfusion Tumour		5 10	8 16	0	0	0
Tuberculosis		1	5	Ô	0	0
Urethrotomy		0	0	0	0	0
Varicocele Vasectomy	11	0	1 2	0	0	0
Wounds	4 4 4	7	83	0	0	0
OBSTETRICAL AND GYNAECOLOGIC			79			
Abortion Adhesions		0	1	0	3	0
Cervix	88	0	10	0	1	0
Caesarean Section	37	2	6	0	0	0
Cauterization Colporrhaphy	33	0	2	0	0	0
Colpotomy	10	0	1	0	0	0
Curretage	443	0	68 8	0	0	0
Dilatation Examination		1	2	0	2	0
Hysterectomy	175	5	29	3	1	0
Induction Labour	11	0	4	1 0	0	0
Insertion Radium Oophorectomy		0	7	0	0	0
Ovariotomy	105	0	2	0	- 0	0
Panhysterectomy	120	0	7	0	0	0
Perineorrhaphy Salpingectomy	138	0	15	0	1	0
Salpingo-Oophorectomy	36	0	2	0	0	0
Sterilization	12	0	7	0	0	0
Trachelorrhaphy Uterus		0	3 23	0	0	0
0.000		-	20			
EYE, EAR, NOSE, THROAT:						
Abscess		1	2	0	0	0
Adenoidectomy Antrum		0	9	0	0	0
Cataract		ô	3	0	0	0
Cautery		0	1	0	0	0
Dacryocystectomy		0	2	0	0	0
Dilatation		0	Ô	0	0	0
Enucleation Eye	34	0	3	0	2	0
Oesophagascopy Ethmoidectomy		0	0	0	0	0
Ethmoidectomy Excision	1	0	0	0	0	0
Foreign Body	14	0	1	0	0	0
Glaucoma		0	0	0	0	0
Iridectomy Laryngoscopy		0	0	0	1	0
Mastoidectomy	103	1	8	0	0	0
Myomectomy	4	0	0	0	0	0

	Approved B	Deaths	Municipal I	Deaths	Private H.	Deaths
Needling	2	0	0	0	0	0
Otitus Media	23	0	0	0	0	0
Paracentesis	14	0	13	0	0	0
Polypi	11	0	5	0	0	0
Pterygium	11	0	2	0	0	0
Submucous Resection	69	0	1	0	1	0
Synectomy	18	0	0	0	0	0
Tonsillectomy	2356	3	574	0	42	0
Tracheotomy	5	2	0	1	0	0
Turbinectomy	2309	0	318	0	9	0
Total number of operations in hospitals				21	.775	
Total number of deaths					444	
Percentage					2.04	

# Private Hospitals

(MARY E. CONLIN, R.N., Inspector)

Fifty-nine private hospitals were inspected during the year and licenses issued. Twenty-four of these hospitals have graduate nurses in charge, the remainder being operated by certified midwives or practical nurses.

Licenses were issued to eleven baby shelters in Calgary, one in Red Deer and three in Edmonton. These were inspected four times during the year.

Four institutions in which babies are placed were also inspected.

One hundred and forty-five cases receiving free Insulin through the Department were visited.

## Provincial Laboratory

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

Sixty-three thousand two hundred and three examinations were made during the year. The biochemical and other departments of the University have at all times willingly co-operated, and the work of the laboratory has been thus supplemented. The chemical examination of milk and water has been carried out by the Provincial Analyst.

The following table indicates the nature and number of examinations performed-a decrease of 1,589 examinations, in comparison with the previous twelve-month period.

This decrease is mainly represented by the elimination of histo-pathological examinations of operative material, which was originally carried out under Section 46 of The Hospital Regulations.

In other respects, although strenuous efforts have been made to reduce the amount of work undertaken, the requirements of government departments, the public and the medical, dental and veterinary professions have been so insistent and necessary that there is actually an increase of approximately 1,000 examinations.

#### TABLE No. 1 WORK PERFORMED IN THE PROVINCIAL LABORATORY DURING THE YEAR 1933

Courtum	754
Sputum Diphtheria	
Typhoid Fever	
	the Colon of the
Milks	4 480
Waters Missallaneous Evaminations	1.452

Typhoid Fever	290
Milks	1.847
Waters	1.452
Miscellaneous Examinations	2.247
Mothers' Milk	5
Urinalysis	212
Medico-Legal Examinations	16
Bloods for the Wassermann Test	19.006
Smears for the Gonococcus	3.160
Icterus Index Determination	45
Van Den Berg Determination	5.490
Pathological Histological Material	4.084
Blood Smear Examinations	78
Post Mortem Examinations	163
Ascheim Zondek	78
Cerebro-Spinal Fluid Examinations	1.071
Bacteriological Post-mortem Examinations	32
B. Abortus Examinations	205
B. Tularensis	67
Chicken Blood Examinations	21.260
Cattle Blood Examinations	733
Typhoid Vaccine (25 c.c. quantity)	187
Autogenous Vaccine (25 c.c. quantity)	63
B.C.G. Vaccine (10 c.c. quantity)	248
Poliomyelitis Convalescent Serum (20 c.c. quantity)	86
B. Abortus Vaccine (5 c.c. quantity)	140
Total	63 203
*Viii	00,500

#### TABLE No. 2

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

Water Containers Special Containers Wassermann Containers Chicken Blood Containers	1932 1,326 1,469 16,317 21,909	1933 1,246 1,742 13,081 21,260
Total	41.021	37,329

Decrease in preparation of 3,692 containers.

#### TABLE No. 3

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

Typhoid Vaccine Autogenous Vaccine	5,450 c.c. 1,625 c.c. 1,690 c.c.	4.675 c.c. 1,575 c.c. 2,480 c.c.
B.C.G. Vaccine Poliomyelitis Convalescent Serum B. Abortus Vaccine	2,130 c.c.	1.720 c.c. 700 c.c.
Total		11,150 c.c.
Increase in the preparation and distribution of Vaccine	s and Sera,	255 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 infections diseases:

	Spec	imens						_	
Diseases	Posi- tives	Nega- tives	Physi- cians	Offices	Month.	Sputum.	Diph.	Typhoid Fever.	Total.
					Jan Feb	98 80	142 108	30 8	270 196
Pulmonary					Mar	87 103	86 49	16 24	189 176
Tuberculosis	124	630		0000	June	76 57	54 69	26 17	156 143
Diphtheria	29	879			July Aug. Sept.	39 46 46	61 62 61	56 37 31	156 145 138
					Oct	40 53	71 75	19 15	130 143
Typhoid Fever.	40	250	262	127	Dec.	29	70	11	110
						754	908	290	1952

#### TABLE No. 5

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

C	ation test for the diagnosis of syphilis:	
	Bloods received Bloods examined Bloods positive to reaction Bloods negative to reaction Bloods unsuitable for examination	19,100 19,006 2,332 16,674 94
	Male Bloods examined Female Bloods examined	10.774 5,099
	Out of 13,056 of these, the following details can be given.	
	Male married Male married positive Male married negative	2,684 427 2,257
	Male single Male single positive Male single negative	5,618 876 4,742
	Female married Female married positive Female married negative	3,035 329 2,706
	Female single Female single positive Female single negative	1,719 213 1,506
	Bloods received from Calgary and south Bloods received from north of Calgary	5.246 13,760
	Number of blood examinations made in 1932 Number of blood examinations made in 1933	17.763 19,006
	Increase in number of specimens examined Increase in per cent.	1,243 6.9%

#### TABLE No. 6

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

Waters	1932	1933
Number of samples of water examined bacteriologically and found fit for human consumption Number of samples of water examined bacteriologically and found	802	752
unfit for human consumption	104	48
Number of samples of water examined bacteriologically and chemically and found fit for human consumption  Number of samples of water examined bacteriologically and	762	511
chemically and found unfit for human consumption	142	93
Number of samples of water examined chemically and found fit for human consumption Number of samples of water examined chemically and found	57	36
unfit for human consumption	9	8
Number of samples of ice examined bacteriologically and found fit for human consumption	16	3
Number of samples of ice examined bacteriologically and found unfit for human consumption		1
Total	1.637	1,452

#### TABLE No. 7

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

	1932	1933
Number of samples of milk examined bacteriologically Number of samples of milk examined bacteriologically and	1,778	1,686
chemically	159	142
Number of samples of milk examined chemically	9	19
Total	1,946	1,847
Number of samples of milk examined showing low butterfat content	15	12
Number of pasteurized milk samples examined bacteriologically with a bacterial count above 30,000	86	73
Number of non-pasteurized milk samples examined bacterio- logically with a bacterial count above 300,000	29	51
Number of pasteurized milk samples examined	805	708
Number of non-pasteurized milk samples examined	1,141	1,139

#### Pathological Histological Material.

Owing to the reduction in the funds available the routine examination of operative material for the smaller hospitals was discontinued. This has reduced the number of such examinations undertaken. The following notification was sent to the hospitals by the Deputy Minister of Health:

"Owing to the reduction in the estimates of the Provincial Laboratory, it has been necessary to reduce the technical staff. On this account it will not be possible for the Laboratory to undertake the pathological examination of routine specimens which hospitals have been required to forward to the Laboratory as provided for in Section 46 of The Hospitals Regulations. This regulation is, therefore, being suspended for the time being.

"This change will not affect the pathological examination of any specimens on which a diagnosis is desired. The Laboratory will give the same service as in the past in connection with all specimens submitted for diagnosis, and hospitals are asked to take full advantage of this service."

The Pathological Department, which is under the direction of Dr. J. J. Ower, continues to co-operate closely with the hospitals, and where the examination of material is considered advisable for the purpose of diagnosis, etc., it is always undertaken. This department carries on a most important work in a very efficient manner in relation to histo-pathological diagnosis of cancer, and of other diseases.

#### Medico-Legal Examinations.

The medico-legal examinations have been divided between the pathological, bacteriological and serological departments, and have included examinations of a very intricate nature.

It should be pointed out that the estimates have never included funds for the carrying out of this important work which, under present conditions, adds to the work of an otherwise very much occupied public health staff.

Miscellaneous Examinations.

There were 2,247 miscellaneous examinations made during the year. These are of a very varied nature and include the examination of food, body fluids, etc.

Under this heading are also included some of the examinations in relation to disease in poultry and animals. There is a continued demand on the part of the public for examinations of this nature. An attempt has been made to control this work in accordance with the policy of the Department of Agriculture. We have, however, still found it necessary, on account of urgent solicitation, to undertake a certain amount of this work for private individuals. Here again, unfortunately, funds have never been made available to cover the necessary expenses.

Smears for the Gonococcus.

Three thousand one hundred and sixty examinations were made during the period under consideration for the presence of the gonococcus.

Chicken Blood Examinations.

It has been possible by means of a special grant from the Provincial Department of Agriculture to continue the work in the diagnosis of bacillary white diarrhoea in domestic fowl. This is part of a scheme for the eradication of the disease from flocks in the Province—a matter of considerable economic importance. There were 21,260 examinations made.

Cattle Blood Examinations.

Cattle blood examinations, for which a charge is made, are of assistance in connection with the diagnosis of contagious abortion among dairy herds.

Animal Work.

By agreement with the Provincial Department of Agriculture, certain work which we have been carrying on in the diagnosis of disease in poultry and animals, has been considerably curtailed. Such work is ordinarily now undertaken only at the special request of the Department of Agriculture, the Department of Poultry of the University, or a practising veterinarian. A co-ordination of effort is necessary whereby field observation may be compared with laboratory findings.

Vaccines and Sera Prepared and Distributed.

There were 11,150 cubic centimeters of sera and vaccines prepared. This includes typhoid vaccine, autogenous vaccine, B.C.G. vaccine, B. Abortus vaccine, and poliomyelitis convalescent serum. A charge is made for autogenous vaccine.

Research Work.

The work on B.C.G. vaccine is continuing. A large experiment with B.C.G. vaccine, involving 91 cattle, is in progress.

Reduction in Staff.

Reduction in staff, necessitated by diminished funds, has restricted the spread of the work previousy undertaken.

Staff.

The reduced staff, despite the efforts to control the amount of work undertaken, have been required generally to deal with almost the same amount of material as previously. To carry on effectively under such conditions has only been made possible by loyal co-operation under circumstances which cannot be considered as entirely satisfactory.

ESTIMATION OF COMMERCIAL VALUE Sputum	754	\$ 1.00	S	754.00
Diphtheria	908	1.00	9	908.00
Typhoid Fever	290	1.00		290.00
Milks	1.847	3.00		5.541.00
	1,452	10.00		14,520.00
Waters Miscellaneous examinations	2.247	3.00		6.741.00
Mothers' milk	5	2.00		10.00
Urinalysis	212	3.00		636.00
Medico-Legal examinations	16	5.00		80.00
Bloods for the Wassermann Test	19.006	3.50		66.521.00
Smears for the Gonococcus	3,160	1.00		3,160.00
Icterus Index Determination	45	1.00		45.00
Van Den Bergh Determination	5.490	1.00		5,490.00
Pathological Histological Material	4.084	5.00		20.420.00
Blood Smear Examinations	78	2.00		156.00
Ascheim Zondek	. 78	5.00		390.00
Cerebro-Spinal Fluid Examinations	1,071	2.00		2,142.00
Bacteriological P.M. Examinations	32	5.00		160.00
B. Abortus Examinations	205	1.00		205.00
B. Tuiarensis	67	1.00		67.00
Chicken Blood Examinations	21,260	.10		2,126.00
Cattle Blood Examinations	733	.20		146.60
Typhoid Vaccine (25 c.c. quantity)	187	1.00		187.00
Autogenous Vaccine (25 c.c. quantity)	63	10.00		630.00
B.C.G. Vaccine (10 c.c. quantity)	248	3.00		744.00
Poliomyelitis Serum (20 c.c. quantity)	86	2.50		215.00
B. Abortus Vaccine (5 c.c. quantity)	140	1.00		140.00
	63,040	100	911	32.424.60
Post-mortem examinations not included			4	Ja. 34-1-00
SERA AND VACCINES DISTRIBU	TED DURING	THE YEA	R 1933	
				nointe
Smallpox Vaccine—10 points				points
Smallpox Vaccine—10 points Diphtheria Antitoxin—			13,080	-
Smallpox Vaccine—10 points			13,080 1,089,000	units
Smallpox Vaccine—10 points Diphtheria Antitoxin— 1,000 units—1,089 pkgs. 5,000 units 64 pkgs.			13,080	units units
Smallpox Vaccine—10 points			13,080 1,089,000 320,000	units units units
Smallpox Vaccine—10 points Diphtheria Antitoxin— 1,000 units—1,089 pkgs. 5,000 units 64 pkgs. 10,000 units—48 pkgs.			13,080 1,089,000 320,000 480,000 6,780,000	units units units units
Smallpox Vaccine—10 points Diphtheria Antitoxin— 1,000 units—1,089 pkgs. 5,000 units 64 pkgs. 10,000 units— 48 pkgs. 20,000 units— 339 pkgs.			13,080 1,089,000 320,000 480,000	units units units units
Smallpox Vaccine—10 points Diphtheria Antitoxin— 1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid—			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000	units units units units units
Smallpox Vaccine—10 points Diphtheria Antitoxin— 1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid— 1 person—2,137 pkgs.			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137	units units units units units units
Smallpox Vaccine—10 points   Diphtheria Antitoxin—			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400	units units units units units persons persons
Smallpox Vaccine—10 points Diphtheria Antitoxin— 1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid— 1 person—2,137 pkgs.			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400	units units units units units units
Smallpox Vaccine—10 points			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292	units units units units units persons persons
Smallpox Vaccine—10 points  Diphtheria Antitoxin—  1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid—  1 person—2.137 pkgs. 6 persons— 400 pkgs. 12 persons— 441 pkgs.			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292 9,829	units units units units units persons persons persons
Smallpox Vaccine—10 points  Diphtheria Antitoxin—  1,000 units—1,089 pkgs. 5,000 units 64 pkgs. 10,000 units— 48 pkgs. 20,000 units— 339 pkgs.  Diphtheria Toxoid—  1 person—2,137 pkgs. 6 persons— 400 pkgs. 12 persons— 441 pkgs.  Schick Test—25 persons—129 pkgs.			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292 9,829	units units units units units persons persons
Smallpox Vaccine—10 points			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292 9,829 3,225	units units units units units persons persons persons persons
Smallpox Vaccine—10 points			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292 9,829 3,225 1,755	units units units units units persons persons persons persons c.c.
Smallpox Vaccine—10 points			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292 9,829 3,225 1,755 1,365	units units units units units persons persons persons persons c.c.
Smallpox Vaccine—10 points			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292 9,829 3,225 1,755	units units units units units persons persons persons persons c.c.
Smallpox Vaccine—10 points			13,080  1,089,000 320,000 480,000 6,780,000  8,669,000  2,137 2,400 5,292  9,829 3,225 1,755 1,365 1,086	units units units units units units persons persons persons persons c.c. c.c.
Smallpox Vaccine—10 points			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292 9,829 3,225 1,755 1,365	units units units units units units persons persons persons persons c.c. c.c.
Smallpox Vaccine—10 points			13,080  1,089,000 320,000 480,000 6,780,000  2,137 2,400 5,292  9,829 3,225 1,755 1,365 1,086  4,206	units units units units units units persons persons persons c.c. c.c. c.c.
Smallpox Vaccine—10 points Diphtheria Antitoxin— 1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid— 1 person—2.137 pkgs. 6 persons— 400 pkgs. 12 persons— 441 pkgs.  Schick Test—25 persons—129 pkgs. Scarlet Fever Antitoxin— 15 c.c. Vial—117 pkgs. 15 c.c. Syringe—91 pkgs. 2 c.c. Syringe—543 pkgs.  Scarlet Fever Toxin— 1 person—358 pkgs.			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292 9,829 3,225 1,755 1,365 1,086 4,206 358	units units units units units units units persons persons persons c.c. c.c. c.c.
Smallpox Vaccine—10 points			13,080 1,089,000 320,000 480,000 6,780,000 8,669,000 2,137 2,400 5,292 9,829 3,225 1,755 1,365 1,086 4,206 358	units units units units units units persons persons persons c.c. c.c. c.c.
Smallpox Vaccine—10 points Diphtheria Antitoxin— 1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid— 1 person—2.137 pkgs. 6 persons— 400 pkgs. 12 persons— 441 pkgs.  Schick Test—25 persons—129 pkgs. Scarlet Fever Antitoxin— 15 c.c. Vial—117 pkgs. 15 c.c. Syringe—91 pkgs. 2 c.c. Syringe—543 pkgs.  Scarlet Fever Toxin— 1 person—358 pkgs.			13,080  1,089,000 320,000 480,000 6,780,000  8,669,000  2,137 2,400 5,292  9,829 3,225 1,755 1,365 1,086  4,206 358 546	units units units units units units units persons persons persons c.c. c.c. c.c. persons
Smallpox Vaccine—10 points Diphtheria Antitoxin—  1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid— 1 person—2.137 pkgs. 6 persons— 400 pkgs. 12 persons— 441 pkgs.  Schick Test—25 persons—129 pkgs. Scarlet Fever Antitoxin—  15 c.c. Vial—117 pkgs. 15 c.c. Syringe—91 pkgs. 2 c.c. Syringe—543 pkgs.  Scarlet Fever Toxin— 1 person—358 pkgs. 6 persons—91 pkgs.			13,080  1,089,000 320,000 480,000 6,780,000  8,669,000  2,137 2,400 5,292  9,829 3,225 1,755 1,365 1,086  4,206 358 546	units units units units units units units persons persons persons c.c. c.c. c.c. persons persons
Smallpox Vaccine—10 points Diphtheria Antitoxin—  1,000 units—1,089 pkgs. 5,000 units 64 pkgs. 10,000 units—48 pkgs. 20,000 units—339 pkgs.  Diphtheria Toxoid—  1 person—2,137 pkgs. 6 persons—400 pkgs. 12 persons—41 pkgs.  Schick Test—25 persons—129 pkgs. Scarlet Fever Antitoxin—  15 c.c. Vial—117 pkgs. 15 c.c. Syringe—91 pkgs. 2 c.c. Syringe—543 pkgs.  Scarlet Fever Toxin—  1 person—358 pkgs. 6 persons—91 pkgs. Dick Test—10 persons—130 pkgs.			13,080  1,089,000 320,000 480,000 6,780,000  8,669,000  2,137 2,400 5,292  9,829 3,225 1,755 1,365 1,086  4,206 358 546	units units units units units units units persons persons persons c.c. c.c. c.c. persons
Smallpox Vaccine—10 points Diphtheria Antitoxin—  1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid—  1 person—2.137 pkgs. 6 persons— 400 pkgs. 12 persons— 441 pkgs.  Schick Test—25 persons—129 pkgs. Scarlet Fever Antitoxin—  15 c.c. Vial—117 pkgs. 15 c.c. Syringe— 91 pkgs. 2 c.c. Syringe—543 pkgs.  Scarlet Fever Toxin—  1 person—358 pkgs. 6 persons—91 pkgs.  Dick Test—10 persons—130 pkgs. Tetanus—			13,080  1,089,000 320,000 480,000 6,780,000  8,669,000  2,137 2,400 5,292  9,829 3,225 1,755 1,365 1,086  4,206 358 546  904 1,300	units units units units units units units units units persons persons persons c.c. c.c. c.c. persons persons
Smallpox Vaccine—10 points Diphtheria Antitoxin—  1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid—  1 person—2.137 pkgs. 6 persons— 400 pkgs. 12 persons— 441 pkgs.  Schick Test—25 persons—129 pkgs. Scarlet Fever Antitoxin—  15 c.c. Vial—117 pkgs. 15 c.c. Syringe—91 pkgs. 2 c.c. Syringe—543 pkgs.  Scarlet Fever Toxin—  1 person—358 pkgs. 6 persons—91 pkgs. Dick Test—10 persons—130 pkgs.  Tetanus—  1.500 units—52 pkgs.			13,080  1,089,000 320,000 480,000 6,780,000  8,669,000  2,137 2,400 5,292  9,829 3,225 1,755 1,365 1,086  4,206 358 546	units units units units units units units units units  persons persons persons c.c. c.c. c.c. persons persons units
Smallpox Vaccine—10 points Diphtheria Antitoxin—  1.000 units—1.089 pkgs. 5.000 units 64 pkgs. 10.000 units— 48 pkgs. 20.000 units— 339 pkgs.  Diphtheria Toxoid—  1 person—2.137 pkgs. 6 persons— 400 pkgs. 12 persons— 441 pkgs.  Schick Test—25 persons—129 pkgs. Scarlet Fever Antitoxin—  15 c.c. Vial—117 pkgs. 15 c.c. Syringe— 91 pkgs. 2 c.c. Syringe—543 pkgs.  Scarlet Fever Toxin—  1 person—358 pkgs. 6 persons—91 pkgs.  Dick Test—10 persons—130 pkgs. Tetanus—			13,080  1,089,000 320,000 480,000 6,780,000  8,669,000  2,137 2,400 5,292  9,829 3,225 1,755 1,365 1,086  4,206 4,206 904 1,300 78,000	units persons persons persons c.c. c.c. c.c. persons persons persons units units
Smallpox Vaccine—10 points Diphtheria Antitoxin—  1,000 units—1,089 pkgs. 5,000 units 64 pkgs. 10,000 units—48 pkgs. 20,000 units—339 pkgs.  Diphtheria Toxoid—  1 person—2,137 pkgs. 6 persons—400 pkgs. 12 persons—441 pkgs.  Schick Test—25 persons—129 pkgs. Scarlet Fever Antitoxin—  15 c.c. Vial—117 pkgs. 15 c.c. Syringe—91 pkgs. 2 c.c. Syringe—543 pkgs.  Scarlet Fever Toxin— 1 person—358 pkgs. 6 persons—91 pkgs.  Dick Test—10 persons—130 pkgs. Tetanus—  1,500 units—52 pkgs. 5,000 units—12 pkgs.			13,080  1,089,000 320,000 480,000 6,780,000  8,669,000  2,137 2,400 5,292  9,829 3,225 1,755 1,365 1,086  4,206 358 546 904 1,300 78,000 60,000	units persons persons persons c.c. c.c. c.c. persons persons persons units units
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## Public Health Nursing Division

(KATE S. BRIGHTY, R.N., Superintendent)

The following districts have been served as in past years by a public health nurse stationed in each district; Norma Municipality, including the Town of Vegreville; Marquis Municipality, and Richdale Municipality.

The following statistical report shows the work of major importance accomplished by public health nurses. In Richdale Municipality the work differs somewhat from that in the other two districts, bedside nursing being included in the general nursing programme.

#### STATISTICAL REPORT

First inspections Second inspections Classroom inspections Not vaccinated With defects	1,077 37 2,010	With defective vision With defective hearing With throat symptoms With symptoms of adenoids With carious teeth	
RES	SULTS	OBTAINED	
Number of vaccinations Diphtheria toxoid Glasses fitted Glasses refitted Tonsils removed Adenoids removed Dental treatments	21 682 28 29 43 41 129	Surgical treatments Medical treatments Schoolroom talks Home visits Child Welfare Clinics Attendance Public lectures	4 38 79 406 56 288 7

#### DISTRICT NURSING.

Seven districts have been served, one by a district physician and six by district nurses. The services of the district nurse were withdrawn from Local Improvement Districts 828 and 769 at the end of April. A resident physician is now established in this district.

#### STATISTICAL REPORT (DISTRICT NURSING)

Home visits	1.647	Pre-natal consultations	349
Office consultations	2.247	Child welfare consultations	49
Dressings done	735	Child welfare visits	46
Medical cases	1.186	Deaths (under 1 year)	14
Surgical cases	363	Deaths (over 1 year)	14
Obstetrical cases		Indigent cases sent to city	78
Abortions	11	Visits to Indian Reserves	38
Pre-natal visits	1,197	Dental extractions	33

#### CHILD WELFARE CLINICS.

Provincial Child Welfare Clinics are conducted at Edmonton, Calgary, Medicine Hat, Redcliff and Vegreville. In the City of Edmonton 102 clinics were held during the year with an average attendance of 62, the total attendance being 6,336, and the number of home visits 4,085.

In the City of Calgary 104 clinics were held with an average attendance of 59, the total attendance being 6,169 and the number of home visits 2,205.

In Medicine Hat and Redcliff 119 clinics were held during the year with a total attendance of 1,657 and 1,635 home visits were made.

In addition to the maternal and child hygiene services rendered to the public, these clinics serve as teaching centres for medical students, home economic classes and nurses from the various training schools in the city.

#### TRAVELLING CHILD WELFARE CLINIC.

The Travelling Child Welfare Clinic provided service in the southern and central sections of the Province, 32 clinics being held with a total attendance of 748 babies and pre-school children.

During Exhibition week in Edmonton, from July 17th to July 22nd (inclusive), first aid was rendered by a public health nurse stationed at the Emergency Hospital.

During the month of November the Public Health Nursing Division cooperated with the Women's Institute of Drumheller in making a survey in the Drumheller schools. Number of children examined, 937; with defects, 495.

Through the efforts of the Women's Institute a supply of pasteurized milk was furnished to 84 underweight children, one pint of milk per child being delivered daily at the schools throughout the balance of the school year.

#### DENTISTRY.

During Camrose Publicity Week a dental clinic was sponsored by the local dentists of Camrose. A public health nurse organized the work and assisted the dentists in the examination of 213 children.

Dr. Heacock, Provincial dentist, visited six outlying districts, examining a total of 467 children, of whom 285 received dental treatment. This service meets a much felt need in communities isolated by distance and bad roads from facilities for dental care.

Six radio addresses were given over CKUA, the University of Alberta station. A number of public addresses were given and visits made in connection with social welfare work.

One thousand six hundred and five sets of pre-natal and post-natal letters were mailed during the year. There were 804 names on our mailing list at the end of the year.

#### STAFF CHANGES.

Miss Florence M. Linsley resigned from the service to be married. Miss Elizabeth C. Davidson was appointed district nurse in the Worsley district.

Valuable assistance has been rendered by the physicians in attendance at the various clinics, by the dental profession, teachers, the Red Cross Society, and by various women's organizations and welfare societies in the Province.

### Hospitals Division

(W. B. MILNE, C.A., Supervisor of Municipal Hospitals and Secretary of the Department)

The total number of hospitals approved under the provisions of The Hospitals Act of the Province of Alberta, as at the 31st of December, 1933, was 86.

Two approved hospitals were burned during the year 1933—The General Hospital at Gleichen and the St. Joseph's Hospital at Grouard. The Hanna Municipal sub-hospital at Craigmyle was closed.

The total grants paid to hospitals and homes for the year 1933 amounted to \$407,206.50.

The approved hospitals, with the addition of the accommodation at the Central Alberta Sanatorium, had a total bed capacity of 4,565, divided as follows: General, 2,375; maternity, 646; infants, 630; paediatrics, 329; isolation, 281; tuberculosis, 304.

On the basis of an estimated population in the Province of 757,000, we had one hospital bed for every 165.8 of the population, or six beds per thousand population; 64,697 patients were treated during the year and received 829,645 days' treatment. This means that in the year 1933 hospital treatment was provided for 8.5 per cent. of the population, or one in every 11.7 persons.

There was an average daily admission of patients to hospitals of 177.2. The average number of days spent in hospital by each patient was 12.8, and if the Isolation, Sanatorium, Orthopaedic, S.C.R. and T.B. cases in the University Hospital were eliminated, this would be reduced to an average of 11.3. The average number of patients in hospitals daily was 2,273, or one in every 333 of our population. Each bed provided accommodation for an average of 14 patients during the year.

The nursing staff of the approved hospitals consisted of 476 graduate nurses, 679 pupil nurses and 114 other attendants.

There were 11 nurses' training schools in the Province, and the number of nurses who graduated during the year was 186. There were 21 dietitians employed.

During the year 8,289 maternity cases were cared for, these cases comprising 12.8 per cent. of the total cases admitted.

Living births were: Male 3,915, female 3,797, a total of 7,712. Multiple births totalled 92, and there were 239 still born. The maternal deaths reported were 27, this giving a death rate of .33 per cent. of total maternity cases admitted, and 3.5 per 1,000 living births.

The living births in Alberta for 1933 were 16,123. Of this total 47.8 per cent. took place in Government approved hospitals.

The approved hospitals reported that 19,904 general anaesthetics were administered, and 8 deaths occurred from these.

There were 298 autopsies performed, and the infections developed in hospitals totalled 158, divided into: medical 18, surgical 75; obstetrical—mothers 14, infants 51.

The number of communicable disease cases treated, excluding typhoid fever and tuberculosis, totalled 605. Typhoid cases numbered 73, tuberculosis 968 (pulmonary 670, other forms 298).

Amongst other cases treated in hospitals there were 1,430 cardiac, 688 rheumatic, 453 goitre, 383 venereal, 661 malignant.

There were 288 deaths within ten days of surgical operations, and 412 within forty-eight hours after admission. Communicable diseases accounted for 41 deaths.

The approved hospitals reported 111,756 laboratory examinations and 24,234 X-ray examinations.

The total operating expenditure of approved hospitals for the year 1933 was \$2,312,462.78. This includes administration of \$235,503.83, professional care of patients \$913,158.05, kitchen and dining room \$501,793.07, general house and property \$506,905.70, and maintenance \$155,102.13.

Earnings of these hospitals amounted to \$3,043,873.58. On referring to the details of the earnings it will be noted that there is a difference in the total 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 considerably from the calendar year.

Of the earnings shown, \$402,551.50 was Alberta Government grant; municipal and other grants, which included amounts paid by municipalities to take care of deficits, amounted to \$313,993.80. Patients' fees earned amounted to \$1,836,585.97, donations of cash and services were \$158,172.46, taxes for municipal hospital purposes were \$273,376.26, and the sundry earnings amounted to \$59,193.59.

The average cost per patient day was \$2.97. Excluding the Isolation, Junior Red Cross, Sanatorium, University Hospital and hospitals operating incurable wards, the average cost was \$2.88. The average earnings per patient day was \$3.90. The average cost was divided as follows: Administration 7.9%, professional care 40.2%, kitchen and dining room 23.8%, house and property 20.8%, maintenance 7.3%.

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 1933.

The following statements are submitted giving the details 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, etc.

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

No. 4—Revenues.

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

#### MUNICIPAL HOSPITALS.

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

The number of municipal hospitals is the same as in 1932, there being 22 in operation at December 31st, 1933.

The sub-hospital operated at Craigmyle as part of the facilities of the Hanna Municipal Hospital District was closed during the year.

No. 1—STATISTICS OF ALBERTA HOSPITALS, 1933

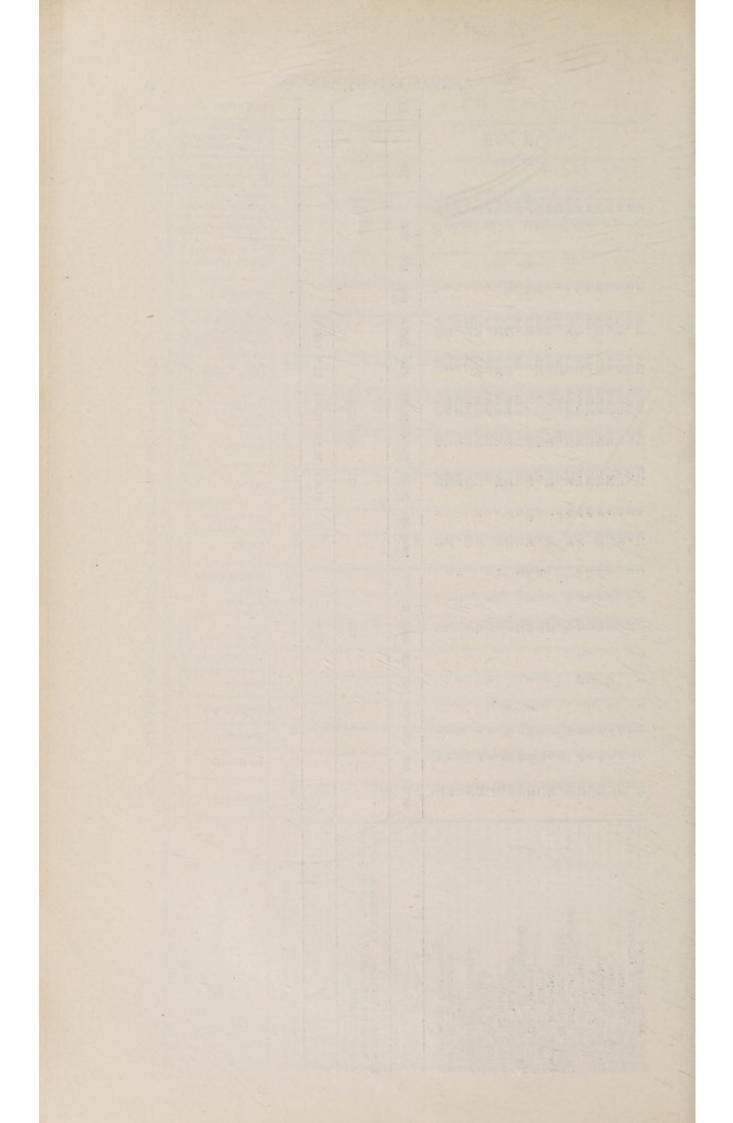
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	Dietitians	
	Affiliation wi other hospital for nurses	Z Z Z
	Murses gradua	43 16 28 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
81	Nurses trainin	KANAKANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Staff	Other	
	Pupil nurses	108 84 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Nursing	Graduates	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Treatment	Aver. No. of patients in hospital daily	201 173 173 173 173 173 173 173 173 173 17
10000	Aver. days stay in hospital	111.6 111.6
tted for	No. of hospital days	7.501 7.
s Admitted	Female	254 138 138 138 138 138 138 138 138 138 138
Patients	Male	287 176 176 186 187 187 187 187 187 187 187 187 187 187
	Bassinettes	7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	Public	200 200 200 200 200 200 200 200 200 200
	Semi-Private	22 22 23 24 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29
	Private	200 m 20
sity	Total	649 649 649 649 649 649 649 649
Capacity	Tuberculosis	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Bed	Isolation	100 4 4 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7
	Paediatrics	E 121   6   100   4   1   1   1   1   1   1   1   1   1
	stastal	242 25 25 25 25 25 25 25 25 25 25 25 25 25
	Maternity	50000 400 5000 111 5000 1000 1000 1000 1
	General	22 66 66 66 66 66 66 66 66 66 66 66 66 6
	Name of Hospital	Athabasca, Municipal Banff, Mineral Springs Barrhead, Barrhead Bassano, Municipal Bentley, Community Bentley, Community Bonnyville, K. H. Prettie Bonnyville, St. Louis Calgary, General Calgary, General Calgary, Smallpox Calgary, Smallpox Calgary, Moly Cross Calgary, Junior Red Gross Calgary, Unior Red Gross Calgary, Central Alberta Sanatorium Calgary, Unior Red Gross Calgary, Central Alberta Sanatorium Canton, Municipal Carton, Municipal Carton, Municipal Castor, General Coleman, Miners' Union Consort, Municipal Coronation, General Banonton, Beulah Home Edmonton, Beulah Home Edmonton, Beulah Home Edmonton, Royal Alexandra Edmonton, Royal Alexandra

#### DEPARTMENT OF PUBLIC HEALTH

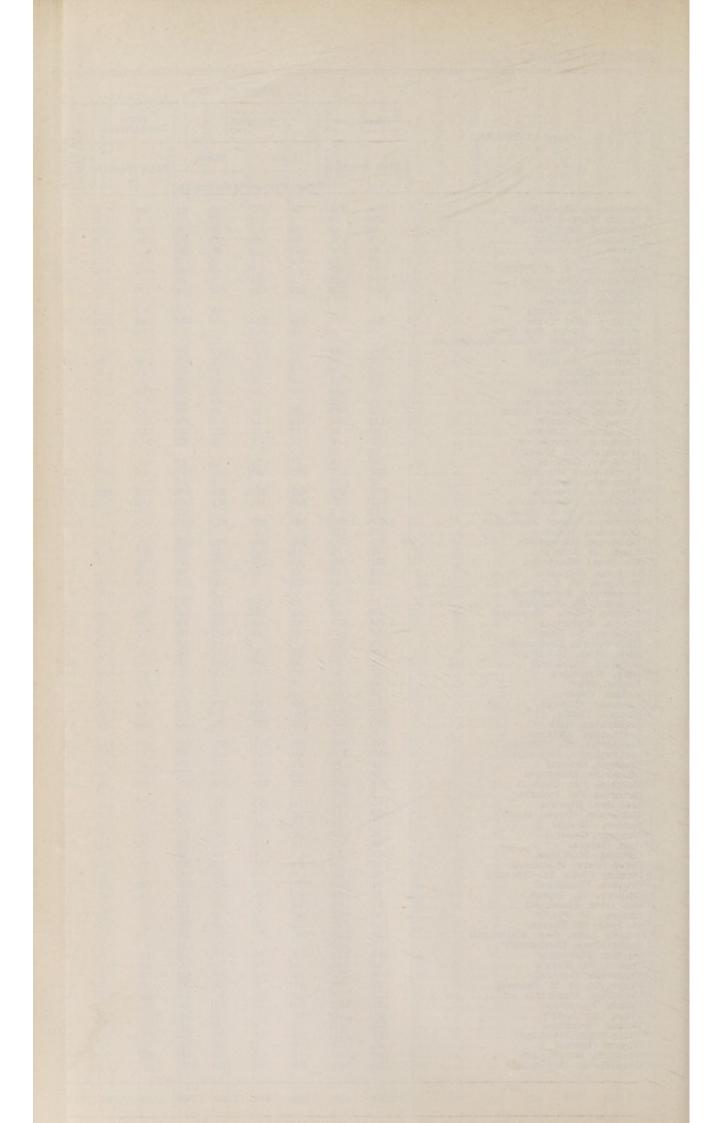
No. 1-STATISTICS OF ALBERTA HOSPITALS, 1933-Continued

		DEPARTMENT OF PUBLIC HEALTH
	Dietitians	N      -
	Affiliation wi other hospital for nurses	NN
pə	Nurses graduat during year	82
31	Nurses trainin	NNNNNN KKNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Staff	Other	N   1   1   1   1   1   1   1   1   1
1000	Pupil nurses	8
Nursing	Graduates	# 48881440 Exect x 288888888888888888888888888888888888
Treatment	Aver. No. of patients in hospital daily	44444444444444444444444444444444444444
1000	Aver. days stay in hospital	85.66.50 8.66.66.
tted for	No. of hospital days	26.380 1.580 1.580 1.580 1.580 1.580 1.580 1.580 1.580 1.580 1.580 1.580 1.580 1.580 1.590
s Admitted	Female	269 274 274 274 275 276 275 275 275 276 276 276 277 277 277 277 277 277 277
Patients	Male	1710 1710 1710 1720 1730 1730 1730 1730 1730 1730 1730 173
14	Bassinettes	
	Public	291 122 HOSD HOSD 1238 832 844 1446 124 134 134 134 134 134 134 134 134 134 13
	Semi-Private	% 821 8 8 4 8 8 1 8 1 1 1 1 1 1 1 1 1 1 1 1
	Private	5 4- 6444 404 4-258 86- 8 44640
city	Total	58 2222112242822444029252525122222122222
Capacity	Tuberculosis	8   0       0 0 0
Bed	Isolation	
100	Paediatrics	5 8       44           42   11     16   11       16   17
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	Maternity	71 97000 01 121 8400 480 10 10 10 10 10 10 10 10 10 10 10 10 10
	General	45 81-51-4-5888880.888114-4-0-4-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-
	Name of Hospital	Edmonton, University (Civilians) Edmonton, University (S.C.R.) Edmonton, University (S.C.R.) Edmonton, University (Orthopaedic) Edmonton, University (Tuberculosis) Edison, St. John's Elk Point, Municipal Empress, Cottage Fairview, W. I. Forestburg, Forestburg Galanda, St. Joseph's Hanna, Municipal Grouard Prairie, Municipal Innisfail, Municipal Innisfail, Municipal Innisfail, Municipal Innisfail, Municipal Islay, Municipal Macleod, General Macleod, General Manicipal Macleod, General Medicine Hat, General Medicine Hat, General Mundare, General Mundare, General Nordegg, General Olds, General Olds, General

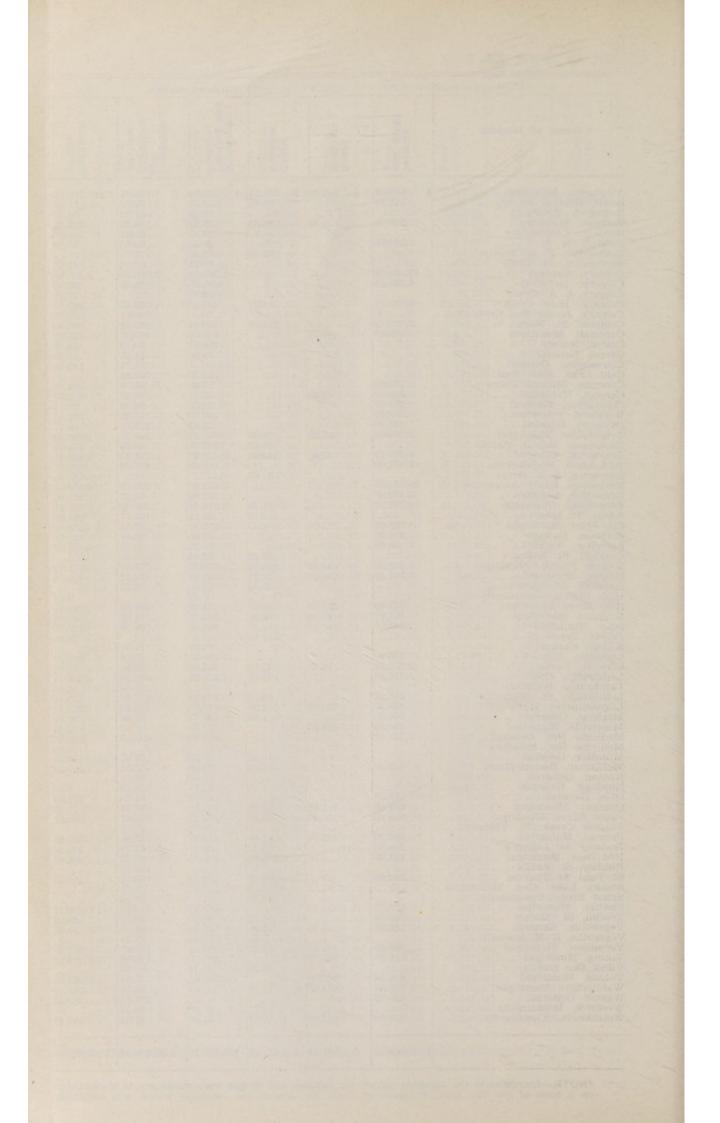
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Peace River, Municipal Phother Creek, St. Vincent's Provost, Municipal Radway, St. Joseph's Radway, St. Joseph's Rimbey, St. Paul's St. Paul, St. Theresa Smoky Lake, Geo. McDougall Spirit River, Community Stettler, Municipal Trochu, St. Mary's Vegreville, General Vermillon, Municipal Vermillon, Municipal Vina, Municipal Vilna, Our Lady's Wainwright, Municipal Wayne, General Wayne, General Wayne, General Wayne, General		Excluding Isolation, Sanatorium, Orthopaedic, S.C.R. and T.B. cases in University Hospital	



		No. 2—NUESING STATISTICS OF ALBERTA HOSPITALS, 1963	
Name of Hospital	Types of Case  Medical Bergical Simulation operative  Male Female Major Minist Male Female  Male Female Male Female		100 2 THE 2 THE 2 THE PER PER PER PER PER PER PER PER PER PE
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Name of Hospital
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No. 4-REVENUE OF ALBERTA HOSPITALS, 1933

	Sundry Total Earnings Earnings	203.93 \$ 22.191.27 633.73 7.251.00 3,189.39 7.251.02 6,155.28 6,155.28 6,155.28 6,155.28 4,911.34 6,135.69 17,165.60 11,52.69 17,165.60 11,52.69 17,165.60 11,64.05 11,054.05 11,721.52 19,397.56 12,253.50 11,721.52 19,397.56 12,39.05 11,721.52 10,223.66 12,39.05 12
	Tax Su Requisitions Ear	\$ 8,545,42 \$ 7,675,00 9,825,47 30,609,00 30,609,00
	Donations, Cash and Services	\$ 3,633.10 42.28 30.10 6,084.94 5,763.96 2,7406.59 2,776.66 1,047.79 882.68 3,705.00 25.00 25.00 25.00 4,849.55 1132.50 3,163.31 16.25
	Patients' Fees	\$ 12,995.41 12,995.41 15,935.41 15,935.41 15,935.00 10,130.86 117,065.70 17,065.70 17,065.70 17,065.70 17,065.70 17,065.70 17,065.70 17,952.88 1,543.50 1,54
ıts	Municipal and others	*85,356.55 *20,683.27 750.00 3,200.00 1,476.50 1,476.50 5,950.00 *82,717.21 *34,794.29 *30,382.37 3,501.50 990.00
Grants	Alberta	\$ 3,659.00 1,889.50 1,389.50 1,318.00 2,670.00 2,670.00 3,550.00 1,447.50 1,447.50 1,752.00 1,710.50 1,710.50 1,710.50 1,468.50 1,468.50 1,468.50 1,468.50 1,468.50 1,468.50 1,258.50 1,258.50 1,288.50
	Name of Hospital	Athabasca, Municipal Banff, Mineral Springs Barrhead, Barrhead Bassano, Municipal Bentley, Community Bentley, Community Bentley, Community Bentley, Community Bentley, St. Louis Calgary, General Calgary, General Calgary, Junior Red Cross Calgary, Municipal Cereal, General Corsort, Municipal Consort, Municipal Cold Lake, John Nell Coleman, Miners' Union Coronation, General Didsbury, General Didsbury, General Edmonton, Beutah Home Edmonton, General Edmonton, General Edmonton, S. A. Grace Edmonton, S. A. Grace Edmonton, Solation Edmonton, Solation Edmonton, Isolation Edmonton, S. John's Elk Point, Municipal Empress, Cottage Fairview, W. I. Galahad, St. Joseph's Grande Prafrie, Municipal

No. 4-REVENUE OF ALBERTA HOSPITALS, 1933-Continued

	Total	\$ 1,325.75 29,915.07 14,620.90 20,377.20 4,442.20 11,006.64 60,052.79 86,809.02 20,052.77 15,252.55 86,785.43 11,829.53 11,829.437 18,224.37 18,224.37 18,224.37 18,224.37 18,224.37 18,224.37 18,224.37 18,225.55 86,785.43 18,756.11 22,476.16 10,367.00 34,331.23 10,367.40 10,367.00 34,331.23 10,367.40 22,476.16 16,46.26 7,130.12 24,713.91
	Sundry Earnings	\$ 1,691.97 603.06 52.25 369.45 1,420.00 1,898.65 371.22 371.22 360.00 2,767.00 2,008.68 2,008.68 2,008.68 2,008.68 2,008.68 464.41
	Tax Requisitions	\$ 18.698.46 15.471.95 9.315.00 * * 9.809.00 12.015.31 12.015.31 13.626.63 13.626.63 13.626.63
	Donations, Cash and Services	\$ 15.00 15.598.37 15.4025 100.00 13.407.99 13.407.99 13.407.99 13.506.68 113.50 113.50 113.50 25.15 626.04 4.318.57 926.68 5.800.00 261.45 3.3114.50 6.271.73 3.315.40
	Patients' Fees	\$ 11,016,75 9,823,06 9,823,06 9,823,06 9,423,7 1,883,83 2,082,06 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,442,37 6,328,06 1,936,00 6,928,05 1,936,00 6,928,05 1,936,00 6,928,05 1,741,15 1,936,00 6,928,05 1,741,15 1,936,00 6,938,00 6
ts	Municipal and others	\$ 5.802.00 1,500.00 2,755.69 3,399.50 1,775.03 1,775.03 1,50.00 137.50 600.00
Grants	Alberta	\$ 3,294.00 3,887.00 1,825.00 1,424.50 1,424.50 1,424.50 1,424.50 1,135.50 1
	Name of Hospital	High Prairie, Community High River, Municipal Innisfall, Municipal Jasper, Seton Killam, General Lacombe, General Lethbridge, Galt Lethbridge, Galt Lethbridge, Galt Lethbridge, St. Michael's Lloydminster, Municipal Maclicine Hat, General Medicine Hat, General Medicine Hat, General Medicine Hat, General Medicine Hat, General Mondeag, General Olds, General Onoway, Municipal Peace River, Municipal Phicher Creek, St. Vincent's Provost, Municipal Red Deer, Municipal Radway, St. Joseph's Red Deer, Municipal Radway, St. Joseph's Red Deer, Municipal Radway, St. Joseph's Red Deer, Municipal Rimbey, St. Paul's Spirit River, Community Stettler, Municipal Trochu, St. Mary's Vegreville, R. M. Boswell Vegreville, R. M. Boswell Vermillon, Municipal Vilna, Our Lady's Vilna, Our Lady's

21.927.10 8.478.28 19.665.68 18,931.55	\$3,043,792.58		131.00		30,382.37 13,500.00	
563.60	\$ 59,193.59	\$46,131.00 20,000.00 \$66,131.00		\$12,557.62 17,500.00 324,75 30,38		
8,974.00	\$ 273,295.26					
4.330.68	\$ 158,172.46					
9,593.50 6,860.28 12,687.00 15,449.45	\$1,836,585.97		Rate. 1 Rate p deficit			urable wards.
00.009	\$ 313,993.80		arged to the Mill funds to make up make up deficit		Board)	evenue from inc
2,796.00 1,618.00 2,048.00 3,025.50	\$ 402,551.50	NMENT GRANT	VTS: is the amount ch is the amount ch Alexandra, City on, City funds to reity:		I: inicipal (Alberta	3S: ence, including r
right, Municipal . General ck, Immaculata dwin, Community		*ALBERTA GOVERNMENT GRANT: Edmonton University: General Grant Special Grant	*MUNICIPAL GRANTS: Calgary General is the amount charged to the Mill Rate Calgary Isolation is the amount charged to the Mill Rate Edmonton, Royal Alexandra, City funds to make up deficit Edmonton, Isolation, City funds to make up deficit Edmonton, University:	City of Edmonton University of Alberta Municipal District	*TAX REQUISITION: Lloydminster, Municipal (Alberta Board).	*SUNDRY EARNINGS: Daysland, Providence, including revenue from incurable wards.

Macleod, General, including revenue from incurable wards.

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2.25 2.26 2.26 2.26 2.26 2.26 2.26 2.26		9.7 7.9	\$2.88
88888888888888888888888888888888888888	37.3 4.6 4.6 4.6 4.6 4.6 4.6 4.6	40.2	-
48644888888888888888888888888888888888	28272828 2827286 2935 2935 2935 2935 2935 2935 2935 2935	23.8	
381212222222222222222222222222222222222	22.3 24.0 17.3 25.5 23.9	20.8	
2622 2622 2622 2622 2622 2622 2622 262	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7.3	***
40488884448888448888888888888888888888		\$3.90	

## Division of Social Hygiene

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

Following the policy inaugurated some ten years ago, we have directed particular attention to the early detection and treatment of neuro-syphilis and cardio-vascular syphilis, the two types which cause the greatest economic loss from incapacitation and early death. During the year we completed the neurological examination of 500 syphilitic individuals, this number representing practically all of the syphilitic patients under treatment in the Edmonton Clinic. The figures for the other clinics have not yet been analyzed. A spinal fluid examination was done on all syphilitic patients whether or not there was clinical evidence of neuro-syphilis. Of the 500 syphilitic patients, 92 (18.4%) had positive cerebral spinal fluids. Only 14 of the 92 presented clinical evidence of neuro-syphilis, leaving 78 patients with positive spinal fluids, but no other evidence of neuro-syphilis. These cases are termed asymptomatic neurosyphilis. All 14 patients having symptoms and 55 (70.5%) of the asymptomatic cases were given malaria pyrexia treatment. Of these 55 asymptomatic cases treated with malaria, 25 (45.5%) have had a second spinal test twelve months after the completion of the malaria treatment, and 13 of them (52%) have become absolutely normal in all four points in the spinal fluid, 3 (12%) normal in three points, 7 (28%) normal in two points, and 2 (8%) normal in one point. There were no asymptomatic cases in which an improvement in the spinal fluid was not noted following the malaria treatment.

We believe that this work will produce a marked lowering of the incidence of symptomatic neuro-syphilis in years to come, and should be evidenced by a reduction in the number of cases of paresis admitted to our mental institutions.

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

EDMONTON CLIN				
			. 528	693
CLASSIFICATION	OF THEIR DISE	ASES		
		onorrhoea	Chancroi	
Male Female	111	228 51		528 165
Totals	414	279		693
			. 815	214
Male	0.50	onorrhoea. 556		d. Totals. 815
Female		212	*****	399
Totals	446	768		1214
Number and results of Wassermann test Number and results of Cerebrospinal flu MEDICINE HAT CL Number of Patients Sex of Patients: Male	ts: 2263 tests, of v id tests: 65 tests,	which 521 v of which 1 Hospital	were posit 19 were posit 22	tive.

CI	LASSIFICATION	OF THEIR DI	SEASES		
			Gonorrhoe		
Male Female			12	1	22
Totals Number and results of		21	20	1	42
Number and results of	Cerebrospinal flui	d tests: 8 tests	, of which	1 was po	sitive.
LE	THBRIDGE CL	INIC. Galt	Hospital		
Number of Patients					89
	Male Female				
CI	ASSIFICATION	OF THEIR DIS	SEASES		
			Gonorrhoe		
Male Female			35 4	2	75 14
Number and results of	***		39	2	89
Number and results of	Cerebrospinal flui	d tests; 14 test	s, of which	4 were posit	ositive.
	LETHBRIDGE (	GAOL, Lethb	ridge		
Number of Patients					72
Sex of Patients:	Male			72	
CI	ASSIFICATION	OF THEIR DIS	SEASES		
			Gonorrhoe	a. Chancre	
Male Number and results of Number and results of	Wassermann tests	39 s: 528 tests, of	which 66 v	vere posit	tive.
					ositive.
	SKATCHEWAN			ewan	
Number of Patients	Velo.			94	147
Sex of Patients: 1	Female				
CI	ASSIFICATION	OF THEIR DIS	FASES		
Ci	ADDIFICATION (		Gonorrhoe	a. Chanero	oid. Totals.
Male		47	47	*****	94
Female		28	25		53
			72		147
Number and results of	Wassermann tests	: 1869 tests, of	which 156	were pos	itive.
CASES REP	ORTED BY DO	OCTORS IN	THE PRO	VINCE	
Mala			Gonorrhoe	a. Chancre	
Male Female			38	******	53 12
			44	_	65
		TULATION			
	RECAPI		Conombes	Change	id Totals
Male			Gonorrhoe: 949	a. Chancre	1659
Female		357	306	*****	663
Totals		1064	1255	3	2322

## Sanitary Engineering Division

(R. B. Owens, B.A., B.E., Provincial Sanitary Engineer)

The following is a detailed list of works for which Provincial Board of Health Certificates have been issued, together with the estimated cost of each:

#### WATERWORKS

Coleman—Final Certificate No. 377/33, replacements to waterworks system. Estimated cost \$2,316.00 Camrose—Per Calgary Power Company, Final Certificate No. 378/33, additions to waterworks system. Estimated cost 74,501.35

#### HOSPITALS

Vegreville—General Hospital, per Mr. Chas. Gordon, Certificate No. 379/33, additions to Vegreville General Hospital. Estimated cost 15,000.00

#### SEWERAGE

Turner Valley—Royalite Oil Company, Limited, per Haddin and Miles, Certificate No. 380/33, reconstruction of sewage disposal field. Estimated cost

1,800.00

Plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants as required under Sections 10, 11, 12, 13, 14 and 15 of The Public Health Act were duly examined, and where approval was given, certificates were issued.

Plans and specifications other than those aforesaid, but required by the Provincial Board of Health, were examined, and the necessary action taken thereon.

Plans and specifications in connection with the sanitary engineering works submitted to the Board of Public Utility Commissioners, were also examined and advice given.

Plans and specifications in connection with the sanitary engineering works connected with hospitals under The Hospitals Act and The Municipal Hospitals Act were examined and advice given thereon.

Sanitary engineering works in connection with the institutions under the administration of the Department of Public Works were visited and advice given where necessary.

Private sewage disposal systems in connection with schools, etc., were examined, and advice given as to maintenance and operation.

Typical plans dealing with sewage disposal, heating, ventilation, water filtration, etc., have been prepared, printed and distributed. These have been available to those who request information on these subjects. It is interesting to note that the demand for this information is increasing as people in rural areas desire to modernize their homes by installing running water and the utilities in connection therewith.

During the year, 1,452 reports on the analyses of water and ice were received from the Director of the Provincial Laboratory. These were examined and, where necessary, action in the matter of prohibiting the use of the supply was taken, or an investigation made for the purpose of advising as to a remedy.

Under the sanitary inspection section of the Sanitary Engineering Branch of the Department, the following work was carried out by our three inspectors (one full time, two part time):

Two hundred and eighteen health districts were visited and inspected. Of this number 74 were inspected a second time, making a total of 292 inspections.

Sixty-three lumber, tie, saw-mill and mining camps were visited and inspected.

Fifteen Dominion and Provincially operated unemployment camps were visited and inspected.

One hundred and eight notices to abate nuisances were issued by our inspectors, and a great number were issued by Local Boards of Health on the advice and recommendation of our inspectors.

During the year, the need for prosecution of offenders against The Public Health Act and Regulations had shown a marked decline. Only three cases were prosecuted. Two were assessed the minimum fine of \$5.00 and costs, the third was assessed a monetary fine and costs or 14 days' imprisonment with hard labour. Owing to the fine and costs not being paid, the accused was committed to jail.

Fifty-three requests for the services of an inspector were received, asking for assistance in clean-up campaigns, selection of nuisance ground sites, sites for cemeteries, slaughter-houses, etc. All were attended to, and satisfactory results were obtained.

Two hundred and seventy pounds of meat were condemned as being unfit for food for human consumption. This was seized and rendered unsaleable as food for human consumption.

In addition to regular sanitary inspections, the services of the inspectors are available and have been used in investigating outbreaks of infectious and contagious diseases.

Of the three inspectors, one is on full-time. One inspector devotes part of his time to dealing with office routine with respect to the system of centralized supervision of purchasing in operation in the Department. Two-thirds of the time of the other inspector is spent in the two full-time health districts.

The Public Health and Institutional Occupational Therapy Exhibit was again held during the Edmonton Exhibition, and was the subject of very favourable comment from exhibition officials and a large number of visitors. The occupational work of patients in our various mental institutions received much admiration, and as this work is increased the need for more room for exhibiting the same has been felt. We have been assured by the Edmonton Exhibition Association of the full use of the whole ground floor for our 1934 exhibit.

The Public Health Regulations are under revision.

# Dental Hygiene Division

(A. E. HEACOCK, L.D.S., D.D.S.)

During the year 1933 dental treatment was accorded the patients in the Provincial institutions as formerly. The Central Alberta Sanatorium was visited monthly except in August and November. The Provincial Mental Institute was visited at frequent intervals during the year and the Provincial Training School was visited twice, once in June and again in December.

There exists a pressing need for dental service for school children in the outlying districts. An effort was made this year to meet the demands from some of the more isolated points, in so far as available funds would permit. An itinerary was outlined to include Worsley, Notikewin, Slave Lake, Fawcett, Wandering River and Plamondon. In spite of the early advent of winter, making travel somewhat difficult, these points were all visited and successful clinics held.

The following table shows the work done in these districts:

Number	of	children examined	467
Number	of	children recommended for treatment	302
		children given treatment	285
Number	of	prophylactic treatments	7
Number	of	fillings	149
Number	of	extractions	389

### Mental Health Division

(C. A. Baragar, M.D., Commissioner of Mental Institutions and Director of Mental Health)

Separate reports are submitted as follows for each branch of this division:

Eugenics Board,

Mental Health Clinics,

Provincial Mental Hospital, Ponoka,

Provincial Auxiliary Hospital, Claresholm,

Provincial Mental Institute, Edmonton,

Provincial Training School, Red Deer.

Psychopathic Ward, University Hospital.

The institutional population again shows a definite increase. On January 1st, 1933, this stood at 1,846—males 1,149, females 697—and on December 31st, 1933, at 1,957—males 1,214, females 743—an increase of 111 during the year. As our ratio of mental patients to population is even yet well below that of at least seven of the nine provinces and of the average for the United States and Canada, a further increase may be expected.

To relieve the congestion on the women's wards at the Provincial Mental Hospital, on October 31st and November 2nd, 100 patients were transferred from that institution to the Claresholm School of Agriculture, which had been taken over, renovated, and redesignated the Provincial Auxiliary Hospital. It was formally opened on November 8th by the Honourable George Hoadley, Minister of Health.

Notwithstanding this additional accommodation, overcrowding except on the women's wards was even more acute at the end of the year than at the beginning. More accommodation is needed especially in the forms of a separate reception and acute treatment unit at the Provincial Mental Hospital, in which under the most suitable environment and with every facility, acute and early cases could be given the benefit of the most modern treatment.

The Provincial Training School is quite unable to cope with the increasing demands on its accommodation. Unfortunately, its efforts have to be confined largely to the care of the more hopeless but more urgent low grade cases rather than to the training of the socially more serious but more hopeful high grades.

Owing to the economic situation the Psychopathic Ward of the University Hospital was closed on March 31st. For the observation and treatment of early and borderline cases, and for the elimination of the necessity of detention of mental cases in police stations, it has been greatly missed. With an improvement in the times it is hoped that this much needed service will be restored.

On May 31st the training school at the Provincial Mental Hospital graduated its first group of psychiatric nurses and attendants, an event that may be regarded as a very important milestone in the history of the mental hospitals of the Province.

The regular mental health clinics have been carried on in Edmonton, Calgary and Lethbridge, as usual, and in addition a fourth one was instituted in Medicine Hat on November 17th. It is expected that this will continue quarterly. Its gratifying success was largely due to the enthusiastic co-operation of the doctors, school and health authorities of the city. The one large section

of the Province that yet remains to be served in this manner is the Peace River district.

On the authority of the Minister the Eugenics Board was constituted a visiting board at the time of the September meeting, and conducted a thorough inspection of the various mental hospitals.

During the year the number of cases submitted to the Eugenics Board and approved increased to 288, and of these, 206 had been operated on. With the appointment on September 22nd of Dr. L. C. Conn of Edmonton and Dr. Robert O'Callaghan of Calgary as honorary consultants to the mental hospital service, and the establishment of a surgical centre at the Provincial Mental Hospital, this work can in future be done at a relatively greatly reduced cost to the Province.

The various addresses and radio talks delivered from time to time by officers of the service constitute an important part of the mental health work of the Department. As a result of all these efforts there would appear to be developing a more intelligent conception of and humane attitude towards mental disease and defect.

In conclusion, I would like to commend to your consideration the splendid work that is being done by the various superintendents and the members of their respective staffs.

May I also express my deep appreciation of the unfailing sympathy and interest manifest and of the advice and encouragement I have received from both yourself and the Deputy Minister when problems of mental health have been under consideration.

## Eugenics Board, Province of Alberta

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

Under the provisions of the Statute known as The Sexual Sterilization Act the work of the Eugenics Board has proceeded smoothly throughout the year 1933. Four meetings of the Board were held. These included three sessions in Edmonton, four at the Provincial Mental Hospital, Ponoka, two at the Provincial Training School, and two at the Calgary General Hospital, Calgary.

During the year 35 male and 56 female cases were presented and passed, making a total of 288 cases since the Act was proclaimed. During the year 72 operations—22 male and 50 female—were performed. Of these 8 had been passed in 1932.

The operations have continued to prove uneventful.

In September Dr. L. C. Conn and Dr. Robert O'Callaghan, surgeons to the Board, were appointed honorary consultants to the mental hospital service, and a surgical centre was established at the Provincial Mental Hospital, Ponoka. In future, therefore, it is probable that the majority of the operations will be performed there.

Follow-up reports have in general proved satisfactory, and there is no indication that the fact of sterilization has led to increased immorality. In fact, the reverse would appear to be the case with respect to those patients who have been operated on. This is, of course, due largely to the influence of hospital training, and to the greater subsequent supervision. For this reason an increase in the frequency and thoroughness of follow-up contacts is desirable as soon as the financial situation will permit.

No complaints have been received, and there appears to be a steadily growing recognition of the importance of the work carried out under the Act in a mental hygiene programme.

Total

# Psychopathic Ward, University of Alberta Hospital

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

Owing to the economic situation the Psychopathic Ward of the University Hospital, which was opened for the reception of patients on January 29th, 1931, was closed March 31st, 1933. The patients were either discharged or, if that was impossible, transferred to one of the Provincial mental institutions. Of the staff the resident physician, the charge nurse, one graduate nurse and two attendants were transferred to the staff of the Provincial Mental Hospital, Ponoka.

In order that the records may be complete the usual tables are appended, but as there are so few patients comment on these is unnecessary.

During the period of its operation this special ward served a useful function as a place for the observation of doubtful cases, and the treatment of incipient and borderline cases. It provided also for a limited amount of psychiatric instruction for students and nurses. Since it was closed the need for such a service has been very keenly felt. Many patients have had to be detained in the police cells for whom such treatment was undesirable, and yet it could not be avoided. Other cases have had to be kept at home who would certainly have benefited by a brief period of hospital care. It is hoped, therefore, that as the financial situation will permit, this service will be restored.

ation win permit, this service	*****	C LUSE	neu.					
	7	CABLE	No. 1					
In residence January 1st, 1933 First admissions during 1933						Male 5	Female 10 10	Total 15 27
Re-admissions during 1933						3	1	4
Discharges during 1933						25	21	46
In residence April 1st, 1933						****		
	7	TABLE	No. 2					
SHOWING DISTRIBUTION	OF T	HE AL	MISSIC	ONS JA	N. 1, 19	33-API	RIL 1, 1	933
Mode			M.	%	F.	%	T.	%
Voluntary			13	76.5		70.0	20	74.1
Certificate 1			3	17.6		30.0	6	22.2
Certificate 2 Warrant							1111	********
From institutions			1	5.9			1	3.7
			17			_	27	
Total			11	*********	10	*******	21	100.0
	7	CABLE	No. 3					
SHOWING THE MODE			ARGE O		TIENTS	ADMI'	TTED,	
	Male	%	Fen	nale	%	Tota	1 9	6
Recovered	2	8.0		1	4.8	3		.5
Much improved	1	4.0		3	14.3	4	8	.0
	3	12.0		4	19.1	-		-
Improved	3	12.0		3	14.3	7	14 13	
Improved			24.0 .	- 7	- 33.			_ 27.6
Unimproved	6	24.0	-	3	14.3	9	19	
Observation	****							
		6	24.0 -	— 3	14.		9	- 19.6
Total Discharged	1:		48.0%	10	47.		22	47.2%
Admitted to Institutions:			40.070	10	21.	970 4	e de	41.670
Ponoka	9	36.0		10	47.6	19	41	.3
Red Deer	2	8.0				2		.3
Isolation Hospital	****		*****	1	4.8	. 1		.2
Deaths	- 1 2	8.0	44.0%		52.	4 -		_47.8% .3
Deaths		2	8.0%					- 4.3%
			010.10	-			-	4.0 70

#### TABLE No. 4

SHOWING THE DIAGNOSIS OF THE AD Classification Psychoses with brain tumor		NS, JAN. Female		APRIL 1, 1933 Percentage 3.7%
Psychoses due to drugs and other exogenous toxins Total organic psychoses	2		2 — 3	7.4% 11.1%
Manic-depressive psychoses: Manic type Depressive type	2	2 3	2 5	7.4% 18.5%
Dementia praecox: Catatonic type Paranoid type Total functional psychoses	5	2	2 5 — 14	7.4% 18.5% — 62.9%
Psychoses with epilepsy Psychoneuroses and neuroses Psychopathic personality Without psychoses	1 2 4	1 1 1	1 1 3 5	3.7% 3.7% 11.1% 18.5%
Total	17	10	27	100.0%

TABLE No. 5 SHOWING THE DIAGNOSIS OF PATIENTS DISCHARGED, TRANSFERRED OR DIED, JAN. 1, 1933-APRIL 1, 1933

			-								
	Recovered	Much In	perordi	Improved	proved	Die	p	Pon	oka	Red D	eer
	M.	M.	E.	M. F.	H	M.	Li,	M.	E4	M.	E.
Psychoses with brain tumour					-	1		-		*****	
Psychoses due to drugs and other exogenous toxins	1	1			-	1	-				
Psychoses with other somatic disease			1			1000		*****	-	-	-
Manic-depressive psychoses:											
(a) Manic type			1	1 1	-				23	****	
(h) Dankassina tuna								-	01		
(a) Deptersive type	+	2000	2000	THE PERSON				+	3 ,		
Involutional Melancholia		1000	11111	1000	tons	*****	*****		1		
Dementia Praecox:				2000					00		
(c) Catatonic type	The same										
(d) Paranoid type			1	1		*****	-	7	1	*****	
Psychoses with epilepsy	1					1	1		-		-
Psychoneuroses and neuroses		***************************************	-	2 1				****	***		
Psychopathic personality		-	******	1000	1	-				-	
Without psychoses	-		1		2 1	-	1	****	-	1	-
Transport for the second secon											

#### TABLE No. 6

TABLE No. 6			
SHOWING BY WHOM PATIENTS REFER	RED		
Referred by		Female	Total
Edmonton physicians	7	5	12
Other physicians Mental Hygiene Clinics	1	3 2	3 3
Juvenile court	2		
Edmonton city police Royal Canadian Mounted Police	1	4444	1
Provincial Mental Hospital, Ponoka	1	****	1
Y. M. C. A	1	100	î
Member Legislative Assembly Workness's Compensation Board	1	400	1
Unknown Board	1		1
motol .		-	
Total	17	10	27
NUMBER OF CONSULTATIONS			
Congultations	Male	Female	
Consultations Re-examined consultations	75 31	69	144
Total	106	98	203
WHERE PATIENT SEEN			
Where Seen	Male	Female	Total
General hospitals	23	32	55
In own home Patient not seen but reported by relatives and friends in	1	8	9
consultation	6	2	8
In Edmonton police station	12	3	15
R.C.M.P. guardroom Provincial Gaol	7	2	9
Psychopathic Ward, University Hospital, Edmonton	5	1	6
In city physician's offices In central office, Administration Building	8	6	2 14
Welfare institutions		5	5
General hospitals outside of the City of Edmonton  No stated place of consultation	3	2	5
No stated place of consultation	9	6	15
Total	75	69	144
WINDS OF GOVERNMENT			
NUMBER OF CONSULTATION CASES RECOMMENDED OF PROVINCIAL MENTAL HOSPITALS OR THE PSYCHOLOUPERSITY HOSPITAL Admitted to	PATHI	C WARI Male	Female
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHOUNIVERSITY HOSPITAL Admitted to Psychopathic Ward Provincial Mental Hospital, Ponoka	PATHI	Male	Female 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver	PATHI	Male	Female
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to:	PATHI	Male 4 10 1	Female 2 5
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward  Provincial Mental Hospital. Ponoka  Provincial Mental Institute, Oliver  Recommended for admission to:  Provincial Mental Hospital, Ponoka  Psychopathic Ward	PATHI	Male 4 10 1	Female 2 5
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer	PATHI	Male 4 10 1	Female 2 5 9
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board	PATHI	Male 4 10 1 10 2 1 1	Female 2 5 9 1 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer	PATHI	Male 4 10 1 10 2 1 1	Female 2 5 9 1
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total	PATHI	Male 4 10 1 10 2 1 1	9 1 2 5  9 1 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total  CONSULTATIONS REFERRED	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward  Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to:  Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total  CONSULTATIONS REFERRED  by	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 1 1 Male F	9 1 2 2 2 2 2 2 1 emale
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total  CONSULTATIONS REFERRED by Doctors Parents	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 1 1 31 Male F	9 1 2 2 2 2 2 1 emale 50
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 31 Male F 31 3 3	9 1 2 2 2 2 2 1 emale 50 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 31  Male F 31 3 3 10	9 1 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2 2 2 2 2 1 emale 50 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total  CONSULTATIONS REFERRED  by Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 31 Male F 31 3 10 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2 2 2 2 1
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department Provincial Relief Department City Relief Department City Relief Department City Relief Department	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2 2 21 emale 50 2 2 1 1
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department Provincial Relief Department City Relief Department Department of Education	PATHI	Male 4 10 1 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2 2 2 2 1 emale 50 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 2 1 2
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department Provincial Relief Department Department of Education Department of Pensions and National Health	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2 2 21 emale 50 2 2 1 1
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department Provincial Relief Department City Relief Department Department of Education Department of Pensions and National Health Workmen's Compensation Board Church of England Bishop	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 31  Male F 31 3 3 10 7 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2 2 21 emale 50 2 2 1 1
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department Provincial Relief Department Provincial Relief Department Department of Education Department of Pensions and National Health Workmen's Compensation Board Church of England Bishop Member of Legislative Assembly	PATHI	Male 4 10 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 2 2 21 emale 50 2 2 1 1
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department Child Welfare Department Crity Relief Department Department of Education Department of Pensions and National Health Workmen's Compensation Board Church of England Bishop Member of Legislative Assembly Civil Service Commissioner	PATHI	Male 4 10 1 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pemale 2 5 9 1 2 2 2 1 2 4 1 1
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department Child Welfare Department Department of Education Department of Education Department of Pensions and National Health Workmen's Compensation Board Church of England Bishop Member of Legislative Assembly Civil Service Commissioner Sister Superior	PATHI	Male 4 10 1 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pemale 2 5 9 1 2 2 21 emale 50 2 2 1 2 4 1 1
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  Total  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department Provincial Relief Department City Relief Department Department of Education Department of Pensions and National Health Workmen's Compensation Board Church of England Bishop Member of Legislative Assembly Civil Service Commissioner Sister Superior	PATHI	Male 4 10 1 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pemale 2 5 9 1 2 2 2 1 2 4 1 1
PROVINCIAL MENTAL HOSPITALS OR THE PSYCHO UNIVERSITY HOSPITAL  Admitted to  Psychopathic Ward Provincial Mental Hospital, Ponoka Provincial Mental Institute, Oliver Recommended for admission to: Provincial Mental Hospital, Ponoka Psychopathic Ward Provincial Training School, Red Deer Admission to an institution ultimately, not now Recommended for presentation to the Eugenics Board Admission to an Old Folks' Home  CONSULTATIONS REFERRED  by  Doctors Parents Friends or relatives Edmonton city police Royal Canadian Mounted Police Juvenile court Gaol warden Attorney General's Department Child Welfare Department Child Welfare Department Department of Education Department of Education Department of Pensions and National Health Workmen's Compensation Board Church of England Bishop Member of Legislative Assembly Civil Service Commissioner Sister Superior	PATHI	Male 4 10 1 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pemale 2 5 9 1 2 2 21 emale 50 2 2 1 2 4 1 1 2

#### DEPARTMENT OF PUBLIC HEALTH

#### DIAGNOSIS OF CONSULTATIONS

	Diagnosis	Male	Female
1	Traumatic psychoses	1	****
2	Senile psychoses	4	
3	Psychoses with cerebral arteriosclerosis	4	1
4	General paralysis	2	
5	Psychoses with cerebral syphilis		
7	Psychoses with brain tumour		1
8	Psychoses with other brain or nervous disease	1	1
9	Alcoholic psychoses		
10	Psychoses due to drugs and other exogenous toxins	1	1
12	Psychoses with other somatic disease	1	4
13	Manic-depressive:		19
	Manic type	2	6
	Depressive type		1
	Other types		2
14	Involutional melancholia		5
15	Dementia Praecox:		
10	Catatonic type	2	
	Paranoid type	3	9
	No type stated	7	6
16	Paranoia and paranoid conditions	3	4
17	Epileptic psychoses	1	*
18	Psychoneuroses and neuroses:	1	1010
10			5
	Hysterical type		3
	Psychasthenic type		0
	Neurasthenia	3	
10	Other types	3	1
19	Psychoses with psychopathic personality		
20	Psychoses with mental deficiency	1	1
21	Undiagnosed psychoses	20	9
22	Without psychoses:		
	Epilepsy without psychoses	1	2
	Alcoholism without psychoses	****	****
	Drug addiction without psychoses	1110	1111
	Psychopathic personality without psychoses	1	2
	Mental deficiency without psychoses	6	9
	Other conditions	8	3
		-	-
	Total	75	69

### Mental Health Clinics

(C. A. Baragar, M.D., Commissioner of Mental Institutions and Director of Mental Health)

During the year a fourth clinic in Medicine Hat has been added to the regular clinics previously being held.

The Edmonton Clinic has been conducted by Dr. W. J. McAlister and the Calgary and Lethbridge Clinics by Dr. Geo. A. Davidson, while the Commissioner maintains a close contact with them all.

During the early part of the year Miss Agnes Starkie and Mr. E. J. Kibblewhite, social workers, assisted at the Edmonton and southern clinics respectively. On Miss Starkie's resignation on March 31st, Mr. Kibblewhite was transferred to Edmonton, and has since been in charge of the social work for the Province.

In Edmonton the assistance of Dr. H. E. Smith, of the University of Alberta, as consultant in psychology, and of Miss Young, nurse in charge of the Out-Patient Department, have proved invaluable. Likewise the assistance of Miss Lavell and Miss Craig. public health nurses in Calgary, and of Miss Tilley, who is in charge of the Nursing Mission in Lethbridge, have proved indispensable.

The outstanding event of the year was the inauguration of the new clinic at Medicine Hat. With the sanction of the Minister of Health, and after a preliminary survey by the social worker, it was held on November 17th, 18th and 19th—three full days—and proved an outstanding success. That this was the case was largely due to the interest, initiative, encouragement and support of Dr. F. W. Gershaw, M.P., Mr. Hector Lang, M.L.A., Magistrate W. H. Ellis, the late Inspector F. S. Carr, Mr. Souch, chairman of the School Board; Dr. H. C. Dixon, a member of the Board; Mr. Peasley, senior principal; Mr. Black, Dr. McLeod, health officer, and every medical practitioner in the city without exception. Through the courtesy of Dr. McLeod, Miss Murray, superintendent of the hospital, very kindly placed rooms and equipment in the hospital at our service, and the clinic received the able assistance of Miss Smith, school nurse, and Miss Hagerman, Public Health nurse.

In all, 32 cases were dealt with in the three days, including several outside consultations with the doctors. Through the initiation of Dr. Dixon, part of the time was actually spent in and devoted to the schools. This was a new feature, and in this way it is hoped that the clinic may be of assistance to the school board, teachers and parents in handling their problems.

As will be seen from the tables the work with respect to new cases has again increased, although the unsuitable quarters in Edmonton and the absence of a resident social worker in Calgary have proved somewhat of a handicap. In connection with the Lethbridge and Medicine Hat clinics an interesting fact is the great distances some cases have been brought to attend a clinic.

Patients visiting the clinics receive a physical (especially neurological) and a psychiatric examination, including a psychometric where indicated, and appropriate recommendations are made. For the correction of physical disabilities the patient is referred to his own physician. For problems arising out of a mental or social maladjustment the patient himself, or the parent or guardian or the referring agency is advised how the case may be dealt with. Interviews with

parents or guardians are sought whenever possible in order that their confidence may be won, and their intelligent and sympathetic co-operation secured.

At present we are touching but four centres, yet there are many other centres, particularly in the Peace River district, into which clinics might be introduced with advantage.

Many different agencies have co-operated in referring cases, the chief among these being the Department of Dependent and Neglected Children, parents and guardians, schools and medical practitioners. The interest of these men and women in the mentally and socially handicapped is reassuring.

It will be noted that of the new cases 10.4% were in the pre-school age, 56.4% in the school age, and 33.1% were adults. In 39.2% mental deficiency with or without complications was a factor. In 7.1% epilepsy was a problem, and in 13.5% of the cases there was a behaviour problem with defect. The tendency to refer normal subjects for vocational guidance is still present and is not to be discouraged.

While every possible assistance is given those referring cases to the clinic in solving their problems, it may be inferred from the very nature of the cases that the work of adequately dealing with them is greatly handicapped by lack of accommodation in the Provincial Training School and other appropriate facilities such as supervised hostels for boys and girls, farm colonies and suitable homes. In a new country and particularly at a time of economic distress, one cannot expect to acquire all these facilities suddenly, but they constitute goals toward which we may work.

TABLE No. 1 SUMMARY OF CASES PRESENTED AND FOLLOW UP REPORTS

Totals	9	62	6	58	27	08
	309	653	326	332	1342	1366
Calgary Lethbridge Medicine Hat	131 55	225 65	118 72 32	148 66	537 202 32	573 184
Clinie Edmonton	New Cases 123	Follow Ups 363	New Cases 104	933 Follow Ups 118	New Cases 571	Cases e 1929 Follow Ups 609

			LABI	TABLE No. 2	2										
	AGE	AND		CLA	SEX CLASSIFICATION	ATI	NO								
	Edmon	ton	0	deary	Let	hbric	lge	Medi	cine	Hat		Tota	ds	д	ercent
4	M. F.	H	M	F. T	. M	F.	H	M. F.	H	T.	M	F	H	M.	ín,
	6 1	-	9	6 12	-	9	9	63	-	63	14	14	28	7.9	9.4
	9 11	20	25	11 36	9	10	11	7	4	=	47	31	78	26.4	20.9
	16 12	28	53	9 38	00	-	15	9	4	10	59	32	16	33.1	21.6
	7 6	13	00	9 12	10	01	-	63	-	00	17	18	32	9.5	12.1
	23	10		10	03	4	9	-		-	9	16	53	3.4	10.8
	6 4	10		01	-			-		-	1-	9	13	3.9	4.1
	1	-		-	1	4	NO.	:		1	1	9	7	9.0	4.1
		7		-		00	00				00	ro	00	1.7	3.4
	1 1	67	00		00	1	4		00		1	ro	12	3.9	3.4
	60	101	01		03	00	10				9	00	6	3.4	2.0
	-	-	7	2		**	4				10	9	11	2.8	4.1
					1	10	9				-	NO.	9	9.0	3.4
	4	4	03								4		4	2.2	
w.n	1 1	61				-					-	1	6.1	9.0	0.7
e e e e e e e e e e e e e e e e e e e	E0 45 104 79 46 119	13	100	110	100	17	90 44 79	10 10 00	100	00	170	140	170 900 901	10007 10007	1000

# TABLE No. 3 CLASSIFICATION ACCORDING TO INTELLIGENCE QUOTIENT, I.Q.'s OF 75 AND LESS

	Edmonton		Calgary		Lethbridge		Medicine Hat		Total						
I.Q.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
0-25	1	2	3	2	199	2	44.0	1	1	1	-	1	4	3	7
26-50	4	4	8	3	4	7	3	2	5	4	2	6	14	12	26
51-57	19	18	37	15	18	33	5	9	14	7	6	13	46	51	97
	-	-		-	-		-		-	-	-	-	-	-	
Totals	24	24	48	20	22	42	8	12	20	12	8	20	64	66	130

#### TABLE No. 4 AGENCIES REFERRING CASES

1101	. C. A. A. A. A. A.		O'R MAD MANUE		
Agency Child Welfare Department	Edmonton 25	Calgary	Lethbridge	Medicine Hat	Total 29
Children's Aid	20	9	1	****	A
	1111	0.4	4	2000	- 4
Juvenile Court	1111	24	4	****	28
Other courts	****	****	7	****	7
Schools, school nurses	27	44	2	8	81
Parents, guardians, friends	14	12	10	****	36
Mountview Home		5		****	5
Beulah Home	2		100	1111	2
Salvation Army	2		****	****	2
Civic Relief Department	4		****		4
Provincial Health Department	****	6	3		9
Doctors	9	12	23	24	68
Other clinics	12	5			17
Pensions Department		3		1000	3
Women's Institute			1		1
Nursing Mission			9		9
Pad Cross Victorian Orden	****	9		****	3
Other egeneles	0	1	0	****	10
Other agencies	9	1	8	1111	19
					000
Total	104	118	72	32	326

### TABLE No. 5

	TABLE				
CLA	SSIFICATIO	N OF C	ASES		
Classification	Edmonton	Calgary	Lethbridge	Medicine Hat	Total
Pre-School Age:		-			
Examination only	3	3	2	****	8
Mental deficiency	2	5	2	1	10
Mental deficiency with be-					
haviour			1	****	1
Epilepsy	1	2	1	****	4
Nerve deafness only	1111	****	****	1	1
Retarded development Behaviour problem only	2	2	1	1	5
Infantile hemiplegia			1	100	1
Cerebral diplegia	****	1			î
Stammering		î		****	î
Ottomic Ing					
Totals	8	15	8	3	34
School Age Cases:					
Vocational guidance only			2	1011	2
Mental deficiency	8	9	2	5	24
Mental deficiency with be-					
haviour	18	12	7	12	49
Mental delinquency with					
stealing	6111	1	2	1111	3
Mental deficiency with sex	-				
delinquency	5	1	1111	1010	6
Mental deficiency with cere-					
bral diplegia	8	12	1	2	23
Backward in school only	0	10	3	-	13
Delinquency without defect Behaviour without deficiency	5	18	3	1111	26
Epilepsy	1	5	i	1	8
Encephalitis with behaviour					
problem		- 1			1
Personality problem	5	î	4	3	13
Habit spasms		1			1
No specific trouble	7	5		2000	12
Nervous condition			2	****	2
Totals	57	77	27	23	184
Adults:					
Mental deficiency	****	2	****	1	3
Mental deficiency with sex					
delinquency	6	6	1	****	13
Mental deficiency with be-	-				10
Personality problem with	7	2	1	1000	10
psychoneurosis	14	9	17	5	45
Excessive nervousness		1	3		4
Alcoholism, drug addiction	2		i	1111	3
Hyperpesia		2010	2	****	2
Epilepsy	4	1	6	****	11
Hemiplegia			i	****	1
Encephalitis	2				2
Other conditions	4	5	5		14
Totals	39	26	37	6	108
				-	
Grand totals	104	118	72	32	326

#### TABLE No. 6 CAUSES OF MENTAL DEFICIENCY Edmonton Calgary Lethbridge Medicine Hat Cause Total Some positive heredity known 4 2 Sickness, injury, epilepsy ..... Unknown Totals TABLE No. 6A MAJOR COMPLICATIONS OF MENTAL DEFICIENCY CASES Complication Behaviour problems and delinquency without sex de-Edmonton Calgary Lethbridge Medicine Hat Total linquency Sex delinquency Epilepsy Speech and hearing defect Encephalitis with conduct dis-turbance Cerebral diplegia General retardation ..... TABLE No. 6B Recommendations Edmonton Calgary Lethbridge Medicine Hat Sterilization and supervision 7 6 2 1 Institutional training and care 17 9 6 3 Medical and surgical treatment 4 2 Medical treatment, epilepsy 2 Continue present treatment with periodical return visits to clinic 11 10 Modified school work Total Modified school work Special class at school Placement in good home Changed methods of discipline and supervision Other recommendations 3 Totals TABLE No. 7 Recommendations Admission to Provincial Mental Hospital, Ponoka Admission to Provincial Training School, Red Deer Treatment by own doctor or other clinic Treatment given, including direct treatment of epilepsy Continue home or institutional treatment with periodical visits to clinic Change in home discipline, etc. Change in home discipline, etc. Supervision by and report to probation officer Encourage normal development and wider interests More vocational work and social activities Sterilization and supervision CHIEF RECOMMENDATIONS AS TO TREATMENT Edmonton Calgary Lethbridge Medicine Hat Sterilization and supervision Change in habits and occupation Modified school programme or special class Regular life, encouragement and reassurance Placement in good home Return to clinic for further ex-amination Placement in Old Folks' Home. Special school for deaf

Other recommendations

Totals

# Provincial Mental Hospital, Ponoka, Alberta

(G. A. DAVIDSON, M.D., Medical Superintendent)

At the beginning of the year there were 1,217 patients in residence, 621 male and 596 female. This shows an increase of 21 patients as from January 1st, 1932. The actual increase was considerably more than this, however, as 107 patients were transferred to other hospitals—the majority to the Provincial Auxiliary Hospital at Claresholm.

At the end of the year there were 1,226 patients in residence, 683 male and 543 female. These figures show that the increased accommodation provided at Claresholm was only sufficient to look after about one year's increase in patient population. The number of male patients in residence had increased by 62, while the number of female patients in residence had decreased by 53. Both sides of the hospital show quite marked overcrowding, and all available space is being used.

The total number of admissions for the year was 461 as compared with 497 for the preceding year (36 patients less). Of these, 355 (77.1%) were first admissions, and 98 (21.3%) readmissions. Eight (1.08%) were transferred from other institutions.

Of the first admissions, 79 (17.1%) were by voluntary application, while 276 were committed by various methods. Voluntary admissions have decreased by almost 7% as we had fewer patients admitted voluntarily for malarial treatment. This would appear to be due to the fact that the number of untreated neuro-syphilitics in the Province is gradually decreasing.

Of the admissions, 184 (39.9%) were Canadian born, 77 (16.7%) were natives of Great Britain or British Possessions, 89 (19.3%) were natives of the U.S.A., and 111 (24.08%) from all other countries.

A total of 1,680 patients were treated during the year, a decrease of 17 under last year.

During the year 249 patients were discharged, 107 were transferred to other institutions, 30 were deported, 65 died, and 3 eloped, totalling in all 454 patients. The discharge rates as distinct from transfers, deportations and deaths were 54.8% of the total admission rate.

The death rate, based on the total number under treatment and observation, was 3.87%. This is slightly higher than last year (3.59%). Respiratory diseases (including tuberculosis—21 cases) accounted for 60% of the deaths. The number of tuberculous cases is large, but this is partly due to the fact that cases of tuberculosis have been transferred from the Provincial Mental Institute at Oliver to this hospital, as their facilities for caring for these patients is limited. One death only was due to general paresis. One death was due to typhoid fever. Two deaths were unfortunately due to suicide by hanging. Two deaths were accidental, due to injuries from falls.

It is interesting to note that the first Annual Report of Mental Institutions for the year 1932, published by the Dominion Bureau of Statistics, shows Alberta to have the lowest death rate in Canada in proportion to the admissions and separations, and further that Alberta has the lowest mortality rate of any Province in Canada per 1,000 patients under treatment.

#### ACCIDENTS

On the male side of the hospital there were two major accidents. One of these was a rather severe burn due to a fall against a radiator, and the other resulted in the patient's death. This patient managed to get through a window onto a roof and, while attempting to escape, fell to the ground and fractured a vertebra. Five other patients suffered fractures, but none proved serious.

On the female side of the hospital, six patients suffered fractures. One female patient succeeded in tearing a guard from a window and, in a period of confusion, jumped to the ground, and she also suffered from a fractured vertebra, which resulted in her death. This was the only fracture that proved fatal.

Fractures seem to occur in direct proportion to the amount of overcrowding on the wards. It would appear that this partly accounts for the greater number of fractures on the female side of the hospital.

Considering the number of patients and the crowded quarters, the number of accidents has been small.

A special form has been introduced to report all cases of injuries, accidents and elopements, and is proving of much benefit in keeping acquainted with these.

#### ELOPEMENTS

Twenty-one patients eloped from the male side of the hospital, and with the exception of three, all were returned, most of them within a few hours. There were seven attempts at elopement from the female side, but all were quickly returned without mishap.

# GENERAL HEALTH.

We have been again fortunate in having little sickness among the staff and patients. Again no serious epidemics occurred. Six cases of typhoid occurred, three among patients and three in the staff. A special endeavour was made by the staff to locate any typhoid "carriers," and with the valuable aid and suggestions of Dr. Bow and Dr. McGugan, three carriers were located, and these have all since had their gall bladders removed. No case of typhoid has occurred now for some months, and the last three cases reported were traced to one of the operative cases. More than 800 examinations of stools and urine were made, and the staff deserves much credit for the patience exhibited and the amount of work done. Inoculations of female staff and new admissions has been continued.

Physical examinations of all new members of the staff have been continued.

Sick nurses are now cared for in a separate suite of rooms above one of the wards. This has proved a great advantage, as nurses here can be cared for more readily both as to nursing and medical care. The new quarters also, are much more suitable for the care of the sick.

### STAFF

On July 31st Dr. Anna Martins resigned her position as medical interne. Her position was not filled, but an additional graduate physician, Dr. R. C. Hamilton, was taken on the staff on April 1st, and is serving as junior assistant physician. Otherwise our medical staff has remained unchanged.

Mr. J. W. Stanley, who served the hospital faithfully since May, 1924, in the position of tailor, retired on superannuation, July 22nd, 1933.

# CLINICAL WORK

There has been little change in the method of working up new cases. An endeavour is now made to collect all possible information on new patients within three weeks of admission, when the case is presented to a meeting of the medical staff for diagnosis and discussion. Staff conferences have been continued as formerly.

Prophylactic Malarial treatment has continued. In all, 52 syphilitic cases were given malaria (24 G.P.I. and 28 not psychotic).

The superintendent of the hospital has continued to do about one-half of the Mental Hygiene clinics at Calgary and Lethbridge.

#### DENTAL CLINIC

The dental department has continued to do most useful work under the direction of Dr. S. M. Snedden. All patients are examined as a routine following admission, and the patients who have been in hospital for any length of time are examined at intervals. The following is a report of the work done:

Full upper and lower dentures		Scalings 507
Partial upper dentures	2	Treatments 605
Partial lower dentures	2	X-Rayed
Resetting dentures	2	Gold inlays 6
Relining dentures	2	General anaesthetic
Relieving denture irritation	70	Extractions 1275
Repaired dentures	47	Abscessed teeth 88
Prophylaxis	134	Examination and treatment
Fillings	347	

### X-RAY DEPARTMENT

This department, under the direction of Miss Hilda Bennett, Assistant Superintendent of Nurses, has done much useful work during the year and has proved itself a very valuable aid to the medical staff. A total of 305 films of various parts were taken, made up as follows:

Chests:	****	Kidneys	2
Heart	130	Bones:	20
Foreign bodies	4	Heads	13
Gastro-intestinal	6	Spines	15
Dental	26	Ribs	4
Screens	9	Pelves	5
Skulls	19	Legs	17
Mastoids	2	Feet	6
Sinuses	4	Jaws	1
Gall bladders	1	Out-Patients	15

#### HYDROTHERAPY

There has been little change in this department. Prolonged baths, massage, packs and electrical cabinet treatments have been used in a large number of cases, and in many have proved quite useful.

## OCCUPATIONAL THERAPY

This is one of our most used and most useful forms of therapy. This has been carried almost as far as possible with the number of staff we have. More groups could be put to work outside, more walking parties could be sent out, and the patients in general could be kept more interested with a larger staff. This is something that we hope may be stressed in years to come.

#### SOCIAL SERVICE

The hospital social worker has continued to devote most of his time to the Mental Hygiene Clinics, but has made periodic visits to the hospital to do the necessary work in special examinations, etc. He is a valuable aid in the work being done. Follow up work has been done in the Mental Hygiene Clinics, and the custom of seeing many of the relatives of patients in these clinics has been continued. This is a valuable means of contact.

As time goes on it becomes more and more apparent that much more work could be done in tracing out the families of sufferers from mental disease or deficiency, and in many cases steps could be taken to prevent the development of further mental disorder and cases of mental deficiency could be better dealt with. There is a real need for this work, but little more can be done than is being done at present with our limited staff.

# SURGICAL SERVICE

Our operating room was remodelled and brought up to date during the year. Equipment has been provided which will enable us to do almost any type of surgical procedure, and although the first series of operations was not done until October 5th, things are running very smoothly, and up to the end of the year 17 operations had been performed. These operations were mainly on eugenics cases, although several other surgical operations have been performed (gall bladders removed, herniotomies).

On September 20th, 1933, Dr. Robert O'Callaghan, of Calgary, and Dr. L. C. Conn, of Edmonton, were appointed honorary surgeons to the hospital.

Miss Matilda McCaughey was appointed surgical nurse in charge of the operating room, and spent several weeks in the operating rooms of the Royal Alexandra Hospital, Edmonton, acquainting herself with new procedures.

It is felt that a good start has been made, and we believe that, in equipping a surgical centre in this hospital, the hospital has become much more efficient.

# NURSES' TRAINING SCHOOL

The training school has continued to operate successfully, and this year saw the first classes graduate and receive their diplomas and certificates in psychiatric nursing. Eight nurses and 23 attendants graduated after having completed three years of training. Classes in both groups should complete their training each year now.

The post-graduate course has been continued, and the time of this course has been increased to cover twelve months of training. This course has been arranged to cover 120 hours of formal instruction and rotation services of the various wards of the hospital. It has been separated entirely from the student nurses training.

Again it is a pleasure to thank the medical and nursing staff for the willingness that they have shown in undertaking the amount of teaching that is necessary in successfully carrying out the lectures in these classes. We feel that the training of staff in the proper care of patients is a work that is second to none that we undertake.

The following were the numbers commencing training in the various classes:

Nurses training:		Attendants training:	
Third year	11	Third year	12
Second year	13	Second year	
First year	18	First year	- 5
Post-graduate students			10

# LIBRARIES

A general library has been started for patients and now has about 350 volumes. Although this is not a large number, it is a good start, and the patients have been quick to take advantage of this service. All the books scattered throughout the hospital were gathered up and repaired. Two social functions were held to raise money for the patients' library fund, and we hope to add books from time to time. A few books were donated.

A few volumes have been added to the medical library, and this library has proved a very valuable asset to the medical and nursing staff.

#### RELIGIOUS SERVICES

These have continued as in the past, and we are grateful to the ministers for their services and their periodic visits to see our patients.

# RECREATION AND ENTERTAINMENT

Moving picture shows had to be discontinued during the year, as it is no longer possible to get silent pictures which have not been shown. We hope that equipment may be secured so that talking pictures may be shown. It is felt that it would be better to place any new equipment in the recreation hall. As our Dramatic Society is so active, and as there are many occasions when a stage is needed, we hope that before long a permanent stage with dressing-rooms may be erected. With little expenditure a splendid permanent stage could be erected.

Patients' dances were continued fortnightly throughout the fall and winter season. These are much enjoyed and are always looked forward to by the patients. An endeavour has been made to have each patient provided with a good suit of clothes which can be worn to special events such as church, dances and other entertainments. An effort has been made also to provide a greater variety of patterns and styles for the ladies' dresses.

A Dramatic Society and Glee Club were organized during the year. Both of these have done much to provide entertainment for the patients. The following is a summary of the activities of the Dramatic Society during the year 1933:

The society was organized on January 15th, 1933, the following officers being elected: President, Dr. Cassels; secretary-treasurer, Mr. Gill; members, Miss Crysler, Miss Stacey.

The society's first activity was to sponsor a short play, "How He Lied to Her Husband," which was put on by a cast from Edmonton brought down by Mrs. Haynes. On the same evening the society produced a short play, "A Kiss in the Dark."

This was followed by a dramatic competition in which two short plays were given, "Miss Mary Smith" produced by Miss Bennett and Mr. Schragg, and "Monkeyshines in a Doctor's Office" produced by Mr. David. Mr. David's play was judged the best by the judges, Mr. Bowker, Mrs. Gill and Dr. Davidson.

On May 4th a three-act play "The Clay's the Thing," was produced for the patients, and the following evening it was produced at the hospital for the public. The Glee Club contributed some numbers on the programme.

On September 19th a new executive was elected, consisting of: President, Dr. Cassels; vice-president, Dr. Snedden; secretary-trasurer, Mr. Gill; member, Miss Crysler.

On December 3rd three short plays were produced, "Does Mr. Jones Live Here," directed by Dr. Cassels, "My Cousin from Sweden," directed by Miss Martin, "Frank and Erna" directed by Mr. David.

On December 15th Dr. Mason addressed a general meeting of the society, discussing some personal experiences on the stage.

On December 23rd a Christmas play, "Why the Chimes Rang," was produced with the assistance of the Glee Club.

Patients' Sports Day was held on May 23rd, and was again much enjoyed. We are always grateful to our many friends from Ponoka who assist with this function.

The open air skating rink was again much enjoyed by both patients and staff. Recreational classes have been continued as in the past.

The Hospital Football Club, under the direction of Mr. E. S. James, has continued most successful, and again won most of the trophies that were competed for. The following trophies were held during the year by the club: Red Deer Cup, Lacombe Cup, Ponoka Cup, League Cup.

A series of very enjoyable staff dances were again held throughout the year. These were mainly held in the Recreation Hall because of the amount of warping of the floor in the recreation room of the Nurses' Home. The annual staff "At Home" was again a most successful function, and was much enjoyed by both children and adults.

The tennis and badminton clubs again had most successful years.

# VISITORS

The number of people visiting the hospital seems to increase each year. As in the past, the opportunity of meeting the relatives of patients and getting histories from them has been continued wherever possible. The patient's condition is always discussed frankly with the relatives and, in having them visit, it is felt that there is a much better understanding on all sides.

Again we have had the good fortune of having a number of interested people visit our hospital to learn more of the work that we are doing. This type of visitor is always welcome.

The interest of official, professional and departmental visitors has continued, and we have enjoyed many visits and received much benefit from their visits.

Visits from the Commissioner of Mental Diseases and Director of Mental Health have continued as in the past, and his interest and enthusiasm are always greatly appreciated.

# VISITING COMMITTEE

The Eugenics Board of the Province was invited by the Minister of Health to act as a special inspecting board. They acted in this capacity on the occasion of one of their regular visits in September. All wards, kitchens, patients' dining rooms, the bake-shop, store-rooms, laundry and the farm colony were visited. It was a pleasure to have the Board act in this capacity, and all suggestions offered were gratefully received.

A committee appointed by the Senate of the University of Alberta visited the hospital during the year to inspect our facilities for the training of nurses. This was done with a view to considering the question of our school affiliating with the general hospitals so that our nurses may receive diplomas in both psychiatric and general nursing. It is hoped that our school will receive favourable consideration.

## MEDICAL MEETINGS

Unfortunately these were not held as frequently during the past winter, largely because of the pressure of work and lectures. Plans are under way for the formation of a Medical Society in the hospital and district. It is hoped that this will interest many of the medical men in the neighbourhood, and it is planned that they be invited to present papers and cases at these meetings. The organization of this society is planned for the early fall. A special speaker will likely be invited for each meeting also.

# ACCOMMODATION—ALTERATIONS

During the year accommodation for 100 female patients was provided at Claresholm. This was done by remodelling the Agricultural School at this point. This has made a very satisfactory building, and the wards and day rooms are bright and cheerful.

Fifty patients were transferred to this building on October 31st and 50 more on November 3rd. It is felt that this will be a very useful addition to our present accommodation.

In spite of this, however, it is difficult to see how we can continue much longer without further building. A reception hospital is particularly desired. This should be situated some distance from the other buildings and be made large enough to accommodate all new admissions and to retain all cases that are likely to recover or to make a satisfactory adjustment. In this way recoverable cases could be kept separate from other types while it is necessary for them to undergo treatment.

A one-storey inexpensive building such as our present farm dormitory building would be most useful in caring for aged patients. It would be better to be situated some distance from the general group of buildings, and arranged so that patients could get out of doors easily. A building of this type would do much to relieve our present congestion, and could probably be provided more economically than any other type of building.

#### OPERATING ROOM

Our operating room has been remodelled, and it is felt that this is now most modern and quite satisfactory. Since October practically all eugenic cases have been operated on here. This should mean a large saving in hospital costs. We now have the satisfaction of knowing also that we can care satisfactorily for any type of surgical emergency or necessary surgical procedure. This is also proving very advantageous in the training of our student nurses.

Special dormitories have been provided for known tuberculous patients, and these patients are segregated for the protection of other patients and staff. Balcony accommodation is insufficient and should be provided for in the future, so that these patients may more readily be taken into the open air.

Mr. D. J. Smith, Superintendent of Building Maintenance, has again been instrumental in keeping the buildings in good repair, and has been most cooperative in carrying out any suggestions offered.

Work is continuing on the grounds, and it is hoped to put the new entrance to the hospital into use during the coming year.

# DEPARTMENTAL ACTIVITIES

Laundry.

With the inadequate accommodation that the laundry has, it does excellent work. It is taxed to the limit of its capacity, however, and is no longer large enough or suitably equipped to do the necessary work of the hospital satisfactorily, 1,667,000 articles being laundered during the year. This is an increase over last year of about 133,000 pieces. This is an average of almost 139,000 articles laundered monthly.

Tailor Shop.

Following the retirement of Mr. Stanley, this shop has been under the direction of Mr. W. G. Potter. It has continued to do very good work and keeps many patients occupied.

#### SUMMARY OF WORK

Blue uniforms	75	Towels	608
Blue pants	770	Re-covered mattresses	64
Cordurov trousers	ECA	Pillow cases	813
Corduroy coats	449	Strong blankets	176
Shirts	1162	Mattress cover	1
Cooks' trousers	70	Rubber sheets	151
Cooks' coats	00	Bath hammocks	17
Cooks' caps	2	Pack blankets	41
Surgeons' white trousers	A	Tablecloths	89
White overalls	110	Pack mattresses	2
Restraint suits	31	Bath covers	14
Pyjama suits	2.4	Draw sheets	171
Nightshirts	364	Strong bed cover	1
White smocks	219	Pack sheets	10
Laboratory coats		Strong sheets	40
Kitchen aprons	0.0	Cushion and pillow	1
Attendants' white coats	1775	Pillow ticks	51
Rubber aprons	30	Billiard table cover	1
Ties	1202	Re-covered sheepskins	13
Sheets	2036		

# Occupational Carpenter Shop.

This department has continued to function as in the past. About 40 patients are occupied here, and much useful work is done, both in repair work and in manufacturing new articles.

# Sewing Room.

About 12 female patients are kept employed in this department. Patients' dresses, nightgowns, etc., and nurses' uniforms are now made in this department. It has been our wish to provide as much variation in the dresses of the female patients as possible.

## Stores.

This is a busy department, and the work increases with the increased number of patients. Things continue to run smoothly here.

# Kitchens and Dining Rooms.

There has been little change in the kitchens during the past year. There is considerable overcrowding here, but the staff does excellent work in spite of this. On the whole, one hears remarkably few complains about the food.

The cafeterias continue to operate smoothly and provide an ideal way to handle the food of most patients.

## Garden and Grounds.

Our gardener, Mr. F. H. Mayled, accomplished a great deal with our grounds last year. Thousands of new trees, many rows of hedges and much new work has been undertaken. The grounds are much improved in appearance, and plans are formulated for the continuation of this programme over a period of years.

Flowering plants and cut flowers have been supplied to the wards throughout all seasons and have done much to brighten up the wards.

#### Farm

A complete report of farm activities is being submitted under separate cover. Many patients are kept pleasantly and usefully occupied in this department.

#### Conclusion

One the whole, it is felt that one can look back upon the past year with considerable satisfaction, as things have continued to run smoothly, and it is felt that many new things have been done. Outstanding events are the graduating of the first classes of nurses and attendants; the remodelling and opening of the Provincial Auxiliary Hospital at Claresholm, and the establishment of a

surgical centre at this hospital. Much remains to be done, but there is satisfaction in feeling that progress is being made.

There has been excellent co-operation from the officers and employees of the hospital, and it is felt that all are interested in the care of the patients and the work being done.

It is again a pleasure to express appreciation for the sympathetic co-operation that has been received from the Minister and Deputy Minister of Health. The aid of the Commissioner of Mental Institutions and the Director of Mental Health has been invaluable, and has been greatly appreciated.

TABLE No. 1 MOVEMENT OF PATIENT POPULATION DURING 1933.

MOVEMENT OF PATIENT PO	PULA	TION I	URING	1933.		
	Male	Female	Total		Female	
In Residence January 1, 1933				621	596	1217
Admissions: First Admissions:						
7-1 97-1	63	16	79			
(1) 0	28	55	83			
	135	53				
(d) Order	3		188			
7 - C PRI	3	2 5	5			
Re-admissions:	9	9	0			
(a) Voluntary	19	14	33			
(b) Certificate	3	7	10			
(c) Warrant	36	15	51			
(d) Order	1	1	2			
(e) Transfers	î	î	2 2			
(c) arminer minimum				292	169	461
Returned from University Hospital					2	2
				913	767	1680
Discharged during the year:						
(a) As recovered	27	22	49			
(b) As improved	59	34	93			
(c) As unimproved	12	10	22			
(d) As without psychosis	61	24	85			
(e) Transferred to other hospitals	5	102	107			
(f) Eloped	3		3			
(g) Deported to other countries:						
As recovered	4	1	5			
As improved	13	2 2	15			
As unimproved	7	2	9			
As without psychosis	1	-	1			
(h) Deaths	38	27	65	200	004	45.4
	-	-	-	230	224	454
In recidence of end of year				683	543	1226
In residence at end of year				000	343	1220

TABLE No. 2

SHOWING	THE	PSYCHOSES	IN	THOSE	ADMITTED	DURING	1933

	SHOWING THE PSYCHOSES IN THOSE ADMITTED	DURIN	G 1933	
		Male	Female	Total
1	Traumatic psychoses		****	
2	Senile psychoses	4	8	12
3	Psychoses with cerebral arteriosclerosis General paralysis	21	7	28
4	General paralysis	25	2	27
5	Psychoses with cerebral syphilis			****
6	Psychoses with Huntington's Chorea	****		****
7	Psychoses with brain tumour Psychoses with other brain or nervous diseases:	2070		****
8	Psychoses with other brain or nervous diseases:			
	(a) Chronic encephalitis	2	1	3
		2		2
	(c) Tuberculous meningitis	1		1
	(d) Undefined	1	1	2
9	Alcoholic psychoses:			
0	(a) Delirium tremens	2		2
	(b) Chronic alcoholism	1		1
	(c) Deterioration		1	1
10	Psychoses due to drugs and other exogenous toxins		200	0.7
11	Psychoses with pellagra			327
12	Psychoses with other comptie diseases:	****		
14	Psychoses with other somatic diseases: (a) Post-infectious		1	1
	(b) Diabetes	1		î
13			1111	
10	Manic-depressive psychoses: (a) Manic phase	10	11	21
	(h) Dopposite phase	19	15	34
	(b) Depressive phase			
	(c) Mixed	10.00	3	3
	(d) Circular	1010	1	1
14	Involutional melancholia	****	7	7
15	Dementia Praecox (Schizophrenia):			00
	(a) Paranoid	24	8	32
	(b) Catatonic	51	40	91
	(c) Hebephrenic	1	3	4
	(d) Simple	3	****	3
	(e) Mixed	3	****	3
16	Paranoia and Paranoid conditions	14	7	21
17	Epileptic psychoses	8	3	11
18	Epileptic psychoses Psychoneuroses and neuroses:			
	(a) Hysterical type	4444	****	****
	(b) Psychasthenic type	2	2012	2
	(c) Neurasthenic type		3	3
	(d) Anviety state	1		1
19	Psychoses with psychopathic personality Psychoses with mental deficiency Undiagnosed psychoses			
20	Psychoses with mental deficiency	18	12	30
21	Undiagnosed psychoses	6	5	11
22	WILDOUL DSVCHOSES:			
	(a) Epilepsy	4		4
	(b) Alcoholism	2		2
	(c) Drug addiction	6	5	11
	(d) Psychopathic personality	5		5
	(e) Mental deficiency	21	18	39
	(f) Psychoneuroses	2	1	3
	(a) Hystorical enjectes	1	10.00	1
	(g) Hysterical episodes	î	1010	1
	(h) Organic nervous disease		****	
	(i) Disseminated sclerosis	1 2	++++	1
	(j) Sacro-iliac arthritis		110	2
	(k) Neuro-syphilis	25	4	29
	(1) Sex perversions	1		1
	(m) For consideration by Eugenics Board	1	2	3
	m a a		*****	400
	Total	292	169	461

TABLE No. 3

MARITAL CONDITION OF PATIENTS ADMITTED DURING 1933 WITH REFERENCE TO PRINCIPAL PSYCHOSES

P.	1			1		-	1	-					:				1	1	1 1		-		-		1	-	11	-	-	-
Divorce M. F.	1	-	1	1	1	1	-	1	1	1	-		1010			1	1	1			1	1	1	11	1	1	11	1	11	
Separated M. F. T.	1	-		-		-	-		1	-	-					-	1	-			-		-	-	i	-	11	-	-	-
para F.	1			-		-	-			-	-		****			-	1	-	11		1			l i		-		1	-	-
Sej		1		-		***************************************	1	1	1	-	-		:			1	1	*****			1		-	-		-	11	1		-
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wed																•														-
Widowed						-				-																				
M	1	4	!!	:	-	-		:	i	-		1 1	-				1		1 1		7		1				: :	-		:
THE P	00	178		-		н	-		4	-	-		:		-	00	26	-	-		41		.01	17.		-	00	1	00 4	0
Married M. F. T.	i M	100	1	1	-	1		-	4	-	-					9	14	-	-		270		1	4.	-	-	60	-	1010	,
Ma	.01	212	1		-	1	٠,			1					-	64	12	-			14		.0	200	0	-		-	00-	4
e F	1	440	1	-	1	61	-		1		-			-		10	00		1	8	49	00	00	1101	0	.0	1		19	,
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ses M F		eriosclerosis 21 7	The state of the s	Chorea	11	20	6		4	CA +	-	other exogenous toxins	manner and	c diseases:		11 01	19 15				51 40		60 60	tions 14 7	9	•	1	1	iency 18 12	0
choses M F	- N	arteriosclerosis 21 7	syphilis	on's Chorea	11	20	08is	gitis	*	CA +	-	nd other exogenous toxins	annum min	natic diseases:		11 01	19 15				51 40		60 K	onditions 14 7	roses:	•	9	this nerconality	efficiency 18 12	0
Psychoses		oral arteriosclerosis 21 7	ral syphilis	Ington's Chorea	11	20	clerosis	eningitis		CA +	DSM	gs and other exogenous toxins	annum min	somatic diseases:		11 01	19 15	09 =		cophrenia):	51 40		CO CC	id conditions 14 7	neuroses:	·	De	I I	al deficiency 18 12	G 0
Psychoses	ses	erebral arteriosclerosis 21 7	erebral syphilis	untington's Chorea	11	20	d sclerosis	meningitis		CA +	Onousm 1	drugs and other exogenous toxins	annum min	ther somatic diseases:		11 01	lase 19 15	09 =		cophrenia):	59 5		CO CO	anoid conditions 14 7	nd neuroses:	·	c type	ite	Sychopatine Personativy 18 12	e o e e e e e e e e e e e e e e e e e e
Psychoses	ses	cerebral arteriosclerosis 21 7	h cerebral syphilis	h Huntington's Chorea	11	20	nated sclerosis	lous meningitis		CA +	alcoholism 1	to drugs and other exogenous toxins	annum min	h other somatic diseases:	1	11 01	lase 19 15	09 =		cophrenia):	59 5		type	paranoid conditions	noses and neuroses:	·	henic type	state	h psychopaumic personauty 18 12 however, and deficiency 18 12 however, and the personauty 18 12 however, and	baycronece exemples
Psychoses	ses	with cerebral arteriosclerosis 21 7	with cerebral syphilis	with Huntington's Chorea	11	20	eminated sclerosis 2	erculous meningitis		CA +	onic alcoholism	due to drugs and other exogenous toxins	with pellagra	with other somatic diseases:	1	11 01	lase 19 15			cophrenia):	59 5		ple type	and paranoid conditions	psychoses and neuroses:	·	rasthenic type	liety state	With psychopature personality 18 12	c n bakeringes
Psychoses	ses	psychological arteriosclerosis 21 7	oses with cerebral syphilis	oses with Huntington's Chorea	11	20	Disseminated sclerosis	Tuberculous meningitis		CA +	Chronic alcoholism	oses due to drugs and other exogenous toxins	with pellagra	oses with other somatic diseases:	1	11 01	lase 19 15			cophrenia):	51 40		Simple type	ola and paranoid conditions	oneuroses and neuroses:	·	Neurasthenic type	Anxiety state	oses with psychopaumic personanty 18 12 12 12 18 12 18 12 18 18 18 18 18 18 18 18 18 18 18 18 18	Strosed payernace
Psychoses	ses	ychoses with cerebral arteriosclerosis 21 7	vehoses with cerebral syphilis	ychoses with Huntington's Chorea	11	20				Delirium tremens 2	(b) Chronic alcoholism	ychoses due to drugs and other exogenous toxins	with pellagra	ychoses with other somatic diseases:		11 01	Depressive phase 19 15	Mixed		cophrenia):	59 5	Hebephrenic type	(d) Simple type	ranoia and paranoid conditions	ychoneuroses and neuroses:	•		(d) Anxiety state	ychoses with psychopaumic personanty 18 12 ychoses with membrane deficiency 18 12	uniagnosca paycnosca
Psychoses	Traumatic psychoses	Psychoses with c	5 Psychoses with cerebral syphilis		Psychoses with brain tumour	(a) Chronic encephalitis			nolic psychoses:	Delirium tremens 2		Psych	annum min	Psychoses	Diabetes	c-depressive psychoses:	Depressive phase 19 15	Mixed	utional melancholia	cophrenia):	Catatonic type 51 40	Hebephrenic type			-	Hysterical type			19 Esychoses with mental deficiency 18 12 19 Thellamond personal deficiency 6 5	Olidiagnosed psychoses

# TABLE No. 4 AGES OF PATIENTS ADMITTED DURING 1933

					Adm	irst	admi	te- ssions	Tota	al	
		Age	S		Male	Female	Male I	emale	Male	Female	Total
Uı	nder	15	ye:	ars	4		****	****	4		4
15	to	19	year	'S	18	10		1	18	11	29
20	to	24	**		19	17	5	5	22	24	46
25	to	29	44		32	21	3	2	35	23	58
30	to	34	44		45	16	10	6	55	22	77
35	to	39	**		26	14	12	3	38	17	55
40	to	44	**		20	19	11	4	31	23	54
45	to	49	**		24	8	5	7	29	15	44
50	to	54	44		11	6	4	5	15	11	26
55	to	59	**		14	7	5	3	19	10	29
60	to	64	**		6	4	2	2	8	6	14
65	to	69	**		5	6	1		6	6	12
70	and	l ov	er		8	3	2		10	3	13
			-				-				****
			Te	otal	232	131	60	38	292	169	461

# TABLE No. 5

# NATIVITIES OF PATIENTS ADMITTED DURING 1933

Nativities	Male	Female	Total	Nativities	Male	Female	Total
Canada	114	70	184	Finland	. 2	****	2
Newfoundland	. 1		1	Germany	5	4	9
England	19	19	38	Hungary	9	3	5
Scotland	10	9	21	Italy	9		2
Ireland	0	2	10	Jugo-Slavia	1		1
Wales	1	1	2	Latvia	1		1
Channel Islands		1	1	Lithuania		1	1
Australia	1		î	Norway	77	2	9
India	4	1	2	Poland	10	6	25
West Africa			1	Roumania	1	1	2
Austria	7 '3	3	15	Russia		4	7
Rolgium	1	1	2	Canadan	4	9	6
Bulgaria		î	1	Switzerland	1	-	1
China	25		5	Ukrainia	- 13	A	ê
Czecho-Slovakia	4		e	TT C A	100	30	00
Danmank	9		4	U. S. A			09
Denmark	. 3	1	4	m-4-1	000	100	101
Esthonia	1111	1	1	Total	292	169	461

# TABLE No. 6

# PLACE OF RESIDENCE AT TIME OF COMMITTAL, 1933

	Male Female Tota		Male Female Total
Acadia Valley	1 1	Conjuring Creek	1 1
Altario	. 1 1	Conrad	1 1
Arbutus	4 4	Consort	1 1
Ardrossan	. 1 1	Coronation	1 1
Armada		Cremona	
Arneson		Crossfield	1 1
Ashmont		Czar	0 0
Balzac		Delburne	
Banff		De Winton	
Barons		Diamond City	
Bashaw	0 0	Didsbury	
Beaumont		Duvernay	
D-Il		Eaglesham	
Bellevue		Eckville	
Beverley		Edberg	
Big Valley		T 1	
Bissell		Edmonton	56 30 86
D11-6-13-	9 9	77.4	
P1 664		77.1	
Demonso	1 1	TO annual control of the control of	
Bonanza	4 4	W011 11	
Bonnyville		Ellerslie	
Bottrel		Erin Lodge	
Bow Island		Erskine	
Breton		Faith	
Brooks		Falher	
Bruderheim		Fawcett	
Bruce		Foremost	1 1
Buck Creek		Fort George, B.C.	
Cadogan		Fort McPherson	1 1
Calgary		Fort Saskatchewan	1 1 2
Camrose	. 3 3	Girouxville	
Canmore		Gleichen	1 1
Carbon	1 1	Glenwoodville	
Cardiff	. 1 1	Goodfish Lake	
Carmangay	. 1 1	Grande Prairie	2 2
Caroline	1 1	Grassland	1 1
Castor	2 1 3	Grimshaw	1 1
Cavendish	1 1	Grouard	1 1
Cayley	. 1 1	Gunn	4 4
Cherhill		Gwynne	
Chigwell		Haight	
Chinook	1 1 0	Hardisty	
Coaldale		Hattonford	1 1
Colinton		High Prairie	
Compeer	. 3 3	High River	1 1

Place	Place	Male	Female	Total	Place	Male	Female	Total
Hoadley				1	The second secon			
Holden				1			**	
Hythe				1			-	
Innisfail			3110	1		_		
Dola		-		1		-		3
Jasper	Innisfail	2	1	3	Sangudo		1	1
Jasper	Iola			2	Scapa	1	****	1
Jasper	Jarvie	1		1	Sedalia		1	1
Jenner	Jasper	1	1	2				1
Kashwin				1				1
Kaslan		-		î		-	1	1
Kimball				1				1
Kinuso				1				2
Lacombe			****	1		-	****	2
Lake Isle				1				1
Leduc	Lacombe		1	4	Stanger	1414	1	1
Lethbridge	Lake Isle	1		1	Stanmore	- 1		1
Lethbridge	Leduc	2	1	3	Stavely	1		1
Linaria			8	23		-		2
Lindbergh		-	1	-				1
Lloydminster				1	Ctony Dlain			î
Luscar				1				1
Macleod         2         3         Stry         1         1           Mannville         1         1         1         1         1           Meanook         1         1         1         1         1           Meanook         1         1         1         2         2         3         1         4           Medicine Hat         2         1         3         Taber         3         1         4           Meeting Creek         1         1         Tees         1         1         1           Meeting Creek         1         1         Thelma         1         1         1           Metiskow         1         1         Thelma         1         <				1			4111	1
Mannville         1	Luscar		1	1			4000	1
Meanook         1         1         2         Sunset House         1         1           Medicine Hat         2         1         3         Taber         3         1         4           Meeting Creek         1         1         Tees         1         1         1           Meeting Creek         1         1         Thelma         1         1           Milled         2         2         Trochu         1         1           Milled         2         2         Trochu         1         1           Millet         2         2         Trochu         1         1           Millet         2         2         Trochu         1         1           Morniville         2         2         Vegreille         2         2           Morrin         1         1         Vilna         1         1           Norin         1			****	3	Stry		****	1
Meanook         1         1         2         Sunset House         1         1           Medicine Hat         2         1         3         Taber         3         1         4           Meeting Creek         1         1         Tees         1         1         1           Meeting Creek         1         1         Trees         1         1         1           Meeting Creek         1         1         Thelma         1         1         1           Metiskow         1         1         Thelma         1	Mannville	. 1	****	1	Styal	1		1
Medicine Hat         2         1         3         Taber         3         1         4           Meeting Creek         1         1         Tees         1         1         1           Metiskow         1         1         1         Thelma         1         1           Millat         1         1         Thorsby         1         1         1           Millet         2         2         2         Trochu         1         1         1         1           Moon Lake         1         1         Valhalla Centre         1	Meanook	. 1	1	2				1
Meeting Creek         1         1         Tees         1         1           Metiskow         1         1         Thelma         1         1           Midlandvale         1         1         Thorsby         1         1           Milk River         1         1         Torchu         1         1           Millet         2         2         2         Trochu         1         1           Moon Lake         1         1         Valhalla Centre         1         1           Morrin         1         1         Viking         1         1           Morrin         1         1         Viking         1         1           Mountain Park         1         1         Vilna         1         1           Nanton         1         1         Vilna         1         1           Newbrook         1         1         Warburg         1         1           Newbrook         1         1         Warburg         1         1           Nortmark         1         1         Warburg         1         1           Nortmark         1         1         Warburg         1			1	3			1	4
Metiskow         1         1         Thelma         1         1           Midlandvale         1         1         Thorsby         1         1           Milk River         1         1         Toffeld         2         2           Millet         2         2         Trochu         1         1           Monon Lake         1         1         Valhalla Centre         1         1           Moon Lake         1         1         Valhalla Centre         1         1           Morrin         1         1         Vilking         1         1           Mountain Park         1         1         Vilking         1         1           Nanton         1         1         Vilina         1         1           Newbrook         1         1         Vilina         1         1           Newbrook         1         1         Warburg         1         1           Nordegg         1         1         Warburg         1         1           Nordegg         1         1         Warwick         1         1           Northmark         1         1         Warwick         1 <td< td=""><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td>1</td></td<>				1				1
Midlandvale         1         1         Thorsby         1         1           Milk River         1         1         Tofield         2         2           Millet         2         2         Trochu         1         1           Moon Lake         1         1         Valhalla Centre         1         1           Morinville         2         2         Vegreville         2         2           Morrin         1         1         Viking         1         1           Mountain Park         1         1         Vilna         1         1           Nanton         1         1         Vilna         1         1           Newbrook         1         1         Warburg         1         1           Newbrook         1         1         Warburg         1         1           Newcastle         1         1         Warburg         1         1           Northmark         1         1         Warburg         1         1           Northmark         1         1         Wayne         1         1           Olds         2         2         4         Wetaskien         1				î		_		1
Milk River         1         1         Tofield         2         2           Millet         2         2         Trochu         1         1         1           Moon Lake         1         1         Valhalla Centre         1         1           Morriville         2         2         Vegreville         2         2           Morrin         1         1         Viking         1         1           Mountain Park         1         1         Viking         1         1           Nanton         1         1         Vimy         1         1           Nanton         1         1         Vimy         1         1           Newbrook         1         1         Warburg         1         1           Newcastle         1         1         Warburg         1         1           Nordegg         1         1         Warburg         1         1           Northmark         1         1         Warswick         1         1         1           Northmark         1         1         Warswick         1         1         1           Northmark         1         1		_		î		-	****	1
Millet         2         2         Trochu         1         1         1           Moon Lake         1         1         Valhalla Centre         1         1           Morrinville         2         2         Vegreville         2         2           Morrin         1         1         Viking         1         1           Mountain Park         1         1         Vilna         1         1           Nanton         1         1         Vimy         1         1           Newbrook         1         1         Warner         1         1         1           Newcastle         1         1         Warner         1         1         1         1           Nordegg         1         1         Warner         1<				1		_	****	0
Moon Lake			1				7117	4
Morinville         2         2         Vegreville         2         2           Morrin         1         1         Viking         1         1           Mountain Park         1         1         Vilna         1         1           Nanton         1         1         Vima         1         1           Nanton         1         1         Vima         1         1           Newbrook         1         1         Warburg         1         1         1           Northead         1         1         Warburg         1 <td></td> <td></td> <td>****</td> <td>_</td> <td></td> <td>_</td> <td>10.00</td> <td>1</td>			****	_		_	10.00	1
Morrin							1000	1
Mountain Park         1         1         Vilna         1         1           Nanton         1         1         Vimy         1         1           Newbrook         1         1         Warburg         1         1           Newcastle         1         1         Warner         1         1           Nordegg         1         1         Warner         1         1           Northmark         1         1         Waskatenau         1         1           Notlkewin         1         1         Wayne         1         1           Ogden         1         1         Westlock         1         1           Olds         2         2         4         Wetaskiwin         1         1         2           Peace River         3         3         6         Whitford         1         1         1         1         1         1         2	Morinville	4110	2	2	Vegreville		2	2
Mountain Park         1         1         Vilna         1         1           Nanton         1         1         Vilmy         1         1           Newbrook         1         1         Warburg         1         1           Newcastle         1         1         Warner         1         1           Nordegg         1         1         Warwick         1         1           Northmark         1         1         Waskatenau         1         1           Nottkewin         1         1         Wayne         1         1           Ogden         1         1         Westlock         1         1         1           Olds         2         2         4         Wetaskiwin         1         1         2           Peace River         3         3         6         Whitford         1         1         1         1           Pibroch         1         1         Winfeld         1         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2 <t< td=""><td>Morrin</td><td>. 1</td><td></td><td>1</td><td>Viking</td><td></td><td>1</td><td>1</td></t<>	Morrin	. 1		1	Viking		1	1
Nanton         1         1         Vimy         1         1           Newbrook         1         1         Warburg         1         1           Newcastle         1         1         Warner         1         1           Nordegg         1         1         Warwick         1         1         1           Northmark         1         1         Wayne         1				1			1	1
Newbrook         1         1         Warburg         1         1           Newcastle         1         1         Warner         1         1           Nordegg         1         1         Warwick         1         1           Northmark         1         1         Waskatenau         1         1           Notikewin         1         1         Wayne         1         1           Odden         1         1         Westlock         1         1         1           Olds         2         2         4         Wetaskiwin         1         1         2           Peace River         3         3         6         Whitford         1         1         1           Pibroch         1         1         Winfeld         1         1         2           Pincher Creek         1         2         3         Winterburn         2         2         2           Ponoka         2         5         7         Wood River         1         1         1           Provost         2         2         2         Wostock         1         1         1           Radway         3				1		-		1
Newcastle         1         1         Warner         1         1           Nordegg         1         1         Warwick         1         1           Northmark         1         1         Waskatenau         1         1           Notikewin         1         1         Wayne         1         1           Ogden         1         1         Westlock         1         1         1           Olds         2         2         4         Wetaskiwin         1         1         2           Peace River         3         3         6         Whitford         1         1         1         1         1         1         1         2         2         2         2         2         Ponock         1         1         1         2         2         2         2         2         2         Ponoka         2         2         2         2         Wood River         1			1	î			1	î
Nordegg         1         1         Warwick         1         1           Northmark         1         1         Waskatenau         1         1           Notlkewin         1         1         Wayne         1         1           Ogden         1         1         Westlock         1         1         1           Olds         2         2         4         Wetaskiwin         1         1         2           Peace River         3         3         6         Whitford         1 <td></td> <td></td> <td></td> <td>î</td> <td></td> <td></td> <td></td> <td>î</td>				î				î
Northmark			_	4				1
Notikewin         1         1         Wayne         1         1           Ogden         1         1         Westlock         1         1           Olds         2         2         4         Wetaskiwin         1         1         2           Peace River         3         3         6         Whitford         1         1         1         1           Pibroch         1         1         Winfield         1         1         2         2         2         Ponoka         2         2         2         2         2         Ponoka         2         2         2         Wostock         1 <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>1</td>				1				1
Ogden         1         1         Westlock         1         1           Olds         2         2         4         Wetaskiwin         1         1         2           Peace River         3         3         6         Whitford         1         1         1         1           Pibroch         1         1         Winfield         1         1         2         2           Pincher Creek         1         2         3         Winterburn         2         2         2           Ponoka         2         5         7         Wood River         1         1         1           Provost         2         2         Wostock         1         1         1           Radway         3         3         Westmount Park         1         1         1           Roselea         1         1         1         1         1         1         1           Ross Creek         1         2         3         Total         292         169         461	Northmark			1				1
Olds         2         2         4         Wetaskiwin         1         1         2           Peace River         3         3         6         Whitford         1         1         1           Pibroch         1         1         Winfield         1         1         2           Pincher Creek         1         2         3         Winterburn         2         2           Ponoka         2         5         7         Wood River         1         1           Provost         2         2         2         Wostock         1         1           Radway         3         3         Westmount Park         1         1           Ranfurly         2         2         Yates         1         1           Roselea         1         1         1         1           Ross Creek         1         2         3         Total         292         169         461	Notikewin	. 1		1	Wayne	_	****	1
Peace River         3         3         6         Whitford         1         1         1         1         1         1         1         1         1         1         1         2         1         2         1         2         3         3         3         Westmount Park         1 <t< td=""><td>Ogden</td><td></td><td></td><td>1</td><td>Westlock</td><td>1</td><td></td><td>1</td></t<>	Ogden			1	Westlock	1		1
Pibroch         1         1         Winfield         1         1         2           Pincher Creek         1         2         3         Winterburn         2         2           Ponoka         2         5         7         Wood River         1         1           Provost         2         2         Wostock         1         1         1           Radway         3         3         Westmount Park         1         1         1           Ranfurly         2         2         Yates         1         1         1           Roselea         1         1         1         1         1         1           Ross Creek         1         2         3         Total         292         169         461	Olds	. 2	2	4	Wetaskiwin	1	1	2
Pibroch         1         1         Winfield         1         1         2           Pincher Creek         1         2         3         Winterburn         2         2           Ponoka         2         5         7         Wood River         1         1           Provost         2         2         Wostock         1         1         1           Radway         3         3         Westmount Park         1         1         1           Ranfurly         2         2         Yates         1         1         1           Roselea         1         1         1         1         1         1           Ross Creek         1         2         3         Total         292         169         461			3	6	Whitford		1	1
Pincher Creek         1         2         3         Winterburn         2         2         2           Ponoka         2         5         7         Wood River         1         1         1           Provost         2         2         Wostock         1         1         1           Radway         3         3         Westmount Park         1         1         1           Ranfurly         2         2         Yates         1         1         1           Roselea         1         1         1				1			î	2
Ponoka         2         5         7         Wood River         1         1           Provost         2         2         2         Wostock         1         1         1           Radway         3         3         Westmount Park         1         1         1           Ranfurly         2         2         Yates         1         1         1           Roselea         1         1         1         1         1         1           Ross Creek         1         2         3         Total         292         169         461								2
Provost         2         2         Wostock         1         1           Radway         3         3         Westmount Park         1         1           Ranfurly         2         2         Yates         1         1           Roselea         1         1         1         1           Ross Creek         1         2         3         Total         292         169         461							1	1
Radway     3     3     Westmount Park     1     1       Ranfurly     2     2     Yates     1     1       Roselea     1     1          Ross Creek     1     2     3     Total     292     169     461		_					-	1
Ranfurly 2 2 Yates 1 1 1 Roselea 1 2 3 Total 292 169 461			4				1111	1
Roselea 1 1 1			*****				1111	1
Ross Creek 1 2 3 Total 292 169 461			2	2	Yates	1	1111	1
				1				
	Ross Creek		2	3	Total	292	169	461
	Redcliff	. 1	****	1				

TABLE No. 7

DISCHARGES, CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSES AND CONDITION ON DISCHARGE FOR THE YEAR 1933

Unimproved T.	101							1-		• 1	11	1			12 32
H.		610	01			1		24			44	10			110 20
Improved M. F.		99	10					12 19			2 2 2				74 36
H.	1	01-	1 ::		-	4		616	119	10	1.1	4	1	1	54
M. F.		1 1	-			3		10 12					1	1	31 23
Total Female Total		110	97			22		1 2 2							95 282
To Male Fe		6			1	00		1 80							187
Psychoses		3 With cerebral arteriosclerosis	4 General paralysis 5 With cerebral syphilis	6 With Huntington's Chorea	7 With brain tumour servous disasses	9 Alcoholic	- 1	2 With other somatic disease	4 Involutional melancholia	15 Dementia Fraecox (Schizophrenia) 16 Paranola and paranold conditions	17 Epileptic 18 Psychoneuroses and neuroses	19 With psychopathic personality	21 Undiagnosed	22 Without psychoses	Total

TABLE No. 8

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	T	Total	**	Unc	Under	9	Under	r	D 6	Under 9 months	05	Ur 12 m	Under 12 months	Under 8 mont	ler		Under	er		)ver	y
Psychoses	M. H	F. T.	. M.	L. F.	T.	M.	E.	T.	M.	E.	T.	M.	F. T	M. I	M. F. T.		F. F	H	M.	M. F. T	H
1 Traumatic	 					-		*****	*****		-	-				-		1	1	1000	-
3 With cerebral arteriosclerosis	 O L	2 2 2		- 6				.00				-					-	1			
4 General paralysis	16					1 49		2 4			-								4		4
5 With cerebral syphilis																	-		****		
6 With Huntington's Chorea	 1			400				-	1		-										
8 With other brain or negroup discours	 1			-		-	-	-											-	-	-
9 Alcoholic	 .01					-	tion.	-									1	-	-	-	
1,947	1	9	•		* :				1 1	11	1 1			1 !	7			11	-		-
11 With pellagra	 -					-	***	-													1
12 With other somatic disease	00 00			:0		1	18												16		1
Involutional melancholia	2 22			0		0	0 -	10											00	24	2
-	42 2			4 00		10	-11-	17											A	.0	
16 Paranoia and paranoid conditions	9			010		63	1	63	-										1	1	1
18 Psychoneuroses and neuroses	200			7 6		-	1										1	1	-		-
19 With psychopathic personality	1					*	1														
	 14			-		9	1	9						1					60		00
22 Without psychoses	62 2			7 17		00	4	12											1		I
						1	1	1									1				1
Total	187 9			44 44		38	18	26											13		17

TABLE No. 9
RECORD OF DEATHS DURING 1933

			RECO	ORD OF	DEA	ATHS DURING 1933
Regist				in Hosp		
No. 5524	Sex.	Age.		Months.	Days 18	Cause of Death Broncho-pneumonia; generalized arterio-
			15			sclerosis with thrombosis.
1179	M	31	15	7	****	Pulmonary tuberculosis; tuberculous peri- tonitis, enteritis and laryngitis.
4023 4596	M F	62 22	4 3	11 4	17 21	Perforated jejunal ulcer with peritonitis. Typhoid fever with haemorrhage from
				5	19	bowel.
5791	M	27			13	Pulmonary tuberculosis; repeated heamorr- hages.
4604	M	56	3	5	-	Cerebral haemorrhage; cerebral arterio- sclerosis.
5964	M	73	****	1	10	Broncho-pneumonia; general paresis; left-
5751	M	49	14.0	7	2	sided parotitis. Pulmonary embolus; rheumatic carditis.
5526 3304	M M	29 56	6	3	28 26	Pulmonary tuberculosis; mongolism. Tuberculous broncho-pneumonia; pulmonary
3318	F	54	7	3	11	tuberculosis. General peritonitis; intestinal (faecal) ob-
						struction.
637	F	63	18	8	28	Pulmonary tuberculosis; tuberculous en- teritis.
2666 5941	M M	38 77	9	11 2	6 26	Pulmonary tuberculosis. Gangrene of foot (occlusive vascular dis-
3923	M	68	5	4	27	ease); early broncho-pneumonia.
4147	F	65	3	9	3	Paralysis agitans with exhaustion. Broncho-pneumonia; cardiac asthma; Hunt-
6025	M	72			14	ington's chorea. Generalized arteriosclerosis; cardiac decom-
4757	M	25	3	1	15	pensation; myocarditis. Pulmonary tuberculosis.
6027	M	37		100	11	Tuberculous meningitis.
5939 545	M M	42 50	18	3 11	14	Streptoccic sore throat. Fracture of spine, 8th dorsal, from fall from
3582	M	34	6	6	- 44.5	roof; accidental. Pulmonary tuberculosis.
5759	F	38	****	8	11	Shock with numerous injuries; fractured
5166	M	60	.2	1	21	spine, ankle, rib; feli from window. Cardiac decompensation; mitral stenosis.
877	F	41	15	3	29	Pulmonary tuberculosis; tuberculous en- teritis.
4003	F	31	5	2	27	Pulmonary tuberculosis; tuberculous peri- tonitis and enteritis.
2831	F	31	9	5	10	Pulmonary tuberculosis.
3807		34	5	10	10	Tuberculous peritonitis ; bilateral psoas abscess.
5565	M	65	1	2	28	Broncho-pneumonia; generalized arterio- sclerosis; inanition.
5145	F	52	2	4	13	Pulmonary tuberculosis; diffuse tuberculous peritonitis.
6053	F	67		2	8	Pulmonary thrombosis; generalized arterio-
6124	F	76		****	15	sclerosis; coronary sclerosis. Generalized arteriosclerosis.
6115 5785	F M	44 55		10	22 6	Suffocation by hanging, self-inflicted. Bilateral pulmonary tuberculosis; exhaus-
5825	M	26		8	18	tion; Huntington's chorea. Pulmonary tuberculosis.
5928	M	67		7	12	Cerebral haemorrhage.
4179	M	55	5	****	14	Pulmonary embolism; epilepsy; generalized arteriosclerosis.
2819	F	69	9	8	18	Chronic myocraditis with severe secondary anaemia.
5038	M	33	2	9	4	Tuberculous meningitis; bilateral pulmonary
6121	F	21		2	11	tuberculosis. Tuberculosis of the intestine; exhaustion;
109	F	60	29	1	13	Schisophrenia. Aortic insufficiency; paranola and paranold
137	F	76	23	7	****	conditions.  Generalized arteriosclerosis; paranoia and
6209	F	48				paranoid conditions.
6218	M	43		****	13	Broncho-pneumonia; general paresis. Suicide by hanging; asphyxiation.
5880 4513	M M	48 63	5	5 7		Broncho-pneumonia; general paresis. Broncho-pneumonia; acute suppurative par-
262	F	53	21	3		otitis; staphylococci. Broncho-pneumonia; gastric carcinoma; ex-
6258	M	74				haustion.
3002	M	26	9	1		Broncho-pneumonia; arteriosclerosis. Intestinal obstruction; general peritonitis.
4387 4643	M M	52 53	3	7	18	Broncho-pneumonia. Chronic hydronephrosis.
4503	M	39	4	3	18	Tuberculous broncho-pneumonia; tuberculous peritonitis.
5827 4954	F	35 28	2 3	3 3	16	Pulmonary tuberculosis; general paralysis.
6338	M	39		3	8	Pulmonary tuberculosis. Uraemia.

TABLE No. 9-Continued

Registe	er		Time	in Hosp	ital.	
No.	Sex.	Age.	Years.	Months.	Days	. Cause of Death
5309	F	41	2	4	8	Chronic chorea (congenital chorea and athe- tosis with exhaustion).
5856	M	53		7	9	Broncho-pneumonia; cerebral arterio- sclerosis.
6136	M	62		5	14	Primary carcinoma of lung; general paresis.
2156	F	35	12	7	10	Pulmonary tuberculosis.
652	F	72	18	3	29	Broncho-pneumonia; senile exhaustion.
4158	F	40	5	10		Pulmonary tuberculosis; subthyroidism.
3858	M	48	6	4	17	Pulmonary tuberculosis.
6312	M	62		1	25	Arteriosclerosis with exhaustion.
5201	F	71	2	8	17	Lobar pneumonia; bronchiectasis.
4941	F	71	3	5	6	Arteriosclerosis; exhaustion.

# Provincial Mental Institute, Edmonton

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

In considering the general activities of the Institution for the year in their relation to the movement of patient population, one is once more impressed by the chronic type of mental disease from which practically all our patients suffer; 73% of the cases are psychogenic in character, 55% are schizophrenics, 14% show a basic state either of senility, epilepsy or of mental deficiency, and of the total population 14% have been in the Alberta Mental Hospitals for a period of twenty years or more. Such a picture at once suggests an institution almost wholly custodial in nature where constructive activity, because of mental deterioration and other associated degenerative factors, must necessarly be very limited.

A study of Table 1 of this report shows a total movement of population outward of only 16 patients for the entire year. Of these, 50% were due to deaths. As all vacancies were filled, the number on our books remained the same at the close as at the beginnin of the year, namely, 424.

No very serious difficulties in administration arose during the year, although the predominantly custodial nature of our work tends to create special problems not so frequently met in institutions where more active treatment is carried on and where the prognosis is more hopeful.

We had only one case of elopement. This patient eloped twice, but returned each time voluntarily. There was one case of suicide by hanging. This was a patient who had been on parole several months, and who at no time manifested any marked tendency which would suggest suicide. In view of the fact that we had on parole a total of 108 patients throughout the year, the above record is a very satisfactory one.

Routine clinical activities were carried on, stress being particularly laid on the prevention of disease.

A series of lectures were given to the attendant staff covering all phases of their work.

Religious services were conducted regularly each Sunday afternoon, a group of three clergymen alternating. Roman Catholic services were held the first Monday of each month.

Recreation, consisting principally of moving picture shows, received due attention. These were discontinued towards the end of the year owing to our inability to secure silent films. The possibility of installing sound films has been discussed. We feel some definite action should be taken as soon as possible as a psychotherapeutic measure.

The Superintendent was in regular attendance at the Mental Hygiene Clinic during the year. This work serves as a very important extra-institutional link between the institutions and those mental defective, psychotic, prepsychotic and behaviour problem cases with which the various child welfare, school and social agencies come in contact, the disposal of which constitutes a real problem to them.

Health Services.

The year 1933 was a very satisfactory year from the point of view of the general health of the patients.

There were two cases which demanded emergency treatment at the University Hospital. One was a patient who accidentally fractured his thigh as a result of a fall, and the other was an emergency operation for acute appendicitis. Credit must again be given to the medical officer and attendant staff for this very excellent showing. Our death rate was again kept within fairly normal bounds. The deceased patients were for the most part elderly, and with the exception of the case of suicide, all suffered from what must sooner or later prove to be terminal diseases.

A close check-up was kept on the possible further incidence of tuberculosis. Only one case definitely developed, and he was transferred to Ponoka. This showing is agreeably surprising in spite of a situation where it is practically impossible for several months of the year to get the patients off the wards. A large recreation field was laid out, but this was of no value in dealing with a certain type of patient, namely, the disturbed case and those who are very much deteriorated or who are physically unable to go any long distance from the institution. We still hope that this state of affairs may soon be corrected, and that all patients may have the opportunity of a certain amount of freedom and exercise in the open air under as favourable conditions as it is possible to give them.

Nursing Service.

With a population such as we have here, there are many cases more or less chronically ill, whom we find necessary to admit to the sick ward from time to time. This means that there are a number continuously ill, and who require more or less special nursing attention. I still feel that this could be done more efficiently and more acceptably by a graduate nurse, and trust that arrangements may be made whereby this improvement in our nursing service may be effected.

Occupational Therapy.

General industrial work including special work in the various departmentsthe power house, barns, garden and grounds, etc.-were carried on throughout the year. Every effort was made to include in this group those of our patients whom we felt should and could be occupied in some way other than just the routine work on the wards. In addition, a great deal of work was carried on in the Occupational Therapy Department. Some additions to our equipment enabled us to increase the numbers employed, and the result has been quite gratifying. We hope we may be able to extend this special occupational therapy to cover certain patients who are unable to leave the wards. Table 3 shows that the bulk of our patients are of the type that can do only simple routine work. Even of those who are assigned to the garden and grounds and other activities, many are quite deteriorated and unable to do very much in a constructive way. I still feel that much more could be done provided we were in a position to divide our workers into smaller groups. This would necessitate, of course, an increase in staff. There is no question, however, that it is impossible to supervise a large group of more or less deteriorated patients and hope to get the maximum work from them at the same time.

Dental Services.

Table 6 shows that much work was done by Dr. Heacock in dental prophylaxis and treatment. This work has been a real contribution to the question of maintenance of general health and to general therapy.

Special Services.

Arrangements were made for Dr. Levey, Eye, Ear, Nose and Throat Specialist, to visit the institution. This visit was made in January and approximately 20 cases were checked over at that time, many of whom were suffering

from errors of refraction. We trust this contact with the specialist services of the city may be continued.

### Administration.

The work in all departments of the institution functioned very satisfactorily throughout the year. Departmental heads, possibly with one exception, have shown a splendid sense of co-operation, and there is a keen interest in all phases of the work on the part of every member of the staff. I take this opportunity to thank each departmental head and the staff executive for their continued devotion to duty. I also wish to thank the Department of Public Works for their efficient co-operation. Mr. McDonald, Superintendent of Maintenance and Construction, has always evinced a keen interest in the institution and has been a great help to us on many occasions. I also wish to thank the Commissioner, Dr. Baragar, for his interest and help in a number of problems which arose during the course of the year's administration.

# Institutional Progress.

New construction was practically nil during the year. Certain alterations were made of a minor character, such as two cubicles in No. 3 Building for the use of disturbed patients, and general repairs with minor alterations in the other units.

Dr. Valens, who had worked very acceptably throughout the year, was promoted and transferred in October to take charge of the newly opened institution for female patients at Claresholm. His place was taken by Dr. Newcombe, who at the time was on the temporary staff at Ponoka.

Under existing conditions, with the institution practically filled to capacity, we cannot hope for much additional progress until new construction is undertaken.

# Institutional Requirements.

There is little that is urgently required, as the institution, as it now stands, may be said to be practically complete. We would like to have the tunnel completed between No. 3 Building and the dining room of the Service Building. At present the only protection the patients have going to and fro is an unheated overhead temporary structure. This has served its purpose well, but we trust the Government will not look upon it as a permanent fixture.

We have been approached from time to time to admit more patients from Ponoka. We do not see how this can be done unless further steps are taken to increase accommodation, and accommodation can only be increased by overcrowding or by new construction.

#### Finances.

The financial statement as submitted by our Bursar, Mr. Murray, shows the cost down eight cents per patient per day. The net expenditure is \$577.64 less in spite of the fact that there were 16,971 more hospital days. The end of the financial year shows a saving of \$8,053.56 from the budget as provided for in the estimates. Food and clothing costs were up about \$3,000.00 on the previous year. This is due to the extra number of hospital days and slightly higher living costs. The following credits, however, offset this increase of expenditure to a certain extent:

Stock Account	\$2,300.00
Garden and Grounds	400.00
Transportation	300.00
General House Expenditure	250.00
Amusements	150.00
Travelling Expenses	175.00

These credits reflect most favourably upon our office staff, as practically all of them are due to the close supervision made of expenditure throughout the year.

# Closing Remarks.

We have had many visitors—relatives coming to see patients and others who were interested in special activities of an institution of this kind. All seemed much impressed with the spirit with which the work was carried on and the *esprit de corps* shown by the members of the staff. This is very gratifying, all the more so because of the difficulties under which all members of the staff have been labouring. In view of the arduous nature of the work, I trust the Government will soon see their way clear to restore those monetary advantages which they felt necessary to take away prior to 1932.

# TABLE No. 1

MOVEMENT OF INSANE POPULATION Patients on Books Jan. 1st, 1933:	are contractor	Females	-
(a) In Hospital (b) On Probation	424		424
-(b) On Probation	****		
Total	424		424
Admissions during Year:			
(a) First Admissions	9		9
(b) Readmissions	2	****	2
(c) Transfers	5		5
Total	16		16
		-	
Total Received during Year:	-		5
(a) Transfers (b) Readmissions	5 2		2
(c) By Warrant	3		3
(d) By Voluntary Application	4		4
(e) By Certificate	2		2
			-
Total	16		16
Total on Books during Year	440		440
Total oil books during Teat			
Discharged during Year:			
(a) As Recovered			
(b) Improved	6		6
(c) Unimproved	1	200	1
(d) Without Psychoses	1	****	1
(e) Transfers (f) Died during Year	8	****	8
(1) Died during red			
Total	16		16
Patients on Books end of Year:	400		400
(a) In Hospital (b) On Probation	423		423
(b) Oil Probation		****	
Total	424		424
Total Admitted since opening	613		613
Total Discharged since opening	136		136
Total Died since opening	67		67

# TABLE No. 2

# NUMBER OF OFFICERS AND EMPLOYEES

	Iales Females Tot			Females	Total
Medical Superintendent	1 1	Social Workers			****
Medical Officer	1 1	Teachers		****	****
Dentist	1 1	Occupational Therapist			1
Administrative Assistant.	1 1	Kitchen and Bakery		11111	3
Bursar	1 1	Laundry		1	2
Storekeeper	1 1	Gardeners & Assistants	-	****	3
Stenographer Night Supervisor		Engineers & Mechanics Other Male Employee		61.01	9
Graduate Nurses		Other Male Employee Other Female Employ's		****	-
Other Female Nurses		Other Female Employ	B	****	****
Male Attendants	42 42	Total	. 73	2	75

# TABLE No. 3

# PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION OF PATIENTS

Patients Insane	Males 407	Females	Total 407
Epileptic (not insane) Mental Deficiency (not insane)	17	****	17
Alcoholics (not insane)			
Drug Addicts (not insane)	0101	****	
Neurosyphilitics (not insane) All Other Types	****	****	****
All Other Types			
Total Population	424	1111	424
Industrial Workers	34	****	34
Garden Workers	37		37
Internal Workers	247		247
External Workers	12		12
Doing No Work	94		94
Total Population	424		424

#### TABLE No. 4

# NATIVITY OF PATIENTS IN RESIDENCE

	Males	Females	Total	Male	s Female	s Total
Canada	134		134	Japan 2	****	2
Australia	1		1	Norway 17	****	17
Austria	32	****	32	Poland 2		2
Belgium	3		3	Roumania 4	****	4
China	3		3	Russia	****	19
Denmark	4	****	4	Scotland 18	****	18
England	. 57	0110	57	Sweden 10	****	10
Finland	3		3	Switzerland 3		3
France	. 2	****	2	United States 55	****	55
Germany	10	****	10	Wales 3	2212	3
Holland	. 2		2	Other Countries 12	****	12
Hungary	. 1	2002	1	Unascertained 12		12
Ireland	10	1000	10		-	-
Italy	5	****	5	Total424	****	424

#### TABLE No. 5

# CITIZENSHIP OF PATIENTS IN RESIDENCE

	Males	Females	Total
Citizen by Birth Citizen Naturalization	134	****	134
Aliens	178	****	179
Unascertained	6		6
British Birth Out-Canada	89	****	89
Total	424	-	424

# TABLE No. 6

# DENTAL REPORT

·	Males	Females	Total
Patients Examined	472		472
Patients Treated	303		303
Prophylactic Treatments	193		193
Fillings	76	1111	76
Extractions	163	****	163
New Dentures	103	****	100
Dentures Repaired	0	4110	0
The state of the s		2111	

AGE	Psychoses M.		Sentile 12		With Cerebral Syphilis 1	ith Huntington's Chorea			Alcoholic 5	o Drugs					Dementia Praecox 235								Total 424
AT	Total . F. T.				1																	19	424
NDMIS	Und	*****	-				*****	No.	****	****			-		1					1		1	
SION	Under 15 : M. F.	1	-		!!		-	-	*****			2000				*****	****			*****			11
ADMISSION AND	years T.	1				****					2000	1	***		1	1000				-	*****	1	14
	15 M.	1	-		1 1	-	annie .	01	*****	****	*****	*****	1	*****	00		****	*****	61	1010	2000	6.3	15
PRINCIPAL	5년	-	1	1		-	*****					*****	-	*****	81018	*****			*****			-	11
	19 T.		-	-		*****	anna a	62			***************************************	2009	1	*****	00	-	*****		63	***************************************	1000	63	12
PSYCHOSES	M. M.	1	-					-	*****	-					43		62			10			53
OSES	to 24 F. T.	****						1	***************************************		***************************************				43		01			10			523
	M. 25	****	*****		1		4000	2000	2000	4000	4111	****	-		09								76
	to 2	-													-								
	29 T.								-						09	-	**	1	1	4		4	76
	30 M.	-			a								10		522								15
	to 34 F. T.				-								10		52								75
	35 M.	-	1		1	1	-	*****	-	****	*****		1	-	30	20	61	-	1110	63			47
	F S	1		-									-		-					*****			
	39 T.	-				-	-	****	*****	-			1		30	10	ca.			62		4	47

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TABI	

		AGE A	AT A	ADMISSION AND PRINCIPAL PSYCHOSES	ION	ANI	) PRI	NCIE	AL P	SYCE	IOSE	S												
	Psychoses		4		10	44	20	5	54		20		-	9			to 69	10	0.00	70 & over Unascertained	Unask	erta	lined	_
		M.	E.	T. M.	H.	H.	M.	E.	T.	M.	14	H.	M.	F. T		M.	F. T	A .	M. F.	E .	M.	Fig.	Ei.	
1	Traumatic		-			-	-	-																
5.0	Senile						62		62	-		-				2	6		9	8				
2.3	Arteric						-		1				2	6	~	-			7	4				
4	General Paralysis			07	**	9																		
1/2	Cerebral Syphilis																							
9	Huntington's Chorea																							
7	Brain Tumour																				-			
×	Other Brain Diseases									1													-	
00	Alcoholic					10	-	-	-		-						-							
100	Due to Dwide	4	-				-		1								*****				-			
7,0	Due to Diugo	-		****					*****		-	-												
11		-					****			1000	-	-								100			1	
122	N	-					-		-	1000		-								anne anne	-			
13		1		1 2		2	1000	-	*****	9		9	2	2		61	22							
14		1																						
15	-	15		5 14			NO.		NO.			-	-									M	M	
16	Paranoia and Paranoid Condi	14		14		6	15		15	9			7	7		-	-							
17		1		1						-		, -												
18																								
19	Psychopathic Personality																-				-			
200	Mental Deficiency	6												·							*****			
21	Indiamosed	10					1	1	1	1		4	,	-		-				-				
33	Without Developes	1-	-	-			-	-	000								000 000						****	
1	Without raychoses	1		T			-	-				N					000 000			****				
	Total	42		42 34		34	188		28	18	1	181	10	10		9	9		101	101	1	1 9	1 9	1 40
																								9

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

		To	=		Ħ	erat	e	Re	Reads and Writes	and	200	Common	on	High		School	P	nive	rsity		Unascer- tained	ped	
	Phychoses	M. 1	H	T.	M. F. T.	E.	T.	M.	14	H	M.	H	F.	M.	Œ,	H	M	1	M. F. T.		M. 1	Ei.	T.
1	Traumatic										*****			-	-	-							
63	Senile	12					1	10	-	NO	ro	-	ĸ	1		1							
60	Senile Arteriosclerosis							10		ıo	1		-	1		-					-	-	1
4	General Paralysis						-	00		00	7		4	01		61							
ın	With Cerebral Syphilis							1		1			1000		-	*****							
9	With Huntington's Chorea										*****						-						
7	With Brain Tumour							1000														-	
00	With Other Brain Diseases	10						67		63	60		63	*****			-						
6	Alcoholic						-	01		2							-						-
10	Due to Drugs							1															
11	With Pellagra																						
12	With							-		-	-		-										
13	F							L LO		( LO	13		13	-		-					1		1
14	Involutional Melancholia										1		-	i									
15	Dementia Praecox						15	106		901	91		76	00		00	-			**			65
16	Paranoia and Parnoid Conditions						00	27		27	19		19	00		00							7
17	Epileptic Psychoses						00	60		00	00		es	******	*****		***						01
18	Psychoneuroses and Neuroses							-	*****	1	*****		*****	*****	*****	1111							
19	With Psychopathic Personality						900	64	-	63	67		63			-	****						9
20	With Mental Deficiency						01	6		6	00		00	61		63	-						00
21	Undiagnosed Psychoses						-	-		-	-		-	1	1111	-	-						
22	Without Psychoses	19	19		9	-	9	9	-	9	00	1	00	1	-	-	1	****	-		4	-	4
	1000						18	100	-	100	15		15	1:	-	1:	1			1			19
	Total						35	180	2000	183	1:40	-	140	ET		13	N						20

TABLE No. 9 ENVIRONMENT OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

						Urban							
	Psychoses	M.	Total F.	H	Z.500 M.	2.500 and o M. F.	over T.	M.	Rural F.	H	Una:	Unascertained. M. F. T.	red.
-	1 Traumatic	******	****	****	*****	-			****	-	-	-	****
64	2 Senile	12	****	12	62		00			6	*****	2000	
6.0	3 Cerebral Arteriosclerosis	00		00	63		63	9	:	9		*****	
4	General Paralysis	15	-	15	7		-		1	00	1	*****	*****
473	5 With Cerebral Syphilis	-		1	1		1		*****		-	****	-
9	3 With Huntington's Chorea	*****	*****	100				-	-	-			1
1-	With Brain Tumour	*****	*****	*****	*****	****	*****	1		-		404	-
00	With Other Brain Diseases	NO.		00	00	2000	00	-	-	1	1	4000	
5	9 Alcoholics	10		co	co	1000	00	63	1	03	1		
10	Due to Drugs	1000	*****	1	-	anne.	1000	****	:		-	1011	-
11	With Pellagra			-			***			****	****		-
12	With Other Somatic Diseases	23		61		****	****	62		61	::	1	
13	3 Manic Depressive	20	****	20	10		NO.	15		15	****		-
14	Involutional Melancholia	1	-	1	1	*****	1	*****	-	1000	1000	41114	200
15		235		235	223	-	220	161	******	161	21	2000	21
16	Conditions	29		59	13		13	44		44	63	*****	CI
17	7 Epileptic Psychoses	11	;	11	2	2000	63	00	****	00	1		1
18	Psychoneuroses and Neuroses	-		1	-	111		-		1			****
19	With Psychopathic Personality	*	*****	4	62	-	60	1	1000	1	100	-	-
20	With Mental Deficiency	24	*****	24	4		4	13	-	19	1	*****	1
21	_	04	*****	63	1111	2000	****	63	-	2	1	****	1
22		19	*****	19	7	****	1	6		6	60		60
		1	1	!	1	1	1	1	1	1	!	1	1
	Total	424	*****	424	107	****	107	288	1000	288	29	*****	23

TABLE No. 10 ECONOMIC CONDITION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

Traumatic	Unascer	tained	H.	3444	*****		-	-	-				1000	1000	*****	****						****	****					-	1	404
Psychoses   Total   Dependent   Dally Earnings   Total   Dependent   Dally Earnings   Total   Dependent   Dally Earnings   Total   Traumatic   Serbite   Cerbital Arteriosclerosis   Serbite   Serbital Arteriosclerosis   Serbital Arteriosclerosclerosis   Serbital Arterioscleroscl			M.	-	1	-	1		-					*****	*****		*****		1.4			*****	*****	*****	-	-		-	1	16
Psychoses   Total   Dependent   Dally Earnings   Total   Dependent   Dally Earnings   Total   Dependent   Dally Earnings   Total   Traumatic   Serbite   Cerbital Arteriosclerosis   Serbite   Serbital Arteriosclerosis   Serbital Arteriosclerosclerosis   Serbital Arterioscleroscl	Ample	ths			63	63	63				-		7	*****	****	1	1		4	,	0	2.	1		2000	63	****	1		23
Psychoses   Psychoses   Total   Dependent   Dally Earnings	rtable,	4 Mon	14		*****	out of			-							2000						*****		-	******	1	-		1	
Total   Dependent   Daily E					03	63	67	-	-				1	-	*****	1	-		u	•	0	0	-	A	A STATE OF THE PERSON NAMED IN COLUMN NAMED IN	23		1	!	23
Total   Dependent   Daily E	uo	orngs	T.		00	1	60				-	10	7	****		******	13		146	7.10	0.0	10	1	1	03	14		1	!	225
Psychoses   M. F. T. M. F. T. T. Senile   Cerebral Arteriosclerosis   8   8   5   5   5   5   5   5   5   5	lving	y Earl	14	****	*****	****	Corre	-					****	*****	*****	-	1000					*****	*****	*****	*****	*****			1	-
Psychoses   M. F. T. M. F. Traumatic   Senile   Cerebral Arteriosclerosis   8   8   8   5   5   5   5   5   5   5	1	Dail	M.	- 11111	63	1	63					10	7		-		13		146	01.7	004	20	-	1	63	14		-	!	225
Total   Psychoses   M. F. T. M.			H		9	10	6	1			0	00	7		1000	1	9	-	60	00	10	6T	6	******	63	00	23	17	!	160
Total   Psychoses   M. F. T. M.		bende	F.	*****			****					-		*****		4000						1000	No.	*****		*****		-	1	-
Psychoses M. F.  Traumatic Senile Cerebral Arteriosclerosis 8 General Paralysis 15 General Paralysis 15 With Huntington's Chorea 15 With Huntington's Chorea 15 With Huntington's Chorea 25 Alcoholic Spanin Diseases 25 Mith Pellagra 27 With Pellagra 27 With Other Somatic Diseases 20 Manic Depressive 27 Mith Other Psychoses 11 Psychoneuroses and Neuroses 11 Psychoneuroses and Neuroses 11 With Mental Psychoses 24 Undiagnosed Psychoses 24 Without Psychoses 119 Total 424		De	M.	1000	9	10	6	1			e.	00	v			1	9	-	60	00	10	ET	6	*****	63	00	67	17	1	160
Psychoses  Traumatic Senile Cerebral Arteriosclerosis General Paralysis General Paralysis General Paralysis General Paralysis General Paralysis Is With Cerebral Syphilis With Brain Tumour With Brain Tumour With Other Brain Diseases With Pellagra With Other Somatic Diseases With Other Somatic Diseases Involutional Melancholia Dementia Praecox Control Contro			H.	1000	12	00	15	-			K	) N	0			63	20	-	900	200	02	60	11	1	4	24	61	19	1	424
Psychoses Traumatic Senile Cerebral Arteriosclerosis General Paralysis With Cerebral Syphilis With Brain Tumour With Brain Tumour With Other Brain Diseases Manic Depressive Involutional Melancholia Dementia Praecox Baranoia and Paranoid Conditions Epileptic Psychoses Psychopathic Personality With Mental Deficiency Undiagnosed Psychoses Without Psychoses Without Psychoses		Total	14	*****		*****	*****					-	*****			*****	******		10000				*****						1	
Psychoses  1 Traumatic 2 Senile 3 Cerebral Arteriosclerosis 4 General Paralysis 5 With Cerebral Syphilis 6 With Huntington's Chorea 7 With Brain Tumour 8 With Other Brain Diseases 9 Alcoholic 10 Due to Drugs 11 With Pellagra 12 With Other Somatic Diseases 13 Manic Depressive 14 Involutional Melancholia 15 Dementia Praecox 16 Paranoia and Paranoid Conditions 17 Epileptic Psychoses 18 Psychoneuroses and Neuroses 19 With Mental Deficiency 20 With Mental Deficiency 21 Undiagnosed Psychoses 22 Without Psychoses			M.		12	00	15	-			M	2 11	0	-	2000	2	20	-	995	200	020	99	111	1	4	24	2	19	1	424
128428222222222222222222222222222222222			Psychoses	Traumatic	Senile	Cerebral Arteriosclerosis	General Paralysis	With Cerebral Syphilis	With Huntington's Chorea	With Brain Tumour	With Other Brain Disease	Alashalia	Alcoholic	Due to Drugs	With Pellagra	With Other Somatic Diseases.	Manic Depressive	Involutional Melancholia	Domontio Decoor	Devenois and Devenoid Con-	Faranoia and Faranoid Con-	ditions	Epileptic Psychoses	Psychoneuroses and Neuroses.	With Psychopathic Personality	With Mental Deficiency	Undiagnosed Psychoses	Without Psychoses		Total
				1	63	60	4	10	9	-1	- 00	00	2	10	11	12	13	14	1	30	OT	-	17	18	19	20	21	22		

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

			Total		A	Abstinent		T	Temperate		Inte	Intemperate	9	Una	Unascertained	peu
	Psychoses	M.	E4	H.	M.	F.	T.	M.	E.	F.	M.	E.	H.	M.	E.	T.
-	Traumatic															
6/1	Senile	12		12	2		64	9		9	6		67	0		6
02	Arteriosel	000		100	-		-	10		10	-			-		-
4	General Paralysis	120		120				12		12	-		-	100		100
102		1		-	-		-	!		!				1		1
9																
1																
- 00	With Other Brain Diseases	M		M	****			01		01	-	-		-	:	-
0		10		o ac				,		,	110		110			•
10	Due to Drugs			,	-		-				,		,			
11												-				
12	With	0			-		-	-		-						-
13		300		200	-	-	-	12		12	6		.6	. M		M
14	Involutional Malancholia	2		-				-		1	1-	*****	1-	,	*****	
121	-	235		235	-						19		19	25		20
16		-		-	23		23	141	-	141	-					,
	ditions	59		59	00		00	35		33	11	***************************************	11	1/2	No.	NO
17	Epileptic Psychoses	11		11	03		63	00	*****	00		2010	1000	-		****
18	Psychoneuroses and Neuroses.	1		-	*****	*****	-	-	*****	1		****		- 4000		****
19		4		4	1		1	63	***	01	*****	4118		1	- Contract	*****
20		24		24	4	1000	4	13		13	10	*****	ıo	23	1	2
21	-	63		53	2000	7111	Time.	1	2000	1	1	****	1	*****	1111	-
77	Without Psychoses	19		19	9	*****	9	6	-	6	*****	*****	*****	*	****	4
	E E	13	!	100	15	1	15	15	!	100	15	1	15	18	1	1:
	Total	424		424	200	*****	200	243	*****	243	43	- 44.44	55	9/		97

TABLE No. 12

MARITAL CONDITION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

		-				-				*****		*****	1		7	1		No.		2000			1	6
tained F. T.	1	-	1			-		-						*****										1000
scer M.			*****	****										-			4000	-						6
Unascertair M. F.																								
F. T.				*****							-	-		-	65	63				*****				ro
	-	*****	*****	*****	-	-			1000	*****		*****				*****		4010	1	*****	1	1	1	-
M.M.	-	*****	-	*****	-	-	-	-	*****	-	****	44111	1000	-	00	03	****	4000	1000	*****	1	****	-	10
DE:		-	-			-		-		*****			-		-	63	- Const			*****	-	-	!	60
arated F. T.	1	-	-			-																	i	1
Sepa M.		100	-	****												00	-	4000					1	00
0.754																							7.	
wed	***			*****		-					1					-				1				10
idowed F. T.	1	1000			-			-	-	-	-			-	-	-	-	*****	1	-	****	****	-	*****
M.	1	4	1	-		-		-	-			2000	63	*****	-	-	-	*****		-	*****		1	10
Ed T.											1010	1	10		31	18	4	-	-	-	7	63	1	90
Married M. F. T.	-	:	*****							-	-			-			1000		*****		-	-	1	-
M.W.	1	27	-	12	-			63	4		-	1	10		31	18	4		*****	-	-	63	-	90
le T.	11	20	9	60				62	-	-		-	7	-	193	35	7	-	4	22	1	17	-	307
Single I. F. T	-	:	*****		1	1		-	-	-		-	-	-		-	-	*****	-	-	4000	1000	1	-
M.	-	0	9	00	20100			63	-	*****		1	1	1	193	35	7	-	4	22	1	17	-	307
E	-	122	00	15	-			10	10			63	20	-	325	29	11	-	4	24	63	13	1	424
-								-								:							1	4
Total M. F.					1			10															1	
-				_						****			6.4		23	59				64			1	424
Psychoses	Traumatic		Serebral Arteriosclerosis	General Paralysis	ebral Syphilis	ntington's Chorea	dn Tumour	With Other Brain Diseases	Mecholic	Due to Drugs	With Pellagra	ner Somatic Diseases	Manie Depressive	nvolutional Melancholia	Praecox	Paranola and Paranold Conditions	Psychoses	uroses and Neuroses	ychopathic Personality	With Mental Deficiency	Judiagnosed Psychoses	Without Psychoses		Total

TABLE No. 13

DISCHARGE OF PATIENTS ACCORDING TO PRINCIPAL PSYCHOSES WITH CONDITION OF DISCHARGE

			Total		Re	Recovered		In	Improved		Unin	Unimproved	P
Psychoses		M.	Œ,	F.	M.	E4	T.	M.	E.	.i	M.	Ei.	E.
1 Traumatic		-	1000	-				-		-	-		
2 Senile		1		1				-		1		*****	-
3 Cerebral Arteriosclerosis		****		****		101	-			1111	1		1
4 General Paralysis		*****	****	*****		******			1000	-	-	-	
5 With Cerebral Syphilis						*****		****			-		
6 With Huntington's Chorea					****	-	1	11		1			
With Brain Tumour	***************************************			-	1	1		1					
8 With Other Brain Diseases		4004			-			: :		1			-
a Alcoholic				-	****							-	
To Due to Drugs		-	-					****	*****		-		
11 With Pellagra			-		****			*****	-	,		-	
					and a		-		-	1	-		****
13 Manic Depressive		1	****	1		*****		1		1	****	****	
14 Involutional Melancholia			-	10							-		
15 Dementia Praecox		2 -	-	9.				N .		N.	1	****	1
15 Paranola and Paranold Conditions	Ions smol	-	-	1			1	-	Tion .	1	-		1
18 Development and Names				-			-	-	-	-	-		-
10 With Developmenthic Desconditive				1		-							
50 With Mortal Deficiency					-	-	-			1			-
		,		1				1		7			-
21 Undiagnosed Psychoses		-						1	-		-		:
22 Without Psychoses		1000		-			-	-	*****	1			
Total		1		1				9		1 9	-		1-

TABLE No. 14

CAUSES OF DEATH CLASSIFIED ACCORDING TO PRINCIPAL PSYCHOSES-AGE AT DEATH-DURATION OF HOSPITAL LIFE

ation pital	Months	5 1/2	4	6	41/2	6	7	1	4	1
Hos	Years	10	63	21	00	00	4	7	00	1
Age							52			
,	T.								-	1
Vith	E	-		-	*****		-	*****	:	1
With Mental Deficiency	M.	*****	*****	-	*****		*****	1000	-	1
Paranoia & Paranoid Conditions	H.	-			at a section	-				1
aran	14	****	*****	*****		*****	:		1000	1
Par Cor	M.	1000	*****	****		1	-		-	1
Dementia	H	*****	1000	-	-	*****	-	*****	-	1
men	i.	-	*****		*****	*****			-	1
Manic Depressive	H	-	-	****	****		-			1
Mani	H	*****	-		****		*****	****		1
De	M.	-	1				-	****	****	1
General Paralysis I	H	-	-	*****		-	-	-	*****	1
raly	H		1			*****	****	-	*****	1
erebral rterio-	H	-	****		*****	*****		*****	*****	1
rteric	Ei,		****		-			*****	****	1
SAS	M.	-	-	-	-	-	-	*****	-	1
F	H	63		-	-	-	-	-	-	1
Tot	Ei.	-		*****	-		1		-	1
	M	63		-	_	_	-	-	_	1
	Cause of Death	Chronic Myocarditis		Arteriosclerosis	Chronic Bronchitis	Coronary Thrombosis	Suicide by Hanging	General Paralysis	Epilepsy	

# TABLE No. 15

# RELIGION OF PATIENTS IN RESIDENCE

	Males	Females	Total
Baptists	16	N140	16
Episcopalians	54	****	54
Jews	3	****	3
Presbyterians	45		45
Roman Catholics	106		106
United Church	30	2100	30
Other Denominations	134		134
Unascertained	36		36
	-	-	-
Total	424	1111	424

# TABLE No. 16

# OCCUPATION OF PATIENTS IN RESIDENCE

	Males	Females	Total
Professional	2	1011	2
Commercial	13	****	13
Agricultural	134	****	134
Mechanics, Outdoor	29	1000	29
Mechanics, Sedentary	23	4000	23
Domestic Service	4		4
Education	1		1
Miners, Engineers, Rail	20	****	20
Labourers	144	****	144
No Occupation	11	4000	11
Unascertained	43		43
			-
Total	424	****	424
Labourers No Occupation Unascertained	144 11 43 424		144 11 43 424

# Provincial Training School, Red Deer

#### STATISTICAL SUMMARY

With a capacity of 204 beds, there were in residence at the commencement of the year 190 patients. At the end of the year, with 210 beds, there were 207 patients (107 male and 100 female). For the greater part of the year all beds were occupied.

The new admissions numbered 36 (18 male and 18 female). Two females were readmitted, one of whom was recalled under the new amendment to the Act as living an undesirable life. Against this there were 21 outgoing patients, made up of 10 discharges (5 male and 5 female), 6 transfers to Ponoka (3 male and 3 female), and 5 deaths (2 male and 3 female).

The majority of the patients admitted had been examined at one or the other of the Mental Hygiene Clinics or visited in their homes by Mr. Kibble-white, the Social Worker. This is a great advantage to the Training School as it permits of proper selection of patients for the various high grade or low grade sections and with a fuller understanding of the patient's difficulties before admission, treatment after admission can be better directed.

Table 2 shows that we now have 43 Government wards (one-fifth of our population), as against 31 in 1932 and 26 in 1931. It is to be hoped that the recent change in the Act as to residence qualifications will in time correct this tendency.

There are now 176 cases awaiting admission, and 564 on our list of suspects. These, with the 288 cases in our various institutions brings the number of known defectives throughout the Province to 1,099 as against an estimated 5,600, of whom probably one-third need care.

# HEALTH OF PATIENTS AND STAFF

No new cases of diphtheria developed after the beginning of the year, though one case died in the early days of the year from bronchopneumonia following diphtheria. Eleven cases of scarlet fever occurred in March and April, with two deaths from complications. All patient contacts and forty of the staff were Dick tested and those found susceptible protected. All new patients and staff were immunized against diphtheria and typhoid on admission and all others reinoculated against typhoid in September.

Dr. Heacock attended in June and December, and examined all patients' teeth. There were 212 extractions, 126 fillings and 193 prophylactics. Twenty-four general anaesthetics were necessary.

Dr. Wannop, appointed as oculist, visited several times. Many refractions were done. Nineteen cases were provided with glasses; 15 had tonsils and adenoids removed. There was one operation for aural polypi. Both aural and dental services have been of very great benefit, removing much physical discomfort, preventing sickness and facilitating mental development.

Dr. Little of the full time health unit voluntarily and willingly gave his help during the scarlet outbreak, and did much of the Dick testing and immunizing.

Constant attention was given throughout the year to building up and maintaining the general health of the patients at a high level by adequate diet, periodic change of menu, recreation, games, open air activities and summer camp.

The health of the staff, apart from one case of scarlet fever, has been excellent.

# PATIENTS' ACTIVITIES

On the girls' side, the system of placing patients at work in the various sections and departments in rotation is now firmly established, and has given us a number of girls who can be transferred to any department at a moment's notice in case of necessity, and can carry on without any feeling of strangeness, dislocation of the work or increase of the burden on others.

Beginning in January, a monthly report on each patient's work and conduct has been submitted by all sections. These reports have proved valuable. The staff have been led to a fuller analysis of each patient, a better understanding of his difficulties and many profitable discussions concerning problem cases. The patients, some of whom at first were suspicious and resentful of the reports, now accept them as part of their "training," and in some cases frankly strive for good reports.

This beneficial effect would be greatly enhanced if a sum could be included in the estimates, sufficient to grant a small weekly allowance to all patients whose work and conduct has merited it. Five or ten cents a week would be sufficient. I am confident the money would be exceedingly well spent and would repay the Government in many ways both directly and indirectly. It would make for greater happiness of the patients, would increase their desire to be helpful and build up their self-respect. In saving their pocket money they would lay a foundation of thrift and foresight, and in spending it under supervision, would learn to spend wisely.

On the boys' side, the attendants' duty hours and the allocation of the patients' duties were altered to permit of more continuous supervision. The results have been quite satisfactory, but with some of the older and less capable boys progress is slow. I have no doubt a small weekly allowance granted only to those doing good work and behaving well would be a great incentive to improvement.

The schoolboy group proved themseves particularly useful in the vegetable garden and about the grounds on Saturdays and during the school holidays. Unless they are spoiled by the example of and contact with some of the older, more lazy and more sophisticated boys, they will give a good account of themselves in the years to come and be a credit to the Training School. To prevent the deterioration of the group, any plans for the future expansion of the Training School should provide separate sections for the school children and the adults, to keep them apart.

Grade School and Sense Training Classes were maintained at full strength during the academic year, and did good work.

Except for July and August the occupation classes were held regularly by the teachers, and the usual displays of work made at the Edmonton Exhibition and Red Deer Fair.

Senior and junior classes in elementary practical nursing were again held by Miss Holmes, the Matron, and Miss Carnochan, the surgery nurse. These were thoroughly enjoyed by the girls and are very helpful.

The dining room supervisor, Miss Madison, gave three courses of instruction in cooking. There were eight girls in each class. The courses were of a

thoroughly practical nature, and Miss Madison deserves great praise for the results obtained. She gave freely of her own time, showed great initiative, and her enthusiasm was infectious.

In October regular classes for instruction in carpentry were commenced by the carpenter, Mr. Markwick, with 16 larger boys and some schoolboys attending. From the commencement the venture has been an unqualified success owing to the ability, the personality and the whole-hearted co-operation of Mr. Markwick. Work of a practical and useful nature has been deliberately aimed at from the first, such as repairing and reupholstering furniture, making flats, potato boxes and garden wheelbarrows for the gardener. The boys have found this much more interesting than making toys and fancy articles. Some of these boys were formerly quite destructive. The conversion of their destructive impulses into definitely constructive tendencies is not least amongst the benefits of this group.

In addition to these efforts to keep all patients fully occupied and interested, careful attention has been given to their recreational needs in both summer and winter.

Camp was held this year on the east end of the grounds instead of at Sylvan Lake. Fifty boys and forty-five girls attended in eight groups. Camp close to the institution was greatly preferred by all the patients, without exception, whilst from the administrative side the convenience and economy in transportation is a great advantage, and there were no near-accidents from bathing, such as we have had at the lake.

The usual open air sports were held on May 24th and July 1st. Some fifty patients attended Chautauqua and about 100 were admitted to the Red Deer Fair.

The Christmas concert was up to the usual standard, and the Christmas tree as popular as ever. Very acceptable gifts of toys were received from the Provincial Mental Institute, Oliver, the Provincial Mental Hospital, Ponoka, the Red Deer Rotary Club, the T. Eaton Co., and several individuals.

In the fall, combined social evenings for the high grade boys and girls were begun, the boys entertaining the girls once a month in the cottage and the girls entertaining the boys in the gym. Cards and other games were played and everything done in proper form in an endeavour to make these social evenings not merely recreational, but a training in deportment and manners and a healthy contact with the opposite sex under proper supervision.

In addition to the attention given to the work and recreation of the patients, the character-building activities have also been maintained and extended.

The usual church services were held every Sunday afternoon. Five Sunday school classes met on Sunday mornings, the total attendance averaging between 70 and 80. Several open meetings were held.

The Guides who were registered at Provincial Headquarters as an Extension Group in May 1932, met regularly. Membership increased from 18 to 23. In July they camped as a group. In October Mrs. Pardee, Provincial Commissioner, Mrs. Symes, Provincial Secretary, and Dr. Folinsbee-Newell, Extension Secretary, inspected the company, and gave them an excellent report.

The Clubs and Scouts, though not yet regularly affiliated with the Provincial Headquarters, also had a successful year. There are 23 Cubs and 7 Scouts. Mr. Backman, the Provincial Commissioner, inspected the boys in September, and was greatly pleased with the display they put on for him. This work makes a very definite appeal to the boys, and is doing much to build up healthy interests and attitudes towards life.

Two girls' clubs, a Senior and Junior, were formed by the Matron, and met on alternate weeks throughout the year. This has proved a most valuable contribution to the welfare of the patients. Problems of conduct and deportment under certain circumstances have been discussed, and information (often voluntarily asked for) imparted as to life outside the Training School, thus preparing them to meet problems in a wholesome way when they go out into the world. It has also given the Matron a close personal contact with these girls so that they bring her their many personal problems for discussion. This had made for better adjustment and happier relations all round amongst the girls and inter alia a healthier attitude towards sex amongst these adolescents.

## STAFF ACTIVITIES

There were 19 resignations from the staff as against 11 the previous year. Three of these, however, were temporary positions. There were no dismissals.

During the year the local branch of the C.S.A. of A. held monthly socials or picnics, to which all members of the staff were welcome whether members of the C.S.A. of A. or not. These events, which were well attended, did much to create and foster general happiness and goodwill amongst the staff, and were a very valuable contribution to the social life of the school. I appreciate the continued loyalty of the branch to the standards and ideals of the Training School.

I would like to put on record my sincere appreciation of the increasing interest shown by all members of the staff in the welfare of the patients. In addition to the time and effort given freely and voluntarily to Sunday school, Scout, Cub and Guide work, the Girls' Club and other character building activities, quite a number of patients have been taken to picture shows or for meals down town, or to see the shops, to church services or to friends' homes for entertainment. Many also, in their off duty time, visited the groups in camp or attended the patients' picnics, helping as readily as those on duty, and greatly contributing to their success. Where such service and interest is in evidence, there can be no question as to the humane and kindly treatment of the patients, nor any doubt as to the beneficent influence of such an attitude and conduct on their growing minds.

#### CONSTRUCTION AND ALTERATIONS

With the maintenance staff reduced to one painter and one carpenter, both of them working seven instead of eight hours a day, and with need for the most stringent economy in materials, only such changes and expenditures as were absolutely necessary were undertaken. The greatest credit is due to the Bursar, Mr. Elgood, and the maintenance and boiler room staffs for the satisfactory maintenance of the buildings and equipment under such circumstances.

A new steam sterilizer was installed in the surgery. The old one had been many years in service, and was dangerously inefficient.

Some minor alterations gave us four extra beds and two cots, also accommodation for the evening cooking classes.

A small second-hand heater for the softened water for the laundry was installed.

#### DEPARTMENTAL ACTIVITIES

During the year 308,460 articles were laundered as against 286,660 in 1932 and 255,489 in 1931,

In the sewing room, 2,729 articles were made and 40,941 repaired, as against 2,750 and 38,371 in 1932 and 2,988 and 30,848 in 1931.

Excellent service has been rendered by the kitchen staff. Complaints about the meals have been extraordinarily few and not of a serious nature. Many extra demands for service, over and above the routine meals, such as patients' dances, picnics, etc., have been met cheerfully and willingly.

Another excellent crop was harvested, better even than that of the previous year—the best experienced till then. Dressed pork delivered to the school was 4,435 pounds as against 3,665 pounds the previous year. Seven acres of the new breaking yielded 5,500 oat bundles. The straw was so heavy we had much difficulty in getting it cut. Eight thousand caragana from nursery stock were shipped to Rosedale late in May.

# GENERAL

The Eugenics Board met at the Training School in March and September. Nine cases were presented (2 male and 7 female), approved of, and 8 cases (1 male and 7 female) were operated on. This brings the total number of Training School cases approved by the Board to 54 (19 male and 35 female), and the number sterilized to 50 (15 male and 35 female). Of these, 34 are still in residence.

A number of visits were paid by Dr. Baragar, Commissioner of Mental Institutions for general institutional and departmental purposes, and as extramural examiner in practical nursing. Visits were also paid by Dr. M. R. Bow, Deputy Minister of Health, Dr. McAlister and Mr. D. E. McDonald. To the latter I am much indebted for permission to use the carpenter as instructor for the patients.

Several much-needed amendments to The Mental Defectives' Act were passed in April, one dealing with residence qualifications, another empowering the Medical Superintendent to recall any paroled patient showing undesirable behaviour.

A condensed statement of the maintenance costs is given in Table 21 and a graph of the operating costs for the past six years, prepared by Mr. Elgood, in Table 22. Expenditures have been kept well within the vote, and our revenue exceeded the estimated amounts, giving a favourable balance of approximately \$5,000.00.

# RECOMMENDATIONS AND GENERAL COMMENTS

Our patients keep growing up. Many who were admitted as children are now adolescent. This raises many problems.

The housing together, in the main building, of types of patients who should be kept separate is also an urgent problem. On the girls' floor, to have low grade cases of all ages and sometimes of the lowest mentality mixing with bright, promising school children of moron or borderline ability is very detrimental to the latter. Mixed together on the boys' floor there are adult low grades, adolescent workers, small school boys and larger boys who cannot be trusted in the Cottage.

Now that we have acquired sufficient ground, a satisfactory solution of this problem would be the ultimate development of the Training School in three separate sections, viz., adult, school and infirmary with, of course, common administrative and service buildings—the female adult section convenient to the laundry, sewing room, kitchen, dining rooms and other female work centres, the male adult buildings convenient to the carpenter and paint shops, boiler rooms, stores, etc., the school sections, male and female (for trainable children under 16) close to the school rooms, and the infirmary section (for the physically and mentally helpless—sexes need not necessarily be separated)—as far from the other two sections and from the public view as possible.

Training under such conditions would give much better results in the numbers returned to extra-institutional life or graduated to farm colonies, hostels, etc., and all those defectives without psychosis and without dangerous tendencies who are now at Ponoka and Oliver could be cared for in the Training School, in cheaper buildings and at less cost.

Too much attention in the past has been paid to the lowest grade casesthe idiots and imbeciles. Though they form but 25% of all defectives and do not damage society, they form 80% of our cases. The morons, who far outnumber them, account for only 20% of our Training School cases. Yet they are a distinct social menace, not because they are vicious, but are easily led. And because they are as easily led right as wrong, the need is all the greater to institutionalize all those who are found in undesirable surroundings and to do so before the age of ten or twelve. If left too long in a faulty environment, habits and desires may be stamped in which even years in an institution may never eradicate. With training begun before the dangerous age of puberty, the great majority of morons should be capable of returning to outside life, happy in themselves and largely, if not entirely, self-supporting. For economic reasons alone, to say nothing of the moral and other sides of the question, it would pay to make ample provision for these young, higher grade cases in a properly organized school section on the lines indicated above. I cannot do better in this connection than give two quotations from the English Board of Control Report for 1932:

"In one way or another," the Board says, "the community must contribute to the support of this defective class, and we believe that the transference of the expenditure to the mental deficiency service is in itself an economy. Unrecognized defectives are still costing the country large sums spent in treating symptoms whilst ignoring the disease. Early recognition and treatment of the primary condition is the only way of preventing present waste and future liabilities. Though mental defectives are seldom actively vicious, their inclination to sink into and inability to struggle out of bad surroundings make them gravitate to the bottom of the social scale. Where their surroundings are immoral and corrupt, they become themselves a source of corruption and of moral, social, and economic danger to the State."

The second quotation is from the report submitted to the Board by one of the English institutions:

"It is a sorry fact that today the children in residence form only 20% of the total number, compared with 60% five years ago. Whenever a vacancy occurs there is an appeal to admit an adult who has caused some social harm or is in moral danger, and in the interests of the community the case must be received. But this enforced policy results in the neglect of the children, and for such neglect the price must sooner or later be paid. In dealing with the problem of mental deficiency there must be adequate facilities for the care and training of children. Seventy-five per cent. of the patients on licence from the institution on March 31st received training in childhood. They are maintaining themselves. Had they been deprived of that early training and come to the institution during adolescence, possibly in consequence of some serious delinquency, they would probably have been a charge to the community for many years, and perhaps for life."

All of which is respectfully submitted:

D. L. McCullough,
Acting Medical Superintendent.

#### TABLE 1.

#### MOVEMENT OF FEEBLE-MINDED POPULATION

Defectives on books of institution January 1st, 1933: In the Provincial Training School	Male 99	Female 91	Total 190
Total	99	91	190
Admissions: Male Female Total 1. First admissions, voluntary 18 18 36 2. Re-admissions 2 2			
Total number of admissions	18	20	38
Total number of defectives on the books during 1933  Discharges during 1933  Transfers to other institutions during 1933  Died during 1933	117 5 3 2	111 5 3 3	228 10 6 5
Total number of outgoing patients during 1933	10	11	21
Defectives on books of the institution at December 31st, 1933.	107	100	207

## TABLE 2.

# RESPONSIBILITY FOR MAINTENANCE OF PATIENTS IN RESIDENCE AT DECEMBER 31, 1933

Wards of the Province of Alberta Wards of the Municipal Districts of Alberta Wards of the Department of Municipal Affairs of Alberta Private cases in residence during 1933 Wards of the Department of Pensions and Health, Ottawa Wards of the Dominion Government Wards of the Official Guardian	132 23 2 2 2 2	Percentage 20.77 63.76 11.11 .97 .97 .97 .97 1.45
Total	207	

#### TABLE 3.

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

	Firs	st Admis	sions	Re	-admissi	ons		Total	
Mental Status	Male	Female	Total	Male	Female	Total	Male	Female	Total
Idiot	6	5	11	****	1011		6	5	11
Imbecile	4	3	7		1	1	4	4	8
Moron	3	5	8		1	1	3	6	9
Borderline	3	3	6	****	****		3	3	6
Dull	1	2	3		1000		1	2	3
Backward	1	1000	1	1110	2444	****	1		1
	-		-	-	-	-	-	-	-
Totals	18	18	36		2	2	18	20	38

# TABLE 4.

### NATIVITY OF ADMISSIONS AND OF PARENTS OF ADMISSIONS

		Patient	s	1 - 2	Parents ale Pati	~~	Par Fema	rents o	of ents
Nativity	Male	Female	Total	Fathers	Mothe	rs Total	Fathers	Mother	rs Total
Alberta	15	14	29	1		1			
Other Provinces	1	3	4	4	3	7	5	6	11
England	1		1	5	4	9			
Ireland							2		2
Scotland				3	3	6		1	1
United States		1	1	3	4	7	4	4	8
Germany		1	1	1			1	î	2
Sweden					1	1			
Denmark					1	î			
Holland	1		1	1	î	2			
Austria					1	1	3	3	6
Roumania							1	1	2
Italy							î	1	2
Unascertained	****	1	1	1	****	1	3	3	6

# TABLE 5.

# CITIZENSHIP OF ADMISSIONS

Citizens by birth Aliens	Male 16	16	Total 32
Citizenship unascertained		3	4
	Married .	Management	-
	18	20	38

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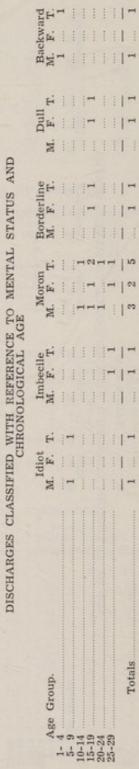
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AGE OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS			AGE OF TOTAL				
NS CLASSIFIE	M. F. T. 2 2 3 1 1 2 4 4 1 1 3 3 3 3	5 11		Idiot 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	41 35 76	TA	M. F. T. 2 2 4
D WITH REF	Imbecile M. F. T. 2 1 1 2 2 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1	7.7	POPULATION CLASSIFIED MENTAL STATUS	Imbecile M. F. T. 2 1 3 11 6 17 17 17 17 17 17 17 17 17 17 17 17 17		TABLE 7. NT OF ADM	Imbecile M. F. T. 2 4 6
ERENCE TO	Moron M. F. T. 1 2 3 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60   70	WITH	F. 2338852	15 23	SNOISSI	M. F. 7
MENTAL STA	Bor 1	60	REFERENCE TO				Borderline 4 2 1 3 5 1 2 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
TUS	M. F. T. T. 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 2	0	7	1		M. F. T. 1. 1. 2. 1
	26	-		E. F.			Backward M. F. T.

	NS
ABLE 8.	OF ADMISSION
TA	RELIGION

Backward M. F. T. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Backward M. F. T. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M. F. T. 1 1 2 2 1 1 1 2 3 1 1 2 3 1 1 1 2 3 1 1 1 1	Dull 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Borderline M. F. T. 3 1 4 1 1 1 1 1 1 1 1 1 2 3 3 6  CASSIFIED WIT	Borderline M. F. T. 1 2 3 5 5 5 5 6 6 6
M. F. T. 3 1 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Moron I. F. T. T. 2 3 4 6 9
T. M. F. T. M. F. T. 1 1 2 3 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Imbecile M. F. T. 1 3 3 6
F. S.	Idiot M. F. T. 4. 4. 6. 5. 11. 6. 5. 11.
Religion. United Church Church of England Roman Catholic Greek Catholic Greek Catholic Baptist Lutheran Latter Day Saints Fresbyterian Pentecostal Unascertained Totals  ECONOMIC CONDI	Dependent Economic Condition M. 1di Marginal 3 Comfortable 1 Totals 6

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	Backward M, F. T.		111								Percentage	10.14 18.35 21.26 3.86 2.41 3.38
	M. F. T.		111		Fime	onths 7	4.61				Total	28200
200	₹.		-   -		Length of Time	Years Months 10 7 8 11	# ;	11			Backward M. F. T.	
	Moron B		1 1 2 1 1		Ago	Years 17/7 16/1	1 11/9	110		DENCE	Borderline M. F. T.	111011
CHRONOLOGICAL AGE	Imbecile M. F. T.		2 1 2	TABLE 11.	DEATHS	M. F. T		163	TABLE 12.	SOME OF THE TYPES IN RESIDENCE	Moron M. F. T. 1	
CHRONO	Idiot M. F. T.			T		of Death Diphtheria Toxaemia			T	SOME OF THE	Imbecile M. F. T.	0   10 0   10 0 0 0 0 0 0 0 0 0 0 0 0 0
						90	Myocardial failure—Scarlet Fever Scarlet Fever	Totals			Idiot L. F. T.	0 16 36 6 13 29 6 13 29
	Age Group.		Totals			Bronchopneumonia- Bronchopneumonia- Bronchopneumonia-	Myocardial Scarlet Fe				Classification M.	(a) Physically helpless 20 (b) Mentally helpless 20 M.D. and Epileptic 16 M.D. and Psychopathic M.D. and Psychopathic 17
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### TABLE 13.

APPLICANTS AWAITING ADMISSION			
ATTECHNIO ATTAING ADMISSION	Male	Female	Total
Applications dated 1923 Applications dated 1924	7 7	6	10 13
Applications dated 1925		2	2
Applications dated 1926 Applications dated 1927	8	9	17
Applications dated 1928	6 12	3 7	9
Applications dated 1929 Applications dated 1930	17	12	29
Applications dated 1931 Applications dated 1932	5 7	12 14	17 21
Applications dated 1933	12	18	30
Totals	84	92	176
TABLE 14.			
REPORTED SUSPECTS			100
0 1 1 1 1 1000	Male	Female	Total
Suspects reported prior to 1923 Suspects reported during 1923	107 28	56 33	163 61
Suspects reported during 1924 Suspects reported during 1925	20 17	11 14	31 31
Suspects reported during 1926	30	21	51
Suspects reported during 1927 Suspects reported during 1928	12 18	17 18	29 36
Suspects reported during 1929	29	27	56
Suspects reported during 1930 Suspects reported during 1931	22 17	21	43 21
Suspects reported during 1932	8	12	20 22
Suspects reported during 1933	10	12	
Totals	318	246	564
TABLE 15.			
TABLE 15. SUMMARY OF REPORTED DEFECTIVES	Male	Female	Total
SUMMARY OF REPORTED DEFECTIVES In residence at Red Deer	Male 107	Female	Total 207
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33)	107 37	100 34	207 71
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14)	107 37 84 318	100	207 71 176 564
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver	107 37 84 318 17	100 34 92 246	207 71 176 564 17
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka	107 37 84 318 17 36	100 34 92 246	207 71 176 564 17 64
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver	107 37 84 318 17	100 34 92 246	207 71 176 564 17
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka	107 37 84 318 17 36	100 34 92 246	207 71 176 564 17 64
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals	107 37 84 318 17 36 — 599	100 34 92 246 28 500	207 71 176 564 17 64 1099
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16. EUGENICS SUMMARY  A—Training School Cases:	107 37 84 318 17 36 	100 34 92 246 28 500	207 71 176 564 17 64 1099
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16. EUGENICS SUMMARY  A—Training School Cases: Presented and approved	107 37 84 318 17 36  599	100 34 92 246 28 500 Female 34	207 71 176 564 17 64 1099
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16. EUGENICS SUMMARY  A—Training School Cases: Presented and approved Operated on	107 37 84 318 17 36 ———————————————————————————————————	100 34 92 246 28 500 Female 34 34	207 71 176 564 17 64 1099 Total
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16.  EUGENICS SUMMARY  A—Training School Cases: Presented and approved Operated on  Total	107 37 84 318 17 36 	100 34 92 246 28 500 Female 34 34 34	207 71 176 564 17 64 1099  Total 53 49 49
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16. EUGENICS SUMMARY  A—Training School Cases: Presented and approved Operated on	107 37 84 318 17 36 ———————————————————————————————————	100 34 92 246 28 500 Female 34 34 15	207 71 176 564 17 64 1099 Total 53 49 49 24
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16.  EUGENICS SUMMARY  A—Training School Cases: Presented and approved Operated on  Total	107 37 84 318 17 36 ———————————————————————————————————	100 34 92 246 28 500 Female 34 34 34	207 71 176 564 17 64 1099  Total 53 49 49
In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16. EUGENICS SUMMARY  A—Training School Cases: Presented and approved Operated on  Total Paroled, Transferred, etc.  Re-admitted	107 37 84 318 17 36 ———————————————————————————————————	100 34 92 246 28 500 Female 34 34 15 19 2	207 71 176 564 17 64 1099  Total 53 49 49 24 25 2
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16. EUGENICS SUMMARY  A—Training School Cases: Presented and approved Operated on  Total Paroled, Transferred, etc.  Re-admitted In residence	107 37 84 318 17 36 ———————————————————————————————————	100 34 92 246 28 500 Female 34 34 15 19 2 21	207 71 176 564 17 64 1099  Total 53 49 49 24 25 2
In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16. EUGENICS SUMMARY  A—Training School Cases: Presented and approved Operated on  Total Paroled, Transferred, etc.  Re-admitted	107 37 84 318 17 36 	100 34 92 246 28 500 Female 34 34 15 19 2	207 71 176 564 17 64 1099  Total 53 49 49 24 25 2
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16.  EUGENICS SUMMARY  A—Training School Cases: Presented and approved Operated on  Total Paroled, Transferred, etc.  Re-admitted In residence  B—Sterilized Prior to Admission Paroled, Discharged, etc.	107 37 84 318 17 36 ———————————————————————————————————	100 34 92 246 28 500 Female 34 34 15 19 2 21 14 7	207 71 176 564 17 64 1099  Total 53 49 24 25 2 27 14 7
SUMMARY OF REPORTED DEFECTIVES  In residence at Red Deer Discharged, Paroled, etc. (1923-33) Applicants (Table 13) Suspects (Table 14) In residence at Oliver In residence at Ponoka  Totals  TABLE 16.  EUGENICS SUMMARY  A—Training School Cases: Presented and approved Operated on  Total Paroled, Transferred, etc.  Re-admitted In residence  B—Sterilized Prior to Admission	107 37 84 318 17 36 	100 34 92 246 28 500 Female 34 34 15 19 2 21 14	207 71 176 564 17 64 1099  Total 53 49 49 24 25 2 27 14

### TABLE 17.

#### STAFF

	Male	Female	Total
Medical Superintendents	1		1
Bursars	1		1
Dentists (part time)	1		1
Graduate Nurses Other Nurses	0.00	3	3
Teachers of Grade Subjects	4444	12	12
Teachers of Special Subjects	****	2	2
Matrons	****	1	ī
Attendants	4	4000	4
Social Workers (voluntary)	1		1
Stenographers	1111	2	2
Clerks	1		1
Kitchen Staff Dining Room Staff	****	3	3
Maids Maids	****	3	3
Laundry Room Staff		3	3
Sewing Room Staff	****	2	2
Gardeners	1	****	1
Farmers	1	****	1
Boiler Room Staff	6		6
Maintenance Staff	2	****	2
Total	19	34	53

# Central Alberta Sanatorium

(A. H. BAKER, M.D., Superintendent)

The year 1933 saw no great changes in policy or development, but existing services were well maintained.

Deaths from Tuberculosis in All Forms.

Year	Indian	White	Total
1931	157	225	382
1932	163	238	401
1933	 183	207	390

As has been mentioned in previous reports, the proportion of Indian deaths in relation to those of the white population greatly exceeds the relative populations. Over 44% of last year's deaths occurred among Indians on the Reserves. Consideration of the white population shows that 207 persons died of tuberculosis, which was a decrease of 31 from 1932, a reduction of about 15%.

The gross tuberculosis death rate in 1932 was about 54 per hundred thousand of population, while in 1933 it was 51.5. Exclusion of the Reserve Indians gives a death rate of 27.5 per hundred thousand of population, a slight reduction.

In common with other parts of Canada, the general trend in the tuberculosis situation is one of improvement. This is due, no doubt, to various agencies, but of first importance must be mentioned the direct anti-tuberculosis activity on the part of the medical profession, hospitals and sanatoria. Supplementary to this is the increased education in health matters on the part of the general public.

The number of deaths can undoubtedly be reduced if greater measures are used to separate the spreaders of disease from the healthy, for tuberculosis can only come from tuberculosis. Herein lies one great advantage of institutional treatment, for many of the sick can by treatment be changed from spreaders of disease to non-spreaders, while others can be properly trained in health habits that tend to reduce their danger to others. Those too sick for recovery when in hospital or sanatorium cease to be a daily menace to their families. The problem of saving the young is largely dependent on keeping them away from gross sources of family infection, which is most easily accomplished, in a population such as we have in Alberta, by placing the sick person in a suitable sanatorium or hospital.

How can this be arranged? The financial burden of keeping one member of a family in a sanatorium or hospital is a very heavy load for any family, and when more than one member requires treatment, the task becomes almost impossible. What is true of the individual family is likewise true of the load to be carried by individual municipalities. This disease is more prevalent in certain areas of the Province than others, so much so that if the infectious cases were to be properly treated, the cost to the local authority would be very heavy, almost unbearable. Since tuberculosis is infectious, the fight to prevent its occurrence is a form of insurance safeguarding every part of the Province.

The greatest need is still the discovery of cases of tuberculosis and the provision whereby they can be made safe for the community.

Deaths (other than Indian) in Hospital or Sanatorium.

One hundred and fifty (or 64% of the deaths) occurred in hospital or sanatorium. Undoubtedly proper hospitalization of the advanced infectious case reduces the likelihood of the disease being transmitted to others.

However, this practice adds to the risk of hospital staffs and increases the responsibility of the various hospital boards. It appears that even now nurses in general hospitals have a high incidence of tuberculosis, which fact is receiving considerable attention. The up-to-date hospital which seeks to be a health centre must, in the nature of things, give its primary attention to the efficient care of the patient, but second to this is the obligation to see that its employees are healthy. Employees on engagement should be free from demonstrable disease. The hours of work, the opportunity for leisure, the food and housing as well as the hospital technique in handling all infectious cases, should be such as to reduce to a minimum the danger of tuberculosis in hospital life, which at present is rather a hazardous one. X-ray examination of hospital employees annually, and more frequently if indicated, will help to prevent serious cases of this disease. Such precautions are now being followed in a number of hospitals, and no doubt will tend to reduce the load of staff sickness being carried.

## Tuberculosis Beds.

Alberta tuberculosis beds are essentially as reported last year. These serve the white population, since the Indians are a Federal responsibility. There are thus 1.4 beds per annual death from tuberculosis. More tuberculosis beds are required, and while sanatorium beds are urgently needed, much could be done if suitable beds in general hospitals were available.

# University Hospital Unit-a Sanatorium.

On May the 12th, under the authority of The Hospitals Act, the Honourable the Minister of Health designated the University Tuberculosis Unit a Sanatorium. From that date until December 31st, 39 patients were admitted and patient days numbered 3,377. This is a move in the right direction, since it means greater isolation of infectious cases.

Indian School Survey-Blood Reserve, Cardston.

This survey was carried out by Drs. G. M. Reid and L. M. Mullen, of the Sanatorium staff, in November, 1933. They report in part as follows:

"On this our fourth annual tuberculosis survey of the children attending the two schools on the Reserve, we met with the same splendid co-operation as in previous years.

"The marked improvement shown by a number of the children in whom we found evidence of disease at previous examinations, bears witness to the care they have had from those in charge of their welfare.

"This improvement shown by some of the diseased children and the exclusion of a few open cases from the schools, thereby lessening to some degree the amount of exposure to infection of the other children, makes us pleased to think our examinations have been of some value.

"This year, as before, we make no claim that our survey has much statistical value. We show accurately the number infected through the result of the tuberculin test; but until we can X-ray everyone we cannot definitely state the number suffering from the disease. However, to the best of our ability we have pointed out the children with open tuberculosis who are a danger to those with whom they come in contact and who require treatment, and also a larger group who show evidence of disease, but with extra care in regard to rest and

food should be able to carry on with their school work with no injury to themselves or those with whom they come in contact. As we increase our percentage of X-rays, this latter group will become larger, for few of them can be picked out by physical examination alone.

"Of the 266 children examined, it is shown that 71 or 26.72%, showed evidence of tuberculosis, varying from the 12 definitely active cases down through the 59 indeterminate, to quiescent cases.

"Of the 71 cases of tuberculosis, the diagnosis had been made on a previous survey in 36 cases; 25 had previously been considered negative, while the remaining 10 cases were among the new admissions. It is interesting to note that ten out of forty-three new admissions, i.e., 23.25% showed evidence of tuberculosis as compared with 26.72% in the general school population."

Clinics.

The purpose of the tuberculosis clinic or follow-up work, is to re-examine ex-sanatorium patients, to check up contacts, and to see any patients referred by the practicing physicians for opinion as to diagnosis or treatment. Fourteen hundred and thirty-eight such examinations were made, and a diagnosis of tuberculosis made in 102 cases on other than ex-sanatorium patients.

Sanatorium Clinic.

Weekly Wednesday afternoon clinics were held at the Sanatorium, when 213 patients were examined.

Calgary Clinic.

In co-operation with the Calgary Tuberculosis Society, 38 half-day clinics were held in the City Health Department, and 241 examinations made.

Edmonton Clinic.

The fortnightly full day clinic in Edmonton at the University Out-Door Department was again operated 23 times with 294 examinations. The Kinsmen Club, through the Christmas Seal Sale, again provided the services of a full-time tuberculosis nurse for this city.

Okotoks-High River Full Time Health District Clinic

Two Sanatorium physicians co-operated with Dr. Saunders, Medical Officer of Health, in a two-day clinic at High River, when 60 persons were examined. X-ray examinations were made possible by the splendid assistance of the High River Rotary Club, from its Christmas Seal Sale Fund.

Red Deer Full Time Health District Clinic.

Clinics were arranged by Dr. G. M. Little, Medical Officer of Health, at Eckville, Bentley and Red Deer; 124 persons were examined. X-ray services were made possible by the Red Deer Red Cross Society, and Municipal District No. 400.

Medicine Hat Clinic.

Five clinic days were spent in Medicine Hat and 83 patients were examined. Full credit is again due to the Christmas Seal Sale Committee of the city for the provision of funds with which to meet the cost of X-ray examinations of the patients.

Lethbridge Clinic.

The tuberculosis work in Lethbridge continues to be well conducted by the Nursing Mission. Its nurses make hundreds of house visits annually. It supplies medicine and other necessities in some instances and arranges and

assists with the clinics. These were held on three occasions, and during the six days 99 persons were examined.

## Drumheller Clinic.

One tuberculosis clinic was held at the Drumheller hospital and 23 examinations made.

# Central Alberta Sanatorium.

The year 1933 has seen no structural alterations in this institution, but has witnessed its operation to capacity. There have been no changes in the personnel of Department heads, and taken all in all very few staff changes. The complete statistical section is appended.

Information is frequently sought regarding the nativity, racial origin and length of residence in Alberta of the patients. It is to be noted that 78% of the patients were either born in Alberta or had lived here over five years before seeking treatment.

# Nativity of Patients.

The	following	table	shows	the	nativity	of	patients:
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Alberta		27%
Canada		20%
British	Isles	18%
United	States	13%
Others		22%

# Racial Origin.

Patients of racial origin from the British Isles form 51% of the total.

# Length of Residence in Alberta.

Born in Alberta, 46 patients	27%
Less than 2 years, 10 patients From 2 to 5 years, 28 patients	6% 16%
Over 5 years, 89 patients	51%

Twenty per cent. of the patients discharged were considered as not suffering from tuberculosis, while another 7% had inactive tuberculosis, which did not require treatment. Of patients with active tuberculosis who remained in the Sanatorium over one month, 66% were benefited by treatment, 12% were unimproved, and 22% died. Those admitted during 1933 and diagnosed as active tuberculosis of the lungs, had a positive sputum in 76.2% of cases.

# Administration Department.

The total patient days were 74,807, an increase over 1932 of 266. The per diem cost, inclusive of all institutional and clinic services, was \$2.219. Three hundred and eighty-two patients received treatment in the institution.

# Medical and Nursing Services.

The medical work is essentially of the hospital type. Eighty per cent. of the Sanatorium patient days were spent in infirmary where hospital care is required. This work was carried on as formerly by the Matron and 19 graduate nurses, with non-professional assistance.

The medical staff has remained unchanged. Dr. G. R. Davison, travelling diagnostician, was unfortunately seriously sick for a number of months and prevented from carrying on his usual work throughout the Province. An increasing amount of active treatment has been undertaken with favourable results. Examinations other than on patients numbered 1,534, of which 102 were diagnosed tuberculous.

Educational Work.

Five lectures were given to the nursing staff by the medical staff, on the following subjects:

1. History of Tuberculosis Work.

2. Epidemiology.

3. Bacteriology and Pathology.

4. Treatment.

Complications.

A corresponding number on Tuberculosis Nursing were given by the Matron.

Dr. Baker gave the following addresses:

"Tuberculosis and the Young," Radio Talk over University Station.

"X-ray Work in Chest Disease," High River Rotary Club.

"Tuberculosis and the High School Age Group," Study Group, Central High School, Calgary.

## Dental Services.

Dr. A. E. Heacock, Provincial Dentist, made ten visits to this institution, and the details of the work accomplished may be found in the statistical section.

Every patient is examined within one month after admission, and such treatment given as will make possible satisfactory mastication of food. Much prophylactic work is necessary to correct many cases of oral sepsis. Dental care is a part of Sanatorium care and is provided free to the patient except for certain nominal charges for dentures and bridge work. Cases in residence are periodically reviewed.

# Dietary Department.

The usual attention has been given by the Dietitian to the provision of nourishing, appetizing, and well-balanced meals. Nutrition plays such a large part in the treatment of long standing diseases such as tuberculosis, that close attention must be given daily. The total meals served were 314,451 at an average food cost of 10.71 cents.

#### Recreation.

The many friends of the Sanatorium have contributed very generously to make the life of the patients enjoyable. In the statistical section may be found details of this service. The band concerts, other concerts and lectures, passes to theatres and the Calgary Stampede, automobile drives, library books and magazines as well as Christmas gifts, have all been duly appreciated. The library service is an important part of Sanatorium life, and we have always been glad to receive donations of books. We can always use books in English, but we have still greater need of books in other languages. Our patients represent 25 racial origins, many of which are not represented on our library shelves. Donations of books in any of the languages spoken in Alberta would be appreciated.

#### Divine Services.

The religious services broadcasted bring comfort to many. Religious services have been held regularly by Rev. Father McDonald, Ven. Archdeacon Swanson, and representatives of the United Church, under the direction of Rev. Mr. Aldridge.

The Sanatorium suffered a bereavement in the death of Rev. Capt. Muncaster, who for years had been a devoted minister to our patients. His kindly bearing, his sympathetic devotion to all patients, and his constant interest in the life of the Sanatorium are sadly missed. May I express appreciation of the kindly interest and help given by the Honourable Mr. Hoadley, Minister of Health, and by Dr. M. R. Bow, Deputy Minister of Health. To the members of the staff my thanks are due for the splendid co-operation given and for unselfish service rendered to the patients throughout another trying year. Dr. G. M. Reid, Assistant Medical Superintendent, Dr. L. M. Mullen, and Dr. G. R. Davison, physicians, Miss E. McPhedran, Matron, Miss S. M. McLeay, Dietitian, Lt.-Col. E. R. Knight, Bursar, Dr. A. E. Heacock, Dentist, and Mr. E. Appleby, Chief Engineer, and every member of their respective staffs, have all loyally and willingly worked together to give the patients entrusted to them the most efficient care possible.

CLASSIFICATION OF DISCHARGED PATIENTS, 1933

On Admission.		Total.	T.B.		dence			On 1	Disch	arge.	
I. No Disease II. Undiagnosed III. Non-Tuberculous	21		% 	Not over 31 days 2 1 8	31 days 2 13	A.	AA.	Q.	I	U. 2 6	D.
IV. T.B. Inactive	. 13			9	4				3	1	
Total	. 39	26.6		20	19			2	8	9	
V. T.B. Pulmonary— 1. Clinical (No bacilli fou							-	_	-		-
Minimal A			9111	1110	8		2	4	2	6466	****
C			****					****	2000		
Mod. Adv. A	200				18			7	9	2	
В									1111		
C		****		110				****			
Far Adv. A				1	4		****	1	2	1111	1
В		1001	0.000	****	2 2	****	****	1000	1	-	1
C	. 4	****	1000	1111	- 4	****	1000		1	1	4111
Total	. 35	20.2	26.1	1	34		2	12	15	3	2
9 Position (books) found	-	-	-	_		-	-	-	-	-	-
2. Positive (bacilli found											
Minimal A		1111	CHINE	****			10.04		1010	****	****
C											
Mod. Adv. A					6		****	2	3	1	
В					4				4		****
C			****		1		****		1		with the
Far Adv. A		****	****	****	21	****		1	19	****	1
В	0.1			*****	36		****	2	16	8	10
Apparently Hopeless	21	1000	0111	5	20	1111		1	4	3	12
Apparently Hopeless			****	-3		-		****			
Total	96	55.5	71.7	6	90			6	47	12	25
Total Pul. T.B. Active.	. 131			7	124		2	18	62	15	27
		-		_		-	-	-	-	-	-
VI. T.B. Non-Pul.	. 3				3	****			1	1	1
Tot. "Treated" Patients Classification on dis- charge of 27 patients				-	146	-	2	20	71	25	28
not in residence over					Unc	han	ged				
31 days	no.			27	*****	21			1		5
Total	173	_				21	2	20	72	25	33
2000						_	_	_	-	_	-

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, while "A", "B" and "C" signify symtoms in order of increasing severity. "A" Arrested, "AA" Apparently Arrested, "Q" Quiescent, "I" Improved, "U" Unimproved, and "D" Died.

N.B.—Only those in residence over 31 days are classed as treated.

TOTAL NUMBER OF PATIENT DAYS D.P.N.H. 2.247 D.	DALII	RY DAYS	1.613
	Diam		E0 190
74,807	D.P.N.H.	Civilian	60,743 Total
Patients in Sanatorium, Jan. 1, 1933 Patients treated during 1932 Remaining in Sanatorium, Jan. 1, 1934		196 357 201	204 382 209
CLASSIFICATION ON ADMISSION OF	173 DISCHARGE	ED PATIENTS	

CLASSIFICATION ON ADMISS	SION OF 173	DISCHARGED	PATIENTS
No disease Undiagnosed			nary, Active 131 ulmonary 3
Non-Tuberculous 2 Tuberculosis, Inactive 1			173

CLASSIFICATION OF 124 "TREATE	D" CA	SES OF	ACTIVE	PULMO	NARY DI	SEASE
		-		Dischar		Died
On Admission Minimal	8	Ве	nelited 8	Non-bei	nefited	Died
Moderately advanced	29		26	3		1010
Far advanced Apparently hopeless	85 2		48	12		25 2
Apparently hopeless						_
Total	124		82	15		27
DIAGNOSIS OF	NON-T	UBERCU	LOUS C	ASES		
Bronchial Asthma		Pulmor	nary Abs	cess		1
Bronchiectasis Adhesive Pleuritis						
Emphysema	. 2	Silicosi	s		***************************************	1
Infected Tonsils Inguinal Hernia		Second	ary Ana	emia		1
Post Traumatic Neurosis	1		Total			21
Pneumonitis and Septic Tonsils						
REPORT	OF CI	INICS I	HELD			
		No. of	Ex-Pts.	New T.		Total
Calgary Clinic		Clinics.	Exam. 29	Cases 12	Suspects 19	Exams. 241
Edmonton Clinic		23	99	23	31	294
Sanatorium		52	59	20	15	213
Throughout Province Indian Schools, Cardston		10	41	30 17	56 60	406 284
Staff at Sanatorium				****		96
			228	102	181	1,534
TIPL YOU		w ppp			10000	-100
HELIOT	THERAL	PY REPO	ORT	Male	Female	Total
Alpine Lamp Treatments:						
Number under treatment Jan. 1, 19 Number new cases	33			15 15	8 18	23 33
Number discontinued				15	14	29
Number under treatment Dec. 31, Total number of treatments given	1933		5	15 3,427	12	5,324
Total littliber of treatments given				,	2,001	0,024
		22				
	7	No.	No		Total Time	0
Solar Laryngoscopic Treatments		reated.	Treatm 1,5	nents.	Total Time	
Air Baths		reated. 13 164	1.5 14.9	ents. 74 25 10	99 hrs. 0,408 hrs.	
Air Baths Sun Baths		reated. 13 164 46	Treatm 1,5 14,9 1,9	ents. 74 25 10	99 hrs.	
Air Baths Sun Baths OPERATI		reated. 13 164 46	Treatm 1,5 14,9 1,9	ents. 74 25 10	99 hrs. 0,408 hrs.	
Air Baths Sun Baths  OPERATI Summary of Pneumothoray Cases	NG RO	reated. 13 164 46 OM RE	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. 0,408 hrs. 0,643 hrs.	49 min.
Air Baths Sun Baths  OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933	NG RO	13 164 46 OM RE	Treatm 1.5 14.9 1.9 PORT	nents. 74 25 16 85 1	99 hrs. 0,408 hrs. 0,643 hrs.	49 min. 46 27
Air Baths Sun Baths  OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193	NG RO	13 164 46 OM RE	Treatm 1.5 14.9 1.9 PORT	nents. 74 25 16 85 1	99 hrs. 0,408 hrs. 0,643 hrs.	49 min. 46 27
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during yea	NG RO	reated. 13 164 46 OOM REI	Treatm 1,5 14,9 1,90 PORT	nents. 74 25 16 85 1	99 hrs. 0,408 hrs. 0,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths  OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and	NG RO	reated. 13 164 46 OOM REI	Treatm 1,5 14,9 1,90 PORT	nents. 74 25 16 85 1	99 hrs. 0,408 hrs. 0,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during yea	NG RO	reated. 13 164 46 OOM REI	Treatm 1.5 14.9 1.9 PORT	nents. 74 25 16 85 1	99 hrs. ),408 hrs. ,643 hrs.	49 min.  46 27 6 79 26
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted	NG RO	reated. 13 164 46 60M RE	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. 0,408 hrs. 0,643 hrs.	49 min.  46 27 6 79 26 53 16
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections:	NG RO	reated. 13 164 46 90M RE	Treatm 1.5 14.9 1.9 PORT	nents. 74 25 16 85 1	99 hrs. ),408 hrs. ,643 hrs.	49 min.  46 27 6 79 26 53 16 1,734
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride	NG RO	reated. 13 164 46 90M RE	Treatm 1.5 14.9 1.9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6 79 26 53 16 1,734
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin	NG RO	reated. 13 164 46 90M REI	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ),408 hrs. ,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan	NG RO	reated. 13 164 46 90M RE	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6 — 26 — 53 16 1,734 577 40 8 3
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan	NG RO	reated. 13 164 46 90M RE	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6 — 26 — 53 16 1,734 577 40 8 3
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air	NG RO	reated. 13 164 46 OOM REI	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths  OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air Fluid	NG RO	reated. 13 164 46 OOM REI	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air Fluid Fluid with irrigation and refills Aspiration of Abscess	NG RO	reated. 13 164 46 OOM REI	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air Fluid Fluid with irrigation and refills Aspiration of Abscess Rib Resection	NG RO	reated. 13 164 46 OOM REI	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air Fluid Fluid with irrigation and refills Aspiration of Abscess Rib Resection Phrenic Avulsion Phrenic Crushes	NG RO	reated. 13 164 46 90M RE	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6 79 26 73 16 1,734 577 40 8 3 4 4 1 45 166 40 2 2 10 2
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air Fluid Fluid with irrigation and refills Aspiration of Abscess Rib Resection Phrenic Avulsion Phrenic Crushes Libiodol Treatments	NG RO	reated. 13 164 46 90M RE	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air Fluid Fluid Fluid with irrigation and refills Aspiration of Abscess Rib Resection Phrenic Avulsion Phrenic Crushes Lipiodol Treatments Basal Metabolism Test Abdominal Paracentesis	NG RO	reated. 13 164 46 90M RE	Treatm 1,5 14,9 1,9 1,9 1,9 1,9 1,9 1,9 1,9 1,9 1,9 1	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air Fluid Fluid with irrigation and refills Aspiration of Abscess Rib Resection Phrenic Avulsion Phrenic Crushes Lipiodol Treatments Basal Metabolism Test Abdominal Paracentesis Lumbar Punctures	NG RO	reated. 13 164 46 OOM REI	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air Fluid Fluid with irrigation and refills Aspiration of Abscess Rib Resection Phrenic Avulsion Phrenic Crushes Lipiodol Treatments Basal Metabolism Test Abdominal Paracentesis Lumbar Punctures Puncture Antrum Tonsillectomy	NG RO	reated. 13 164 46 OOM REI	Treatm 1,5 14,9 1,9 PORT	nents. 74 25 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6
Air Baths Sun Baths OPERATI Summary of Pneumothorax Cases: Under treatment January 1st, 193 New cases, 1933 Cases under treatment admitted and Total number treated during year Number discontinued during year Number under treatment at end of Number unsuccessfully attempted Pneumothorax Refills Intravenous Injections: Calcium Chloride Sanocrysin Saline and Glucose Neosalvarsan Neoskiadan Aspirations from Pleural Cavity: Air Fluid Fluid with irrigation and refills Aspiration of Abscess Rib Resection Phrenic Avulsion Phrenic Crushes Lipiodol Treatments Basal Metabolism Test Abdominal Paracentesis Lumbar Punctures Puncture Antrum Tonsillectomy Plaster Casts:	NG RO	reated. 13 164 46 OOM REJ	Treatm 1,5 14,9 1,9 PORT	nents. 774 225 16 85 1	99 hrs. ,408 hrs. ,643 hrs.	49 min.  46 27 6 79 26 53 16 1,734 577 40 8 3 4 4 10 2 16 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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	DRATO	DRY REPORT	
Sputum Examinations:	0.045	Blood Counts	994
In Patients Out Patients		Blood Sedimentation Guinea Pig inoculation and	666
Staff	18	autopsies	
		Bacteriological Exams	. 317
	2,413	Other Exams	14
Other Examinations: Urinalysis (Routine and Special)	1 600		3.824
Spinal Fluid	41		0.064
Spinal Fluid Pleural Fluid	53		6,237
			. 178
Number with positive sputum on a	dmissi	on 105	9
Number developing positive sputum	here		
Number with sputum persistently ne	egative	2 6	
Number with sputum not examined .			178
Number with negative sputum diagram	osed	non-T.B. 2	
Number with negative sputum diagrammer with negative sputum diagrammer.	nosed	non-pulmonary T.B.	
Number with negative sputum diag	nosed	T.B. inactive	3 -
Bergentage of active Bulmonary T.B.	milit	positive sputum on admission 76.:	2
rereentage of active runnonary 1.5	. WILL	positive sputum on admission 16.	-
· v	-RAV	REPORT	
	- Atta A	Sternum	. 1
Radiographic: Chest	828	Dental	
Sinuses	14	Gall Bladder	
Gastro-intestinal	57	Foot	
Pelvis	2	Jaw	2
Ribs	11	Fluoroscopic: Chest (Gas Cases)	1 724
Spine	23	(Others)	. 332
Ankle	4	(Lipiodol)	. 15
Hand	4	Barium Series	69
Barium Enema	7	Barium Enemata	7
Knee	6		
DI	PATTERAT	DEDODE	
		L REPORT	100
Patient examinations Patient treatments		Extractions New dentures	
Prophylactic treatments		Dentures repaired	
Fillings	321	areas are process	
I.—SEX:		II.—SOCIAL:	
Male		Single	
Female	76		. 86
	179	Widowed	
	173	Divorced	. 2
			173
III.—AGES:			
5 to 9 years of age	9	30 to 39 years of age	. 47
10 to 14 years of age		and the framework and the second	
15 to 19 years of age			10
20 to 29 years of age	65		173
IV.—RELIGION:			110
	0	Visited	00
Church of England	9		39
Greek Catholic	11	Mennonite Mennonite	1
Greek Orthodox	7	Nazarene	. 1
Lutheran	13	Free Methodist	. 1
Hebrew Solot			. 1
Latter Day Saint Presbyterian			8
Roman Catholic			173
V.—OCCUPATIONS (FEMALE):			
Bookkeeper	1	Postmistress	. 1
Baker	î	Student	. 11
Clerk	1	Teacher	. 2
Housewife		Telephone Operator	1
Housework Nurse			
Stenographer			-
			76

VI.—OCCUPATIONS (MALE):			
Accountant	1	Miner	4
Actor		Painter	1
Blacksmith	1	Physician	2
Bookkeeper	1	Plumber	1
Butcher	2	Printer	1
Carpenter	1	Railway Agent	1
Clerk	6	Salesman	2
Collector	1	Surveyor	1
Cook	3	Steward	1
Doorman	1	Storekeeper	1
Fisherman	1	Student	3
Farmer	27	Teacher	2
Gardener	1	Trainman	3
Grain Buyer	1	Telephone Agent	1
Insurance Agent	2	Vulcanizer	1
Jeweller	1	Waiter	1
Labourer			07
Lineman	1		97
Machinist	1		
*** *** ****			
VII.—NATIVITY:	1000		
Alberta		Lithuania	1
Canada		Norway	3
Assyria		Poland	12
Austria		Russia	5
Czecho-Slovakia		Scotland	12
China		South Africa	1
England		Ukrainia	23
Germany		United States	
Hungary		Wales	3
Iceland		Japan	1
Ireland	-		173
India	-		110
Italy	1		
VIIILENGTH OF RESIDENCE IN A	LBER	TA:	
			177
Born in Alberta		15 to 19 years	17
Under 1 year	4	20 to 24 years	23
1 to 2 years	6 28	25 to 30 years	9 3
3 to 5 years		Over 30 years	0
6 to 9 years			173
10 to 14 years	24		110
IX.—RACIAL ORIGIN:			
		Tamilah	
Assyrian		Jewish	1
Belgian		Lithuanian	1
Breed		Negro	10
Chinese		Norwegian	9
Dutch English		Pole Russian	5
Finnish		Slav	2
French	-	Swede	3
German		Scotch	31
Hungarian		Ukrainian	19
Irish		Welsh	4
Icelandic		Unknown	2
Italian		Olikilowii	
Japanese	-		173
	-		110
X.—RESIDENCE:			
A.—RESIDENCE.			
CITIES:			
	10	Tothbuildee	0
Calgary	42	Lethbridge	3
Edmonton	. 26	Medicine Hat	3
Drumheller	. 3	Red Deer	2
TOWNS:			
	144	222	1 1
Beverley		High River	1
Brooks	. 1	Lacombe	2
Camrose		Ponoka	
Champion	. 1	Tofield	
Clyde	. 1	Stavely	1
Edson	. 1	Vermilion	1
VILLAGES:		A CONTRACTOR OF THE PARTY OF TH	
VILLAGES:		3.5	1
Botha	. 1	Munson	
Botha Eckville	1	Banff National Park	1
Botha Eckville Manville	1	Banff National Park Jasper National Park	1
Botha Eckville	1	Banff National Park	1
Botha Eckville Manville Onoway	1 1 5	Banff National Park Jasper National Park	1
Botha Eckville Manville Onoway  LOCAL IMPROVEMENT DISTRICTS:	1 1 5	Banff National Park Jasper National Park	1
Botha Eckville Manville Onoway  LOCAL IMPROVEMENT DISTRICTS: No. 67	1 1 5	Banff National Park Jasper National Park Transient	1 1 1
Botha Eckville Manville Onoway  LOCAL IMPROVEMENT DISTRICTS: No. 67 No. 96	1 5 5	Banff National Park Jasper National Park Transient  No. 731	1 1 1 1
Botha Eckville Manville Onoway  LOCAL IMPROVEMENT DISTRICTS: No. 67 No. 96 No. 244	1 5 5	Banff National Park Jasper National Park Transient  No. 731 No. 733	1 1 1 1 1
Botha Eckville Manville Onoway  LOCAL IMPROVEMENT DISTRICTS: No. 67 No. 96 No. 244 No. 276	1 1 5 5	Banff National Park Jasper National Park Transient  No. 731 No. 733 No. 796	1 1 1 1 1 1 1
Botha Eckville Manville Onoway  LOCAL IMPROVEMENT DISTRICTS: No. 67 No. 96 No. 244	1 1 5 5 1 1 1 6 1	Banff National Park Jasper National Park Transient  No. 731 No. 733 No. 796	1 1 1 1 1 1 1 1 1

MUNIC	IPAL	DIS	TRICTS:					
M.D.	No.	36		1	M.D.	No.	483	
M.D.	No.	65		1	M.D.	No.	489	2
M.D.	No.	92		1	M.D.	No.	513	1
M.D.	No.	98	***************************************	1	M.D.	No.	514	1
M.D.	No.	190		1	M.D.	No.	515	
M.D.	No.	220		2	M.D.	No.	520	1
M.D.	No.	242		2	M.D.	No.	543	1
M.D.	No.	303		1	M.D.	No.	545	1
M.D.	No.	308		3	M.D.	No.	546	1
M.D.	No.	311		1	M.D.	No.	547	
M.D.	No.	312		1	M.D.	No.	550	1
M.D.	No.	365		1	M.D.	No.	551	
M.D.	No.	367		1	M.D.	No.	572	
M.D.	No.	400	***************************************	2	M.D.	No.	576	
M.D.	No.	401		1	M.D.	No.	579	
M.D.	No.	426		2	M.D.	No.	580	1
M.D.	No.	428		1	M.D.	No.	582	
M.D.	No.	454		1	M.D.	No.	609	
M.D.	No.	456	***************************************	1	M.D.	No.	637	
M.D.	No.	457	***************************************	2	M.D.	No.	739	
M.D.	No.	459		1	M.D.	No.	857	
M.D.	No.	482		1				

### ENTERTAINMENTS AND DONATIONS

CONCERTS—Orchestra, Mr. James Hogg; Choral, Hudson's Bay Choir; arranged by Mrs. Dingle, Jean de Rimanockzy, Miss Worden, and Mrs. Munroe.

BAND CONCERTS—Elks' Band; Shriners' Band; Salvation Army Band; 2nd Calgary Regiment Band.

PLAYS-Springbank Y.P.I.

ILLUSTRATED LECTURES—Mr. A. E. Ottewell, "Evolution"; Lt. H. Bright, R.N., "Zeebrugge"; Archdeacon Swanson, "Yukon"; Prof. E. A. Corbett, "French Canada."

LECTURE-Mr. A. Calhoun, "On Reading."

MOVING PICTURE FILMS-Department of Interior; Engineering Institute.

PARTIES-Garden Party in July; Hallowe'en Party.

WHIST DRIVES-Recreation Committee; Military Chapter I.O.D.E.

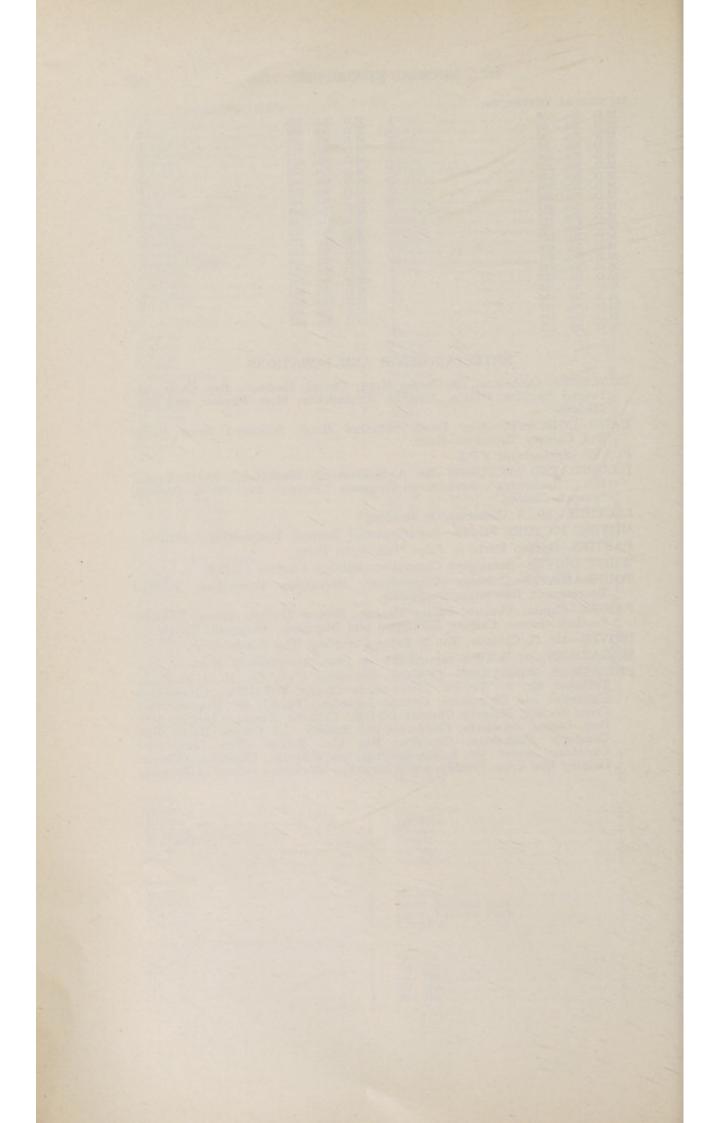
TOURNAMENTS—Cribbage Tournament, Recreation Committee; Billiard Tournament, Recreation Committee.

PASSES—Capitol Theatre; Palace Theatre; Strand Theatre; Grand Theatre; Football Games; Calgary Exhibition and Stampede; Stampede Parade.

DRIVES-Mr. N. Christie; The T. Eaton Company; The Rotary Club.

MAGAZINES and BOOKS throughout the year, anonymously given.

CHRISTMAS DONATIONS—Cheques: Samaritan Club, Mr. H. C. Farthing. Turkeys: Mr. A. Weyers. Home-made Candy: Y.W.C.T.U., Claresholm. Cigarettes and Chocolates: Ontario Laundry. Parcels for Patients: Red Cross Society, Military Chapter I.O.D.E., Catholic Women's League, 50th Batt. Ladies' Auxiliary, Children's Aid Society. Ice Cream: Union Milk Company. Magazines: Canadian Bag Co., Rotary Club. Music for Christmas Dinner: Mr. J. Van Stockum and Friends. Christmas Concert: Calgary Red Cross Society, featuring Alice Murdoch's School of Dancing.



# ANNUAL REPORT

OF THE

# Vital Statistics Branch

OF THE

DEPARTMENT OF PUBLIC HEALTH
PROVINCE OF ALBERTA
1933

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# VITAL STATISTICS BRANCH

(Donald Mackie, Deputy Registrar General)

The Vital Statistics of the Province of Alberta for the year 1933 show a further considerable decrease in the birth rate, a substantial increase in the marriage rate and a slight decline in the general death rate, but small increases in the maternal and infantile mortality rates.

The birth and death rates are the lowest on record since the formation of the Province; the number of births and deaths is also less than the average for the preceding five years. The maternal mortality and infantile death rates are both higher than the year 1932, but are lower than any other year. The death rates from epidemic and contagious diseases are all lower than the preceding year, and with the exception of influenza have almost reached the vanishing point. Cancer still steadily increases, the deaths from this disease amounting to 13% more than in the preceding year. The rate from accidental and violent deaths is still alarmingly high, having risen from fourth to third place in the frequency of causes of death. The number of deaths from suicide has again decreased.

The population of the Province of Alberta for the year 1933 has been estimated by the Dominion Bureau of Statistics at 757,000; this figure has therefore been used in this report when estimating rates.

The number of living children whose births were registered during the year amounted to 16,123, being equivalent to a birth rate of 21.33 per 1,000 population, and is 867 less than the number for the preceding year.

Comprising the 16,123 births were 8,321 males and 7,802 females, the ratio being 1,053 males to 1,000 females, being approximately the average for the past 10 years. There were 404 twins and 9 triplets. Illegitimate children numbered 623, being 18 more than the number for the previous year, and constituting a rate of 3.9 per 100 births.

Of the total births registered 6,719 occurred in the cities and towns of over 1,000 population, 8,627 in the rural districts, and 777 in Indian reservations. The births registered in the four large cities are as follows: Edmonton 2,085, Calgary 1,624, Lethbridge 517, and Medicine Hat 320.

For comparison, the following are the birth rates for Canada and the Provinces for the year 1933:

Canada Prince Edward Island	20.9 21.9	Ontario Manitoba	18.0 18.4
Nova Scotia	21.3	Saskatchewan	21.2
New Brunswick	23.9	Alberta	21.3
Quebec	25.9	British Columbia	13.4

Marriages registered in Alberta during the year numbered 5,389. This number is 335 more than that of the previous year, and 73 less than the average of the 5 preceding years, and constitutes a rate of 7.1 per 1,000 population. This is again the highest marriage rate in any Canadian Province, the rate for Canada and the Provinces for the year 1933 being as follows:

Canada	6.0	Ontario	6.4
Prince Edward Island	5.4	Manitoba	6.7
Nova Scotia	6.3	Saskatchewan	5.6
New Brunswick	6.1	Alberta	7.1
Quebec	5.2	British Columbia	5.7

Of the 5,389 marriages, 135 were brides of 16 years of age and under, 1,316 between the ages of 17 and 19, and 2,489 brides between the ages of 20

and 24. There were 59 grooms and 36 brides over 60 years of age, 15 of the grooms and 5 of the brides being over 70 years of age. The marriages in the four large cities were as follows: Edmonton 1,137, Calgary 999, Lethbridge 238, and Medicine Hat 151.

The divorces granted by degree absolute during the year numbered 135, which is 14 less than the number for the previous year and 21 less than the average for the preceding 5 years; 56 were granted to husbands and 79 to wives. In addition to the above, 6 decrees of nullity were granted.

The deaths of 5,346 persons (including Indians) were registered in Alberta during the year 1933, of whom 3,165 were males and 2,181 were females. This number is 175 less than in the previous year, and constitutes a death rate of 7.06 per 1,000 population, being a decrease of .40 compared with the previous year; 225 males and 166 females were 80 years of age or over at the time of death, whilst one male and one female were centenarians. The following are the death rates for Canada and the various Provinces during the year 1933.

Canada	9.6	Ontario	10.0
Prince Edward Island	11.6	Manitoba	7.6
Nova Scotia	11.5	Saskatchewan	6.3
New Brunswick	11.7	Alberta	7.0
Quebec	10.7	British Columbia	8.7

The most frequent case of death was heart disease, accounting for 14.01 per cent. of the total. Cancer was second, having risen from 9.76 to 11.03. Violent deaths advanced from 6.18 to 7.07, being 37 more deaths. Pneumonia dropped from 6.56 to 6.11, being 35 less deaths from this cause. The rate from Pulmonary Tuberculosis was practically stationary, taking fifth place with 5.70 of the total deaths. The rate from Influenza shows a considerable decrease over the previous year, being 4.17 of the total deaths as compared with 5.38 for 1932. Deaths from puerperal causes increased by 9, totalling 73, being a rate per 1,000 births of 4.53 compared with 3.76 for the year 1932, which year, however, was the lowest in the history of the Province.

The following table shows in order of frequency those causes of death which during the year or in previous years accounted for at least one per cent. of the total deaths. Both the actual numbers and the percentage of each is given, together with the figures for the three preceding years for the purposes of comparison.

AND MAKE THE PARTY OF THE PARTY	19	933	1932		1931		1930	
		Jo		of	12/	of	100	jo
Causes of Death	Number	Per Cent. Total						
Diseases of the Heart	749	14.01	762	13.80	503	9.49	564	10.26
Malignant Tumours	590	11.03	539	9.76	441	8.32	482	8.75
Violent Deaths (suicides excepted)	378	7.07	341	6.18	408	7.70	463	8.42
Pneumonia (all forms)	327	6.11	362	6.56	410	7.73	468	8.52
Pulmonary Tuberculosis Diseases of the Circulatory System (heart	305	5.70	313	5.67	306	5.77	321	5.84
excepted)	295	5.52	283	5.13	389	7.34	252	4.59
Influenza	223	4.17	297	5.38	186	3.51	130	2.37
Nephritis	194	3.63	218	3.95	168	3.17	172	3.13
Appendicitis	130	2.43	137	2.48	132	2.49	137	2.49
Apoplexy	127	2.37	149	2.70	126	2.38	116	2.11
Diarrhoea and Enteritis (under 2 years of age)	89	1.00	101	0.07	150	0.00	100	
C. I. I.I.	85	1.66	131	2.37	153	2.89	128	2.33
Discourse and Assistants of December 1	73	1.36	64	1.74	123	2.32	113	2.06
Whooping Cough	55	1.03	34		87	1.64	114	2.07
Measles	6	.11	14	.62	32	.60	51	.93
Diphtheria	6	.11	10	.25	25	.13	13	.24
Typhoid Fever	6	.11	9	.16	16	.30		.55
Scarlet Fever	5	.09	4	.07	8	.15	16	.29

The foregoing list comprises 3,643 deaths and amounts to 68.1 of the total deaths for the year.

The deaths of children less than one year old numbered 966, being 31 less than the previous year. This is an infantile mortality rate of 59.9 per 1,000 births, an increase of 1.3 over the year 1932 and 10.0 less than the average of the 5 preceding years.

The following table gives for purposes of comparison the infantile mortality rate for Canada and the Provinces for the year 1933:

Canada	73.1	Ontario	59.8
Prince Edward Island	60.6	Manitoba	63.4
Nova Scotia	71.1	Saskatchewan	61.1
New Brunswick	81.8	Alberta	59.9
Quebec	94.5	British Columbia	45.9

There was a further decrease in deaths by suicide, the number being 85 compared with 96 for the previous year. Deaths by murder and manslaughter amounted to 12, an increase of 3 from the previous year. Stillbirths numbered 447 as compared with 484 for the year 1932.

# DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTIC 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, Towns and Villages with the 1931 and 1926 official Division population figures.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926

Census Divisions and	Popu	lation	Census Divisions and	Population		
Municipalities	1931	1926	Municipalities	1931	1926	
Province	731,605	607,599	Division No. 2—Continued:			
Division No. 1: Medicine Hat	28,849		Towns—Continued:			
1 L.I.D. 2 L.I.D.			Coleman	1,704	2,044	
2 L.I.D. 3 L.I.D.		134 127	Diamond City	119	290	
4 L.I.D.			Granum Macleod	329 1.447	1.71	
5 L.I.D.	1,097	876	Magrath	1,224	1,20	
6 L.I.D.			Pincher Creek	1.024	1.00	
31 L.I.D. 32 L.I.D.			Raymond Villages	1,849	1,77	
33 Flowery Plains		513	Villages Coaldale	2,161	1,93	
34 Burlington	793	773	Coalhurst	953	79	
35 L.I.D.			Cowley	151	14	
36 Warner 61 L.I.D.		956 799	Frank	268	29	
62 L.I.D.	001	682	Monarch Pincher City	117	9	
63 L.I.D.		449	Stirling	45 376	5 32	
64 Forty Mile				0.0	-	
65 Eureka 66 L.I.D.		779	Division No. 3: Bow	15,066	12,14	
66 L.I.D. 91 L.I.D.	W 100 100 100	1,464	96 McLean 121 L.I.D.	713	66	
92 Excelsior			121 L.I.D. 122 L.I.D.	452 357	36	
93 L.I.D.	852	612	123 Sunny South	209	13	
94 Bow Island			124 L.I.D.	30	4	
Medicine Hat			125 L.I.D. 126 L.I.D.	713	13	
Towns		1.851	151 L.I.D.	1.097	45 83	
Bow Island	314	299	152 L.I.D.	129	12	
Irvine		210	153 L.I.D.	135	15	
Taber Villages	0.00		TER T TTO	620	14	
Burdett		112		722 673	65	
Milk River	350	211	181 L.I.D.	1.304	1.19	
Warner	342	313	182 L.I.D.	349	35	
Division No. 2: Macleod	57,186	51,103	183 Britannia	477	42	
7 L.I.D.		324	184 L.I.D. 185 L.I.D.	169	13	
8 L.I.D.			186 L.I.D.	1,634 803	1,22	
9 L.I.D.			211 L.I.D.	548	43	
10 Cochrane 37 Sugar City	1,320		Towns	2,515	2,20	
38 L.I.D.			Bassano Brooks	615	77	
39 Kerr	2,007	1,522	Redcliffe	708 1.192	51 91	
40 Castle River			Villages	747	87	
67 L.I.D. 68 L.I.D.		3,470	Alderson	81	7	
68 L.I.D. 69 Bright			Duchess	114	13	
70 Livingstone	1.502		Empress Enchant	314 92	37	
71 L.I.D.			Jenner	62	4	
99 Argyle			Retlaw	84	9	
00 L.I.D.		640 149	Division No. 4: No.			
Indian Reserves			Division No. 4: Nanton 97 L.I.D.		24,77	
Cities	13,489	10,735	98 Little Bow	2.258 1.589	1.48	
Lethbridge	13,489		127 Clifton	1.043	82	
Towns Blairmore			128 Harmony	1.157	1.15	
Cardston	1,629		129 Clear Lake 130 L.I.D.	2,231	2.19	
Claresholm	1,156	956	130 L.I.D.	395 46	30	

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and	Popul	ation	Census Divisions and	Popula	ation
Municipalities	1931	1926	* Municipalities	1931	1926
vivision No. 4—Continued:			Division No. 6—Continued:		- Nake
57 Marquis	1,923	2,147	278 Carbon	5.365	4.16
8 Royal		1,802	279 Norquay	2,170	2,35
9 Riley	1,959	2,052	280 Rosebud	2,177	2,13
50 L.I.D. 51 L.I.D.		305	281 Beaver Dam	1,926 593	1,66
89 Dinton		1.855	282 L.I.D. 308 Ghost Pine	2.129	2.20
90 Sheep Creek	The second second	1.861	309 Stauffer	2,027	1.97
91 Stockland		1,779	310 Mountain View	2,506	2,37
92 L.I.D.		5	311 Westerdale	2,420	2,2
Towns		4,035	Unorganized parts	2.238	1,92
Carmangay High River	1,459	290 1,377	Indian Reserves Banff	2,109 2,519	2.20
Nanton		729	Cities	86.748	61.8
Okotoks		579	Calgary		65.2
Stavely		285	Drumheller		2.5
Vulcan		775	Towns	3,475	3,4
Villages		1,306	Didsbury	801	7
Arrowwood		256	Gleichen	514	5
Black Diamond	-	236	Olds	1,056 523	1,0
Blackie		289	Strathmore Three Hills	581	5
Cayley		191	Villages	3.965	3.7
Champion	310	287	Acme		2
Lomond		147	Airdrie	198	1
Milo		100	Beiseker	230	2
Nobleford		136	Carbon		4
Turner Valley	656	*****	Carstairs	387 134	3
ivision No. 5: Acadia	26,651	27,247	Cluny Cochrane	293	2
12 L.I.D.		591	Crossfield		3
13 L.I.D.		374	Hussar		
14 Berry Creek		534	Irricana	161	1
15 Bulyea		336	Langdon	83	
41 Acadia		841	Newcastle	304 194	2
42 Cereal 43 Collholme		1,025 711	Rockyford Rosebud		1
44 Flowerdale		718	Standard		2
45 Lonebutte	2200	637	Swalwell		
46 L.I.D.		308	Trochu		4
71 Bertawan	1,186	1,229			
72 Golden Centre		1,130	Division No. 7: Battle River		35,9
73 Sounding Creek 74 Richdale		752	331 L.I.D.   332 L.I.D.		1.1
75 Hand Hills		1.099	333 L.I.D.		1.1
77 Michichi		2.015	334 Coronation		1.8
01 Canmer		1.035	335 Sullivan Lake	707	7
02 Stewart		857	361 Rosenheim		1.5
03 Wiste		1.073	362 Hillcrest		1.2
04 Hiram	796	617	363 Stocks 364 Flagstaff		1,1
05 Dowling Lake 06 Lambton		1,694	365 Progress		1.8
07 Starland		1.378	391 Sifton		1,5
Towns		4,435	392 Vale		8
Hanna	1,490	1,400	393 Huamha	1,233	1,1
Youngstown	372	457	394 Asquith		1,2
Villages		1,787	395 Wheatland		1.6
Chinook		150 198	421 Ribstone 422 Gilt Edge		1,3
Chinook Craigmyle		232	423 Battle River		1.0
Delia		329	424 Kinsella		1.0
Morrin		162	425 Stirling		2,1
Munson		223	455 Iron Creek		1,5
Oyen		346			2,8
Richdale		58			
Rumsey	83	89	Coronation Hardisty		
Muleion No. 6: Colgany	140 624	114 941	Wainwright		1,0
oivision No. 6: Calgary		114,841	*****		
17 L.I.D.				260	1
18 Blackfoot				. 128	
19 Bow Valley	1,679	1.981	Chauvin		
20 Shepard	3,048				
21 Springbank					
22 L.I.D.					
47 L.I.D. 48 Grasswold			11		
49 Keoma				100	
THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I					
250 Beddington	2,272	2,339	AAUGIREHUEH	196	

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and	Popul	ation	Census Divisions and	Population		
Municipalities	1931	1926	Municipalities	1931	192	
Division No. 7—Continued:			Division No. 9—Continued:			
Lougheed	218	265	462 L.I.D.	101		
Monitor	137	139	463 L.I.D.			
Provost	533	476	464 T. 44-46, R. 13-15, W. 5		1.7	
Sedgewick Strome	338 172	362 182	Unorganized parts Indian Reserves	249	1,,	
Veteran		167	Jasper	1.230	9	
Viking	492	447	Villages	2,319	1.9	
			Bentley		2	
ivision No. 8: Red Deer			Bowden	233		
6 Success		1,592	Eckville	169 318	1	
37 Vimy 38 Hays		1,140 2,458	North Red Deer Rimbey		1	
9 Pine Lake		1.974	Rocky Mt. House	646	4	
0 Arthur		1.952	Sylvan Lake	416	1	
6 Dublin	1,425	1,356		100A000	1	
7 Waverly		1,839	Division No. 10: Victoria		51,8	
6 Haig	1.486	1,456	451 Merton		1,3	
7 Lakeside	1.622 2.205	1,517 2,291	452 Grizzly Bear 453 Buffalo Coulee		1.0	
8 Lamerton	3.689	3.644	454 Lakeview	4 200	1.3	
6 Melrose		2.425	481 Wellington		1.	
7 Evergreen	2,592	2,677	482 Vermilion Valley	1,843	1,	
8 Waterglen	1.386	1,346	483 Melberta	1,992	1.0	
9 Fertile Valley		2.080	484 Birch Lake	2,312	2,	
6 Parkland		2.851	485 Patricia	2.111	1.	
7 Lloyd George		2.702 3.298	486 Beaver Lake	3,028	1.	
8 Montgomery 9 Bigstone		2.386	511 Streamstown 512 Ethelwyn		2.	
Indian Reserves	7,777	971	513 Ukrainia		2.1	
Cities		3,905	514 Sobor		2.5	
Red Deer		2.021	515 Norma	3.201	3,6	
Wetaskiwin		1.884	516 The Pines		2,	
Towns	7,455	8,412	545 Eagle		3.1	
Big Valley		2.002	546 Wostok		3.1	
Camrose Daysland		490	547 Leslie Towns	20 4 20 20	3.	
Innisfail	1.024	944	Lloydminster (part)	W 20.00	-	
Lacombe		1.151	Vegreville		1.	
Ponoka		1.931	Vermilion	1,270	1,3	
Stettler		1.127	Villages		3,	
Villages		3,421	Andrew			
Alix Bashaw		229 418	Bruderheim Chipman			
Bawlf		184	Derwent	2000		
Bittern Lake		37	Holden			
Blackfalds		105	Innisfree	227	3	
Botha		128	Islay			
Clive		208	Kitscoty	280		
Delburne		151 191	Lamont	507 151		
Donalda Edberg	131	101	Lavoy Mannville	307		
Elnora			Minburn	119		
Erskine		160	Mundare		1	
Ferintosh		126	Myrnam			
Gadsby Halkirk		162 165	Ranfurly			
Heisler		113	Ryley Two Hills			
Millet		241	Willingdon		- 3	
Mirror	534	431				
New Norway	142	137	Division No. 11: Edmonton			
Ohaton		74	487 Cornhill	2,753	2,	
Penhold	125	161	488 Black Mud		3,	
ivision No. 9: Rocky Moun-	1		489 Liberty		4.	
tain House	24,503	20,024	490 Pioneer	1 2 2 2 20	1,	
2 Waterloo	1.008	665	517 Clover Bar		2.	
1 Poplar Grove	2,540	2,366	518 Strathcona		3,	
2 Raven		1,447	519 Spruce Grove	3.499	3,	
3 Prairie Creek		528	520 Inga	2.851	2,	
14 L.I.D.	2,266	2 110	521 Tomahawk		0	
71 Golden West		2,110 2,162	548 Sturgeon		3,	
01 Lochearn		2.052	549 Ray 550 Woodford		3,	
03 L.I.D.	347	269	551 Morthen		1.	
30 Blindman	1.376	1.439	Indian Reserves		1	
31 Last West	1.074	894	Cities		65.	
32 L.I.D.		9	Edmonton	79.197	65,	
33 L.I.D.	24	9			4.5	
34 L.I.D. 60 Columbia		324 742	Beverly Fort Saskatchewan	1,111	1	
	4 4 4 5 7 9	4.78.00	FOR SHARMING	1,001	1	

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and	Popul	ation	Census Divisions and	Popula	ation
Municipalities	1931	1926	Municipalities	1931	1920
ivision No. 11—Continued:			Division No. 14—Continued:		
Morinville	570	562	578 Opal	3.286	2.93
St. Albert	825	684	579 Hazelwood	3.438	2,9
Stony Plain	497	456	580 Lockerbie	2,444	1,8
Tofield	497 593	506 264	581 Pershing	1,664	9
Villages Alberta Beach	38		606 L.I.D. 607 L.I.D.	131 887	5
Hay Lakes	125		608 Tawatinaw	8.147	1.1
Onoway	149	70	609 Pibroch	2.210	1.6
Seba Beach	41		610 Shoal Creek	2.095	1.4
Spruce Grove	76		611 L.I.D.	406	1
Wabamun	164	194	636 L.I.D. 637 Cartier	217	1
vision No. 12: Edson	13,815	10,968	637 Cartier 638 Nelson	1.273	8
3 L.I.D.	4	4	639 L.I.D.	757	3
6 L.I.D.	902	664	640 L.I.D.	687	2
2 Rocky Rapids	1,148	343	665 L.I.D.	1,130	8
3 L.I.D.	13	4	667 L.I.D.	1,342	6
5 L.I.D.	24	29	668 Grosmont	886	4
6 L.I.D.	116	156	669 L.I.D.	79	1
7 L.I.D. 2 Pembina	2.041	1.212	696 L.I.D. 697 L.I.D.	144	2
3 L.I.D.	728	319	698 L.I.D.	40	-
4 L.I.D.	685	341	699 L.I.D.	357	1
5 L.I.D.	655	357	726 L.I.D.	274	
6 L.I.D.	274	249	727 L.I.D.	76	
7 L.I.D.	57	70	728 T. 71-74, R. 22-24, W. 4,		
8 L.I.D. 2 Kitchener	2.340	1.906	N. of Athabasca R	120	
3 L.I.D.	654	736	Towns	573	4
4 L.I.D.	543	349	Athabasca	573	4
6 T. 56-59, R. 19-22, W. 5,			Villages	1,973	1,€
and S.E. of Athabasca			Barrhead	222	
R		3	Clyde	186	7
7 T. 56-58, R. 21-24, W. 5,			Lac la Biche	313	4
and W. of Athabasca R. and St. Berland R.			Smoky Lake	350 366	20.00
8 L.I.D.	6		Westlock	536	3
2 L.I.D.	341	254	11 00110011	000	
Territorial Units 615, 585	12	13	Division No. 15: Clearwater	13,664	6,3
Unorganized parts	1.133	2,182	613 L.I.D.	53	
Towns	1,547	1,493	641 L.I.D.	543	
Edson Villages	1,547	1,493	642 L.I.D. 705 L.I.D.	9 24	
Entwistle	189	170	706 L.I.D.	270	
Mayerthorpe	159		707 L.I.D.	141	
			708 L.I.D.	25	
ivision No. 13: Beaver R	24,936	17,174	709 L.I.D.	42	
1 L.I.D.	745	492	710 L.I.D.	78	
2 Lincoln	933 2.646	631 2.210	730 L.I.D.	175 363	
3 Laurier 4 Champlain	2.257	1.562	731 L.I.D.   732 L.I.D.	578	
1 L.I.D.	65	5	733 L.I.D.	504	
2 Bonnyville	1,419	915	734 L.I.D.	149	
3 St. Vincent	2,554	1.826	735 L.I.D.	147	
4 St. Lina	817	509	736 L.I.D.	41	
5 Vilna	3,756	3,502	737 L.I.D.	23	
1 L.I.D.	760 1.105	136 314	738 L.I.D. 764 L.I.D.	1,333	
2 L.I.D. 3 L.I.D.	615	160	764 L.I.D. 765 L.I.D.	1,101	
4 L.I.D.	497	161	766 L.I.D.	503	
5 Ashmont	1.616	1.327	767 L.I.D.	24	
1 L.I.D.	677	350		141	
3 L.I.D.	82	33	795 L.I.D.	648	
4 L.I.D.	186	111	796 L.I.D.	2,408	1,0
5 L.I.D. 3 L.I.D.	568	239	824 L.I.D.   825 L.I.D.	10 215	
3 L.I.D. 4 L.I.D.	13	14	825 L.I.D. 826 L.I.D.	891	
6 L.I.D.	320	146		477	1
5 L.I.D.	218	66		1334	
Territorial Units 632, 661	5	3	and other parts	47	
Indian Reserves	1,514	1.398	Indian Reserves	909	1
Villages	1,568	1.064	Towns	1,125	
Bellis	117 362		Grouard Peace River	261 864	
Bonnyville	938	933	Villages	253	
St. Paul	151	131	Falher	253	
Taken and the same	201	-			
totales No. 14. Changeon	39,508	29,062	Division No. 16: Peace River	27,945	11.3
ivision No. 14: Sturgeon	4,268	4.161		2,389	1.

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS. 1931 AND 1926—Continued

Census Divisions and	Popula	ation	Census Divisions and	Popul	ation
Municipalities	1931 1926 Municipalities		Municipalities	1931	1926
Division No. 16—Continued:			Division No. 16—Continued:		1000
741 L.I.D.	1,566	638	891 L.I.D.	77	****
742 L.I.D.	460	167	916 L.I.D.	231	1100
769 L.I.D.	514	82	917 L.I.D.	298	****
70 L.I.D.	871	236	919 L.I.D.	24	1
771 L.I.D.	1,730	775	Unorganized parts	72	
72 L.I.D.	1,358	340	Indian Reserves	1.068	20
97 L.I.D.	549	108	Towns	1,464	91
800 L.I.D.	296	77	Grande Prairie	1.464	91
01 L.I.D.	167		Villages	1.715	24
27 L.I.D.	161	3	Beaver Lodge	211	8111
28 L.I.D.	381	149	Clairmont	110	7
29 Spirit River	1.800	893	Fairview	260	
30 L.I.D.	738	77	Grimshaw	137	
31 L.I.D.	487	34	Hythe	278	
57 Peace	1.990	1.377	Sexsmith	304	
58 Fairview	2.264	1,507	Spirit River	232	16
59 L.I.D.	519	84	Wembley	183	
86 L.I.D.	508	150			
87 L.I.D.	525	160	Division No. 17: Athabasca	5,788	4.84
88 L.I.D.	581	31	Remainder of the Province	0,100	-,0-
89 L.I.D.	425	29	comprising Northern parts	4.312	3.04
90 L.I.D.	34		Indian Reserves	1.476	1.79

OVINCE OF ALB ERTA BY DIVISIONS, R. 1933	DEATHS	Under 1-4 years 5 years and over	M. F. M. F. M.	81 573 393 158 118 2434	94         25         13         6         2         78         13         6         2         78         13         6         2         78         11         6         2         12         13         6         13         13         14         14         13         14         14         13         14	13 1 2 2 2 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1
ES IN THE PROVINCE ON AND OVER, 1933		All Ages	Total M. F.	5346 3165 2181	203 475 78 48 140 1111 1092 123 1111 1117 1127 128 1127 128 129 129 129 129 129 129 129 129	34 21 21 34 21 21 34 21 34 21 34 21 34 21 34 34 34 34 34 34 34 34 34 34 34 34 34
DEATHS AND MARRIAGES VNS OF 1,000 POPULATION		(Exclusive of Still- births)	Total M. F. T	16,123 8321 7802	596         320         276           1341         688         653           364         138         140           364         138         140           326         170         156           2632         1361         1271           420         229         381           1369         381         1485           1369         717         652           2974         1489         1485           314         471         437           1152         603         549           472         271         437           271         149         122           263         141         122           263         141         122           263         141         122           263         141         122           271         246         50           310         41         59           110         41         59           118         68         50	7 5 2 2 18 100 53 47 138 76 62
TABLE 1.—GENERAL SUMMARY OF BIRTHS, DEA		Divisions, Cities and Towns		TOTAL FOR THE PROVINCE	Division No. 1 Division No. 2 Division No. 3 Division No. 3 Division No. 5 Division No. 6 Division No. 7 Division No. 10 Division No. 11 Division No. 12 Division No. 13 Division No. 14 Division No. 15 Division No. 15 Division No. 16 Division No. 17 Division No. 18 Divis	TOWNS: Beverly Blairmore Camrose Cardston

TABLE 1.—GENERAL SHIMMARY OF RIRTHS DEATHS AND MARRIAGES IN THE PROVINCE OF ALBERTA BY DIVISIONS, CITIES AND

		o inthe					D	DEATHS					
Divisions, Cities and Towns	(Exclusive of births)	ive of	Still-	Al	All Ages		Under 1 year	ler ear	1-4 ye	years	5 years and over	ars	squip
	Total	M.	H.	Total	M.	F.	M.	(Int	M.	(Fi	M.	(kg	uus
Claresholm Coleman Edson	***	315	3233	2122	100	11 8	844	-63	HHH		1200	1188	- 11
Fort Saskatchewan Grande Prairie	136	18	10	33.7	183	15	-	.00		11	16.3	124	63 1
Hanna High River	112	52	41	88	12	13		4-1	-	-	10	13.8	1
Innisfail	112	26	26	32	21	11	211	1			19	200	-0
Lacombe Macleod	26	21	18	38	38	12	000		71	7	19	13	3 64
Magrath	28	155	13	600	90	800	6		1		10 45	113	
Pincher Creek	37	21	16	23.5	13	10	1-1			1	12	6	i ca :
Raymond	76	34	42	99	00 4	000	1	1	-		214	010	1
Stettler	84	42	42	31	14	17	1		2		11	16	9
Taber	99	33	33	18	00	10	7	-			41	0.1	100
Vegreville	152	80	72	333	22	% <u>=</u>	10 01	22	50	-	10	- 00	
Wainweight	200	200	41	200	-				_				

CLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS FOR THE

							MONTHS	IS					
	Total	January	February	March	April	May	aunr	Amr	tsuguA	September	October	Мочетрег	December
ALBERTA Rural Urban	16123 9404 6719	1347 794 553	1236 751 485	1490 868 622	1361 762 599	1364 784 580	1355 763 592	1440 793 647	1297 753 544	1278 738 540	1332 799 533	1284 788 496	1339 811 528
BIVISION No. 1—MEDICINE HAT Rural Urban City of Medicine Hat Town of Taber	596 210 320 66	173228	24 24 4	32000	138884	23822	31 33 35 35 35 35 35 35 35 35 35 35 35 35	821282	48 16 32 27 5	48 27 27 16 11	86 38 17 88	81223	33 34 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
DIVISION No. 2—MACLEOD Rural Urban City of Lethbridge Town of Blairmore Cardston Claresholm Coleman Macleod Magrath Pincher Creek Raymond	1341 239 138 38 38 38 37 76	101 455 101 101 101 101 101 101 101 101 101 1	88888000HU4HR	88888844444444444444444444444444444444	131 44 855 44 10 10 10 13 88 88 88 88 88 88 88 88 88 88 88 88 88	1128441111442111	858 828 828 828 838 84 84 84 84 84 84 84 84 84 84 84 84 84	828 870 101 888 888 888 888 888 888 888 888 88	1858 1871 1888 1898 1898	252 252 111 112 123 144	105 222 831 101 102 84 84 84 84 84 84 84 84 84 84 84 84 84	228 229 221 22 23 24 65 24 65 77	011 888 44 10 10 10 10
DIVISION No. 3—BOW Rural Urban Town of Redcliff	278 269 9	23	13.13	53	13	222	88	20 20 1	20 13 1	22	91	272	22822
DIVISION No. 4—NANTON Rural Unban Town of High River	272	22.00	32 28	170	29 112 122	25 m	26.35	229	22 23 27 27 27 27 27 27 27 27 27 27 27 27 27	19 19 14	e e 1228	249	2223
DIVISION No. 5—ACADIA Rural Urban Town of Hanna	326 214 112 112	222	123	27.27	12128	88 213	2455	33 17 17	1001	111	100 100	2822	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS FOR

215 62 153 150 3 THE December 76 136 135 135 November 246 13228 October 86 17 14 14 3 D 10 4 4 644-1-10001-0 26 September 85858 251 62 189 184 4 asngny 21256 ang 33 12 12 12 25 26 118 239 61 61 73 73 83 83 aunc 2025222 36 36 36 36 36 822888 97 PROVINCE OF ALBERTA, 1933-Continued May 882133 HirdA 26 46 11 19 19 19 19 19 6673 55 123 280 77 203 202 March 13 13 4 50 130 February 825 249 70 179 173 January 675 676 676 679 100 100 100 1112 84 84 420 2632 675 675 1057 705 705 715 75 238 152 152 86 854 854 854 855 855 2085 28 Total DIVISION No. 9-ROCKY MOUNTAIN HOUSE DIVISION No. 7-BATTLE RIVER City of Edmonton Town of Beverly Fort Saskatchewan DIVISION No. 11-EDMONTON DIVISION No. 10-VICTORIA DIVISION No. 8-RED DEER DIVISION No. 6-CALGARY Town of Wainwright City of Calgary Drumheller Town of Olds Town of Camrose Innisfail . Lacombe . Stettler ... City of Red Deer Wetaskiwin Town of Vegreville Vermilion Urban Urban Rural Rural Rural Rural

2044	67	100	388	2452	22.
				53	
				85.5	
-				52	
				98	
				8455	
16 55 55	20.00	92	22	16	77.7
19	78	96	RR	123.6	61
2222	19	66	25	151-80	26
38 10 10	55	113	42	3811	33
888	122	20.00	88	53	233
52244	808	88	36	533	1212
4=00	8 8	0101	2121	E1599	
23.33	8.8	115	42	721 585 136 136	277
1111					
	IVER		ER	ER	A
Z	/ER RI	GEON	RWAT	E RIV	ABASC
DIVISION No. 12—EDSON Rural Urban Town of Edson	DIVISION No. 13—BEAVER RIVER Rutal	DIVISION No. 14—STURGEON Rural	DIVISION No. 15—CLEARWATER Rural	Bural Rural Urban Town of Grande Prairie	DIVISION No. 17—ATHABASCA Rurai
No. 12- of Ec	No. 13	No. 14	No. 15	No. 16 of Gr	No. 17
Rural Urban Town	SION	SION	SION	Rural Urban Town	Rurai
OIVE Ru Ur	DIVE	DIVE	DIVI	DIVE	DIVE

TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE FOR THE PROVINCE AND IN CITIES OF 5,000 POPULATON AND OVER, 1933

	Tota	al Bir	ths	Le	gitima	te	Ille	gitima	ite
Province and Cities	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	16123	8321	7802	15500	7980	7520	623	341	282
Cities:		- (							
Calgary	1624	831	793	1526	785	741	98	46	52
Edmonton	2085	1027	1058	1837	895	942	248	132	116
Lethbridge	517	271	246	511	268	243	6	3	3
Medicine Hat		169	151	315	165	150	5	4	1

TABLE 4.—PLURAL BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDREN BORN ALIVE AND STILLBORN BY SEX, IN THE PROVINCE OF ALBERTA, 1933

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 male stillborn and one female living One female living and one female stillborn Two males (both stillborn) One male and one female (both stillborn) Two females (both stillborn)	202 69 58 54 6 3 3 3 2 1
CASES OF TRIPLETS Two males and one female (all living) Three females (all living)	3 1 2
Total multiple confinements Number Male Female	205 221 192
Total single living births Number Male Female	15737 8114 7623
Total single stillbirths	420 245 175
Total confinements	16362

TABLE 5.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO BIRTHP LACE OF PARENTS, 1933.

11		Not Specified		111111	111	4-1111
		Various	0	10.00.01.00.00.01	10-14	000000000000000000000000000000000000000
		United States	813 10 333 177 258 833 846 2777 2711	245 148 122 188 1	231114	202 202 77 77
	8	Other			111	
	Asia	ueder		111111	111	H
		China	00 010 100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111	120-1-1-4-4
		Sweden	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 00 01	111	2 2 2
		Russia	S	16338	111	88 8111112
		Roumania	13 2 113	111111	III	209
		Poland	123 4 57 1	000	111	177 17 188 188 188 188 188 188 188 188 1
		Norway	27 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 1 1 2 1	44	111	921
	0	Italy	1 1 1 1 1 1 1 2	0000	111	4
	Europe	Hungary	2 1 1 1 3	HILLI		148
	Eu	puelloH	81     11	NH   H	THE	262
1		Germany	21 124-112	13121		142
5.		France	1 1 1 2 1 1 2	8911	III	3 2
Mother		Finland	2			11 1 6 1 1 1
DOC TO		Denmark	ro	60 10	111	103
Birthplace of		Belgium	E H H H	0001 11	HII	118 118 118
lace		Austria	26 18 18 1	97 6		259 218 118
rthp	Posses-	Other	o  -	99	63 63	THIFT
Bi	British	Newf'ndland		400	44	2 1 1 1 1 1
	90	Other		000		
	Isle	Wales	H 100 00	25-13 25	mail =	7 1 1 1 7 1 1 1
	British Isles	Scotland	158	307 99 27 174	201-	22 31 23
	Brit	Ireland	42 24 11 43	109	01 01	10
		England	307 17 17 110 28 21 28 21 93 10	587 450 31 89 17	9011-	12 2 2 2 9 9 9
		Prov. not specified	-		111	
1		British Columbia	3371022 5 86	256 623		81 111
		Alberta	2550 33 33 24 103 313 313 114 827 427	457 270 53 108 1	13.25	25 10 10 10 14 14 14 18
		Saskatch-	248 248 21 21 21 21 21 21 21 21 21 21 21 21 21	27 27 1, 5 1, 5 1, 5 1, 5 1, 5 1, 5 1, 5 1, 5	10-4	20-1000000
	ida	Manitoba	257 248 7 15 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	23.3874	01 01	E4 0100
	Canada	Ontario	469 20 272 272 37 176 13	28 85 2 4 15 3 8 4 4 85 3 8 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	65-161	\$-000 4n
		биерес	273 169 141 141 133 388 1	4004	111	9
		New Brunswick	51.650.00	P-63-H63-4	111	4
		Nova Scotia	112 22 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	133	111	מחח
		P.E. Island	12 2 2 2 1	1000-1-1	111	2
		IstoT	5652 43 167 167 1299 432 275 2770 108	2244 1280 256 594 107	113	4776 419 40 27 241 241 98 161
		Birthplace of Father	CANADA Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskarchewan 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

Not Specified

Various

1054 3 2479 184782385 3 2441 United States 01 Other Asia 20 20 20 :82 ueder 12 100 12 China 109 274 22 1 3 10 10 227 765 107 272 Other 47 27 Sweden 16 13252821 91 Russia TABLE 5.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO BIRTHPLACE OF PARENTS, 1933—Continued 5327 60 119 10 Roumania 1025 49 13 294 1271 Poland 1351 26 134 Norway Italy 51 51 Europe 56 57 Hungary 751 75 Holland 00-2-00 40 206 Germany 22 201 40 France Birthplace of Mother 17 17 Finland 126 124 Denmark Belgium 333 33 303 BirtsuA suois Other 21 21 British Posses-11 Newf'ndland = 60 00 Other British Isles 1 2 83 803 Wales 01-103 59 553 18 Scotland 181 184 Ireland 2 22 4 1148 4000004 144 2 1126 England Prov. not specified 0010 40 68 341 848 482 509 4674 184 12 Columbia British 749 41 359 550 550 5033 11 106 106 106 38 Alberta newe 23244688 13 Saskatch-Canada 91 19 Manitoba 31 Ontario 69 346 8 Quebec Brunswick 12 WeW 18 121 3 Nova Scotia 29 23 P.E. Island 76 234 1404 376 350 350 2702 15500 00 22 22 23 623 Total mothers
Children born to unmarried
mothers
Children born to all mothers Birthplace of Father Children born to married United States Various Not specified Italy Norway Poland Roumania Russia Sweden Other ASIA China Japan Other

		ANNUAL REPORT, 1933 21
11	Not stated	
	50 & over	
-	49	
	8	
	17	
	46	н н 4 2 н
	10	# NO
	44	
	53	645699366993669
62	63	0889
1933	41	1 11111004000400000000000000
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	18	10000000000000000000000000000000000000
70	46	1123823333308881
9000		
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RD	32	122242334243344344444444444444444444444
8 3	31 MC	1122233344534888888881112221112223344534534888888888888888888888888888
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CLASSIFIED	29 Z9	322137133333333333333333333333333333333
SII	288	1 22 22 25 25 25 25 25 25 25 25 25 25 25
AS	22	111282222222222222222222222222222222222
b	26	28 221212188212121212121212121
6		
E	13	2 2222222222222222222222222222222222222
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F	53	201121111111111111111111111111111111111
STILLBIRTHS	61	::: HHW 0 0 0 0 0 0 0 0 0 1 4 4 10 0 1 1 1 1 1
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OF	21	1 2212121212121212121212121212121212121
SI	20	10322246934598845989456945694949494949494949494949494949494
3	19	2 1182284374543747474747474747474747474747474747
(EXCLUSIVE	90	492222222222222222222222222222222222222
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IS IS	16	
BIRTHS		
BI	125	
	14	
9	133	
TABLE	12	
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	Total	Little de la Company of the Company
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	of er	years
	Age of Father	
	KH.	Page 11
		, see a see
1		7212848128282882888288888888884444444444
		ii)

TABLE 6.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO AGES OF PARENTS, 1933—Continued

		VITAL STATISTI	CS BRANCE
	Not stated	] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	50 & over		60 60
	49		60 60
	48	44	10
	47		13 13
	46	HH H H H H H H	12 12
1	45	421 1	5 5
-			
	4		20 20
	43	101011111111111111111111111111111111111	102
	45	2012240	175 4 179
1	4	ныныны	3 3 1 1 57 1
- 1	- 6	45- 8- 88	FT
			26 26
	39	4444   44	274
	88	10 6161 HH H	315
1	37	214 H21 HH	378 380 380 3
1	98	800	10 or 01
-		1 11 1111	4 4
	18	- 1-1-4 1- 11-1-1-1-1-1-1-1-1-1-1-1-1-1-	8 8 447
-	45	000 H H 01 HH	8 8 482
ER	83	MH HMM H MHM	10 10 563
MOTHER	322	0 00111 0	609
9			7 61
	31	11 111111111	90 90
OF	30	HH00 HH   H   00 H	784
AGE	23	888	9 764
A	88	ноонн	15 15 888 7
-	27		00 t- 10
-			17 17 905
	26	201111111111111111111111111111111111111	23 23 985
	55	2	972 20 992
1	24		30 30 018 9
-			-
	53	-         -   -	945 29 974
-	55		926 54 980
	21		824 44 868
	20	-1111111111111111	581 66 747
	19	2 1 1 1 1 2	86
-	18		72 72 776 5
-			4.4 8.5
	17		127 34 161
	16	1111111111111	53 23
-	12	111111111111111	19
-	14		60 60
-			
	13		-
	12		
		64 117 117 119 119 119 119 119 119 119 119	8 23 23
	Total	GINNNARA : H	15500 623 16123
	Age of Father	53 ". 554 555 556 557 558 60 6	Children born to married mothers Children born to un- married mothers Children born to all mothers
		Nooooooooooooooooooooooooooooooooooooo	000

Not specified

	i	Other	811
		Ukrainian	010011111111111111111111111111111111111
		Syrian	
		ssiwS	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Swedish	32745 1 1 2 1 1 2 2 2 4 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2
1933		Serb and Croat	200 H H H H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-		Russian	100000 01 01 11 10 100000
NTS		Roumanian	1 10 10 10 11 11 11 11 11 11 11 11 11 11
PARENTS,		Polish	0000 1- 14 1- 1-20 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OF P		Norwegian	25.50 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Negro	7
ORIGIN		Medro	· · · · · · · · · · · · · · · · · · ·
		Jewish	
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RAC	Mother	neileti	4
TO F	Mot	neibnI	0
	Jo	Icelandic	9877
ACCORDING	gin	Hungarlan	214   1   4   1   53   1   1   1   4   1
RD	Origin	npuiH	
000		Greek	
	Racial	German	202 1138 1138 1138 114 114 114 114 114 114 114 114 114 11
CLASSIFIED		Finnish	482588
SIF		Dutch	23 23 23 23 24 2 24 2 24 2 24 2 24 2 2 2 2
LAS		Danish	33 113 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10000		Czech and	44044   4   60   7   60   140   140   160
THS		Chinese	
STILLBIRTHS		Bulgarian	
E		Belgian	Pana 23 23 81 24 1
STI		Austrian	12 2 13 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OF		Armenian	
		French	25 59 59 59 59 59 59 59 59 59 59 59 59 59
SIV		Welsh	2222233
LUS			6220 6220 7220 73223 7323 7
(EXCLUSIVE		Scottish	303 2260 2260 221 221 244 244 44 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
		Irish	533
RTH		English	2561 2563 270 270 270 270 270 270 270 270 270 270
E 7.—BIRTHS		IstoT	3042 1417 1836 1838 890 890 174 277 281 281 281 172 281 281 281 688 609 610 610 610 610 610 610 610 610 610 610
TABLE		H	
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		Racial Origin of Father	English Irish Scottish Scottish Welsh French Armenlan Austrian Belgian Belgian Gerch and Slovak Danish Danish Chinese Cizech and Slovak Hindu German German German Greek Hindu Hungarian Italian Italian Italian Italian Italian Italian Serb and Croat Swedish Swiss Syrian Other
		ri	English Irish Scottish Welsh Welsh French Austrian Bulgarian Chinese Czech and Slov Danish Dutch Frinnish Gereman Greek Hindu Hungarian Italian Japanese Japanese Japanese Japanese Jewish Norwegian Polish Rewish Nervo Norwegian Serb and Croat Swedish Swiss Swiss Swiss Swiss Swiss Swiss

TABLE 7.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO RACIAL ORIGIN OF PARENTS, 1933—Continued

		ATI	IAL SI	ATISTIC
	Not specified	0.410	111	0.410
	Other	233		2222
	Ukrainian	769 908 861	46 89	858 954 904
	Syrian	2 2	111	2 2
	ssiws	222	01-1-1	2222
	Swedish	1852	73 11 42	121
	Serb and Croat	F.55		35.25
	Russian	318	049	328 174 154
	Roumanian	113	24-1-	115 61 54
	Polish	617 316 301	118	635 327 308
	Norwegian	528 261 267	111	252 272 280
	Negro	16	2111	18
	Jewish	1388	111	1388
	asaueder	2113	111	111 110
ier	neileti	1288	111	35
Racial Origin of Mother	nsibnI	659 354 305	111 65 46	770
of 1	Icelandic	117	111	111
gin	Hungarian	179 92 87	400-	183 88 88
Orig	npuiH	1	111	
ial	Greek	0044		0.470
Rac	German	2330 1216 1114	36	2390 1252 1138
	Finnish	33 82		23 653
	Drtch	259 131 128	111	270 137 133
	Danish	242 120 122	840	248 124 124
	Czech and	155		156
	Chinese	150	61 61	12.00
	Bulgarian	400	111	400
	Belgian	25.25	( )	31 25
	Austrian	205 119 86	1-1001	212 124 88
	Armenian	111	111	111
	Erench	927 470 457	13 15 28	955 485 470
	Welsh	1733 143 9 875 78 4 858 65 4	10 4	916 79 881 69
	Scottish		23458	1797 916 881
	Irish	1295 671 624	324	1351 695 656
	English	3151 1599 1552	112 63 49	3263 1662 1601
	Total	15500 7980 7520	623 341 282	16123 8321 7802
	Racial Origin of Father	Children born to married Mothers Total Male Female	Children born to unmarried mothers Total Male Female	Children born to all nothers Total 16 Male 7
		Ö	S S	5

OF TABLE 8.—TOTAL BIRTHS (EXCLUSIVE OF STILLBIRTHS) AND BIRTHS IN INSTITUTIONS, SHOWING THE NUMBER MOTHERS NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1933

	All 1	All Births	In Ins	In Institutions
	Total	Births to Mothers non-resident in Province	Total	Births to Mothers non-resident in Province
Total for the Province	16,123	115	7,605	91

5,000 OF CITIES Z TABLE 9.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) TO RESIDENT AND NON-RESIDENT MOTHERS AND BIRTHS IN INSTITUTIONS. POPULATION AND OVER IN THE PROVINCE OF ALBERTA. 1933

	titutions	ers non- n city or ere blith d and	Non-resi- dent in Province	<b>пнн</b> п
	Births elsewhere than in Institutions	To mothers non- resident in city or town where birth occurred and	Resident In Province	28 42 10 15
	elsewhere t	To	mothers	249 158 49 36
	Births	Total		280 201 60 54
-		ers non- n city or ere birth	Non-resi- dent in Province	10 35 1
The second secon	Births in Institutions	To mothers non- resident in city or town where birth occurred and	Resident in Province	285 654 260 160
1000000	Births in	To	mothers	1049 1195 196 92
-		Total		1344 1884 457 266
		To mothers non- resident in city or town where birth occurred and	Non-resi- dent in Province	36 36 17
	All Births	To moth resident i town wh occurre	Resident in Province	313 696 270 175
TOTAL CHARLES	All	To	mothers	1298 1353 245 128
		Total		1624 2085 517 320
		Cities		Calgary Edmonton Lethbridge Medicine Hat

		betated	8 4000
EN),		45 years	81-898488009888818811
CHILDREN)		siest \$\$-0\$	816 286 622 886 886 886 886 886 111 122 123 131 144 145 145 146 147 147 147 147 147 147 147 147 147 147
100		32-39 Aests	1914 888 1149 1228 1228 1238 1238 1238 1238 1238 1238
STILLBORN		30-34 years	3097 2697 2697 4855 4855 500 300 300 300 300 300 300 500 6
100		25-29 years	4537 854 1149 1019 100 100 151 15 15 15 15 15 15 15 15 15 15 15 15
DING	Mother	20-24 years	44448 1874 1491 729 241 91 16 4 4
(INCLUDING	of	15-19 years	1000 760 216 24
1933 (II	Age	19 years	122233333333333333333333333333333333333
Z		18 years	2552 2553 6 6
THER		17 years	132 133 133 133 133 133 133 133 133 133
AGE OF MOTHER		16 years	¥81
ILDRI		15 years	
		Under 15 yrs.	
LEGITIMATE		Total	15920 3862 3495 2547 1741 1741 1741 1741 1741 1741 1741 1
TABLE 10.—ORDER OF BIRTH OF I		Order of Birth of Children	Total  1st child 2nd 3rd 4th 5th 6th 7th 11th 11th 11th 11sth 13th 14th 15th 18th 19th 19th 19th 18th 19th 18th 19th 18th 19th 18th 19th 18th 18th 19th 18th 18th 18th 18th 18th 18th 18th 18

TABLE 11.—INFANTILE DEATH RATES, ETC., BY DIVISIONS, 1933

	Death rate of one year of 1,000		children under age to each births	Births with physician i	Sirths with or without a	thout a	Rate of to ea	of stillbirths each 1,000 births
Divisions and Cities	Rate per 1000 births	Number of deaths	Total	With	With Without physician	Not	Number of stillbirths	Rate per 1.000 births
Division No. 1—Medicine Hat (City of Medicine Hat excepted)  Division No. 2—Macleod (City of Lethbridge excepted)  Division No. 3—Bow Division No. 4—Nanton Division No. 5—Acadia Division No. 7—Battle River Division No. 1—Edunonton (City of Edmonton excepted) Division No. 11—Edmonton (City of Edmonton excepted) Division No. 13—Beaver River Division No. 13—Beaver River Division No. 13—Beaver River Division No. 14—Sturgeon Division No. 15—Clearwater City of Edmonton City of Edmonton City of Medicine Hat City of Medicine Hat City of Medicine Hat City of Medicine Hat City of Netaskiwin City of Drumheller Divisions City of Prumheller D	21100 4 20 20 20 20 20 20 20 20 20 20 20 20 20	227 227 227 227 227 227 227 227 227 227	276 824 278 364 364 364 364 364 1037 1037 1037 1152 2085 1624 211 2085 1109 1109 1109 1109 1118 2085 1103 1103 1103 1103 1103 1103 1103 110	168 644 205 328 219 573 676 676 826 282 488 143 353 464 1604 504 304 303 1177 259 6839 485 1177 2177 2177 2177 2177 2177 2177 217	107 180 180 106 106 107 107 108 109 109 109 109 109 109 109 109 109 109	-       -	112 201 201 208 208 208 204 477 447	7,082 20,

TABLE 12.—DEATHS OF CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE

MONTH OF DEATH STATES OF S	MONTH OF DEATH STRUCK N. F. M.	M. F.	Month OF Death   March OF Death   Marc	MONTH OF DEATH, STATE DOUGHS IN FIRST YEAR OF LIFE BY SEX AND MARTH OF DEATH, STATE DOUGHS IN FIRST YEAR OF LIFE BY SEX AND MONTH OF DEATH, STATE DOUGHS IN FIRST YEAR OF LIFE BY SEX AND MONTH OF DEATH, STATE DOUGHS IN FIRST YEAR OF LIFE BY SEX AND MONTH OF DEATH OF DEATH STATE DOUGHS IN FIRST YEAR OF LIFE BY SEX AND MONTH OF DEATH OF
MONTH OF DEATH, 1933	OF DEATH, SPECIFED CAUSES IN FIRST YEAR OF DEATH, 1933 And 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MONTH OF DEATH   May	P. Canary OF Can	MONTH OF DEATH, 1922, 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MONTH OF DEATH STATES OF S	DEATH STOCKES IN FIRST YEAR MONTH OF DEATH APPROACH APPROACH S 3 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PEATH, 1933 TO CAUSES IN FIRST YEAR OF LIFE OF	MONTH OF DEATH, 1923 IN March  2	DEATH, SPECIAL DATE, No. 1 1 2 2 1 1 2 2 2 2 3 3 2 2 3 3 4 4 5 5 2 4 5 3 4 5 5 2 4 5 3 5 2 4 5 5 2 4 5 3 5 2 4 5 5 5 2 4 5 5 5 2 4 5 5 5 2 4 5 5 5 2 4 5 5 5 5
MONTH OF DE MONTH	MONTH OF DEATH  MONTH OF DEATH  MANY  MANY	MONTH OF DEATH  MONTH OF DEATH  MARY  M. F. M. F	MONTH OF DEATH  MONTH OF DEATH  MONTH OF DEATH  MANY	MONTH OF DEATH  MONTH OF DEATH  MONTH OF DEATH  MANY
MONTH OF DE MANY MANY MANY MANY MANY MANY MANY MANY	MONTH OF DEATH  MONTH OF DEATH  MONTH OF DEATH  MANY	MONTH OF DEATH  MONTH OF DEATH  MONTH OF DEATH  MANY	MONTH OF MAN  MONTH OF DEATH  MONTH OF DEATH  MONTH OF DEATH  MAN  MAN  MAN  MAN  MAN  MAN  MAN  MA	MONTH OF DEATH  MAN F. M. F. M. F. M. June  MONTH OF DEATH  MONTH OF DEATH  MAN F. M. F. M. June  MONTH OF DEATH  MONTH OF DEATH  MAN F. M. F. M. June  MAN August  MAN
NTH OF June 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UN FIRST YEAR  1 1 1 1 1 2 2 2 2 3 1 1 1 1 1 1 2 2 2 3 1 1 1 1	UTH OF DEATH  S 3 40 24 25 34 2 25 34 2 3 34 2 3 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 3 4 3 3 3 4 3	UTH OF DEATH  S 3 4 40 24 29 34 27 P. M. F. M. September  S 1 1 1 1 1 2 2 34 27 P. M. September  S 2 1 1 1 1 1 1 1 2 2 34 27 P. M. September  S 3 1 1 1 1 1 1 1 1 2 2 34 27 P. M. September  S 3 1 1 1 1 1 1 1 1 1 2 2 34 27 P. M. September  S 4 3 1 1 1 1 1 1 1 2 2 34 27 P. M. September  S 5 1 1 1 1 1 1 1 1 2 5	1
	YEAR ATH Tall 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ATH ATH ATH OF LIFE S 34 F September S 34 F F September S 34 F F F S September S 34 F F F F F S S S S S S S S S S S S S S	ATH ATH OF LIFE BY September 2	ATH Age of Life By SEX And August August September Sex And S
	isnany isnany	S September	September	September   Sept
N. September  S. S. S. September  S. S. S. September  S. S	S S S S S S S S S S S S S S S S S S S	X 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

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0 100004400 0
12 12 14333 6
8 8 HONDAH 010
8 H8888884H 888
1223331114622
88 338 112 20 440 88 112 112 112 112 112 112 112 112 112
74 331 6449 112 2449 15499
F 66440000 :-014
THILIGHT
drocephalus Iformations of the heart nder this title y uliar to early infancy (under 3 months) iseases uses uses uses uses defined causes
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Malformations  (a) Congenital hydrocephalus (b) Congenital malformations of the heart (b) d. e) Others under this title (c) Congenital debility Premature birth Injury at birth Other diseases peculiar to early infancy (under 3 months) (a-e) Specified diseases (f) Unspecified causes (no doctor in attendance) (f) Unspecified causes Other external causes Other specified or ill-defined causes Unspecified or ill-defined causes
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200

SEX BY LIFE, OF FIRST YEAR CAUSES IN SPECIFIED STILLBIRTHS) FROM CERTAIN AND AGE AT DEATH, 1933 OF (EXCLUSIVE CHILDREN O E -DEATHS 133 TABLE

11 months and under 12 mos. 21 H : M 52 H 10 months and under 11 mos. Ξ 01 M 6 0101 9 months and under 10 mos. 01 10 0101 M som 9 nabnu bns antnom 8 00 60 64 M 7 months and under 8 mos. 13 200 00 H (E) 6 M 100 sour ! Japun 19 M. 00 pue sutuom 9 13 -.00 03 som 6 nabnu pue squou g M 16 29 10 100 DEATH 4 months and under 5 mos. M. 29 04 0100 3 months and under 4 mos. 53 M 5 64 AT 33 NO. 03 97 under 3 mos AGE 2 months and M. 38 00 00 m 60 46 101 35 60 HIGH 101 OI .som 2 nabnu I month and N 21 NO. M HHOT 1-10 01 nuder I month 3 weeks and NO M 29 10 16 E. 2 weeks and under 3 weeks 20 M 53 E 1 week and 45 0.0 M 739 6 E under I week pue Kep I 001 Z. 822 NO 1 Under I day 20 Ħ STANN 10 m @ 2232 573 393 511 1712 45645 Female Total under 2555112765 5 1922 0000--0 Male 482 7-1- 21810 1-021-178 8-1484 Total system the buccal cavity and annexa and of and tonsils (including adenoid vegetations) the stomach nervous polioencephalitis (acute) central process respiratory system meninges and centr forms CAUSES OF DEATH meningitis Measles
Scarlet fever
Whooping-cough
Diphtheria
Influenza
Dysentery
Erystpelas
Epidemic cerebrospinal meningit
Tuberculosis of the respiratory sy
Tuberculosis of the meninges and
Tuberculosis, other forms
Syphilis
Purulent infection, septicaemia
Diseases of the thymus gland
Simple meningitis
Convulsions
Diseases of the buccal cavity
pharynx and tonsils including
Diseases of the stomach
Diseases of the stomach mastoid CAUSES 1118 1122 130 157 108

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(a) Congenital hydrocephalus of the heart 31 15 (b. d. e) Others under this title 49 37 23 Congenital debility 49 38 249 138 115 115 29 20 20 20 20 20 20 20 20 20 20 20 20 20
(a) Congenital hydrocephalus of the heart 31 15 (b. d. e) Others under this title 49 37 23 Congenital debility 49 38 249 138 115 115 29 20 20 20 20 20 20 20 20 20 20 20 20 20
(a) Congenital hydrocephalus of the heart 31 15 (b. d. e) Others under this title 49 37 23 Congenital debility 49 38 249 138 115 115 29 20 20 20 20 20 20 20 20 20 20 20 20 20
(a) Congenital hydrocephalus of the heart (b, d, e) Others under this title (b, d, e) Others under this title (b, d, e) Others under this title (congenital debility (congenital diseases (congenital debility (congenital debility))))

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 POPILIATION AND OVER IN THE PROVINCE OF AT BEFTA 1933

All Deaths under one year and the resident in the city or trown where the number one year and the city or trown where the careful or	4			VITAL STATE				
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All Deaths under one year  All Deaths under one		п	asident as a since		Male			
All Deaths under one year  All Deaths under one			ity ity					
All Deaths under one year  All Deaths under one			n-1 wn lead	Province	THE RESERVE OF THE PERSON NAMED IN COLUMN			
All Deaths under one year to a state of the province of the pr	_	e	Sapo	Resident in	-	-		
All Deaths under one year to a state of the province of the pr	93	her				F-03-0		
All Deaths under one year to a state of the province of the pr	3	titu		Residents		61-10-		
All Deaths under one year to a state of the province of the pr	TA	els			LetoT	2029		
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All Deaths under one year All Deaths under one year Deaths under one year In City or town where death where In Deaths in Institutions Male Female Femal	-	eat	Total		oreste	65-10-1		
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All Deaths under one year line of town of the control of the contr	130	S						
All Deaths under one year line of town of the control of the contr	E	ath						
All Deaths under one year Non-resident in city or rotal Remale Resident in Province one year Total Remale Resident in Province one year Total Total Total Nale or Total	0	De				2200		
All Deaths under one year and Total Male Male Male Male Male Male Male Ma	0			Total	aleM			
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Cittes  Cittes  Cittes  All Death  All Death	5	o		Resident in Province	Male			
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Cities Cities Total Total Tage Total	5	ath				833833		
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lat lat	- 11				Total	111 81 118		
l and	ACCORDING TO RESIDENCE OF DECEDENTS, IN					lat.		
						MEEG		

TABLE 15.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, OF CHILDREN UNDER ONE YEAR OF AGE, SHOWING THE NUMBER NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1933

Total Male Female Total Male F			All D	All Deaths under one year	der one	year				In Institutions	itutions		
	The second secon		Total		Non-res	ident in I	Province		Total		Non-res	ident in	Provin
		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Fems

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS) BY MUNICIPALITIES (EXCLUDING CITIES), 1933—TRANSFERRED TO REGULAR RESIDENCE

DIVISION No. 1-MEDICINE HAT

Ajolent Desths (snicides		=	57
Puerperal State		53	10
Nephritis (acute and chronic)	111111111111111111111111111111111111111	63	10
Appendicitis		60	16
Diarrhoea and Enteritis (over 2 years of age)			111
Distriboes and Enteritis		4	21
Pneumonia (all forms)		10	26
Diseases of the Arterles	111111111111111111111111111111111111111	9	31
Heart Diseases (all forms)	1	25	129
Apoplexy. Cerebral Haemorrhage & Thrombosis		9	31
Pernicious Anaemia		1	10
Diabetes			10
Cancer (all forms)	111111111111111111111111111111111111111	10	52
Tuberculosis (other forms)	111111111111111111111111111111111111111	2	10
Pulmonary Tuberculosis	411111111111111111111111111111111111111	2	10
Meningococcic Meningitis			
Acute Poliomyelitis			
pzuantju	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	=	57
Diphtheria		1	
Whooping Cough		1	1000
Scarlet Fever		111	
Measies			-
Typhoid and Paratyphoid			
Number of Stillbirths		7	-
Infant Mortality Rate (per 1,000 births)	24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	61.5	
Number of Deaths (under I year)	H HW W H WWHW 4400H	58	
Death Rate per 1,000 Population	186400 2500 -1880 -88400	7.0	
Number of Deaths	111100 818 10001 8864601	136	tion
Population	222 232 232 232 232 232 232 232 232 232	23.6	opula
Birth Rate per 1,000	42 822 525 1 95 1 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8	455	00 P
Number of Births	28:22:28:22:28:22:28:23:28:2		100.0
Population, 1933	93 129 1151 1141 1163 11083 823 310 1181 1181 354 1144 957 893 1144 1449 1449 1449	19319	Death Rate per 100,000 Population
			Rate
Municipality No.		fal	ath 1
		Total	De

LITIES (EXCLUDING	
BY MUNICIPALITIES	
BY	
INDIANS	stimined
(EXCLUDING	TOTAL PROPERTY
DEATH	AD DEC
AUSES OF	TI DECITE
ND SELECTED CAUSES OF DEATH (EXCLUDING	COCCODED DED
AND S	4000
RATES	A LOCALINA
DEATHS.	MAN CANA
BIRTHS.	
16.—POPULATION.	
TABLE	

DIVISION No. 2 MACLEOD

	Violent Deaths (suicide		18	7
-	Puerperal State		10	11
-	chronic)	HH H HN H HN	10	23
-	Appendicitis Nephritis (acute and	111111111111111111111111111111111111111	63	10
-	(over 2 years of age)	THEFT	1	
	Under 2 years of age)		65	1-
-	Preumonia (all forms)	HHHMHH MHM 40	18	41
-	Diseases of the Arteries	NHH H H N	00	18
		H4HH00 400000	42	96
	Haemorrhage & Thrombe Heart Diseases (all form	H HHN HNN 10	13	30
-	Apoplexy, Cerebral		_	6.5
_	Pernicious Anaernia		. 9	14
-	Diabetes		10	92 1
	Cancer (all forms)		4 4	-6
(su	Tuberculosis (other form		4	6
1	Pulmonary Tuberculosis		2	
st	Meningococcic Meningit			10
st	Acute Poliomyelitis	117 111111111111111	-	62
	ezuənıjuı		9	14
	Diphtheria	111111111111111111111111111111111111111	-	62
	Whooping Cough		1000	-
_	Scarlet Fever		-	63
	Measles		-	-23
pi	Typhoid and Paratypho		23	10
	Number of Stillbirths	6 66 6 6 6 6	19	-
	Infant Mortality Rate (per 1,000 births)	657 105 105 105 105 105 105 105 105 105 105	61.2	
-	(under I year)	00	55	- Tomas
-	Death Rate per 1,000 Population	8499410886190	6.5	- Committee
-	Number of Deaths	8 9 8 9 4 1 2 2 4 4 5 2 1 1 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	282	ion
-	Population	22222222222222222222222222222222222222	20.6	pulat
-	Number of Births Birth Rate per 1.000	78883887 121111111111111111111111111111111111	898 2	00 Po
-	Population, 1933	382 3454 1382 1382 1382 1382 1581 1382 1581 1711 1711 1711 1815 193	43572 8	r 100.0
	Municipality No.	7.0 8.3 3.3 1.0 6.6 6.6 6.6 6.6 6.6 6.6 6.6 7.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Total 4	Death Rate per 100,000 Population

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N RI	принини			INT	TOMBULLION		7
3-BOW RIVER		1-	45	4-NANTON	N	60	10
No. 3			100	No.		-	60
	пининириин		-	1000		Total .	
DIVISION				DIVISION		Total Control	
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	20 23 23 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	317	000 F		944 988 944 944 944 944 944 944 944 944	484	000 E
	808 457 295 305 307 307 111 1125 1125 1125 1125 1125 1125 1125	15619	Rate per 100.000 Population		2351 2413 1246 1519 2560 396 396 2640 2885 164 164 4367 4367 4367 4367 8	29764	er 100.
			ite pi			**	te p
		Total	Death Ra			Total	Death Rate per 100,000 Population
	286 288 288 288 288 288 288 288 288 288				158 158 158 158 158 158 158 158 158 158		-

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS) BY MUNICIPALITIES (EXCLUDING CITIES), 1933—TRANSFERRED TO REGULAR RESIDENCE—Continued

DIVISION No. 5-ACADIA

Violent Deaths (suicides		69
Puerperal State		2 =
Mephritis (acute and		26
Appendicitis		26
Distriboes and Enteritis (over 2 years of age)		4
Diarrhoes and Enteritis (under 2 years of age)		2 -
Pneumonia (all forms)		0 00
Diseases of the Arteries	111111111111111111111111111111111111111	26
Heart Diseases (all forms)		16
Apoplexy, Cerebral Haemorrhage & Thrombosis	1-12	2 =
Pernicious Anaemia		-
Diabetes		1
Cancer (all forms)	4	17
Tuberculosis (other forms)		1111
Pulmonary Tuberculosis		4 5
Meningococcic Meningitis		
Acute Poliomyelitis		7
Influenza	- 1110 11111111111111111111111111111111	1 10
Diphtheria		1
Whooping Cough	THE PROPERTY OF THE PARTY OF TH	1
Scarlet Fever		111
Measies		
Typhoid and Paratyphoid		4
Number of Stillbirths	[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	00
Infant Mortality Rate (per 1,000 births)	25 25 25 25 25 25 25 25 25 25 25 25 25 2	34.8
Number of Deaths (under I year)		15
Death Rate per 1,000 Population	upresultanana4 unuatea	2.0
Number of Deaths	01-4000-0100000 40001509	Hon Hon
Birth Rate per 1,000 Fopulation	1220 9 0 8 4 6 2 8 2 2 2 4 1 1 2 2 4 1 2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Total   27429 433 15.8 137 Death Rate ner 100 000 Population
Number of Births		433
Population, 1933		100.0
Population Total	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ner 10
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Municipality No.		al ath
		Total
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		-	th B		
		Total	Death		
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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS) BY MUNICIPALITIES	(EXCLIDING	District Control
V. BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS).	- 75	
V. BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS).	BY	
V. BIRTHS, DEATHS, RATES AN	DING INDIANS)	Continued
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V. BIRTHS, DEATHS, RATES AN	SELECTED	PANSFERE
N. BIRTHS, DEATHS,	AND	022 7
N. BIRTHS, DEATHS	RATES	TIES) 1
.;	DEATH	10
TABLE 16.—POPULATION	, BIRTHS	
TABLE	16.—POPULATION	
	TABLE	

DIVISION No. 7-BATTLE RIVER-Continued

Violent Deaths (suicides and homicides excepted)		23	200	1	
Puerperal State	HH	4	10	163	1111717171111
Mephritis (acute and	00 0HH	14	33		1 2 1 1 1 9 1
Appendicitis		10	13		
Distributes and Enteritis (over 2 years of age)		-	00		
Diarrhoea and Enteritis (under 2 years of age)	THITITIT	64	10		
Pneumonia (all forms)	04	10	252		2
Diseases of the Arteries	01 01 01	12	30		H-1004-1- 0-04
Heart Diseases (all forms)		31	79	13	01000000000000000000000000000000000000
Apoplexy. Cerebral Haemorrhage & Thrombosis		1	18		
Pernicious Anaemia	1111111111	10	13		
Diabetes	H	4	10		
Cancer (all forms)	40140 10	27	68		
Tuberculosis (other forms)	1111111	4	10		14171111171
Pulmonary Tuberculosis		9	15		0 1 1111
Meningococcic Meningitis		0.000		DEER	
Acute Poliomyelitis		000			
Influenza	lane   la	21	553	8-RED	1 1 1 2 2 2 3
Diphtheria		-		No. 8	
Whooping Cough		63	00	100000	
Scarlet Fever		-	63	DIVISION	
Measles	THE PERSON NAMED IN COLUMN	1000	1	IG	
Typhoid and Paratyphoid		The same	100		
Number of Stillbirths		30	-		u     4 ч ш 4 т ш ш и
Infant Mortality Rate (per 1,000 births)	36 32 36 36 37 36 37 37 37 37 37 37 37 37 37 37 37 37 37	39.4			88 112 12 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Number of Deaths (under I year)		30	-		H0HH1040H00010
Death Rate per 1,000 Population	11 10 10 10 11 11 11 11 11 11 11 11 11 1	6.4			200001100001
Number of Deaths	171 172 16 15 10 10 10 10	251	tion		284181811481
Birth Rate per 1,006 Population	22182218 22182218	19.1	opuls		282212212222
Number of Births	888444888	762	000 F		828288228
Population, 1933	1804 2612 1729 1729 1272 2513 2733	39449	er 100,		1756 1540 2800 2455 3475 3772 3772 3772 3772 3772 3772 3772 37
Municipality No.		Total	Death Rate per 100,000 Population		
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MM MMH	18	31		37 9 11 11 12 11 11 11 19 12	TIIII
เขอเกา	39	68		2 13 2 1 1 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3	
F 10.0 10	62	108		24   21   22   11   17   10	
THILL	101	17		111111111111111111111111111111111111111	FIL
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(EXCLUDING DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS) BY MUNICIPALITIES CITIES), 1933—TRANSFERRED TO REGULAR RESIDENCE—Continued BIRTHS, -POPULATION. 16. TABLE

10-VICTORIA-Continued

No.

DIVISION

Violent Deaths (suicides and homicides excepted) HHHO :HHO :HHO :HO 01:0101 61 31 1-11 Puerperal State 6 Mephritis (acute and chronic) 15 Appendicitis Distriboes and Enteritis (over 2 years of age) C1 Distriboea and Enteritis (under 2 years of age) Ξ 18 - 01 63 FG 00 21-1212 17 28 62 CH 63 FF Pneumonia (all forms) 0.3 10 00.00 13 21 Diseases of the Arteries 中できるる 53 87 Heart Diseases (all forms) Apoplexy. Cerebral Haemorrhage & Thrombosis 0.3 03 Pernicious Anaemia Diabetes 28 46 Cancer (all forms) 4 1 Tuberculosis (other forms) 10 H 00 HOHH 17 28 01114 Pulmonary Tuberculosis 11-EDMONTON Meningococcic Meningitis Acute Poliomyelitis 10 04 16 EzueullnI Diphtheria No 04 M1000101 Whooping Cough DIVISION Scarlet Fever est. Measles Typhoid and Paratyphoid 00004-0000000000 014460 40 Number of Stillbirths Infant Mortality Rate (per 1,000 births) 55.4 82 838 93 93 52 53 59 Number of Deaths (under I year) 10-401-04000 10 C 8 - 1 C 1 81 40000-1-0401-0991-1-5.5 12-10 cm-1 Death Rate per 1,000 Population 1132121321333 325345213213333 325345334 335 119 Population Number of Deaths 24.0 333 333 333 Birth Rate per 1,000 Population 52 69 46 69 130 130 130 130 130 1463 34 91 34 100,000 Number of Births 2854 2437 25040 25040 25040 3648 3721 34711 34711 44608 44608 3539 3912 5867 2742 962 60994 Population, 1933 per Rate Death Total Municipality No. 

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		Death Rate per 100,000 Population				Rate
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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS) BY MUNICIPALITIES (EXCLUDING CITIES), 1933—TRANSFERRED TO REGULAR RESIDENCE—Continued

-	Niolent Deaths (suicides		10 49
	Puerperal State		20 02
	chronic)		20 5
	Appendicitis		61 00
	Diarrhoea and Enteritis (over 2 years of age)		
	Diarrhoea and Enteritis		01 00
	Pneumonia (all forms)	10 10 0 11 10 11 11 11	12
	Diseases of the Arterles		9 24
	Heart Diseases (till forms)	FF   10	8 6
	Apoplexy, Cerebial Raemorrhage & Thrombosis		61 00
	Pernicious Anaemia		
	Diabetes		
	Cancer (all forms)		13
	Tuberculosis (other forms)		61 00
RIVER	Pulmonary Tuberculosis	HT   80 HT	30 00
	Meningococcic Meningitis		
-BEAVER	Acute Poliomyelitis		
-BEA	Linguenca	[4]	9
13-	Diphtheria		1
No.	Whooping Cough		61 0
DIVISION	Scarlet Fever		-
DIVE	Measles	***************************************	
	Typhoid and Paratyphoid		
	Number of Stillbirths	Man     1   M   Hu   4	19
	Infant Mortality Rate (per 1,000 births)	143 113 113 113 113 113 113 113 113 113	80.5
	Number of Deaths (under I year)	1012   1000 000 000 11   1   1   1   1   1	62
	Death Rate per 1,000 Population	rot- w   t-ru rummooonu   rum     w	6.7
	Number of Deaths	4248 8484844484 12 18	166
	Population	24 25 25 25 25 25 25 25 25 25 25 25 25 25	30.9
	Birth Rate per 1,000		770 3
	Number of Births		27 77
100	Population, 1933	765 1028 3795 2376 2699 2699 4289 7289 1192 1716 730 1337 2337 218	24886 770 30.9 166
	Lost Carnedonness		Total
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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS) BY MUNICIPALITIES (EXCLUDING CITIES), 1933—TRANSFERRED TO REGULAR RESIDENCE—Continued

DIVISION No. 15-CLEARWATER-Continued

Violent Deaths (suicides and homicides excepted)		30
Puerperal State		1 7
Mephritis (acute and		23 63
Appendicitis		
Diarrhoea and Enteritis (over 2 years of age)		
Diarrhoea and Enteritis (under 2 years of age)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30
Pneumonia (all forms)		15
Diseases of the Arteries		7
Heart Diseases (all forms)	-	6
Apoplexy, Cerebral Haemorrhage & Thrombosis		2 2
Pernicious Anaemia		
Diabetes		1 7
Cancer (all forms)		F2 85
Tuberculosis (other forms)		23
Pulmonary Tuberculosis		23 23
Meningococcic Meningitis		
Acute Poliomyelitis		1 7
pzuənjjuj		15 2
Diphtheria		1 2
Whooping Cough		
Scarlet Fever		
Measles		
Typhoid and Paratyphoid		
Number of Stillbirths		10
Infant Mortality Rate (per 1,000 births)	250 250 1111 214 63 40	53.9
Number of Deaths (under I year)	2 1 41 60	19
Death Rate per 1,000 Population	60-8 E 40014   0000000	4.9
Number of Deaths	144 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	flon thon
Population	111 116 116 117 118 118 118 118 118 118 118 118 118	26.5
Birth Rate per 1,000	222 112 123 124 144 145 153 164 175 175 175 175 175 175 175 175 175 175	352 2
Number of Births		1 3
Population, 1933	25 425 176 381 6615 5615 5615 57 44 473 4473 1637 1158 520 224 520 224 143 658 858 227 227 227 227 227 227 227 227 227 22	13301 per 10
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		Total 13301 352 26.5 65 Death Rate per 100.000 Population
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Remainder of Province, comprising northern parts (including Indians):

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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS) BY CITIES, 1933—TRANS-

Violent Deaths (suicides and homicides excepted)	26	33		30	36		-	23		6	99
Puerperal State	10	9		10	9		-	-		-	7
Nephritis (acute and chronic)	18	23		25	30		-	33		9	44
Appendicitis	14	18		- 9	7		60	100		- 65	22
Diarrhoea and Enteritis (over 2 years of age)	4	10		- 63	2		1	33		- 63	15
biarrhoes and Enteritis	7	6		9	7		-	33		4	29
Pneumonia (all forms)	24	30		28	33			1000		9	44
Diseases of the Arteries	40	50		62	74		63	67		9	41
Heart Diseases (all forms)	104	131		111	133		4	133		16	117
Apoplexy, Cerebral Haemorrhage & Thrombosis	14	18		13	16					1	7
Pernicious Anaemia	00	10		47	10		-	10.00		- 1	1000
Diabetes	11	14		6	11					65	22
Cancer (all forms)	81	102		86	103		6.1	67		18	131
Tuberculosis (other forms)	6	111		4	ro			-		-	
Pulmonary Tuberculosis	18	23		20	24		65	100		2	15
Meningococcic Meningitis		-		100	1000		100		1		100
Acute Poliomyelitis							Total Control	1			
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Diphtheria	-	1			1000		4	1000			
Whooping Cough	13	9		62	61		100	0.00			-
Scarlet Fever		-						Contract of the Contract of th		Total Control	-
Measles				-	-			-		100	-
Typhoid and Paratyphoid	1	1		-	Trees.			-			-
Number of Stillbirths	30			62			60			11	-
Infant Mortality Rate (per 1,000 births)	63.2	-		42.3	The same		38.1			63.6	***************************************
Number of Deaths (under I year)	84			26			4	2000		18	
Death Rate per 1,000 Population	7.5	-		7.2	-		9.3			9.2	
Number of Deaths	592	tion		601	tion	100	28	tion		126	tion
Birth Rate per 1.000 Population	16.8	per 100,000 Population		15.8	Population		35.0	per 100,000 Population		20.7	per 100,000 Population
Number of Births	1330	000 P		1324	000 P		105	000 P		283	000 P
Population, 1933		100.0	-		100,000		3000	100.0			100.0
Population residence	79231	per		83761	per			per		13689	per
Municipality No.	Edmonton	Death Rate		Calgary	Death Rate		Drumheller	Death Rate		Lethbridge	Death Rate

As this table has been given one page to itself, title has been altered in accordance therewith.

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	75-79 years	371 212 159	50.4	1	11						- 00	60		- 00	-	TT	44
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	60-64 years	367 226 141	26								-				- 63	1	
	22-29 years	316 207 109	32 20 21	-							00	4-			21	1	
	20-24 years	338	255								7	10		- 60	-		2
AGES	42-49 years	257 156 101	30 30	1								9 1	10.00	67	2		ro co
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	30-34 years	137 68 69	33	1				I	i				-	2	-		115
	S2-S9 years	165 91 74	283	1	-						61	10	-	53		11	4
	20-24 years	180	2283	- 1	-						-	-		-		-	111
	15-19 years	125 76 49	22 24 6	1	11		-			-		21			-	11	F
	10-14 years	105	28 9 19	1	11	11			-	01		-			-	11	TII
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	CAUSES OF DEATH	NUS	TOI	eve	fev			ver	00			aus	With bronchitis	pneumonia	With other respiratory diseases	With intestinal complications	oth
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		Y-A	7	Typhoid fever	Undulant fever	Smallpox	Measles	Scarlet fever	Whooping cough	Diphtheria	Influenza	(a) Sole cause	(p)	(c)	(p)	(e)	(f) With other causes
		SH	S	=	10	9	10	00	6	10			-				
		DEATHS-ALL CAUSES	CLASS L-INFECTIOUS AND PARASITIC DISEASES							-	-						
1		0	7.5														

13 15 16 17 18 22 22 23-32	Dysentery  Erysipelas  Erysipelas  Poliomyelitis and polioencephalitis (acute)  Pema  Poliomyelitis and polioencephalities  Pema  Epidemic or lethargic encephalities  Pema  Tetanus  Tetanus  Total	Male Female Male Female Female Male Female Male Female Male Female Male Male Male	1425241 48118	1123	11111111111				111 21 11 12									17 11 11 11 11 11 11 11	H   0		IT	
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27 27 28	Tuberculosis of the vertebral column excepted)  (b) Tuberculosis of joints	Male Female Male Female Male Femole	-0.01	71 111								F	-		F III	H 1111						11 1111
28 28	Tuberculosis of the skin and sub-cutaneous cellular tissue  Tuberculosis of the lymphatic system (mesenteric, retroperitoneal and bronchial glands excepted)											-11-1					11 1					11 1
31	erculosis of the genito-urinary system	Female Male Female Male Female	401	11111					11111	64				IFII	FIF		117 11					
3 3 3 3 3	(a) Disseminated tuberculosis (chronic) (b) Disseminated tuberculosis, not specified Syphilis Gonococcus infection and other veneral diseases	Female Male Female Male Female Male Female Male Female Female	-010010 84 5		ч <del>е</del>			17   1   1   1   1   1   1   1   1   1		, 1111111111	111111111111111111111111111111111111111		H 2	HH	1   -   -   -		N N N N N N N N N N N N N N N N N N N					

TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933—Continued

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	100 years	
	92-99 years	
	90-94 years	8-8-8-11-11-11-11-11-11-11-11-11-11-11-1
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	65-69 years	
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	22-29 years	38 4 38 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
-	20-24 years	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
53	45-49 years	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2
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	25-29 years	
	20-24 years	
	12-19 years	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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-	Total	22 2882 2883 2888 111 114 474 474 474 474 474 474 474 474
		Total Male Female
the state of the s	CAUSES OF DEATH	36 Purulent infection, septicaemia (non-puerperal) 38 Malaria 39 Other diseases due to protozoal parasites 43 Mycoses 44 (a) Chickenpox (b) German measles (c) Other infectious or parasitic diseases (c) Other infectious or parasitic diseases 45-53 Cancer and other malignant tumours 45 Cancer of the buccal cavity and pharynx 46 (a) Of the stomach and duodenum (b) Of the rectum (c) Of the pancreas (d) Of the pancreas (e) Of the peritoneum (g) Of other organs (g) Of other organs
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Male     Female       Female	Female 11	***************************************	Male 1 Female 58	Male 11	Male	Male 1 1 1	Male 1	Male	Male 2	Female Male	Female	Female Female	Male	Female Male 1	Female	Female				
the larynx         Male         1           the lung         Male         4           the mediastinum         Female         5           other organs of the respiratory system         Female         1           the uterus         Female         35	Female 11	***************************************	Male 1 Female 58	the kidney Male 11	Male	Male 1 1 1	Male 1	Male	Male 2	Female Male	the glandular system Male	Female Female	Male	Female Male 1	Female	Female				
the larynx         Male         1           the lung         Male         4           the mediastinum         Female         5           other organs of the respiratory system         Female         1           the uterus         Female         35	Of the cervix uteri	***************************************	cer of the breast Temale 58 Female 58 Female 59	Of the kidney Male 11	Of the prostate gland Male	Of the testicle 1 1 1	Of other male genito-urinary organs Male 1	Male	Of the eye and orbit Male 2	Of the circulatory system Male	Of the glandular system Rale Male	Of the female urinary organs Female	Of the bones and joints	Of the brain Male 1	Of the spine and spinal cord Male	Of the neck Male	Of the abdomen	Of other specified organs	Multiple cancer	
the larynx         Male         1           the lung         Male         4           the mediastinum         Female         5           other organs of the respiratory system         Female         1           the uterus         Female         35	Female 11	Cancer of other female genital organs Female 9	of the breast 1 Female 58 Male 1 Male 29	Of the kidney Male 11	Male	Male 1 1 1	Male 1	1	Male 2	Female Male	the glandular system Male	Female Female	Male	Female Male 1	Female	Female				
the larynx         Male         1           the lung         Male         4           the mediastinum         Female         5           other organs of the respiratory system         Female         1           the uterus         Female         35	Of the cervix uteri	***************************************	cer of the breast Temale 58 Female 58 Female 59	(b) Of the kidney Male 11	Of the prostate gland Male	Of the testicle 1 1 1	Of other male genito-urinary organs Male 1	Male	Of the eye and orbit Male 2	Of the circulatory system Male	Of the glandular system Rale Male	Of the female urinary organs Female	Of the bones and joints	Of the brain Male 1	Of the spine and spinal cord Male	Of the neck Male	Of the abdomen	Of other specified organs	Multiple cancer	

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TABLE 17.—CAUSES O		CAUSES OF DEATH	(m) Of unspecified or unknown location  54 Non-malignant tumours  (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	55g Tumours of other or unspecified sites, nature not specified	CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE Total GLANDS AND OTHER GENERAL DISEASES Male Femal	56 Acute rheumatic fever 57 Chronic rheumatism, osteo-arthritis 59 Diabetes mellitus 60 Scurvy	MAT
OF DEATH			Male Female Male Female	Female	Female	Male Female Male Female Male	Male Female Male Female	Male Female	Total Male Female	Male Female Male Female Male Female	Female
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60		12-19 years		-	1				881-	84	
WHOLE		20-24 years		-	1				10 61 63	21 11	
		25-29 years		-	1	-	-		00	-	
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		22-29 years	Hen	63	1	H	1141	11	268		
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933—Continued

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		VI.—DISEASES OF THE NERVOUS SYSTE AND OF THE ORGANS OF SPECIAL SENSE.	Encephalitis (non-epidemic) Simple meningitis	Progressive locomotor ataxia	Cerebral	0 0			General paralysis of the insane	(a) Dementia praecox (b) Other psychoses	Epilepsy	Convulsions (under 5 years of age)	Other diseases of the nervous system (a) Chorea
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	CAUSES OF DEATH	(a) Diseases of the coronary arteries  (b) Embolism and thrombosis of coronary arteries  (c) Angina pectoris  Other diseases of the heart  (a) Functional diseases of the heart  (b) Others and not specified  Aneuryism (other than of the heart)  Arteriosclerosis (of coronary arteries excepted)  Gangrene  Other diseases of the veins (varices, haemorrholds, philebitis, etc.)  Diseases of the lymphatic system (lymphangitis, etc.)  Diseases of the lymphatic system  Other diseases of the circulatory system  VIII.—DISEASES OF THE RESPIRATORY  SYSTEM  Diseases of the nasal fossae and annexa	
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933—Continued

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Male	al le	Male	Male Female	Male	Male	le le	Male	le	Male	Female	Female	Te Te	Female	Self-induced abortion (with septic conditions) Female	Female	Female	Female	Female	Female	Female
Male	Total Male		Male Forms	Male	Male	Male	Male	Male	Male	Fen	Fer	Total	Fen	Fen		Fen	Fen			Fen
		10								para-		TH	1	ns)	-ip			(without mention of septic	(haemorrhage	
	X	der		(T	1		d)					СИПДВВІКТИ	-	itio	con		ns)	sei	H	
	AR	9		OVE	ters		pte			and		9		buc	ic	1	itto	of	mo	
	Z	ed.		pu	ure		xce					H		000	ept		puo	ion	hae	
	5	H		8	P		S			tube			ons	pti	8 :		0	ent		
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pa	E	ıns		ye	Sis	age	mo			an		NA	ono	ith	non		sei	ti	an	
H	SE	50		10	Ine	ass	(tr	ura		Fallopian		No	0	3	ent	-	th	tho	pregnancy	
bed	53	din		)	Kle	D	J.	ret	9	all		EEC	otic	lon	H a	ior	wi	wi	br	
t,	H	alu		Hec	ne ne	ary	dde	E	sta			PH ER.	se	ort	ut	ort	0	D.	4	c
no	-	inc	1	cit	=	rin	pla	the	oro	8	-	F	th	ab	hou	ap	tion	tio	Jo	evi
use	0	ge)	ittis	spe	io i	m .	e	of t	e p	vai	rus	SO	(wi	ped	wit	ed	sta	sta	nts	pra
car	SES	te nephritis (	ihdi	Nephritis not specified (10 years and over)	ases	the	Diseases of the bladder (tumours excepted)	(a) Stricture of the urethra	Diseases of the prostate	the ovary,	(b) Of the uterus	SE	no	ngn	Abortion without mention of septic condi- tions (haemorrhage included)	Self-induced abortion	Ectopic gestation (with septic conditions)	(b) Ectopic gestation conditions)	ed)	ta
itis,	EAS	nep	n ne	Si	dise	of	8 0	ictu	S O		the	SEA	orti	f-ir	orti	f-in	opic	opi	excluded)	cen
ton	DIS	te yea	onic	hrit	er (	ini	ase	Str	ase	Of	JO	DI C	Ab		Ab	Sel		Ect	exc	Pla
Peritonitis, cause not specified	X.—DISEASES OF THE GENITO-URINARY SYSTEM	Acute nephritis (including unspecified, under 10 years of age)	Chronic nephritis	Nep	Other diseases of the kidneys and ureters	Calculi of the urinary passages	Disc	(a)	Dise	(a) Of met	(b)	XI.—DISEASES OF PREGNANCY, AND THE PUERPERAL STATE.	(a) Abortion (with septic conditions)	(b)	(a)	(b)	(a)	(g)	Other accidents excluded)	(a) Placenta praevia
129	CLASS	130	131	132	133	134	135	136	137	139		CLASS	140		141		142		143	144
	T											CLA								

TABLE 17.-CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933-Continued

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	100 years and over	-	1	1		1	T	1	1	-	1	1	111	TITT
	95-99 years	1	1	i	1	1	T		1	1	1	1	111	TITT
	90-94 years	T	T	-	1	1	T	1	1	i	1	-	111	
	85-89 years	- 1	1	1	T	1	1	1	ī	T	1	I		111117
	80-84 years		1	1	1	1	-	-	1	1	-	1	1111	
	75-79 years		1	I	1	-	1	1	-	- 1	1		111	
	70-74 years		1	T			T	1		1	-			1117 11
	65-69 years		-	1	1				-	-			1111	
	8799 \$9-09			-		-			-	-			27-1-	
	22-29 years	-		1	1	101	- 1	1	1000	1	1	i		
***	20-24 years		- 1	1		-	-		-		-	-		
AGES	42-49 years	-		1	-	-				-	-		6161	-     -
A	40-44 years	-	i	63	60	-	-		-	-	-			7
	35-39 years	ro	63	-	-	-		1		-	1		1111	
	30-34 Years	4	65		-				-		m			
	25-29 years		64	63	61	-	-		-	-		-		
	20-24 years		-	63	61	-		1	-	1	1	61	277	
	15-19 years	12	1	-		-			-	-	-	-		
	10-14 years		100		-	900	1	1	-		+ 1		111	
	2-9 years		1	1	-	-	1		1	1	1	1	111	
	4 years	-	- 1	-	1	-	1	1		1	-	-	1111	
	3 years			1	1		-		-		1	- 10		
	2 years			1		-			-	1	1		111	
	l year			-		-		-	-	-	-	1	111	
	Under 1 yr.			-		-	1	-		-	-	1	10.10	
	Total	13	6	10	00	1	63	-	23	1	61	63	85570	10 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		1	1	-	1	1	1		-	-	-			
		Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female	Total Male Female	Male Female Male Female Male
		P.		F.	Fe		Fe	Fe	Fe	Fe	Fe	H.	Ma	
	CAUSES OF DEATH	(b) Other puerperal haemorrhage	145 (a) Puerperal septicaemia (not specified as con- sequent upon abortion)	146 Puerperal albuminuria and eclampsia	Other toxaemias of pregnancy	148 (a) Puerperal phlegmasia alba dolens and thrombosis	(b) Puerperal embolism	(c) Puerperal, sudden death	149 (a) Caesarean section	(b) Dystocia	(c) Instrumental delivery	150 (b) Other or unspecified condition of the puer-	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR Total Male Femal	151 Carbuncle 152 Cellulitis, acute abscess 153 Other diseases of the skin and annexa and of the cellular tissue
			Red .	100	875	177			100			-	-	

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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933—Continued

		VITAL STATISTICS BRANCH
1	Lesters toN	
	100 years	
	95-99 years	
	90-94 years	1-64 - 04   00
	82-89 years	40 to 11 00 to 10 11 11 11
	80-84 years	844 1 24 682
	75-79 years	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	70-74 years	11111111111111111111111111111111111111
	62-69 years	
	8169Y #8-08	
	22-29 years	112 2 2 2 2 1 1 1 1 1 1 2 2 2 1 1 1 1 1
	20-24 years	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
AGES	45-49 years	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
AG	40-44 years	00 00 00 00 00 00 00 00 00 00 00 00 00
	32-39 years	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	30-34 Years	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	25-29 years	224 c
	20-24 years	11111111111111111111111111111111111111
	12-19 Acuts	11111111111111111111111111111111111111
	10-14 years	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	5-9 years	
	4 years	
	3 years	131111111111111111111111111111111111111
	2 years	
	1 year	11 11 11 11 11 11 11 11 11 11 11 11 11
	Under I yr.	r 4   122122   1   1   1   1   1   1   1
	Total	7 4 1 1 1 2 2 4 5 4 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5
		Male Female Male Female Male Female Male Female Male Female Female Male Female
	н	of care  10 years and over)  (70 years ond over)  years but under 70  ENTAL DEATHS  poisons or by ab- betances  gulation
	CAUSES OF DEATH	(b) Icterus of the new-born  (c) Sclerema and oedema (d) Athrepsia (e) Others, including lack of care (f) Unspecified causes (f) Unspecified causes (f) Unspecified causes (f) Unspecified causes (g) With senile dementia (70 years and over) (g) Premature senility (55 years but under 70 years) (g) Premature senility (55 years) (g) Premature senility (g) Premature senility (g) Premature senility (g) Prema
		CLASS  CLASS  CLASS  163-171  163-171  164  165

Suicide by differants  Suicide by Jumping from high places  Suicide by Jumping from high places  Suicide by cutthing  rom high places  Suicide by cutthing  Suicide by cutting or piercing instruments  Male  Homicide by other means  Male  Accidental absorption of toxic gases  Male  Accidental morchanical suffocation  Male  Accidental injury by differants  Male  Accidental injury by cutting or piercing in-  Male  Accidental injuries resulting from failing, crush  Male  Accidental injuries resulting from failing, crush  Male  Accidental injuries resulting from Male  Accidental injuries resulting from Male  Accidental injuries resulting from Male  Accidental injuries or indisting the male  Male  Accidental injuries or indisting from Male  Male  Accidental injuries or indisting from Male  Mal	111		1				11		11	11	11	11	11					11	11	1 1		
Suicide by directing  Suicide by directing  Suicide by cutting or piercing instruments  Female  Female  Suicide by cutting or piercing instruments  Female  Female  Female  Suicide by cutting or piercing instruments  Female  Female  Female  Total Name  Total	111				11			11	11	11			11						II	1 1		
Suicide by directing  Suicide by directing  Suicide by cutting or piercing instruments  Female  Female  Suicide by cutting or piercing instruments  Female  Female  Female  Suicide by cutting or piercing instruments  Female  Female  Female  Total Name  Total	111				11		11	11			11	11	11					11				
Suicide by firearms Suicide by cutting or piercing instruments Suicide by cutting or piercing instruments  Suicide by cutting or piercing instruments  Female Suicide by cutting or piercing instruments  Accidental mechanical suffocation  Male Suicide by cutting or piercing instruments  Accidental minury by cutting or piercing instruments  Accidental injury by cutting or pie	HI			11	II	II	H	II	TT	64	TI	II	T					II	H		6.1	111
Suicide by firearms  Suicide by cutting or piercing instruments  Suicide by cutting or piercing instruments  Female  Suicide by cutting or piercing instruments  Female  Suicide by cutting or piercing instruments  Female  Female  Suicide by cutting or piercing instruments  Female  Total Maile  Total Maile  Total Maile  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Suicide by cutting or piercing instruments  Female  Total Maile  Suicide by cutting or piercing instruments  Accidental mechanical suffocation  Maile  Accidental might by firearms  Accidental might by firearms  Accidental might by cutting or piercing instruments  Accidental might by cutting or piercing instruments  Accidental might by cutting or piercing instruments  Accidental might by includible  Accidental might by includi	111				II	11	TI	11	II	-	0	11	T				-	11	11	T	-	00
Suicide by cutting or piercing instruments  Fernale  Homicide by cities  Fernale  Homicide by cities  Fernale  Homicide by cutting or piercing instruments  Fernale  Fernale  Fernale  Homicide by cutting or piercing instruments  Fernale  Fernale  Homicide by cutting or piercing instruments  Fernale  Fernale  Homicide by cutting or piercing instruments  Fernale  Accidental injury by cutting or piercing in Fernale  Homicide by cutting or piercing injury by						11	11	II	H	90 (	N	11	H		-	1		TT	TI	-	-	-
Suicide by firearms Suicide by firearms Suicide by firearms Suicide by furnaments Suicide by furnaments Suicide by furnaments Suicide by cutting or piercing instruments Suicide by cutting or piercing instruments Fernale Homicides Homicide by other means Fernale Homicide by cutting or piercing instruments Fernale Homicide by other means Fernale  Accidental absorption of toxic gases Male Accidental mechanical surfocation Fernale  Accidental mechanical surfocation Fernale  Accidental mechanical surfocation Fernale  Accidental injury by firearms Fernale  Accidental injury by cutting or piercing in- Male Accidental injury by firearms Fernale Fernale Accidental injury by firearms Fernale Fernale Accidental injury by firearms Fernale Fernale Fernale  Accidental injury by firearms Fernale Fernale Fernale  Accidental injury by firearms Fernale Fernale  Accidental injury by firearms Fernale Fernale Fernale  Accidental injury by firearms Fernale	III					9 1	111	11	11	191	0		11			-		11	11	1 1		10
Suicide by freezings instruments   Ferrale   3   3   4   5   2   2   2   2   3   1   3   1   3   3   3   3   3   3	-			11		11	II	11	H	10	24	11				п	T	-	11	1-1	10	-
Suicide by freezings instruments   Ferrale   3   3   4   5   2   2   2   2   3   1   3   1   3   3   3   3   3   3	: :01	1 1					1 1	1 1	1 1	6	*	5 5					1.1	2 1	erd :	-	: 60	60
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Suitcide by fitnearms  Suitcide by jumping from high places  Suitcide by jumping from high places  Formale  Suitcide by other means  Formale  Formale  Suitcide by other means  Formale  Homicide by other means  Formale  Formale  Attack by venomous animals  Formale  Formale  Formale  Formale  Formale  Accidental absorption of toxic gases  Formale  Formale  Formale  Accidental moverning  Formale  Fo	4 10		н	II	III	-	-	H	TT	21	10	H	T			П		H	-	61	101	4
Suitcide by direarms   Female   1   1   2   2   2   2   2	- N-	-	H	-	H	60 .		-		18	-	II	63				-	T	-	1 1	13	
Suicide by direarms   Female   1   1   4   2	- 01-	1 -	-	-	11	11	11	II	H	20	7	11	6.1	-	•		60	61	-	1 1	10	i'ii
Suicide by firearms   Female   28   Female   28   Female   28   Female   28   Female   29   Female   29   Female   20   Female	63			1	11		N	1	٠,	20	N	11	-	-	•	-	-	01	-	-	12	-
Suicide by firearms  Suicide by firearms  Suicide by firearms  Suicide by cutting or piercing instruments  Female  Suicide by cutting or piercing instruments  Female  Suicide by cutting or piercing instruments  Female  Homicide by other means  Female  Female  Other violent deaths  Female  Female  Female  Other violent deaths  Female  Other acute accidental poisonings (except by Male  Female  Other accidental by pricearms  Female  Other accidental mechanical suffocation  Female  Accidental injury by firearms  Female  Accidental injuries resulting from falling, crush  Male  Accidental injuries resulting from falling, crush  Male  Male  Accidental injuries resulting from falling, crush  Male  Male  Accidental injuries resulting from falling, crush  Male  Male  Accidental injuries mechanics  Male  Female	7 2			II	III	63		TT	N.	16	11	T	II					6.5	11	11	10	110
Suicide by fiftearms   Female   1   National Suicide by cutting or piercing instruments   Female   2   National Suicide by crushing rom high places   Female   2   Female   3   1   1   1   1   1   1   1   1   1	FIT				11	II	TT	TI	-	21	00	T	T			-	1	9	- 63	1 1	- 11	-
Suicide by firearms   Female   1   1   1   1   1   1   1   1   1	4			11		11	TI	11	11	29	-	11	11				-	00	47	-	13	10 11
Suicide by firearms   Female   1   1   1   1   1   1   1   1   1						1 19		H :	: :	: 00	-	1 :	1 :	1		-	01=	.00		-		60
Suicide by firearms   Female   1		1 1 1		2 2									1 :								1	
Suicide by firearms   Female   2   Female   3   Female   2   Female   3   Female   3   Female   3   Female   3   Female   3   Female   4   5   6   2   1   1   1   1   1   1   1   1   1	111	1						11		16	9					-	-	61	4-1	-	. 00	
Suicide by firearms   Female   1   Naide   2   Naide   Naide   2   Naide   N	111			11	11	11	11	11	11	13	9	1 1	TT		60	-		63		N i	10	7
Suicide by firearms   Female   23   Suicide by firearms   Female   23   Female   24   Female   24   Female   25	111	11		11	1.1	11	11	11	11	9	01	II	11	1		н	-	H	61	1	-	-
Suicide by firearms   Female   23	111	II		11	II	11	H	H	11	90	9	11	11	-	-		1 ==	H	-	T	63	60
Suicide by firearms   Female   1   Suicide by cutting or piercing instruments   Female   2   Suicide by cutting or piercing instruments   Female   1   Female   Suicide by other means   Female   1   Female   Female   1   Female   Female   2   Female   1   Female   2   Female   2   Female   3   Female   3   Female   4   Female   5   Female   5   Female   5   Female   5   Female   5   Female   6   Female   7   Female   7   Female   8   Female   1   Female   2   Female   3   Female   4   Female   1   Female   1   Female   1   Female   1   Female   1   Female   2   Female   3   Female   3   Female   4   Female   1   Female   6   Female   1   Female   1   Female   1   Female   1   Female   1   Female   2   Female   3   Female   4   Female   1   Female   5   Female   6   Female   1   Female   1   Female   1   Female   1   Female   2   Female   3   Female   3   Female   4   Female   5   Female   6   Female   6   Female   1   Female   1   Female   1   Female   1   Female   1   Female   1   Female   2   Female   3   Female   4   Female   5   Female   6   Female   1   Female   1	TIT		II	T	11	II	H	H	11	00	10 -	T	II	I		C	0 01	-	-		6.0	II
Suicide by firearms   Female   23   Suicide by cutting or piercing instruments   Female   24   Suicide by cutting or piercing instruments   Female   25   Female   26   Female   27   Female   28   Female   28   Female   29   Female   20   Female   20   Female   20   Female   30   Fe	III	III		11	IT		7		-	=	7	11	11	-	-		101	.00	11	1	01	11
Suicide by firearms  Suicide by firearms  Suicide by jumping from high places  Suicide by cruthing or piercing instruments  Female  Female  Female  Female  Female  Female  Homicide by cruthing or piercing instruments  Female  Homicide by cutting or piercing instruments  Female  Female  Homicide by cutting or piercing instruments  Female  Female  Female  Female  Female  Female  Female  Female  Female  Conflagration  Accidental absorption of toxic gases  Conflagration  Accidental burns (conflagration excepted)  Female  Fem	111	11	11	11	11	11	11	11	11	Į.	10	-	11	-	1	1	4	-	-	1 1	-	-
Suicide by firearms  Suicide by firearms  Suicide by jumping from high places  Suicide by cruthing or piercing instruments  Female  Female  Female  Female  Female  Female  Homicide by cruthing or piercing instruments  Female  Homicide by cutting or piercing instruments  Female  Female  Homicide by cutting or piercing instruments  Female  Female  Female  Female  Female  Female  Female  Female  Female  Conflagration  Accidental absorption of toxic gases  Conflagration  Accidental burns (conflagration excepted)  Female  Fem	∞ co c	2 6	110 -	401	1-1	[ to ]	001	- 010	000	- 52 F	24	==	00	1 10	00	000	100	- 92	000	9	92	77
Suicide by firearms  Suicide by cutting or piercing instruments  Suicide by crushing  Suicide by other means  Homicide by other means  Attack by venomous animals  Food poisoning  Accidental absorption of toxic gases  Other acute accidental poisonings (except by gas)  Conflagration  Accidental mechanical suffocation  Accidental injury by firearms  Accidental injury by cutting or piercing instruments  Accidental injury by cutting from falling, crushing or landslide  Cataclysm						-				61										-		**
Suicide by firearms  Suicide by cutting or piercing instruments  Suicide by crushing  Suicide by other means  Homicide by other means  Attack by venomous animals  Food poisoning  Accidental absorption of toxic gases  Other acute accidental poisonings (except by gas)  Conflagration  Accidental mechanical suffocation  Accidental injury by firearms  Accidental injury by cutting or piercing instruments  Accidental injury by cutting from falling, crushing or landslide  Cataclysm																						
Suicide by firearms  Suicide by cutting or piercing instruments  Suicide by crushing  Suicide by other means  Homicide by other means  Attack by venomous animals  Food poisoning  Accidental absorption of toxic gases  Other acute accidental poisonings (except by gas)  Conflagration  Accidental mechanical suffocation  Accidental injury by firearms  Accidental injury by cutting or piercing instruments  Accidental injury by cutting from falling, crushing or landslide  Cataclysm	nale le	le le	e	le	le	le le	le	nale le	naie le	nale le	nale le	nale le	nale le	nale lo	nale	nale	nale	nale le	nale le	nale le	nale le	le le
Suicide by firearms  Suicide by cutting or piercing instruments Suicide by cutting or piercing instruments Suicide by crushing Suicide by crushing Suicide by cutting or piercing instrument Homicide by other means Homicide by other means Homicide by other means Other violent deaths Attack by venomous animals Food poisoning Accidental absorption of toxic gases Other acute accidental poisonings (excepgas) Conflagration Accidental mechanical suffocation Accidental injury by firearms Accidental injury by firearms Accidental injury by cutting or piercing struments Struments Accidental injuries resulting from falling, cing or landslide Cataclysm	Male Fema Male	Ma	Ma	Ma	Ma		Ma	Ma	Ma	Ma	Ma	Fen	Fen		Fer	Fer	Fer	Fer	Fer	Fer	Fer	Fer
Suicide by firearms  Suicide by cutting or piercing instruments Suicide by cutting or piercing instruments Suicide by crushing Suicide by crushing Suicide by cutting or piercing instrument Homicide by other means Homicide by other means Homicide by other means Other violent deaths Attack by venomous animals Food poisoning Accidental absorption of toxic gases Other acute accidental poisonings (excepgas) Conflagration Accidental mechanical suffocation Accidental injury by firearms Accidental injury by firearms Accidental injury by cutting or piercing struments Struments Accidental injuries resulting from falling, cing or landslide Cataclysm				1		otal	-	100	1	otal				by					1	-ui	sh-	
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Suicide by firearm Suicide by cutting Suicide by jumping Suicide by jumping Suicide by other m Homicide by other m Homicide by other Other violent death Attack by venomou Food poisoning Accidental absorpti Other acute accid gas) Conflagration Accidental mechan Accidental injury b Accidental injury c Accidental injury b Accidental injury b Accidental injury b Accidental injury c Accidental injury c Accidental injury c Accidental injury c Accidental injuries		trur	ses	-				stru					30	۳		000		-		pie	alli	
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Suicide by firearm Suicide by cutting Suicide by jumping Suicide by jumping Suicide by other m Homicide by other m Homicide by other Other violent death Attack by venomou Food poisoning Accidental absorpti Other acute accid gas) Conflagration Accidental mechan Accidental injury b Accidental injuries ing or landslide Cataclysm		or	fre	-	ean		ns	10	me	50	S		n (	nta		- de	cal	bo	y fi	by	rest	
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933—Continued

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	80-84 years 85-89 years	7 1 1 1					1111	111	1111
	80-84 years	-			1111	111	1111		-
	70-74 years	0 -						27-1-	
		-	11	1111		H :	1111	1-1001	01-01-
	65-69 years		- 1				1111	<b>₩</b> 8=	
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	22-29 years	01 01					1111	100001	
	20-24 years	61 61		111"		-	1111		2 3
92	45-49 years				-	: I			
AGES	40-44 years		11		-	H .			H
-	32-39 years				-	-	1111		1711
	30-34 years				-		1111		H
	S2-29 years	01			1111	TII	H		
	20-24 years		1 1	1111	1111		1111	-	1111
	12-19 years	61	1 1	1 1 1 1	-				1 201 1
	10-14 years	1111		1 1 1-1	1 11	1 1	1111	N N	1 1 1 1
	5-9 years			1111	1111	111	1111		111
	4 Years				1111	111	1111	111	1111
	3 years	1111					1111	111	1111
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	Z Years	7			: : : : : : : : : : : : : : : : : : :		1111	094	94
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	Under 1 yr.	1 1 1 1		4   21		20.00	- N	151	1 1
	1 Year	81		1   0	99	1 8 10		-	12 2 118 6 17 7 1
	Under 1 yr.	0 0 111	1		9 9	H	9 9	30 8 21 7	11842
	Under 1 yr.	0 0 111	male 1		9 9	e le	9 9	51 15 1 30 8 1e 21 7	11842
	Under 1 yr.	81	Female 1		Female Male Female Male	Female Male Female	Male Female Male Female	151	12 2 118 6 17 7 1
	Under 1 yr.	0 0 111	Female 1		Female Male Female Male	Female Male Female	Male Female Male Female	51 15 1 30 8 1e 21 7	11842
	Under 1 yr.	0 0 111	Female 1		9 9	Female Male Female	Male Female Male Female	Male 30 8 Female 21 7	Male 12 2 Female 4 6 Male 18 6 Female 17 7
	Under 1 yr.	0 0 111	Female 1		Female Male Female Male	Female Male Female	Male Female Male Female	Male 30 8 Female 21 7	Male 12 2 Female 4 6 Male 18 6 Female 17 7
	Under 1 yr.	0 0 111	Female 1		Female Male Female Male	Female Male Female	Male Female Male Female	Male 30 8 Female 21 7	Male 12 2 Female 4 6 Male 18 6 Female 17 7
	Under 1 yr.	Male 17 2 Female 1 Male 1 Male 1 Male 1 Male 8	Female Male 1 1		Female Male Female Male	Female Male Female	Male Female Male Female	Male 30 8 Female 21 7	Male 12 2 Female 4 6 Male 18 6 Female 17 7
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	Total Under 1 yr.	Male 17 2 Female 1 Female 1 Male 1 Male 8 1	Female II	Male Female Male	Female Total Male Female Male	Female Male Female	unknown Male Female Male Female	Male 30 8 Female 21 7	Male 12 2 Female 4 6 Male 18 6 Female 17 7
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	Total Under 1 yr.	Male 17 2 Female 1 Female 1 Male 1 Male 8 1		Male Female Male	Female Total Male Female Male	Female Male Female	unknown Male Female Male Female	Male 30 8 Female 21 7	specified or ill-defined Male 18 6 Female 18 7
	Under 1 yr.	Male 17 2 Female 1 Female 1 Male 1 Male 8 1		Male Female Male Male	Female Total Male Female Male	Female Male Female	unknown Male Female Male Female	Male 30 8 Female 21 7	specified or ill-defined Male 18 6 Female 18 7
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	Total Under 1 yr.	Male 17 2 Female 1 Female 1 Male 1 Male 8 1		Male Female Male Male	Female Total Male Female Male	Female Male Female	unknown Male Female Male Female	Male 30 8 Female 21 7	specified or ill-defined Male 18 6 Female 18 7
	Total Under 1 yr.	Injuries inflicted by animals Female 17 2 Hunger or thirst Male 1 Female 1 Excessive cold Male 8 1	Excessive heat	Lightning Male Female Accidental electric shocks Male	Other accidents Female  (a) Foreign body Male	(b) Others under this title Male Female Violent deaths of which the nature (accident	suicide, homicide) is unknown  Female  Male  Male  Female	Male 30 8 Female 21 7	Cause of death not specified or ill-defined Male 13 2   Female 18 6   Female 17 7
	Total Under 1 yr.	Male 17 2 Female 1 Female 1 Male 1 Male 8 1		Male Female Male Male	Female Total Male Female Male	Female Male Female	Suicide, homicide) is unknown  Female  Capital punishment  Female  Female	51 15 1 30 8 1e 21 7	specified or ill-defined Male 18 6 Female 18 7

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), 1933

		-	-		-	-	-	_	_						-								-		-	-	
A	A Accidents in mines and quarries	Male	1-	-	1	-	-		1	-	-	-	-	00	1	-	1	-	-	pret.	-	-		I	-	-	
		Female	700	1000			-						-	0000					1	4444	ě	-	-	1	-	100	
B	B Accidents caused by machines	Male	21	*****	-		-	1	63		- T		4	7	-	63	3 1	01	6/1	-	-	1	T	T	1	1	
		Female	1101	· marrie	-	+	-	1	-				1	-	-		-	-	-	-	1	-	1	-	-	-	
O	C Railway accidents	Male	16	******	-	-	:	-	-	4	1	20	NI.	7	2/1	1	1	-	-	-	-		-	-	1		
		Female	11111		-	110	-	-	-	-	-			1111	1			-		1111	1	-	1111	I	1	-	
D	D Street car accidents	Male	-			1	-		-	-		-		*****	-	1000	100	-	1014		-		-		1	100	6
		Female					-							1							1	-		-		100	8
田	E Automobile and motorcycle accidents	Male	47		1	1				3 4			1	4			6 1	01		-	-	-	1	1	-	-	
		Female	17	1000	-	100		1 1	-		7	1	1000	7	1	100	Dec   100		01				1	1	1	1000	¥
H	Other land transportation	Male	22	*****	1	81	-	64		1				64	01			-		63	-	-	-	-	1		
		Female	64		1	-		-	-			1	1	1	1	-		1000	*****	1000	-	-	1	Ī	I		-
5	G Water transportation	Male	9			1	-		-		0			ī			1	-	-	++++	-	1000	-	1	-	-	
		Female	1	7			-	1	-	-	-		000	1	1	-		-	-	111	-	1	-	1	1		
H	H Air transportation	Male	1	1000	-	1			-	-	-			-	-	-		-	-			-		I	1		
		Female	-	1	1			-	-	-	-	-	-	0.11	-	-	-	-	- September 1	-	-	-	1	1	1	-	-
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Not Stated

901 577 324 469 85508H 844HS Foreign Other Nativity 45244 592 332 260 36 TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1933 .A.S.U 20102 890 904 517 387 3442 British 2915 1707 1208 518 280 238 Canada 384 26 27 23 864444000144 Widowed and over 748 520 228 113 10 O. 568 67 116 45-64 years 515 212 303 339 410--Conjugal Condition 25-44 years 45.46 14 12-24 years Not Stated 142 113 29 and over Single 191 175 16 18 42-64 years 194 523 52-44 Aests 259 172 87 350 35 12-24 years 1460 849 611 291 155 136 Under 15 years 3165 2181 776 432 344 Total Male
Female
Male
Female
Male
Female
Male
Female
Male
Female
Male
Female
Male
Female
Female
Male
Female Total Male Female Total Male Female Male Female Male Male Female Male Male Male Total CLASS I.—INFECTIOUS AND PARASITIC DISEASES CAUSES OF DEATH (d) With other respiratory diseases With intestinal complications (c) With pneumonia (b) With bronchitis Whooping cough DEATHS-ALL CAUSES Undulant fever Typhoid fever (a) Sole cause Scarlet fever Diphtheria Influenza Smallpox Measles (e) 10 6

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811 223 2423 252 218	113 113 113 113 113 113 113 113 113 113	9   11   9		21 4	001 0	2 144
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	=		tissue Male Femal retro- Male Femal	Male Female Male Female Male	Female Male Female Male Female Male	Female Male Female Male Female
	Total		tissue.	Male Female Male Female Male	Female Male Female Female Male Female Male	
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	Total ous system	(cepted)	tissue.			
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	Total ous system	olumn excepted)	tissue.			
	Total ous system	olumn excepted)	tissue.			
	Total ous system	olumn excepted)	tissue.			
	Total ous system	olumn excepted)	tissue.			
	Total ous system	olumn excepted)	tissue.			
	Total ous system	olumn excepted)	tissue.			
	Total ous system	olumn excepted)	tissue.			
	of the respiratory system of the meninges and central nervous system of the intestines and peritoneum	olumn excepted)	tissue.			
other causes  tis and polioencephalitis (acute)  or lethargic encephalitis  cerebrospinal meningitis	of the respiratory system of the meninges and central nervous system of the intestines and peritoneum	olumn excepted)	tissue.		eminated tuberculosis (chronic)	
other causes  tis and polioencephalitis (acute)  or lethargic encephalitis  cerebrospinal meningitis	of the respiratory system of the meninges and central nervous system of the intestines and peritoneum	olumn excepted)	tissue.		eminated tuberculosis (chronic)	
Dysentery  Erysipelas  Poliomyelitis and polioencephalitis (acute)  Epidemic or lethargic encephalitis  Epidemic cerebrospinal meningitis  Tetanus	=	(cepted)	cellular tissue		(b) Disseminated tuberculosis (chronic) Male Femals (c) Disseminated tuberculosis (not specified) Male Male Femals Syphilis	cus infection and other venereal diseases.

TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1933—Continued

		betate toN	
2	gn	Опрес	1 1 1 1 1 1 1 1 1 2 5 5 5 5 5 5 5 5 5 5
Nativity	Foreign	.A.z.u	11 1 252 522 11 1 1 1 1 1 1 1 1 1 1 1 1
Z	-	British	L 1 1 2 28 52 52 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Canada	111 112 118 119 119 119 119 119 119 119 119 119
		Widowed	8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
		end over	251 1 2 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	ried	45-64 years	1102 22 22 22 22 22 22 22 22 22 22 22 22 2
n	Married	25-44 years	1 1 1 1 1 2 2 2 2 2 2 2 1 1 2 1 4 2 2 2 2
ditio		15-24 years	
Conjugal Condition		Not Stated	
ugal	e	65 years	
Conj	Single	45-64 years	
		25-44 years	1 2 1 1 1 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		15-24 years	E 6 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	SIE	Onder 15 year	
		Total	11 11 11 11 11 11 11 11 11 11 11 11 11
			ale
			Male Male Male Female Male Female Male Female Male Female Male Female Male Female Female Male Female Female Male
			Total
		CAUSES OF DEATH	38 Malaria 39 Other diseases due to protozoal parasites 43 Mycoses (a) Chickenpox (b) German measles (c) Other infectious or parasitic diseases (d) Of the buccal cavity and pharynx (e) Of the rectum (f) Of the pancreas (g) Of other organs (g) Of other organs
			- CE

(a) Of the larynx   Nahe   12   13   14   15   15   15   15   15   15   15	111111111	1 1	111	1 1	1 1	11111111	1 111111111111111
(a) Of the larynx  (b) Of the larynx  (c) Of the mediastinum  (d) Of the uterus  (e) Of the uterus  (f) Of the uterus  (g) Of t	9 1 199	H	1-4	. 63	F	77	H 60 CHH H 60 H
(a) Of the larynx  (b) Of the lung  (c) Of the mediastinum  (d) Of other organs of the respiratory system  (e) Of the wediastinum  (f) Of the breast  (g) Of the prostate gland  (g) Of the spinal cord  (g) Of the spinal cor	H 10 H   4	63 64	5210	4 9	11	HM	01 11 0100       0111111
(a) Of the larynx	SHHH 6	45 63	21.4	63 44	TIT	H	
(a) Of the larynx   Wale   1	1311   1212   1	4 63	171	4 01	-	0000	6 4H000     H   HH
(a) Of the larynx   Male   1   1   1   1   1   1   1   1   1	10 1 1 2 2 1	63 13	0.61	6 13	F	8-8-1	-          -          -    -
(a) Of the larynx   Male   1   1   1   1   1   1   1   1   1	1 4 1 1 4		63.00	10	TTT	1711111	
(a) Of the larynx (b) Of the larynx (c) of the mediastinum (c) of the male senital organs of the respiratory system (d) of other organs of the respiratory system (e) Of the uterus (f) Of the breast (f) Of the broast genital organs (f) Of the testicle (f) Of the respiratory system (f) Of the respiratory system (f) Of the testicle (f) Of the system (f) Of the system (f) Of the female urinary organs (f) Of the broast organs (f) Of the broast organs (f) Of the female urinary organs (f) Of the broast organs (f) Of the padomen	4 4 4 5 3	70 CI	27.0	10 10	TI	10 110	0 1 001 1 1 111
(a) Of the larynx   Male   1   1   1   1   1   1   1   1   1	1 1 1 1 1 9	63 64	16	H	TT	2       1	H 48 HHH
(a) Of the larynx   Wale   1   1   1   1   1   1   1   1   1	THITTH	1 1	111	11	TI	P	T I I I I I I I I I I I I I I I I I I I
(a) Of the larynx (b) Of the lung (c) Of the lung (c) Of the mediastinum (c) Of the mediastinum (c) Of the mediastinum (c) Of the uterus (c) Of the uterus (c) Of the uterus (c) Of the breast (c) Of the breast (c) Of the breast (c) Of the prostate gland (c) Of the testicle (c) Of the testicle (c) Of the testicle (c) Of the eye and orbit (c) Of the eye and orbit (c) Of the glandular system (c) Of the glandular system (c) Of the female urinary organs (c) Of the female urinary organs (c) Of the breast (c) Of the female urinary organs (c) Of the female urinary organs (c) Of the female urinary organs (c) Of the brain (c) Of the spine and spinal cord (c) Of the abdomen (c) Of the abdomen (c) Of the abdomen (c) Of the spine and spinal cord (c) Of the spine and spinal cord (c) Of the abdomen (c) Of the abdomen (c) Of the abdomen (c) Of the spine and spinal cord (c) Of the spine and spinal cord (c) Of the abdomen (c) Of the abdom	111111111	1 1	111	1 1		11111111	
(a) Of the larynx	111111711	1 1	HM	-		I 1111111	1 1111111111111111111111111111111111111
Male   12	THEFT	1 1	нна			-	- 8
Cancer of the breast cancer of the breast gland   Cancer of the kidney   Cancer of the breast gland   Cancer of the kidney   Cancer of the breast gland   Cancer of the skin   Cancer of the glandular system   Cancer of the glandular system   Cancer gland   Cancer gland glob   Cancer gland gla	111111111	1 1				1111111	+   -
Male   12   12   12   13   14   15   15   15   15   15   15   15	111171111		111	11	1 1	-     -	°
(a) Of the larynx (b) Of the lung (c) Of the mediastinum (d) Of the uterus of the erevix uteri (e) Of the breast (e) Of the breast (f) Of the kidney (f) Of the kidney (f) Of the eye and orbit (f) Of the eye and orbit (f) Of the glandular system (f) Of the female urinary organs (f) Of the female urinary organs (f) Of the skin (f) Of the glandular system (f) Of the female urinary organs (f) Of the breast (f) Of the female urinary organs (f) Of the spine and spinal cord (f) Of the break (f) Of the female urinary organs (f) Of the break (f) Of the break (f) Of the female urinary organs (f) Of the break (f) Of the preak (f) Of the meck (f) Of the	THILITIE		III	1 1	-		-  -
(a) Of the lung (b) Of the hung (c) Of the mediastinum (d) Of other organs of the respiratory system (a) Of the uterus (b) Of the cervix uteri (c) Of the breast (d) Of the kidney (e) Of the prostate gland (d) Of the testicle (e) Of other male genito-urinary organs (d) Of the skin (a) Of the skin (b) Of the circulatory system (c) Of the brain (d) Of the female urinary organs (e) Of the brain (f) Of the brain (g) Of the spine and spinal cord (h) Of the abdomen (j) Of the abdomen (j) Of other specified organs (k) Multiple cancer	4 54 54 H	11 9	1282	11 23		P-000 40	8 F-1080 0 004011
(a) Of the lung (b) Of the hung (c) Of the mediastinum (d) Of other organs of the respiratory system (a) Of the uterus (b) Of the cervix uteri (c) Of the breast (d) Of the kidney (e) Of the prostate gland (d) Of the testicle (e) Of other male genito-urinary organs (d) Of the skin (a) Of the skin (b) Of the circulatory system (c) Of the brain (d) Of the female urinary organs (e) Of the brain (f) Of the brain (g) Of the spine and spinal cord (h) Of the abdomen (j) Of the abdomen (j) Of other specified organs (k) Multiple cancer							
(a) Of the lung (b) Of the hung (c) Of the mediastinum (d) Of other organs of the respiratory system (a) Of the uterus (b) Of the cervix uteri (c) Of the breast (d) Of the kidney (e) Of the prostate gland (d) Of the testicle (e) Of other male genito-urinary organs (d) Of the skin (a) Of the skin (b) Of the circulatory system (c) Of the brain (d) Of the female urinary organs (e) Of the brain (f) Of the brain (g) Of the spine and spinal cord (h) Of the abdomen (j) Of the abdomen (j) Of other specified organs (k) Multiple cancer	ale ale	nle ale	ale			ale ale	ale
(a) Of the lung (b) Of the hung (c) Of the mediastinum (d) Of other organs of the respiratory system (a) Of the uterus (b) Of the cervix uteri (c) Of the breast (d) Of the kidney (e) Of the prostate gland (d) Of the testicle (e) Of other male genito-urinary organs (d) Of the skin (a) Of the skin (b) Of the circulatory system (c) Of the brain (d) Of the female urinary organs (e) Of the brain (f) Of the brain (g) Of the spine and spinal cord (h) Of the abdomen (j) Of the abdomen (j) Of other specified organs (k) Multiple cancer	Male Male Male Male Femi Femi Femi	Femi	Male Femi Male	Male Male	Male Male	Male Femi Male Femi Male Femi Male	Fem. Male Male Fem. Male Fem. Male Fem. Male Fem.
(a) Of (b) Of (c) Of (d) Of (d) Of (d) Of (d) Of (e) Of (f) Of (f							
12 00 00 00 12 13 13	(b) Of the larynx (c) Of the mediastinum (d) Of other organs of the respiratory system (48 (a) Of the uterus	(b) Of the cervix uteri	50 Cancer of the breast 51 (a) Of the bladder	(b) Of the kidney (c) Of the prostate gland	(d) Of the testicle (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 (h) Of the abdomen (j) Of the abdomen (j) Of other specified organs (k) Multiple cancer

---Not Stated TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1933.—Continued 121 MH : HO Foreign Other Nativity 1786 1-1-.A.S.U 844 200 British 1000 0101-01 3335 000 :-- 0 Canada 2382 Widowed 65 years and over 13 7 20 Married 2223 42-64 years 000 H 00 52-44 Years Conjugal Condition 15-24 years Not Stated 65 years Single 42-64 years S2-44 Years 15-24 years 120 33 Under 15 years 6226 2000 4000 00 58 28 00 00 IstoT Male Female Female Male Female Male Female Male Male Female Male Female Male Total Male Female Male
Female
Male
Female
Male
Male Female Female Female III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES Total Of other or unspecified sites (nature not specified) Tumours of the brain (nature not specified) unspecified or unknown location CAUSES OF DEATH genital organs Chronic rheumatism, osteo-arthritis Of other or unspecified sites gland Of the prostate gland Non-malignant tumours Acute rheumatic fever Of other female Of the thyroid Of the uterus Of the ovary Diabetes mellitus Of the brain Of (p) (p) (H) (B) 9 (c) (e) (g) (8) 54 CLASS 26 29 22 10 27

09	Scurvy	Male	The same	-	-	-	-	-	-	-	-					-	-	
-		Female																
23	Kickets	Male	9	9	1					-	-		-	9			1	1
99	Diseases of the thyroid and parathyroid glandsTotal	-	- +	7 1	11	11	11	11	11	3 1	33		11		-	11	61	
	(a) Simple goitre	Female Male	6	12	11				1 1	1 1		21	-	-	-	-		
	(b) Exophthalmic goitre	Female Male	0.4	11					11		11			01-	-		.01	1
	(c) Myxoedema, cretinism	Female Male	10									04	-		-	-		
	(d) Tetany	Female		1														
	(e) Others under this title	Female Male	61	61										63				11
67	Diseases of the thymus gland	Female Male	-	1-										-				
68	Diseases of the adrenals (Addison's disease)	Female Male	P-01	7-1										1-01				
69	Other general diseases Total	Female Male	0101		-				1				64	0101				
	(a) Fatty or amyloid degeneration	Female Male	10.03	-				-				-	64.61		7	SIA.		
	(c) Others under this title	Female			1	1										I		
		Female	10	1				-				-	61	-	4		11	11
CLASS	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	Total	533	10 4	010	010	40	-		-	8 15	11 0	100	24	_	00 0	10	1
		Female	19	-	4	N :	0-	-	11	1 1					-1-	561	1000	
70	(a) Simple purpura	Male	63	1		1	-	-		-	61		-	63		1000	1	
	(b) Maemophilia	Female Male	10	111	i			11										11
11	(a) Pernicious anaemia	Female Male	16				64		11	100	-	9			- 61	62	1	
	(b) Other anaemias	Female Male	12	11				-	11		10	00	61		63	27	63	
72	(a) Leukaemia	Female Male	-113	- 21	-							-		67.45	-	.01		
	(b) Aleukaemia (Hodgkin's disease)	Female	99	-	-	64					83			014	4-1	-		
		remale	T	1	T	-	1	1		-	-				1	I	T	
CLASS	CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS	Total Male Female	44	11	T	T	00 00		11	11		11			60.60	11	11	11
75	(b) Alcoholism	Male	4				07						-		67		1	
		Female		7	I									1				

Not Stated TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1933—Continued 101 47.29 Foreign Other Nativity A.S.U 1361618 British 588 178 Canada 4122244 Widowed 65 years and over 12772 Married 42-64 years 52-44 Acets Conjugal Condition 12-24 years Not Stated 65 years Single 42-64 years S2-44 Aests 15-24 years Under 15 years 276 153 123 Total Male
Female
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Female Male Female Male Female Male Male Female Male Female Male Female Male Female Male Female Male Female Male Male Female Female Total Male CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE Total Total (d) Hemiplegia and other paralysis (cause not specified) or Cerebral haemorrhage, cerebral embolism thrombosis (b) Cerebral embolism or thrombosis Other diseases of the nervous system Convulsions (under 5 years of age) CAUSES OF DEATH Other diseases of the spinal cord General paralysis of the insane Progressive locomotor ataxia Encephalitis (non-epidemic) (c) Softening of the brain Cerebral haemorrhage (a) Dementia praecox (b) Other psychoses Simple meningitis Epilepsy (a) 80 81 85 98 83 82 87 84

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Male Female			Sub-total Male Female	Male Female Male	Sub-total	valvular	Sub-total				Sub-total Male Female
Male Female Male Female Female Male Female Female Female Male Female Female Female Female Female Female	rem		Market Conference	Male Female Male	Sub-total	valvular	Sub-total			er)	Sub-total
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	rem	Total	Sub-total		Sub-total	valvular	(45 years and over) Sub-total			er)	Sub-total
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	rem	Total	Sub-total Sub-total		Sub-total	valvular	(45 years and over) Sub-total			er)	Sub-total
	rem	Total	Sub-total Sub-total		Sub-total	valvular	(45 years and over) Sub-total			er)	Sub-total
	rem	Total	Sub-total Sub-total		Sub-total	Endocarditis specified as chronic and other valvular diseases of the heart	(45 years and over) Sub-total			er)	Sub-total
(a) Chorea (b) Neuritis (c) Paralysis agitans (d) Disseminated sclerosis (e) Others under this title (f) Diseases of the organs of vision (g) Male	rem		Sub-total Sub-total	(a) Specified as acute Male Female (b) Unspecified (under 45 years of age)	onic endocarditis, valvular diseasesSub-total	Endocarditis specified as chronic and other valvular diseases of the heart	Sub-total		u d	(d) Myocarditis, unspecified (45 years and over)	Sub-total
		Total	Acute endocarditis Sub-total		Sub-total	Endocarditis specified as chronic and other valvular diseases of the heart	(45 years and over) Sub-total			er)	pectoris Sub-total

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	CAUSES OF DEATH		Total	Under 15 year	12-54 Years	25-44 years	45-64 years	65 years and over Not Stated	15-24 years	25-44 years	42-64 years	65 years and over	Widowed	Canada	British	.A.S.U	Other	betate toN
3	(a) Diseases of the coronary arteries Male	6	21	1	1	-	-	63	1		8				-		10	
	(b) Embolism and thrombosis of coronary arteries	Male	102	11	-	-	00	00	11	2 3							187	-
	(c) Angina pectoris Male	remale Male	22.22	111	11	11	61	60	11	11	22						44	-
95	Other diseases of the heart Sub-total	remale	48.6	2	-	01	60	-	11	1 1	-					0.0		-
	(a) Functional diseases of the heart Male	remaie Vale	50	61	T			-			00 :							
	(b) Others and not specified Male	Female Male	41	61	-	01	6.0	11			-1-	1 14	_				1 13	-
96	Aneurysm (other than of the heart)	emale fale	39		11	11				1 3	8=		3 16		16	1-01		
97	Arterioscierosis (of coronary arteries excepted)	remaie Male	113	11	H	-	00	6	11	1 1	18	51		-		3 13		-
86	Gangrene Fema Male	remale Male	11	11		I		- 00	11		= =				9 24		133	-
66	Other diseases of the arteries Male	Female Male	0.4	11	111	11	-		11	1 1	-				01			
100	Diseases of the veins (varices, haemorrhoids, phlebitis, etc.) Male	Female Male	-	11	H		11						-	-	-			
101	Diseases of the lymphatic system (lymphangitis, etc.) Male	r emale Male	-	11	11	11	11			1 1	-				-	-	11	
102	Idiopathic abnormalities of blood pressure	Female Male	40		-	11	01	10	1 1	1 1	3 16	7	7	1 14	13		-	
103	Other diseases of the circulatory system	Female Male	28	11		TI	-	-			-		-				10	
	Fen	Female		-		1	1	-		-							1	
CLASS	CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM Male Fema	Fotal Male Female	406 251 155	192	133	942	11 6 2	9 20 11	111	2	17 5 12 12 11	9 41	312	5 282 1 169 1 113	-	53 26 32 17 21 9	31 31 22	00
104	Diseases of the nasal fossae and annexa	Male Female	4.9	40	11	11	11	11	1		-	6/1			44		.01	

105		(a) Croup	Male	1	1	-	Tree of	-	1	-	1046	- Income	-	1	1	1	1	100	
	(b)	(b) Other diseases of the larynx	Female Male	PH 02	00								11		H 63				
106	(6)	Bronchitic (scrite)	Female	0	- 4		-	-			1		-	.0				-	-
	3	December (absent)	Female	000 1	100							1		1	. 00	1	1	•	
	(0)	Bronchius (chrome)	Female	200	-	II			1 1			11	9		61	*	1	II	
	(5)	Hed)	Male Female			III	11	TI	1 1		11	1 1		1 1;		1 15	1 1	10	
107	(a)	(a) Bronchopneumonia	Male Female	59	39	22	-	4	-	111	67	200	200	141	4512	10		000	
	(b)	(b) Capillary bronchitis	Male	1	-							T	T	T	-	1	T		
108		Lobar pneumonia	Female	99	13	.00	01	.00	01	-	ro (	13	13	9	37	6	1-1	122	:=
109		Pneumonia (not specified)	Female Male	30	21		-	.01		11	9	9 4	414	13	28	00 rd	9 -	10.01	
110		Pleurisy	Female Male	31	19	21-	-				4	- 21	01-4	es	11	- 63	03		
III		gestion and haemorrhagic infarct of the lung, etc.	Female Male	01 63		11	-	H :	17	11	III	TT	6.0	1 8		- 1	-	-	
112		Asthma	Female Male	121			-		1 1			00	4	- 00	NO.	- 63		-	
113		ary emphysema	Female Male	4	-	T		H :	1 1	11	11	11	-	-	63	11		-	
114		(a) Chronic interstittal pneumonia including occupational	Female Wale	-			-		-			-						-	
	(b)	Gangrene of the lung	Female Male	111							II,I	T	H	11					
	(c)	Other diseases of the respiratory system (tuberculosis excepted)	Female Male	. 21				1 1	1 1		1 1	1 1		101	-			-	1 1
			Female						1		T	T	T		61				
CLASS	IX.	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	Total Male Female	523 312 211	76	24.0	282	61.2	1-10 01	01-1-	3623	314	17	375	298 173 125	39	222	259	
115		(a) Diseases of the buccal cavity and annexa	Male	63					-		13	1	I	1	1	T	-		
	(p)	(b) Diseases of the tonsils	Male	8 01	41	63	1							-	9 8		-	-	
	(c)	(c) Other diseases of the pharynx	Male	1	10		1					-			10		-	1	
116		Diseases of the oesophagus	Male	-									-						
111		(a) Ulcer of the stomach	Male Female	58.	-		63	60			9	9	9 11	60	10	P ==	H	00	1 1 2

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(b) Ulcer of the duodenum (b) Ulcer of the duodenum (c) Ulcer of the stomach (c) Ulcer of the intestines (c) years and over) (c) Ulcer of the intestines (c) years and over) (c) Ulcer of the intestines (c) years and over) (c) Ulcer of the intestines (c) years and over) (c) Ulcer of the intestines (c) years and over) (c) Ulcer of the intestines (c) years and over) (c) Ulcer of the intestines (c)					SJE		Sin	ıgle			Mar	ried	1			-	Foreign	ug l	
National Colorer of the duodenum		CAUSES OF DEATH		Total	Under 15 yea	15-24 years			and over		52-44 Years	45-64 years	65 years	Widowed	Canada	British	.A.a.u	Other	Not Stated
Comparison of the stomach   Fernale   Fernal			ale	17	1	1	-01	- 60	-		23	[-	1		64	- 61	- 64	4	1
Diarrhoea and enteritis (under 2 years of age)   Fernale   36 36 36   1   1   1   1   1   1   1   1   1	118	Other diseases of the stomach	male	17		-	-	61		11	-4	-00	0101	-	103	10 m	00	101	
(a) Diarrhoea and enteritis (2 years and over)    Female	119	Diarrhoea and enteritis (under 2 years of age)	male ale	200		IT	II	11	TT	11		11	11	9	053	4	TI	II	
Appendicitis	120	(a) Diarrhoea and enteritis (2 years and over)	ale	91-0		11		-	-		1,1		111	00 1	9 40	1 1		6.3	
Appendicitis		over)	ile ile	0000	?	г	63	-	-	11		N C			000	400+	72	H	
Comparison	121	Appendicitis	ale ale	70		15	13	00	:01	11	6	20	-	-	7 00	6	6	11	
Nate diseases of the intestines   Female   19	122	(a) Hernia	male	20 23		-	- 03		-	11	18	-1-	60 44	01 01	33	r- 4	00	10	
Other diseases of the intestines  (a) Cirrhosis of the liver, specified as alcoholic  (b) Cirrhosis of the liver, not specified as alcoholic  (a) Yellow atrophy of the liver  (b) Other diseases of the liver  (c) Other diseases of the gall-bladder and biliary passages  (c) Diseases of the pancreas  (d) Yellow atrophy of the liver  (e) Other diseases of the liver  (f) Other diseases of the gall-bladder and biliary passages  (f) Other diseases of the gall-bladder and biliary passages  (g) Yellow atrophy of the liver  (g) Yellow atrophy of the liver  (h) Other diseases of the gall-bladder and biliary passages  (h) Other diseases of the gal			male	18.8		NO	П		11		-	6160	-00	C3 F4	11	- 01	60	00 10	
(a) Cirrhosis of the liver, specified as alcoholic Female 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	123	Other diseases of the intestines	male	19		11		11			000	10 61		60 69	22	10 00	63	NN	
(b) Cirrhosis of the liver, not specified as alcoholic Male [13] [13] [14] [15] [15] [16] [17] [18] [19] [19] [19] [19] [19] [19] [19] [19	124	(a) Cirrhosis of the liver, specified as alcoholic	male ale	21		11		-			-	-			11	-	11		
(a) Yellow atrophy of the liver   Female   6			male	13		11	11	-		11		10	. 20	64	10	4	11	4	
Female   Female   Male	125	(a) Yellow atrophy of the liver	male ale	1 6		11		11	-			00 m	-	-	-	21	11	00	
Female   1			male	63	-	11	11	11	11	11	-	11	11	11	-	11	11	-	
Other diseases of the gall-bladder and biliary passages         Female         19         1         2         1         1         2         5         2           Diseases of the pancreas         Male         2         1         1         4 <td< td=""><td>126</td><td>Biliary calculi</td><td>male</td><td>9</td><td></td><td>11</td><td></td><td></td><td></td><td></td><td>-</td><td>6.3</td><td>-</td><td></td><td></td><td>6.0</td><td>-</td><td>-</td><td></td></td<>	126	Biliary calculi	male	9		11					-	6.3	-			6.0	-	-	
Diseases of the pancreas Male 2 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	127	Other diseases of the gall-bladder and biliary passages	male ale	188			64	-	-		1001	0010	0101	चचा	F-60 C	4700	0.4.	10 10 1	
Peritonitis, cause not specified Male 2 1	128	Diseases of the pancreas	ale	22	11	4 1	11	4	11	11	4.64	#	4	-	10	9 11	4		
	129	Peritonitis, cause not specified	Female Male Female	6310			TT	11		11	-	1 1	-	!!				11	

rstem	10 years of Male 13 3 1 2 1 2 2 Female 8 3 1 2 1 2 2	81 2 2 5 6 81 3 1 2 2 5 6 1 1 12 3	100 1	Female 3	Male 59 8 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	etrium Female 4 1 2	Female 2 1	H AND THE Total 73 2 1 11 57	Female 12 12 12	ions) Female 4 4 4 4	conditions Female 1 1 1	Female	Female was an	Female 1 and and and and	excluded) Female 1  1  1	Female 2 2	Female 13 1 1 11	consequent Female 9 1 1 6 1	Female   10         3 7
SYST	Acute nephritis (including unspecified, under 10 age)	Chronic nephritis Nephritis not specified (10 years and over)	Other diseases of the kidneys and ureters	 Diseases of the bladder (tumours excepted)		(a) Of the ovary, Fallopian tube and parametrium		XI.—DISEASES OF PREGNANCY, CHILDBIRTH A PUERPERAL STATE		Self-induced abortion (with septic conditions	septic c		Ectopic gestation, with septic conditions	Without mention of septic conditions	Other accidents of pregnancy (haemorrhage excli	***************************************		(not specified as co	

TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1933—Continued

	The second					Con	Conjugal		Condition						Nat	Nativity	
	Sales of the last		STE	-		Single	le		-	Married	pa	1		-	14	Foreign	g
CAUSES OF DEATH			Total Under 15 year	15-24 years	25-44 years	42-64 Years	65 years	Not Stated	12-24 years	52-44 Years	42-64 years	and over	Midowed	Canada	British	Other.	Not Stated
147 Other toxaemias of pregnancy	Female	T	- 00	-	-	-	-	-	-63	9			-	4		-	- 63
148 (a) Puerperal phlegmasia alba dolens and thrombosis.	Female		-						-	-	1	-		11	-	-	
(b) Puerperal embolism	Female	1	64	-			-	-	1	63	T	T	1	63	1		-
(c) Puerperal, sudden death	Female	-	-	-	-	-	-	1000	-	-	1				1	-	H
149 (a) Caesarean section	Female	1	61		-	-	-	-	-	-	-			-	1	-	-
(b) Dystocia	Female .	-	-=	-	-	-	-	-	I	-	T	-	-	T	-	-	-
(c) Instrumental delivery	Female	-	64	-	-	-		-	1	63	1	-	7 1	1	-	1	-
150 (b) Other or unspecified condition of the puerperal state	te Female	T	60	-	-	-	-	-	67	T	1		T	6.3	-		
CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE	Total Male Female		25.55	10.10	0101	==:		111		61 61	00 01			1 6 2	61 61	61	60 60
151 Carbuncle	Male		10	-	-			-	100	63	-			63	101	1	63
152 Cellulitis, acute abscess	Female Male	I	- 4	-	-	1			-	11	11				11	11	11
153 Other diseases of the skin and annexa and of the cellular		T	-		1	-	-	-	T	1	T	-	7	-	T	ī	
USSUE THE PROPERTY OF THE PROP	Female		4.63		TI	11	-		T	T	61	TT	-	00	6.0	-	-
CLASS XIII.—DISEASES OF THE BONES AND ORGANS LOCOMOTION	OF Total Male Female		130	10-4	111	27-1					111		01 01	61-1			
154 Osteomyelitis	Male Female		6110	-4	-	-			TI	-				-4		-	-

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11 128	121 122 123	455 271 184	8181881 ¥	8 8 8 11 9 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Male Female Male Female Female Total Male Female Female	Male Female Male Female Male Female Male Female Male Male Female	Total Male Female	Male Female Male Female Female Male Female Male Female Male	
Particular Company of the Company of	Male Female Male Female Male Female Male Female Male Female Male Female	Total Male Female	Male Female Male Female Female Female Male Male Female Male Male	Total Male Female Male Male Female Male Female Female Female Male Female Male Female Female Female Female
155 Other diseases of the bones (tuberculosis excepted)  156 (a) Diseases of the joints (tuberculosis and rheumatism male excepted)  (b) Diseases of other organs of locomotion  (b) Diseases of other organs of locomotion  (c) Diseases of other organs of locomotion  (d) Diseases of other organs of locomotion  (e) Diseases of other organs of locomotion  (e) Diseases of other organs of locomotion  (f) Male  Female  Female  Female  Female  Female  Female  Female	Male  (b) Spina bifida and meningocele  (c) Congenital malformations of the heart  (d) Abnormalities  (e) Others under this title  (b) Male  Female  Female  Female  Female  Female  Female  Female	CLASS XV.—DISEASES OF EARLY INFANCY Male Female	158   Congenital debility   Male   Female   Fe	

TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1933—Continued

		Not Stated	11	111		112	70   -
ty.	ES SS	Other		39 21 18		97 15	810 88 910 10 111
Nativity	Foreign	.A.S.U	11	104-	1 22	13881	10 10 10 10 101
Z		British		600	1 69	528	22 4-12 1 12 8 1-12
		Canada	20	26 17	1 16 8	224 165 59	Et 188 84   F8
=		Widowed	TT	<b>\$22</b>	2 22 1	112	88 18 1 1 1 1 1 1 1
		and over	11	17	2 48-11	182	
	pa	45-64 years	11	21-1	11111111	59	64 881 8 188
	Married	SZS-44 years	11	111	THE	13	E 21 42 141 1111
litior	N	15-24 years	11	111		900	TE TENTINGTON
Cond		Not Stated	11	111	111111	111	
gal		and over 65 years	11	1-10.01	1001	66	C
Conjugal Condition	Single	45-64 years		1111	TITLL	22	6 1 2 4 2
C	Si	S2-44 years		1111	111111	1021	1 2 2 3 5 5 5
		12-24 Years	-11	111	THIII	64 15	10 M H M H M H M H M H M H M M H M M H M
	S.II	Under 15 year	20	1111	THIII	70	N I I I I I I I I I I I I I I I I I I I
-	1	Total	20	3453	4 88860	463 354 109	202 122 4 100 202 122 122 122 122 122 122 122 122
-	-	Ioto'T.			THIT	407	
1		in the later of	Male	Female Female	Male Male Female Female Male Female	Female Female	Male Male Female Male Female Male Female Female Female Female Female Female Male Female Female Male
			Male Fema	Total Male Fema	Male Femal Male Femal Male Femal	Total Male Fema	
		CAUSES OF DEATH	auses		(a) With senile dementia (70 years and over)	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	Suicide by solid or liquid poisons or by absorption 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
		CA	(f) Unspecified causes	CLASS XVI.—SENILITY	162 (a) With senile de (b) Without senile (c) Premature sen	CLASS XVIIVIOLENT	163-171 Suicides 163 Suicide by solid or liquid r corrosive substances 164 Suicide by poisonous gas 165 Suicide by hanging or strang 166 Suicide by drowning 167 Suicide by firearms 168 Suicide by cutting or piercing 169 Suicide by jumping from high

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Male Female Male Female Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female	Female Male Female
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Suicide by crushing  Suicide by other means  Homicides  Homicide by firearms  Homicide by cutting or piercing instruments  Homicide by other means  Other violent deaths  Actidental absorption of toxic gases  Other acute accidental polsonings (except by Conflagration  Accidental burns (conflagration excepted)  Accidental mechanical suffocation  Accidental injury by firearms  Accidental injury by cutting or piercing ins  Accidental injuries resulting from falling.  Injuries inflicted by animals  Hunger or thirst  Excessive cold  Excessive heat	Lightning
171 171 173 173 174 177 177 177 177 178 181 181 182 183 184 185 185 186 187 188 188 188 188 188 188 188 188 188	

Not Stated TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1933—Continued Foreign Other Nativity 0100 .A.S.U British 34 51222 Canada Widowed 65 years Married 45-64 years N-25-44 years Conjugal Condition 12-24 years Not Stated 65 years Single 42-64 years 52-44 Aests 12-54 Years Under 15 years 132 30 21 13842 Total Male Female Male Female Male Female Male Male Female Male Female Male Female Male Female Total Male Female Female Total suicide. Violent deaths of which the nature (accident, homicide) is unknown CLASS XVIII.-ILL-DEFINED CAUSES OF DEATH Cause of death not specified or ill-defined CAUSES OF DEATH (b) Others under this title Accidental electric shocks Capital punishment (a) Foreign body Other accidents Sudden death 193 198 194 199 195 200

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), 1933

4	A Accidents in mines and quarries	Male	-2	1444	-	-	-	-	-	-	50	1	1	63	-	-	10	
Щ	B Accidents caused by machines	Female Male	21	4	11	60	01			11	9	-	63	10	10	00	01	
0	C Railway accidents	Female Male	16	III	10	10	H	-	11	11	m	11	11	00	1	H	10	
D	***************************************	Female Male	II	11	11	11	11					11			11	11	11	
E	E Automobile and motorcycle accidents	Female	1.4	9	10	77 1	-		11	i mi n	13	61.	-	24	1-0	9	10	
Die	Other land transportation	Male	122	410		- 4	64	-	11	N 60		7 7	464	727	2		N 00 P	
9	G Water transportation	Female Male	9 9	-	10	11	11			11		11	11	- ·	11	-	-	
H	H Air transportation	Male Manuel		-	H	TI			11	11	11		11		H	H	11	
		E Cilidate							-	-		-		1	1	1		

TABLE 19.—CAUSES OF DEATH FOR FACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1933

11 1		458 283 175	28.73	
	December		354	0 68 8 91 1 8
	November	424 263 161		
	October	443 257 186	372	-
	September	368 220 148	477	
	1suguA	422 248 174	2222	
THS	Muly	398 238 160	1282	
MONTHS	June	473 273 200	28 28	
	May	456 270 186	3837	
	April	457 262 195	248	
	March	470 265 205	339	
	February	445 255 190	548	
	Tannat	532 331 201	143	11
	Total	5346 3165 2181	432 344	22 22 25 25 25 25 25 25 25 25 25 25 25 2
		Total Male Female	Total Male Female	Male Female Male Female Male Female Female Male Female Female Male
	CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	1 Typhoid fever 5 Undulant 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 respiratory diseases (e) With other causes (f) With other causes

13	Dysentery	Male Female Male	H410		-101	111		1 0	TI	11	TI	TH	HH	111
16	itis and polioencephalitis (acute)	Female Male	270	111	-	63	67	111	П		60	63		61
17	Epidemic or lethargic encephalitis	Female Male	41-		63	11	11	II	7	61	-	11	-	[61
18	Epidemic cerebrospinal meningitis	Female Male Female	700				11	11	11	-	г	11	-	11
22	Tetanus	Male	2	1 1		1				-	II	II		11
23-32	Tuberculosis	Male			-	20	24	14	20	21	10	22	21	13
23	Tuberculosis of the respiratory system	Female Male			901	17	181	No.	16	17	200	17	17	12 12
24	Tuberculosis of the meninges and central nervous system.	Female Male	24	- 1/3 OX	04.	Ze.	16	2000	20 00	14	12	200	00 mm m	2 :
25	Tuberculosis of the intestines and peritoneum	Female Male				4 10		N P		1 61		II	121	11
26	Tuberculosis of the vertebral column	Female Male	חת	11	- '	N :	7	7 1	7	11	1	11	11	
27	(a) Tuberculosis of bones (vertebral column excepted)	Female Male	120	: :		11		11	II	11	11	11	11	1
27	(b) Tuberculosis of joints	Female Male		11		11		11	II	11	11	111	11	11
28	Tuberculosis of the skin and sub-cutaneous cellular tissue	Female Male	H	11		11	11		H	H	II	H	11	-
29	Tuberculosis of the lymphatic system (mesenteric, retro-	Female Male									1		1	
30	Tuberculosis of the genito-urinary system	Female Male	4	-	-	-						11	г	11
31		Female Male	64	1 1	-	11	-	11	11	11		H	11	11
32	(a) Disseminated tuberculosis (acute)	Female Male	7	11	-	-	-	11		-	П	67		11
	(b) Disseminated tuberculosis (chronic)	Female Male	1 63 6		11'	-	-	7		11	H	F	11	1 1
	(c) Disseminated tuberculosis (not specified)	Female Male	0100	1 = 1			.1.1	-	-	III	11	11	11	7
34	Syphilis	Female Male	16	01	-	63	01	64		1 1	1	-	00	64
35	Gonococcus infection and other venereal diseases	Female Male	4 1	11	11	-	11	-	-	-	11	11	11	11
36	Purulent infection, septicaemia (non-puerperal)	Female Male	01601	: He	61	1	11		-	7	1	11		11
38	Malaria	Male Male	0	4 :	* !				4	1 1	1	-	11	
39	Other diseases due to protozoal parasites	Female Male Female		111	1 1 1	111				111	111	111	111	111
				100								-		

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1933—Continued

	December		23 25 28 28	25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	November		37	88 H-4-000
	October		11 29 29	880-   44000   -
	September	THITTI	16 23	254       104
	reuguA.		22822	221     04   1000
HS	Ymr		235	10 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2
MONTHS	nue	71111111	26 25 25	22       400H   0H     44   H
	May	-1111111	25 25	88   1   9   8
	lingA	11111111	288	250 L 000000 L 144 10 L
	Магећ		222	222 1 1 26 1 1 1 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	February		225	251
	January		288	80 H   04 H E H H H H H H H H H H H H H H H H H
	Total	2 1 111	339 288 288	2655 2655 111 112 113 114 115 115 115 115 115 115 115 115 115
		Male Female Male Female Male Female	Total Male Female	female Female Female Male Female Female
	CAUSES OF DEATH	(a) Chickenpox (b) German measies (c) Other infectious or parasitic diseases	CLASS II.—CANCER AND OTHER TUMOURS	45-53 Cancer and other malignant tumours.  45 Cancer of the buccal cavity and pharynx.  46 (a) Of the oesophagus.  (b) Of the stomach and duodenum.  (c) Of the liver and biliary ducts.  (d) Of the pancreas.  (f) Of the peritoneum.  (g) Of other organs.  47 (a) Of the larynx.  (b) Of the mediastinum.

48	(d) Of other organs of the respiratory system	Male Female	- 18		115	- 0	TIF		- 0	776	- 00	11	100	1 10	
30			3 ;			1 6	4		1 0	-	,		-		
	(b) Of the cervix uteri	Female	II	-	-	20	1	N	N	1	-	-	-	1	
49	Cancer of other female genital organs	Female	6	1	1	-	63	П	-	1	-	-	-	-	-
20	Cancer of the breast	Male	10			- 0		- 18	-	-	- 0		: W	1	. 0
51	(a) Of the bladder	Male	138	o ==	4	0.01	7	2 63	r 00 1			i eti	201		4
	(b) Of the kidney	Male	11	-	-	-	-	61	1	-	-	1	47	-	63
	(c) Of the prostate gland	Male	23	61	1	-	1	-	H	03	10	64	63	60	63
	(d) Of the testicle	Male	1	-	-	-	1	-	-	1			-		
	(e) Of other male genito-urinary organs	Male	-	T	-	1	-	1	1	- 1	1	-	-	-	-
52	Cancer of the skin	Male	1-		1	He			1	-	1	1	7	1.	
553	(a) Of the eye and orbit	Male	- 63 6	4 1	11	4	-	4		11.	64		11	4 1	1 1.
	(b) Of the circulatory system	remaie Male	NI I	1.1	11	II	11	II	TT	-	TT			1.1	-
	(c) Of the glandular system	Female Male	40	-	-	11	11	H	1	-	11	1 1*	11	11	11*
	(d) Of the female urhary organs	Female Female	9		П	н	11	н	11	II			H	11	
	(e) Of the bones and joints	Male	1	1	1	-	1	н	17	-	-		63	-	-
	(f) Of the brain	Male	127	61.	11'	i eri v	11	01+	101	Н	11	-	010	1 1*	-
	(g) Of the spine and spinal cord	Female Male	x0 c0	-		-	11	-	1	11	11	11	9		
	(h) Of the neck	Male	63		II	Т	PE	F		II	II			11	
	(i) Of the abdomen	Male	63.0	1	11	-		F	11	1 1	1			11	-
	(j) Of other specified organs	Female Male	2 42 6	П	11	11	1 1*	11	11			H	1 1*	11	1
	(k) Multiple cancer	remaie Male	77		H	11	- 1	11	11	11	11		4 1	11	
	(m) Of unspecified or unknown location	Female Male		1 1	-	11		11	II	11	11	11	TI	-	11
54	Non-malignant tumours	Female Male	20	-		1 16	-		616	-		-	610		
	(a) Of the ovary	Female Female	9 9	-	N	9		101	4	-	1		2 11	7	0.03
	(b) Of the uterus	Female	6	-	-61	63	+	1	-	-	-	-	-	-	1

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1933—Continued

	December	
	November	
	October	HH     H   HH
	September	
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LHS	Kint	1114 111 1044 44 11 10 11 11 11 11 11 11 11 11 11 11 11
MONTHS	əunr	
	Мау	H
	lindA	
	Магећ	)
	February	
	January	1 1 1 1 1 1 6 6 6 6 7 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Total	4448 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
		Female  Male Female Female Male Female Male Female Female Female Male
	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 (nature not specified)  55 (d) Tumours of the brain (nature not specified)  56 (g) Tumours of other or unspecified sites (nature not specified)  57 (III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES  58 Acute rheumatic fever  59 Diabetes mellitus  50 Scurvy  50 Scurvy  51 Chronic rheumatism, osteo-arthritis  52 Gliseases of the thyroid and parathyroid glands  53 Tickets  64 Scurvy  55 Simple goitre  (b) Exophthalmic goitre  (c) Myxoedema, cretinism

	(d) Tetany	Male	T	-	-	-	1		ī	T	-	-	1	-	1
	(e) Others under this fittle	Female Male		24	N	11	1 1	11	11	T	TI		11	11	11
19	Diseases of the thymus gland	Female Male		-		1	-	I-I'	01+	11	11	11	11	01+	-
89	Diseases of the adrenals (Addison's disease)	Female Male		- 010	-		-	1		III	- 1		4	4	4 1
69	Other general diseases Total	Male		4011		1 1	-		1	III			I		11
	(a) Fatty or amyloid degeneration	Male		9.01	11	•	1	1			1				
	(c) Others under this title	Male Female		10		н		-			27				
CLASS	IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	Total Male Female		134	900		40101	-00 t~=	2001	104-	400	400	10 4	φ m m	60 60
70	(a) Simple purpura	Male	-	6.3	23				-		-		-		-
	(b) Haemophilia	Male							H	III					11
11	(a) Pernicious anaemia	Male		116		-	210	10 -		П		-	64	C1	00
	(b) Other anaemias	Male		1010	1		-	-	1		-	1			1
72	(a) Leukaemia	Male		11-0			-		1	01-	1	61	-		
	(b) Aleukaemia (Hodgkin's disease)	Male Female		9	9 [ ]			-	T	4		-	101		
CLASS	V.—CHRONIC POISONINGS AND INTOXICATIONS	Total Male Female		44		111				TH	111		111		111
75	(b) Alcoholism	Male Female		4	F		-		TI	11	11	-		-	11
CLASS	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	Total Male Female		276 153 123	13	29 25 15 14 14 11	1 10 11 11 11	25	8 8 8	173	13	20	26 10 16	117	23 16
78	Encephalitis (non-epidemic)	Male Female Male		470 51	-	F	-60		171		117	ППП	-	115	
80		Female Male Female		010101	-		111		TIF	Til	-	-			111
81	Other diseases of the spinal cord	Male Female		1-1-	T				7		-21	-	11	-	-

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1933—Continued

								N	MONTHS	S					
	CAUSES OF DEATH		Total	January	February	Магећ	Hitch	VeM	ng n		August	October	November	December	
85	2 Cerebral haemorrhage, cerebral embolism or Total Male	Male	99	- 1-	101	- 07	60								
	(a) Cerebral haemorrhage	Female Male	58	60 1-	1-0	00 00	9 =	000	00 00	4 9	91-	10.4	010	1000	
	(b) Cerebral embolism or thrombosis	Female Male	4.62	63	9	9	10	101	N :	4	10				
	(c) Softening of the brain	Female Male		11	II	27	-	11		11	-	-		1	
	(d) Hemiplegia and other paralysis, cause not specified	Female Male	9	1 1	T	11	-	H	61	1		-			-
83	General Paralysis of the insane	Female Male	014	-		11					-			. 67	
84	(a) Dementia praecox	Female Male	0101	11						-	-	-			£ 1000
		Female Male	1-6		I		-			1	-	1 1	1 11		
85	Epilepsy	Female	1000	1	-		-	ı			64	1 1			4
86	Convulsions (under 5 years of age)	Female Male	16.8	-	67	1 10	4 == 00	1	2 04 03	4-					
87	Other diseases of the nervous system	Female Male	91	-	61		-	. 61	61	61	-		-		
	(a) Chorea	Female Male	=	-	-	-	-	27	-			-		-	
	(b) Neuritis	Female Male	-					T				i ir	1018		
	(c) Paralysis agitans	Female Male	02			-		I	-			•	i is		
	nosis	Female Male	4110	-		1	-	64		•	• •				
		Female	-100	1	-					1 15		-			200
88	Diseases of the organs of vision	Female Male	00		1	П		1	4	•					
88	(a) Othtis	Female		II	II						-	100	1 1		1
	(b) Mastoid process	Female Male	100 0		-	II	11	11	H			1 1	101	119	S. Marie
		Female	210	9 11	-	F		II	TT	-		-	-		

107 711 36	24	-	11		1-0		6	21	ю н.		122	54-	19	44	14	70 mg 1	19	24	9	N :	10
25.22	25	11	11	11	6.5 FU	00	4 1	19	177	11	16	200	15	6.0	10	0110	-41	0	41	001	910
541	33	-	-		911	6	=	12	14	-	122	13	14	10.10	011-	20 64	60	4 1	- 00 0	20-1	10
2833	17	11	II	11	17.0	10	101	123	9	-	10	4010	13 6	4.03	-10	m 40	io	21	40	N :	1-00
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36	238	014	- 63 -		90	9	00	14	0	11	121	- 61 -	12	03 03	. 9	া বা	641	9 ;	- 641	0	47.0
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25 29 29	33	111		-	00 4	- 00	4	14	91		11	001-	7 =	60	11	00	9	4.01	4.	4-1	00.00
1044 642 402	282	es ← -	494	<del>-</del>	95	000	65 44 0	160	17	900	132	2000	156	21	102	22,53	48.6	. t-	414	99	113
CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM   Total   Male   Female	90-95 Diseases of the heart Total Male Female 90 Pericarditis	Acute endocarditis Sub-total	(a) Specified as acute	(b) Unspecified (under 45 years of age) Male	92 Chronic endocarditis, valvular diseases Sub-total Male	(a) Endocarditis specified as chronic and other valvular diseases of the heart	ed (45 years and over)	93 Diseases of the myocardium Sub-total Male	(a) Acute myocarditis Male	(b) Myocarditis, unspecified (under 45 years of age) Male	(c) Chronic myocarditis and myocardial degeneration Male	(d) Myocarditis, unspecified (45 years and over)	94 Diseases of the coronary arteries and angina Sub-total Male	of the coronary arteries	(b) Embolism and thrombosis of coronary arteries. Male	(c) Angina pectoris Male	95 Other diseases of the heart Sub-total Male	(a) Functional diseases of the heart Male	(b) Others and not specified Male	96 Aneurysm (other than of the heart) Male	97 Arteriosclerosis (of coronary arteries excepted) Male Female
5	01																				

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1933—Continued

								M	MONTHS	50				
	CAUSES OF DEATH		Total	Yannaty	February	Магсћ	lingA	Мау	anne	July	tsuguA	September	November	December
86	Gangrene	Male	- 1	1	4	1	1 2	-	- 61	-		-	-	-
66	Other diseases of the arteries	Female Male	214	-	1	ii				н				
100	Diseases of the veins (varices, haemorrhoids, phlebitis,etc.)	Female Male	1			11								
101	Diseases of the lymphatic system (lymphangitis, etc.)	Female Male					11							1
102	Idiopathic abnormalities of blood pressure	Female Male	40	3	-	121	10	-	NO.	10	60	01	4	1/2
103	Other diseases of the circulatory system	Female Male	* :			01	4	01	9	00	4	100	-	000
	144	Female	-				-	1		T		T		
CLASS	CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM	Total Male	406	37	25	30	23.33	23 23	122	13	17	24	102	12.10
	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	emale	150			23	14	00	80	*	-1	6		10
104	Diseases of the nasal fossae and annexa	Male	-		6.1	1	-	-	-	-				-
105	(a) Croup	Female Male	91					T	1		-		01	1
	(b) Other diseases of the larynx	Female Male		-	-									-
106	(a) Bronchitis (acute)	Female Male					1	1	1		II			
		Female Male	00 10	П				101-	-	4	1 1	1	11	4 .
		Female Male	64			1	11	-		11	1	11	-	-
107	(a) Bronchopneumonia	Female Male	6			0		110	1 1	110	-	115	11	1 15
		Female Male	59	101	9	000	210	00 00	-4	9	9	-10	- 10	3
108	Lobar pneumonia	Female Male	, 99			1			TT	'	111	1 1	111	1 1
109	Pneumonia (not specified)	Female	348	91	- [- (		240		# 00		4.03	0 -1	210	20 01
		Female	38			- 00	000	77		72	- <del>-</del>	-	rt rt	00 01

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Male Female Male Female Female Male Female Male Female Male Female Male Female Male Female	Total Male Female	Male Female Male Male Female Male Female Male Female	Male
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ne lung, etc.		er.)	
8   9   9	W	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	holic
Pleurisy  (b) Congestion and haemorrhagic infarct of Asthma Pulmonary emphysema Pulmonary emphysema (a) Chronic interstitial pneumonia including diseases of the respiratory system (b) Gangrene of the lung (c) Other diseases of the respiratory system excepted)	CLASS 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 oesophagus (a) Ulcer of the stomach (b) Ulcer of the stomach Other diseases of the stomach (a) Diarrhoea and enteritis (under 2 years of age) (b) Ulceration of the intestines (2 years and o Appendicitis (a) Hernia (b) Intestinal obstruction (c) Other diseases of the intestines	(a) Cirrhosis of the liver, specified as alcoholi
Congestion and haemorrhagic infarma ma nonary emphysema Chronic interstitial pneumonia incl diseases of the respiratory system Gangrene of the lung Other diseases of the respiratory s	IVE :	nx nx ears (2 years (2 years	led a
rrhagi eumor ory sy	GEST	(a) Diseases of the buccal cavity and (b) Diseases of the tonsils (c) Other diseases of the pharynx Diseases of the oesophagus (a) Ulcer of the stomach (b) Ulcer of the duodenum Other diseases of the stomach (a) Diarrhoea and enteritis (under 2 year) (b) Ulceration of the intestines (2 Appendicitis (b) Intestinal obstruction (c) Intestinal obstruction (d) Intestinal obstruction (d) Other diseases of the intestines	specif
aemoi a l pirate lung	IE DI	nesils the hagus nach enum stom intes intes	iver,
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Congestion and haemouna congestion and haemouna chronic interstitial pridiseases of the respirate Gangrene of the lung Other diseases of the excepted)	EAS	eases eases ner d s of s of er o er o er o er o erro erro erro erri icitis mia estina liseas	rhosi
Pleurisy  (b) Congestion and hae Asthma Pulmonary emphysema diseases of the respito (b) Gangrene of the lu (c) Other diseases of the excepted)	-DIS	(a) Diseases of the buccal c (b) Diseases of the tonsils. (c) Other diseases of the p Diseases of the oesophagus (a) Ulcer of the stomach (b) Ulcer of the duodenum Other diseases of the stoma Diarrhoea and enteritis (un (a) Diarrhoea and enteritis (b) Ulceration of the intest Appendicitis (a) Hernia (b) Intestinal obstruction (b) Intestinal obstruction	Cir
	S IX.		
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TABLE 19.—CAUSES OF DEATH FOR EAC H SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1933—Continued

	December	1
	November	
	October	2
	September	T   T   S   T   S   T   T   T   T   T
	August	
IS	Amr	H
MONTHS	əunr	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M	May	25.28 1 2.28 1 1 2.28 1 1 2.28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	lirqA	1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 1
	Магећ	EH
2	February	1 1 1 1 1 1 1 2 1 1 1 1 2 2 1 1 1 1 1 1
	January	
77.	Total	138 118 118 118 118 118 118 118 118 118
		Male Female Male Female Female Female Male Female Male Female Male Female Male Female Male Female Female Male Female Female Male
	CAUSES OF DEATH	(b) Cirrhosis of the liver, not specified as alcoholic  (b) Other diseases of the liver  (b) 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 Perifonitis, cause not specified  130 Acute nephritis (including unspecified, under 10 years of age)  131 Chronic nephritis (including unspecified, under 10 years of age)  132 Nephritis not specified (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)  136 (a) Stricture of the urethra  137 Diseases of the prostate  138 (a) Of the ovary, Fallopian tube and parametrium  (b) Of the uterus

LASS 140	PUERPERAL STATE  (a) Abortion (with septic conditions)	Total		10 -	-61	122	10 0	-≣	-00 -	-10 0	-00			- 60 -	4
	(b) Self-induced abortion (with septic conditions)	Female	4	2		9 11	4		-	4	-	-	4	4 63	
141	(a) Abortion without mention of septic conditions (haemorrhage included)	Female					-			1	-		1	-	- 1
	(b) Self-induced abortion	Female	-	-		-	1	-	1	-	1	-	1	-	1
142	(a) Ectopic gestation, with septic conditions F	Female				-		-	-	1	-	-	-	1	-1
	(b) Without mention of septic conditions	Female	-			1	-	-	1	1	1		1		
143	Other accidents of pregnancy (haemorrhage excluded) Fr	Female	-			-	1	-	1	1	1	1	1	-	1
144	(a) Placenta praevia	Female	2		1		-	-	1		-	-	-	-	н
	(b) Other puerperal haemorrhage FF	Female	13	63		61	-	1	-	-	1	-	-	6.0	1
145	(a) Puerperal septicaemia (not specified as consequent F	Female	6	-		-		61	-	-	H	-		-	1
146	Puerperal albuminuria and eclampsiaFF	Female	10	-	1	-	-	- 61	- 64		64			-	-
147	Other toxaemias of pregnancy Fr	Female	00	1		1	-	63	67	61		1	-		-
148	(a) Puerperal phlegmasia alba dolens and thrombosis Fr	Female	-	-		1	-	1	T	1	-	1	-		
	(b) Puerperal embolism Fe	Female	67	-		64	9.	ī	-		-	-	-	-	
	(c) Puerperal, sudden death Fe	Female	-		1	1	1	1	-	-	1		-		-
149	(a) Caesarean section For	Female	63	-	-	-	911	1	1	1	-		-	-	1
	(b) Dystocia	Female	1	-	1	1	1	1	1	-	1	1	1	-	1
	(c) Instrumental delivery	Female	64	-		1	1		-	-	-	1	-	-	1
150	(b) Other or unspecified condition of the puerperal state Fe	Female	63	-	I	-		1	-	1	61	1	-	-	
ASS	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE M	Total Male Female	855.0	2001	6161	111	400					0101			:
151	Cellulitis, acute abscess	Male Female Male Female	10-4-			1111	- 11-	7111	TIF	1111					-

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1933—Continued

	TABLE 13.—CAUSES OF DEATH FOR EACH	SEA DI MONIHS.		FOR THE		WHOLE	Two will	MONTHS		Communication				97 5
	CAUSES OF DEATH		Total	February	Матећ	lirqA	May	ngue	July	September	October	November	December	
153	Other diseases of the skin and annexa and of the cellular tissue	Male Female	4.00	21			11	-11		-	- 11			11
CLASS	XIII.—DISEASES OF THE BONES AND ORGANS OF T LOCOMOTION F	Total Male Female	0 % !-	111	111		TIII	00 01 ==	211	0 0	111	111		111
154	Osteomyelitis Other diseases of the bones (tuberculosis excepted)	Male Female Male	010	-111	111		111			01		111		111
156	(a) Diseases of the joints (tuberculosis and rheumatism excepted)  (b) Diseases of other organs of locomotion	r emale Male Female Male Female			1 11111 <del>1 1111</del>	I III						1 1111		1 1111
CLASS	CLASS XIV.—CONGENITAL MALFORMATIONS MF	Total Male Female	F48	988	4212	1-40	11 5	921	900	10 01 00	200	900	40-	0104
157	(a) Spina bifida and meningocele (b) Spina bifida and meningocele (c) Congenital malformations of the heart (d) Abnormalities (e) Others under this title (f) F	Male Female Male Male Female Male Female Female Male Male Female	121 122 122		755 13 55	H H H M   1 H H	H	-		1114441144	, , , , , , , , , , , , , , , , , , ,	-0111101-	A A LA LA LA L	01 0101 1101
CLASS	CLASS XV.—DISEASES OF EARLY INFANCY F	Total Male Female	455 271 184	1123	26 20 20 23	30 81	427	15 26	1284	30 118	15 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	288	14 23 3	747
158	Congenital debility	Male Female	38	E H	42	00 ==	-21	es ==	ю н	eo ==	-		21	* :

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ury at birth  With record of Caesarean oper Without record of Caesarean er diseases peculiar to early 3 months)  Atelectasis Icterus of the new-born Sclerema and oedema Athrepsia Others, including lack of care Unspecified causes	TY le der enile seni	ide by solid or lique by solid or lique by solid or lique by poisonous gas ide by hanging or side by drowning ide by firearms
ry at birth ry at birth With recor Without re er diseases months) Atelectasis Icterus of Scierema i Athrepsia Others, inc	seni	by solve by his by direction of the by dinduction of the by direction of the by direction of the by direct
	(a) With senile dementia (70 years and over)  (b) Without senile dementia (70 years and over (c) Premature senility (55 years but under 70	Suicide by solid or liquid poisons or by corrosive substances Suicide by poisonous gas Suicide by hanging or strangulation Suicide by drowning Suicide by firearms Suicide by cutting or piercing instruments.
159 Pren 160 Inju (a) (b) (b) (c) (c) (d) (d) (e) (e) (f)	CLASS XVI.—SENILITY 162 (a) With senile (b) Without sen (c) Premature	CLASS XVI 163-171 Sul 163 Sul 164 Sul 165 Sul 167 Sul 167 Sul 167 Sul

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	December	
	Мочетрет	
	October	1
	September	
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HS	Ymr	24
MONTHS	nue	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M	May	
	lirqA	1 1 1 1 1 1 1 1 8 8 1 1 1 1 1 1 1 1 1 1
	Магећ	
	February	
	Yannaty	98
	Total	24.1 138 1 28.2 28.2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		Male Female Female Male Female Female Male
	CAUSES OF DEATH	169 Suicide by jumping from high places 170 Suicide by crushing 171 Suicide by other means 173-175 Homicides 173 Homicide by cutting or piercing instruments 174 Homicide by other means 175 Homicide by other means 176-198 Other violent deaths 177 Food poisoning 178 Accidental absorption of toxic gases 179 Other acute accidental poisonings (except by gas) 179 Accidental mechanical suffocation 181 Accidental mechanical suffocation 182 Accidental injury by firearms 183 Accidental injury by cutting or piercing instruments 184 Accidental injuries resulting from falling, crushing or landslide 187 Cataclysm

188	Injuries inflicted by animals	Male		171	01	6	-	_			41			-	c	
189	Hunger or thirst	Female				1					-			1	4  -	
190	Excessive cold	Female		00		00								1.15	4 10	
191	Excessive heat	Female Male		TH	T									1	9	
192	Lightning	Female Male		-		11										
193	Accidental electric shocks	Female		101	TT	11				61						
194	Other accidents Total	Female Male		00	-	1	-	-	63		-			61	1	
	(a) Foreign body	Female Male		9	-	11	-		01	-						
	(b) Others under this title	Female Male		- 00	-	11	-		01		-			6.1	11	
195	Violent deaths of which the nature (accident, suicide, homicide) is unknown	Male		0 -	-		-	-		-				1	1	
198	Capital punishment	Female Male		. 01	T									121	111	
CLASS	CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH	Total Male Female		13821	10 00 01	040	21-1	10 00 01		00 00 10	21-1-	1-40	2	940	100	
199	Sudden death	Male Female		12	61	-	-	* * *			-	-	-	64	01	
200	Cause of death not specified or ill-defined	Male Female		13	- 63	13 63	-	63 H			-	63 63	1	OIO	11	
	SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED	THS (II)	CLUDED	ALSO	Z	HE PI	THE PRECEDING		TABLE).	), 1933	62					
A	Accidents in mines and quarries	Male		7	1		1	- 27			1	-		62		
В	Accidents caused by machines	Female Male		21	T	1	1				NO.	.01	1	60	1	
C	Railway accidents	Female Male		16		-	2	.00		-	100	-	61		1	
Q	Street car accidents	Female Male			T				MOI							
M	Automobile and motorcycle accidents	Female		47	11		10					10	00	6.3		
H	Other land transportation	Female		22	-	-	-	52		6010	- 61	-	4.60	4	-	
Ö	Water transportation	Female Male		0109	11	1 1				1	- 1	63 11	1			
Н	Air transportation	Female			11	11		-				11	-			
		remaie	- Commontone	1000	Second In	and and	di Joseph	100		1000	1	Trong.	1000	4100	1	

TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1933

		* * *														
1	Not stated	iii	111	111	11	11	11				1			11	11	11
	100 years and over	1111	111		III	H			T					П		11
	92-99 years	2111	1111		H	11			I							TI
	90-94 years	@ co co		TII	III	11			-				-			11
	82-89 Years	20 3	TILL			11	11		I							11
	80-84 years	123		111	III	11					T	I		T		TI
	75-79 years	12 23 21	111	TITI	11	11	T		-					11		11
	70-74 years	51			III	T									I	
	62-69 years	3337	27-1-		III	11	T	-	-		-		-	11		11
	60-64 years	12 62	104-	111	14	11		61				-		-		-
	22-23 AGBLS	217	4-63						61	-		-		11		11
	20-24 Years	48	400-		11	11	T		-			-				Till
ES	42-49 Assis	30 30 18	000		11	H	T		61		1	61				HI
AGES	40-44 Years	13346	1000		III	TI	T		27		T	-			-	TI
	32-39 Acuts	2123	= 800	- 111	TT	11	11	.01	13	T	01	-		11	H :	111
	30-34 Assis	12 18	E= 44.00		11	11	11	61	-		61	T	T	11	-	111
	S2-S9 Acuts	132	E= 63 44	-	II	TI	11	-	-	н	-	T			11	III
	20-24 years	13933	946	111	11	17	TI	11	T	T		П	T	TI	11	11
	12-19 years	171	40101	TIT	11	II	11		1	T			Ti	III	11	III
	10-14 years	103	62 63			11							11		11	T
	2-9 Aests	11.4	211	111	11	11			1				11		11	111
	4 Years	10 01 00	121133	111	II	11		11	1	11		11	11	11	11	TH
	3 years	001100	65-161		11	11	11	11	1		11	11	11			111
	2 years	00 00 10	211	TIII	II	11	11	T		TI	H		T	11	11	III
	I year	988		711	TI	F	11	11	T		T	1	TI	11	11	111
-	Under 1 year	1111	13	111	11	F	60	60			.01	-	11	11	11	1-12
	Total	870 512 358	102 57 45	F	II	0	₩ FF	122	14	61	6		63	-	00	0101
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		ale	ale	ale	ale	ale	ale	ale	ale	ale	ale	ale	ale	ale	ale	ale
		Total Male Female	Total Male Female	Male Female Male	Female Male	Female	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male Female
-	,		FRE	FIRE	HA	ME	144	Total M		142	HA	142	42	MA	HA	HEL
	CAUSES OF DEATH	SES	CLASS L-INFECTIOUS AND PARASITIC DISEASES	Ver	TC	Whooping cough			ase	ronchitis	With pneumonia	With other respiratory diseases	(e) With intestinal complications	ier causes		
	CAU	DEATHS-ALL CAUSES	ASS L-INFECTIO	1 Typhoid fever 7 Measles	8 Scarlet fever	9 Whooping	10 Diphtheria	11 Influenza	(a) Sole cause	(b) With bronchitis	(c) With p	(d) With o	(e) With in	(f) With other causes	13 Dysentery	15 Erysipelas

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Epidemic cerebrospinal meningitis  Tuberculosis of the respiratory system  Tuberculosis of the meninges and central nervous system  Tuberculosis of the intestines and peritoneum  Tuberculosis of the genito-urinary system  (a) Disseminated tuberculosis (acute)  (b) Disseminated tuberculosis (chronic)  Syphilis  Purulent infection, septicaemia (non-puerperal)  Mycoses	0	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  (e) Of the pancreas  (f) Of the peritoneum  (g) Of other organs  (a) Of the larynx  (b) Of the lung
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H 65 67 67 67 63 63 63 63 48	SS	
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1933—Continued

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	CAUSES OF DEATH	(d) Of the mediastinum  (d) Of other organs of the respiratory system.  (a) Of the uterus	Cancer of other female genital organs	Cancer of the breast  (a) Of the bladder  (b) Of the kidney	(c) Of the prostate gland (d) Of the testicle	Cancer of the skin  Cancer of other or not specified organs  (a) Of the eye and orbit  (b) Of the bones and joints  (f) Of the brain  (g) Of the spine and spinal cord  (h) Of the neck
		(e) O (a) O (b) O (c) O	ance	(a) O (b) O	(c) (d) O	Cancer (a) of (b) of (c) of (c) of (d) of
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(i) Of the abdomen (j) Of other specified organs (k) Multiple cancer Non-malignant tumours (a) Of the ovary (b) Of the uterus (d) Of the brain (e) Of the thyroid gland (g) Of other or unspecified si	III.—RHEUMATIC DISEASES, NUTRITION AND OF TH GLAND AND OTHER GENERA	Acute rheumatic fever Chronic rheumatism, osteo-arthritis	Diabetes mellitus (a) Simple goitre	(b) Exophthalmic goitre Diseases of the thymus gland Diseases of the adrenals (Addison's disease)	FORMING ORGANS  (a) Simple purpura  (a) Pernicious anaem  (a) Leukaemia
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	реати	V.—CHRONIC POISONINGS AND INTOXICA-Total Male		NERVOUS SYSTEM AND SPECIAL SENSE	mic)	taxia	ge	or thrombosis	Hemiplegia and other paralysis, cause not specified	and other psychoses		ears of age)		e nervous system	
	CAUSES OF DEATH	CHRONIC POISON	lcoholism	PISEASES OF THE PRESENCE OF STATE ORGANS OF STATE OF STAT	ncephalitis (non-epide	ogressive locomotor at	() Cerebral haemorrha	(cerebral embolism	1) Hemiplegia and of specified	Dementia praecox	oilepsy	onvulsions (under 5 ye	) Paralysis agitans	Other diseases of th	
	CAUSES OF	CLASS V.—CHRONIC POISON TIONS	75 Alcoholism	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND Total OF THE ORGANS OF SPECIAL SENSE Male Fema	78 Encephalitis (non-epidemic) 79 Simple meningitis	80 Progressive locomotor ataxia	82 (a) Cerebral haemorrhage	(b) Cerebral embolism or thrombosis	(d) Hemiplegia and of specified	84 (a) Dementia praecox and other psychoses	85 Epilepsy	86 Convulsions (under 5 years of age)	87 (c) Paralysis agitans	(e) Other diseases of the nervous system	89 (b) Mastoid process

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	1332	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	(b) Diseases of the tonsils	(a) 1	(b) Ulcer of the duodenum	Diarrhoea and enteritis (under 2 years of age)	Diarrhoea and enteritis (2 years and over)	Appendicitis	(a) Hernia	(b) Intestinal obstruction	Other diseases of the intestines	(a) Cirrhosis of the liver, alcoholic	(b) Cirrhosis of the liver, non-alcoholic	(b) Other diseases of the liver	Billiary calculi	Other diseases of	Peritonitis (cause not specified)	
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X—DISEASES OF THE GENITO-URINARY Total Syears of age)  Vears of age)  Vears of age)  Vears of age)  Vears of age)  Chronic nephritis (including unspecified, under 10 Male Female Chronic nephritis not specified (10 years and over)  Nephritis not specified (10 years and over)  Calculi of the urinary passages  Calculi of the urinar	ale	1	1   1   1   1   1   1   1   1   1   1	XX	4	0	Z	0	ü	Di	Ö	MA	2	2	P	Ö	9	BE		S	ů	3	0		85		Os	ot	
ale	ale	1	1	SEASES OF THE	cute nephritis (including unspecified, under 10 years of age)	hronic nephritis	ephritis not specified (10 years and over)	ther diseases of the kidneys and ureters	dculi of the urinary passages	seases of the bladder (tumours excepted)	seases of the prostate	-DISEASES OF PREGNANCY, CHILDBIRTH ND THE PUERPERAL STATE	) Ectopic gestation, without septic conditions	) Puerperal haemorrhage	terperal albuminuria and eclampsia	her toxaemias of pregnancy		.—DISEASES OF THE SKIN AND CELLULAR SSUE		rbuncle	Illilitis acuta abenece	STATE	the cellular tissue		I—DISEASES OF THE BONES AND ORGANS F LOCOMOTION		teomyelitis	her diseases of the bones (tuberculosis ex-	cepted)
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1933—Continued

					Congenital debility  Premature birth  (b) Injury at birth  (a) Atelectasis Other diseases peculiar to early infancy	(a) With senile dementia (70 years and over)
		Total Male Female	Male Female Male Female Male	Total Male Female	Male Female Male Female Male Female Female Male Female Female Female	Total Male Female Male Female Male Female Male
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H.	Suicides by solid or liquid poisons or by absorp-	suicide by poisonous gas	Suicide by drowning	Suicide by firearms	Suicide by cutting or piercing instruments	Suicide by jumping from high places	Homicides	Homicide by cutting or piercing instruments	Other violent deaths	Other acute accidental poisonings (except by gas)	Accidental burns (conflagration excepted)	Accidental	Accidental injury by firearms	Accidental injury	Accidental injuries resulting from falling, crushing or landslide	Injuries inflicted by animals	Other accidents		H	Sudden death
CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS											100								CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH	
ASS	163-171	164	166	167	168	169	173-175	174	176-198	179	181	183	184	185	186	188	194		ASS	199
CL	163						173		176										CL	

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), EDMONTON, 1933

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86 154 Foreign Other Nativity 2000 12 22 23 A.S.U 186 112 74 500 10 British 467 259 208 3883 Canada TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1933 145 69 76 4-62 Widowed 65 years 39 Married 185 116 69 117 42-64 years 122 54 54 0101 25-44 years Conjugal Condition 00110 15-24 years Not Stated end over 4 228 Single 400 333 42-64 years 50 50 50 223 25-44 years 690 347 12-24 Years 12 17 172 76 96 Under 15 years 870 512 358 57 Total Male Female Male Female Male Female Female Male
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Female Total Male Female Total Male Female ?emale Female Male Total CLASS I.—INFECTIOUS AND PARASITIC DISEASES CAUSES OF DEATH With other respiratory diseases (e) With intestinal complications causes With pneumonia (b) With bronchitis Whooping cough DEATHS-ALL CAUSES (f) With other (a) Sole cause Typhoid fever Scarlet fever Diphtheria Influenza Dysentery Measles (P) (c) 10 6 11 13

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TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON			AND THE PROPERTY OF THE PROPERTY OF

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-			Total Total
			Erysipelas  Epidemic cerebrospinal meningitis  Tuberculosis  Tuberculosis of the respiratory system  Tuberculosis of the meninges and central nervous system  Tuberculosis of the intestines and peritoneum  Tuberculosis of the genito-urinary system  Tuberculosis of the genito-urinary system  (a) Disseminated tuberculosis (chronic)  Syphilis  Mycoses  L—CANCER AND OTHER TUMOURS  Cancer and other malignant tumours  Cancer of the buccal cavity and pharynx  (a) Of the oesophagus
			s sn
			Erysipelas  Epidemic cerebrospinal meningitis  Tuberculosis  Tuberculosis of the respiratory system  Tuberculosis of the meninges and central nervo  Tuberculosis of the intestines and peritoneum  Tuberculosis of the genito-urinary system  (a) Disseminated tuberculosis (chronic)  Syphilis  L.—CANCER AND OTHER TUMOURS  Cancer and other malignant tumours  Cancer of the buccal cavity and pharynx  (a) Of the oesophagus
			Erysipelas  Epidemic cerebrospinal meningitis  Tuberculosis  Tuberculosis of the respiratory system  Tuberculosis of the intestines and central nery  Tuberculosis of the genito-urinary system  Tuberculosis of the genito-urinary system  (a) Disseminated tuberculosis (acute)  Syphilis  I.—CANCER AND OTHER TUMOURS  Cancer and other malignant tumours  Cancer of the buccal cavity and pharynx  (a) Of the oesophagus
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			Erysipelas  Epidemic cerebrospinal meningitis  Tuberculosis  Tuberculosis of the respiratory system  Tuberculosis of the meninges and central  Tuberculosis of the intestines and perito  Tuberculosis of the genito-urinary system  (a) Disseminated tuberculosis (acute)  (b) Disseminated tuberculosis (chronic)  Syphilis  Purulent infection, septicaemia (non-puer  Mycoses  Cancer and other malignant tumours  Cancer and other malignant tumours  (a) Of the oesophagus
			S S S S S S S S S S S S S S S S S S S
			15 Erysipelas 18 Epidemic cerebrospinal meningitis 23-32 Tuberculosis of the respiratory system 24 Tuberculosis of the meninges and centus 25 Tuberculosis of the intestines and per 30 Tuberculosis of the genito-urinary syst 32 (a) Disseminated tuberculosis (acute) (b) Disseminated tuberculosis (chronic 34 Syphilis 36 Purulent infection, septicaemia (non-p 43 Mycoses 45-53 Cancer and other malignant tumours 45-53 Cancer of the buccal cavity and phary 46 (a) Of the oesophagus
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(e) Of the stomach and duodenum (d) Of the liver and biliary ducts (e) Of the pancreas (f) Of the pancreas (g) Of other organs (g) Of other organs of the respiratory system (g) Of the lung (e) Of the mediastinum (d) Of other organs of the respiratory system (a) Of the uterus (b) Of the breast (c) Of the breast (d) Of the testicle (d) Of the testicle (d) Of the skin (e) Of the skin (d) Of the female urinary organs (d) Of the female urinary organs (e) Of the bones and joints (f) Of the brain (g) Of the spine and spinal cord
(b) 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 (a) Of the larynx (b) Of the lung (c) Of the uterus (d) Of the uterus (d) Of the uterus (d) Of the breast (e) Of the brain (d) Of the brain (e) Of the prostate gland (d) Of the testicle (e) Of the testicle (e) Of the female urinary organs (e) Of the female urinary organs (f) Of the brain (g) Of the spine and spinal cord
(e) Of the stomach and duo  (e) Of the rectum  (d) Of the liver and biliary  (e) Of the pancreas  (f) Of the peritoneum  (g) Of other organs  (g) Of other organs of the ray of the lung  (e) Of the lung  (d) Of other remale genit  (a) Of the bladder  (b) Of the breast  (c) Of the prostate gland  (d) Of the testicle  (d) Of the eye and orbit  (d) Of the female urlnary of the brain  (d) Of the brain  (e) Of the brain  (f) Of the brain
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(e) Of the stomach and decent of the rectum  (d) Of the liver and bilia  (e) Of the pancreas  (f) Of the peritoneum  (g) Of other organs  (a) Of the lung  (b) Of the uterus  (d) Of other organs of the larynx  (a) Of the uterus  (b) Of the breast  (c) Of the bladder  (d) Of the kidney  (e) Of the esticle  Cancer of the skin  (d) Of the testicle  (a) Of the female urlnary  (d) Of the female urlnary  (e) Of the bones and join  (f) Of the brain  (g) Of the brain
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Foreign Other Nativity A.S.U 6.5 British Canada 20 - 23 Widowed 65 years Married 42-64 years 25-44 years Conjugal Condition 12-24 Years Not Stated 65 years Single 42-64 years S2-44 Aests 12-54 Years Under 15 years 1000 SHHHS 14 6 010 HHO Total Male
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TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1933—Continued

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67 Diseases of the thymus gland 68 Diseases of the adrenals (Addison's disease) Female 7 Female 7 Female 8 Female 8 Female 8 CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING Fotal	e purpura	mia	CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS Male Female	75 Alcoholism Male Female	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE Total ORGANS OF SPECIAL SENSE Hale Female	78 Encephalitis (non-epidemic) Male 79 Simula manifestical	Progressive locomotor ataxia	82 (a) Cerebral haemorrhage Male Male	(b) Cerebral embolism or thrombosis Male Male Female (d) Hemiplegia and other paralysis, cause not specified Male	85 Epilepsy Male Male Re Convulsions (under 5 years of ones)		(e) Other diseases of the nervous system.  Male Female S9 (b) Mastoid process Female Male Female Male

	TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CO	CONJUGAL	CONDITION	OITIO		9 2	Con	AND NATIVITY IN EDMONTON, 1933- Conjugal Condition Single   Married	Con C	dition	MONTO	N. 19		Continued	_ unec		fativity	11_
	CAUSES OF DEATH		Total	Under 15 years	12-54 Aegts	25-44 years	45-64 years	65 years and over Not Stated	15-24 years	25-44 years	45-64 years	65 years and over	Widowed	Canada	British	.A.z.u	Отрет	Not Stated
1	CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM FOR	Total Male Female	123		60.60	6161	00 to es	101	61 61	2 2 2	140 24	9338	312	91 62	146	133	16 28	1111
Se	Diseases of the heart Total M	Male	96	1	60	63	NO P	10 +			213	13.	14	44		6.	14	-
ric		Male Female	7	111			7 ] ]	4	111	-	37	2000			2			
iro	Acute endocarditis Fr Chronic endocarditis, valvular diseases	Male Female Male	17 2	111	- 2		1 0	111	111		1 1 1 1 1	-			- 10	- 10		111
555	Diseases of the myocardium M	Female	29	11	11		-	4	01	0.0	94	11.2	101-		1010	**	00 00	
_	(a) Diseases of the coronary arteries	Female Male	200	11	11	11		-	1 1	-		-	00		00 01			11
_	(b) Embolism and thrombosis of coronary arteries	Female Male	252	11	11	11	-	-	11	.00	16	.00	03 00 0	182	01000	.00		11
-	(c) Angina pectoris	Male	000	11	11		11	11	11	-	-	-	2-		2 =	2	-	11
he	Other diseases of the heart M	Female	- 63	11	11		11	11	11				-	_	. 01	-	-	
el	Aneurysm (other than of the heart)	Female Male	40	-	11	TI	11	11	1 1	!!	!!	27 ==			21	-		
te	Arteriosclerosis (of coronary arteries excepted)	Female Male	17	11	H	11	H	60	11		10	9				64	11	11
But	Gangrene	Male	2003	11	II	11	11	11	11			N	-61		91	21		
sea	Diseases of the veins (varices, haemorrhoids, phlebitis, etc.) M	Female Male	-	11	11	11	11	11	11		11'	11	-		1 1	11	11	11
iop	Idiopathic abnormalities of blood pressure	Male Female	127	111	11	11	-	61		-	196		0100		100	- 636	.01-	11
			-							-	-		-	_	_	_		-

19     2     2     1     1     1     5     7     3     11     29     14     5     3       10     2     2     1     1     2     2     1     11     2     1       10     2     2     1     5     12     3     3     2		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1 1 3 2 1 1 4 3 3 1 1 1 4 3 3 1 1 1 1 1 1 1 1 1	1	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 2 1 2	27         7         8         6         1         2         16         21         6         11         54         22         9         20           9         6         8         6         1         1         5         12         2         5         25         13         4         13           18         1         1         1         1         9         4         6         29         9         5         7		7	1 2 1 3 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 3 2 1	9 1 2 2	1 1 1 1 1 1 3 1	2 7				1 1 1 1 1	1	1 4 1 1 2 1 2	
CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM   Female   20 1	(b) Bronchitis, chronic	21:	11	Pneumonia (not specified)	4	1		CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM Male 55 2 1 Female 50 1		41-	(b) Ulcer of the duodenum Male 5	9	99	Female	Female	(b) Intestinal obstruction Male 3		(a) Cirrhosis of the liver (alcoholic)		Other diseases of the liver 2		Other diseases of the gall-bladder and biliary passages Male 1	Peritonitis, cause not specified Temale 1 Remale 2
CLASS VIII.—DE	106 (b) Bron	107 (a) Bror	108 Lobar p	109 Pneumor	110 Pleurisy	112 Asthma		CLASS IX.—DIS	115 (b) Disc	117 (a) Ulce	(b) Ulce	119 Diarrho	120 Diarrho	121 Appendicitis	122 (a) Hernia	(b) Inte	123 Other d	124 (a) Cirr	(b) Clrr	125 Other d	126 Biliary calculi	127 Other d	129 Peritoni

TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1933—Continued

1		Not Stated			1 1	11	11	11	11	111	1					
×	gn	Other	21-1-1		11	H	11	H	11	1 17	1					
Nativity	Foreign	.A.2.U	9101	-	1 10	2-1			11	100	-			-	н	
Na		British	101	7		410	11	1	н	10	-		-		-	
	-		20 20 6	-		000	-	1 0	1	-=	10			63	-	-
-		Canada	48.9	-	-	9	1 1						_	_	-	==
		Widowed	-										-	-		
	75	65 years			116				,	6			-		-	
	Married	42-64 years	= 000		116	101	1		-	4			-			
ion	Ma	25-44 years	2014		117		-			-	4		-	-	-	-
ndit		15-24 years			11						61			2	T	
Co		Not Stated									1		-	-	-	-
Conjugal Condition	le	65 years	44		1 1	1				63	ī	-	1	-	1	-
Con	Single	45-64 years			11					н		1	T	1	-	1000
		25-44 years			115	1				11	T		1	T	1	-
		15-24 years	21-1-1		11					11	T	T		T	-	-
	s.	Under 15 year			-				T	II				-	1	
		Total	36			10		- 63	-	19		-	-	- 63	1	-1
-													-	1	1	- 1
			و		e	e	9	e	9	e			9	40		40
			Total Male Female	Meda	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Total	Female	Female	Female	Female	Female
-	1		HZH	Jo	E PE	FE	FE	FE	HE	MA		4	1	F	F	Fe
		CAUSES OF DEATH	CLASS X,-DISEASES OF THE GENITO-URINARY SYSTEM	Acute nephritis (including unspecified, under 10 years	Chr			Calculi of the urinary passages	Diseases of the bladder (tumours excepted)	Diseases of the prostate	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	(b) Ectopic gestation (without septic conditions)	(b) Puerperal haemorrhage	Puerperal albuminuria and eclampsia	Other toxaemias of pregnancy	(b) Puerperal embolism
			CLASS	130	131	132	133	134	135	137	CLASS	142	144	146	147	148

1 2 1 2 2 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 2			1 4 1		4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		33.85	1
								111	
12.0	2	n .	11	4 1 2 2 2	1 31	14 14 9 9 9	23311	28 28 32 38	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
SUE Total Male Female	Male	Female Male Female the cellular	Female	S OF Total Male Female	Male Female Male Female	Total Male Female	Male Female Male Female Male Female	Total Male Female	Male Female Male Female Male Female Male Male Male Female Male Female Female
CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE	Carbuncle	Cellulitis, acute abscess Other diseases of the skin and annexa and of the c	MASSING	XIII.—DISEASES OF THE BONES AND ORGANS LOCOMOTION	Osteomyelitis Other diseases of the bones (tuberculosis excepted)	CLASS XIV.—CONGENITAL MALFORMATIONS	(b) Spina bifida and meningocele (c) Congenital malformations of the heart (e) Others under this title	CLASS XV.—DISEASES OF EARLY INFANCY	Congenital debility Premature birth  (b) Injury at birth  (a) Atelectasis  (e) Other diseases peculiar to early infancy
S XII	151 Carl	152 Cell 153 Othe		CLASS XIII.	154 Oster 155 Othe	S XIV.	(c) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	S XV.	158 Cong 159 Pren 160 (b) 161 (a)

TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1933—Continued

Conjugal Condition	Single Married	Total Under 15 years 15-24 years 65 years and over 15-24 years 65 years and over 15-24 years 65 years and over Widowed U.S.A. U.S.A. Other	Total 12	and over) Male 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ATHS Temale 51 11 12 5 1 1 5 8 5 3 30 9 4 6 2 Male 36 8 8 5 1 1 1 5 6 1 1 22 5 2 5 2 5 2 Female 15 3 4 5 1 1 5 6 1 2 8 4 2 1 2	Total Male 8 3 1 1 2 3 1 2 .	by absorption of	Female 2 1 1 1 1 1 1	Female I I I I I I I I I I I I I I I I I I I	Male 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Nale 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Male 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Female	26 7 8 2 1 4 2 1	Female 15 3 4 2 8 4
		CAUSES OF DEATH	CLASS XVI.—SENILITY	162 (a) With senile dementia (70 years and over)	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	171 Sulcides	æ	164 Suicide by poisonous gas	166 Suicide by drowning	167 Suicide by firearms	168 Suicide by cutting or piercing instruments	169 Suicide by jumping from high places	175 Homicides	174 Homicide by cutting or piercing instruments	198 Other violent deaths	170 Other courts considered and constant to the court
			CLA		CLA	163-171							173-175		176-198	

181 A 183 A 184 A 185 A 186 A 188 Ir 194 O CLASS XI	181 Accidental burns (conflagration excepted) 183 Accidental drowning 184 Accidental injury by firearms 185 Accidental injury by cutting or piercing instruments 186 Accidental injuries resulting from falling, crushing or landslide 188 Injuries inflicted by animals 194 Other accidents  CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH 199 Sudden death	Male Female Male Female Female Female Male Female Female Female Female Female Male Female Female Male Female Male Female Male Female Male	2000-4  -   45-	80 H 8H	1 2 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11111111 111111 111 11		1111-111 1111111111111	11111111 0 11111 111 11				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	11111111 1111111111111111
A Acc B Acc C Rai D Str E Aut F Oth G Wa	Accidents in mines and quarries  Accidents in mines and quarries  Accidents caused by machines  Railway accidents  Street car accidents  Automobile and motorcycle accidents  Water transportation  Air transportation	Male	T 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1		Д	RECE	DING	THE PRECEDING TABLE),	BIE	, E	MONO TI	NOT	EDMONTON, 1933			

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1933

18	Epidemic cerebrospinal meningitis	Male		1				-	-	-				
23-32	Tuberculosis	Female Male	30.1	10		-	4	II	1 1	11.		1 1		
23	Tuberculosis of the respiratory system	Female Male	24	- 4	000	1	. 4	4	-	, v	100	2010	.00	
24	Tuberculosis of the meninges and central nervous system	Female Male	10	-		64		1	1 15	F 60		101	61	
22	Tuberculosis of the intestines and peritoneum	Female Male	9	-		1 1		1	• 1	-	-		11	
30	Tuberculosis of the genito-urinary system	Female Male	87			-		-			-		11	
32	(a) Disseminated tuberculosis (acute)	Female Male											11	
	(b) Disseminated tuberculosis (chronic)	Female Male						Т				11	11	
34	Syphilis	Female Male	- 9										-	
36	Purulent infection, septicaemia (non-puerperal)	Female Male	0.01	1	-		11	4		TI	11		-	
43	Mycoses	Female	010				11-	1 1			11			
		Female					4 11	1	II	II	11		11	
CLASS	CLASS II.—CANCER AND OTHER TUMOURS	Total Male Female	158 96 62	15	21 6 8	9 13	10 12	21 80 4	=	12	17 27	133	2128	
45-53	Cancer and other malignant tumours Total	Male	91	00						2 1			+ 0	
45	Cancer of the buccal cavity and pharynx	Female Male	200	9	10	9	4	4	- 47	- 10 -	200	9	0 02 -	
46	(a) Of the oesophagus	Female Male	1				11-		II	•			4	
	(b) Of the stomach and duodenum	Female Male	27	61	7	20.00	-		0		11	110	1 1*	
	(c) Of the rectum	Female Male	00 00	(0)		-		3	3 -	- I		4	1	
	(d) Of the liver and biliary ducts	Female Male	4.9						1	-	111		1 1	
	(e) Of the pancreas	Female Male	014		1		I	-		1 1			• [•	
	(f) Of the peritoneum	Female Male	-	-	I			1			•		1	
	(g) Of other organs	Female Male	14	.01		61	0					11	1.1	
47	(a) Of the larynx	Female Male	10	11	67	61					1	1		
	(b) Of the lung	Female Male Female	.e.	TI	11	11	H	-	-	-		MI	111	
			-	Time.	1		-	-	-	-	T	-	4111	1

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1933.—Continued

mper	Dece	1	1115	- 1	1	1	101	1	:	-	1	-	1	1	1	H	11	11	11	*****
mper	Nove	1		1	. 1	-			1	1	1	ı	1		1	11	1	11	11	-
per	Octol	1	111		T	-	1	61	1	1	1	014	1	-	1	010	9	11	11	-
вшрец	Septe					-	-		1	1	T	П	H	11	1	-	11	II	11	
tsı	ngny				1		4	T	-	1	-	i ir	1		T	11	III	II	11	7
HS HS	ing	1	111		-	-	1	T	T	I	T	27-	-	1	1	-	II	11	III	
L'N	nue		1117	- 67		1		1	-	1	-	-	II	II	T	-	11		11	
N	May	-1	1111		I			61	1			6.5	1 1	H	1	П	11	-	F	-
	HapA		111		-	-	1	1	1	1	г		11	11	1	11	11		11	-
	Marc	1	1111		-	1		1	1	1	п	11.	1	II	-	111	- 1	11	11	
	Febru		III				11		1	1	1		4 [	-	1	11		11	H	-
-	enuer	-		+	1	-	-	1	1	1	17	103	11		1	61	II	11	11	
		-	- 10	0 4	63	0	010	9	63	1	60 =	131	1 0	101	н	00 0	10	-		1
	Total		111			-			-	-			11					11	11	
		Male	Male Female	Female	Female	Male	Male	Male	Male	Male	Male	Male	Male	Female	Male	Male	Male	Female Male	Male	remare
CAUSES OF DEATH		(c) Of the mediastinum	(d) Of other organs of the respiratory system		49 Cancer of other female genital organs	50 Cancer of the breast	51 (a) Of the bladder	(b) Of the kidney	(c) Of the prostate gland	(d) Of the testicle	52 Cancer of the skin	53 Cancer of other or not specified organs	(a) Of the eye and orbit	(d) Of the female urinary organs	(e) Of the bones and joints	(f) Of the brain	(g) Of the spine and spinal cord	(h) Of the neck	(i) Of the abdomen	

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1
Male Female Male Female Female Female Female Female Female Female	Male         2         1           Female         1         1           Female         1         1           Female         2         2           Female         2         2	20 6 6 14	9 9 9	Female   1	Total   14   1
ified organs er nours Total	(d) Of the brain Max (e) Of the thyroid gland Max (g) Of other or unspecified sites Max Fe	CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER Total GENERAL DISEASES Fema 56 Acute rheumatic fever	Chronic rheumatism, osteo-arthritis  Diabetes mellitus  (a) Simple goitre	(b) Exophthalmic goitre Man	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING Total ORGANS         Total ORGANS         Male Fema           70 (a) Simple purpura         Male Fema         Fema           71 (a) Pernicious anaemia         Fema Fema           72 (a) Leukaemia         Fema Male Fema

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1933—Continued

							Me	MONTHS					
	CAUSES OF DEATH		Total	Lebruary .	Магећ	lindA	Мау	aunc	July	September	October	November	Decemper
CLASS	V.—CHRONIC POISONINGS AND INTOXICATIONS	ale			111		111	-111					
125	Alcoholism Male Female	ale		II	1.1	11	11	11	TE		11		
CLASS	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE Total ORGANS OF SPECIAL SENSE Remaie Female	ale	33 16	040	33.6		8-8	2==	61 61	001-		400	0101
78	Encephalitis (non-epidemic)		- 1	1	100		- 1			-	-		****
62	Simple meningitis	ale		11		H	1.1	T	TI	-	11	-	11
80	Progressive locomotor ataxia	ale	N	-				11	11	11			
82	(a) Cerebral haemorrhage	ale	001	01	3	11	H	TI	11	11		1	-
	(b) Cerebral embolism or thrombosis Male	ale		-	-	11	-	-	-		-		
	(d) Hemiplegia and other paralysis (cause not specified) Male	ale	- 1	1.1			TI	11	11			-	11
84	(b) Dementia praecox and other psychoses	ale e	-			11	11		T	11			1.1
85	Epilepsy	ale	0101		-	11	1			-			
86	Convulsions (under 5 years of age)	ale			-								-
87		ale	-							-			1
	the nervous system	ale					-	1					
88	(b) Mastoid process	ale		-			I	•					
3	manufacture (a)	ale	11	4		TI	T	II	-				11

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1933.—Continued

1	Decemper	1201	-	1 1*	1	11	-	61		11			11	11	-	11	111	21-	11
	November	10 61 60		-	H	11	- :		-					11	11	1.17	7	0101	
	October	11 9 2	T	-	-	H	61	11	12	-			H	H	11	60		900	
	September	0044	T	1	H	11	-	-	63	1				-	III	-	FI	40-	TI
	August	102	1	7	11	1		.00	-	. 62	-	-		11	11	11	111	60 60	
CHS	July	6117	T	11	H	11		11	10				-	TI	11	H	T	010-	
MONTHS	əung	21-12	1	7	II	1	61	60	2				-			11	117	940	1
	May	11	T	1	-	-	11	60			. 2			-	11	61		1-100	1
	lingA	00 00 10	c	4	H	11	- :	-	21	-				11	11	11		40-	
	March	90 69 10	-	-	11	11	11	-	10						11	-		40-	T
	February	F-400		-	H	1	11							1	11	II	T	40-	-
	Tannat	0410		-	11	7	2	63	61		-			11	11	11		816	1
1	Total	105	1	*1	- 10	00 00	99	171	22,	-00	000	-	27	-62	-	1 6	2 2	36	
		Total Male Female	Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female	Female	Female	Female Male	Female Male	Female Male	Female Male Female	Total Male Female	
	CAUSES OF DEATH	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	115 (b) Diseases of the tonsils	117 (a) Ulcer of the stomach	(b) Ulcer of the duodenum	119 Diarrhoea and enteritis (under 2 years of age)	120 Diarrhoea and enteritis (2 years and over)				123 Other diseases of the intestines			125 Other diseases of the liver	126 Biliary calculi	127 Other diseases of the gall-bladder and biliary passages	129 Peritonitis, cause not specified	CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM	130 Acute nephritis (including unspecified, under 10 years of age)

131	Chronic nephritis	Male	13	-	-	2	1	1	63	T	1	00	-	-
132	Nephritis not specified (10 years and over)	Male	10		-	11	24	77	H	1 1	-	-	11	
133	Other diseases of the kidneys and ureters	Female		11	-	11	11	11				-		1
134	Calculi of the urinary passages	Female Male	- 63	11	1		-							-
135	Diseases of the bladder (tumours excepted)	Female Male	-	11	11		11	11	11			-		
137	Diseases of the prostate	Female Male	19		1		6.0	60	60	6.0	63	TI	-	
CLASS	XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	Total	7		64		7, 1	63		-			-	
142	(b) Ectopic gestation, without septic conditions	Female	1		-	100	-		-					
144	(b) Puerperal haemorrhage	Female	-			-		-				-	1	
146	Puerperal albuminuria and eclampsia	Female	6.0	-		1	77	63		-	-	-		9
147	Other toxaemias of pregnancy	Femäle	-	-	-	-	1	-	-	1	-			
148	(b) Puerperal embolism	Female	1	-	-	-		-		-				
CLASS	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE	Total Male Female	9101		111		111		-111	111	6161			111
151	Carbuncle	Male	23								-	-		
152	Cellulitis, acute abscess	Female Male	61					-			-			
153	Other diseases of the skin and annexa and of the cellular tissue	Female Male	-	-		1	1	1	1-	1	1			
		Female		1 1		-		II			11		11	11
CLASS	XIII.—DISEASES OF THE BONES AND ORGANS OF TOCOMOTION	Total Male Female	10 4-			118			27	61 61				11
154	Osteomyelitis	Male	1				-	-	-	-	-			
155	Other diseases of the bones (tuberculosis excepted)	Female Male Female	es ==				IIII	-11	-					
CLASS	XIV.—CONGENITAL MALFORMATIONS	Total Male Female	4100	112	211	61 61		111	27	111		2	111	211
157	(b) Spina bifida and meningocele (c) Congenital malformations of the heart	Male Female Male Female			1117	1110	TITE	1111	TITE	1111		1111		Hee

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1933.—Continued

			-				N	MONTHS	S				
	CAUSES OF DEATH	in fals	Total	February	Матећ	lindA	Мау	aung	July	September	October	November	December
	(e) Others under this title	Male Female	63.64		-	1	11	11					
CLASS	CLASS XV.—DISEASES OF EARLY INFANCY	Total Male Female	888	600	200	001000	400	9 + 2	99	F= 60 =#	4-0	01 01	21 21
158	Congenital debility Premature birth	Male Female Male	19		01-		H	101-	- 4	000		1 1 1"	111
160	(b) Injury at birth (a) Atelectasis	Male Female Male	4400		•			2	-	9			61
	(e) Other diseases peculiar to early infancy	Female Male Female	877					111		- 11		-	
CLASS	CLASS XVI.—SENILITY P	Total Male Female	12					400			111	0101	
162	(a) With senile dementia (70 years and over)	Male Female Male Female	6 410	THE				2	-	1111			
CLASS	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	Total Male Female	36	8-8	10 01 00	1-1001	10 00 01	2121	9151	1-1-	40-	2 2	10 00 01
163-171	Suicides	Male Female	90	1		3	-	-		-			-
163	Suicide by solid or liquid poisons or by absorption of corrosive substances	Male	-			-							
164	Suicide by poisonous gas	emale ale	. 23	11	11	-	T	-	-1	-1	-	-	
166	Suicide by drowning	remale Male Female	7					111		-		111	

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	PRECEDING
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2 1 1 2 2 25.5 1 1 2 2 2 1 1 1 2 2 2 2 1 1 1 1 1 1 1	N THE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ALSO IN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The state of the s	TUDE INC.
Male Female Male Female Female Male Male Male Male	Female  Male Female Male Female Male Female Male Female Female Male
167 Suicide by firearms  168 Suicide by cutting or piercing instruments  169 Suicide by jumping from high places  173-175 Homleides  174 Homicide by cutting or piercing instruments  176-198 Other violent deaths  176-198 Other acute accidental poisonings (except by gas)  177 Accidental drowning  187 Accidental injury by firearms  188 Accidental injury by cutting or piercing instruments  189 Accidental injuries resulting from falling, crushing or landslide  180 Other accidents  191 Other accidents  192 Sudden death  193 Sudden death	Accidents in mines and quarries 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
Suicide by firearms  Suicide by cutting or  Suicide by jumping fr  Homicides  Homicides  Homicide by cutting of  Other violent deaths  Other acute accidental  Accidental burns (cor  Accidental injury by  Accidental injuries r  landslide  Injuries inflicted by a  Other accidents  Sudden death	Accidents in mines an Accidents in mines at Accidents caused by Railway accidents Street car accidents Automobile and mote Other land transportation Air transportation
167 8 168 8 169 8 173-175 1 176-198 0 176-198 0 181 1 183 1 184 4 185 4 186 4 186 4 188 1 194 0 199 8	H A St A St A A A A A A A A A A A A A A A

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TABLE 23.—CAUSES OF DEATH BY AGE AND SEX. IN CALGARY. 1933

	CAUSES OF DEATH	EATHS—ALL CAUSES	LASS L-INFECTIOUS AND PARASITIC DISEASES	I Typhoid fever		9 Whooping cough	10 Diphtheria	11 Influenza Total	(a) Sole cause	(b) With bronchitis	(c) With pheumonia	(d) With other respiratory diseases	(e) With intestinal complications	(f) With other causes	15 Erysipelas	
		Total Male Female	Total Male Female	Male Female Male	Female	Male	Male Female	Total Male Female	Male	Male Female	Female	Male	Male	Male	Female	Female Male Female
	IstoT	708 414 294	2222			63	11	12	2		- 4	-	-	4	4	52
	Under I year	252	104-	111	11	67	11		TT	11	11	1	1	11	11	TI
	Z years	049	21-1			TI		-		11	11		-	1	-	
	3 years	1 1	400	Hill		11		1 2		11	4 1				2	-
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17 Epidemic or lethargic encephalitis  18 Epidemic cerebrospinal meningitis  22 Tetanus  23 Tuberculosis of the respiratory system  24 Tuberculosis of the meninges and central nervous  25 System  26 Disseminated tuberculosis  37 Co Disseminated tuberculosis  38 Syphilis  39 Gonococcus infection and other venereal diseases Male  30 Purulent infection, septicaemia (non-puerperal)  30 Female  31 Female  32 Female  33 Female  34 Female  45 Female  56 Female  57 Female  58 Female  68 Female  70 Female  70 Female  70 Female  70 Female	Total	Cancer of the buccal cavity and pharynx Male Female (a) Of the oesophagus Male Female (b) Of the stomach and duodenum Male	Of the liver and biliary ducts Female Of the pancreas Of the pancreas Male Female Male	the respiratory system	(b) Of the cervix uteri Female Cancer of other female genital organs Female
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TABLE 23.—CAUSES OF DEATH BY AGE AND SEX, IN CALGARY, 1933—Continued

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	CAUSES OF DEATH	50 Cancer of the breast 51 (a) Of the bladder	(b) Of the kidney	(e) Of other male genito-urinary organs	52 Cancer of the skin 53 (c) Of the glandular system (d) Of the female urinary organs	(f) Of the brain (h) Of the brain (i) Of the abdomen (j) Of other specified organs (k) Multiple cancer (k) Multiple cancer (a) Of the ovary (b) Of the thyroid gland (c) Of the thyroid gland (d) Tumours of the brain, nature not specified
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E Total 19 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Male 4	Female A Male 4	Female 4	Female Male	Female 1	Female 2 2 Male 1 1	Female Male Female 2	Total 10 Male 8	Female Z	Female 1 Male	Female 1 Male 4 Female Female 1	AND INTOXICA- Total	Female	Male 1 Female 1	OF THE NERVOUS SYSTEM Total 33 1 ORGANS OF SPECIAL SENSE Male 19 1	-epidemic) Male 2 Female 1 1	Female 1 Female Female 2 Female 2

TABLE 23.—CAUSES OF DEATH BY AGE AND SEX, IN CALGARY, 1933—Continued

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	90-94 years	
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1	70-74 years	10
	65-69 years	77
	60-64 years	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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AGES	45-49 years	111111111111111111111111111111111111111
AG	40-44 years	
	32-39 years	
	30-34 years	**************************************
	S2-S9 years	
	20-24 years	
	15-19 years	
	10-14 years	
	2-9 years	
	4 years	
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	CAUSES OF DEATH	Cerebral haemorrhage  Dementia praecox and other psychoses epsy  Neuritis  Disseminated sclerosis  Other diseases of the nervous system  Otitis  Mastoid process  Acute endocarditis  Acute endocarditis, valvular diseases  Acute myocarditis and myocardial generation  Myocarditis, unspecified, 45 years and biseases of the coronary arterles.  Embolism and thrombosis of coronary ar
		(a) (b) (b) Dise (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
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Angina pectoris  Other diseases of the neurysm (other than of teriosclerosis (of corons ingrene her diseases of the arte topathic abnormalities of the arternative of	I.—DISEASES OF TH STEM seases of the nasal fo	) Bronchitis, chronic ) Bronchopneumonia bar pneumonia	thma ) Other diseases of the (tuberculosis excepted)	-DISEASES OF THE	Diseases of the tonsils  Diseases of the pharynx  Ulcer of the stomach  Ulcer of the duodenum her diseases of the stoma
(c) Angina pectoris (b) Other diseases of the heart Aneurysm (other than of the heart) Arteriosclerosis (of coronary arteries excepted) Gangrene Other diseases of the arteries	VIII.—DISEASES OF THE RESPIRATORY SYSTEM  Diseases of the nasal fossae and annexa.	(b) Bronchitis, chronic (a) Bronchopneumonia Lobar pneumonia	Asthma (c) Other diseases of the respiratory (tuberculosis excepted)	IXDISEASES OF THI	(b) Diseases of the tonsils
(c) Angina pectoris  95 (b) Other diseases of the 96 Aneurysm (other than of 97 Arteriosclerosis (of corons 98 Gangrene 99 Other diseases of the arte	CLASS VIII.—DISEASES OF TH SYSTEM 104 Diseases of the nasal fo	<ul> <li>(b) Bronchitis, chronic</li> <li>(a) Bronchopneumonia</li> <li>Lobar pneumonia</li> </ul>	110 Pleurisy 112 Asthma 114 (c) Other diseases of (tuberculosis excep	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	(c) Diseases of the tor (d) Diseases of the pharmonic (e) Ulcer of the stomac (b) Ulcer of the duode (lab) Other diseases of the stomac

TABLE 23.—CAUSES OF DEATH BY AGE AND SEX, IN CALGARY, 1933—Continued

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	80-84 years	
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		Diarrhoea and enteritis (under 2 years of age) Diarrhoea and enteritis (2 years and over) Appendicitis  (a) Hernia (b) Intestinal obstruction Other diseases of the intestines Cirrhosis of the liver Biliary calculi Other diseases of the gail-bladder and bilian passages Diseases of the pancreas  Ex.—DISEASES OF THE GENITO-URINAR SYSTEM Acute nephritis (including unspecified, unde 10 years of age) Chronic nephritis Nephritis, not specified (10 years and over) Other diseases of the kidneys and ureters Calculi of the urinary passages
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Diseases of the bladder (tumours excepted)  (a) Stricture of the urethra  Diseases of the prostate  (a) Diseases of the ovary, Fallopian tube and parametrium  XI.—DISEASES OF PREGNANCY, CHILDBIRTH  AND THE PUERPERAL STATE  Total  11	(a) Abortion (with septic conditions) Female 1 (b) Self-induced abortion (with septic conditions) Female 3	Abortion without mention of septic conditions Female 1	(a) Puerperal septicaemia (not specified as consequent upon abortion)	Other toxaemias of pregnancy Female 3	(a) Puerperal phiegmasia alba dolens and thrombosis  (b) Puerperal embolism Female 1	XII.—DISEASES OF THE SKIN AND CELLULAR Total 3 TISSUE Hale 1 Female 2	Cellulitis, acute abscess 1 Female 1	Other diseases of the skin and annexa and of Male the cellular tissue Female 1	XIII.—DISEASES OF THE BONES AND ORGANS Total  OF LOCOMOTION  Remale	(a) Diseases of the joints Male 1	Total 8 Male 5 Female 3	(a) Congenital hydrocephalus Remale 2 1
Male   Hemale   1	Abortion (with septic conditions) Female 1 Self-induced abortion (with septic conditions) Female 3	mention of septic conditions Female 1	Puerperal septicaemia (not specified as con-	Female 3	Puerperal phiegmasia alba dolens and throm-Female 1  Puerperal embolism Female 1	le 3	Cellulitis, acute abscess 1 Female 1	Male Female 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Male 1	. 32:8	Male 2 1 Female

TABLE 23.—CAUSES OF DEATH BY AGE AND SEX, IN CALGARY, 1933—Continued

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Suitcide by Huseins   Suitcide by Huseins   Suitcide by Jumping from high places   Maile   1	THE PROPERTY OF	7111111111	ECE	7   1   7   1   1   1   1   1   1   1
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Suitclee by Integrins   Suitclee by Integrins		A1		
Suicide by Jumping from high places   Maie   1   4   1   4   1    Homicide by Iterarms   Maie   2   4   1    Accidental absorption of toxic gases   Maie   1   1   4   1    Accidental burns (conflagration excepted)   Female   2   1   1    Accidental injuries resulting from falling, crush   Female   1   1   1    Accidental injuries resulting from falling, crush   Female   1   1   1    Accidental injuries resulting from falling, crush   Female   1   1   1    Accidental injuries resulting from falling, crush   Female   1   1   1    Accidental injuries by animals   Female   1   1   1    Accidental injuries resulting from falling, crush   Female   1   1   1    Accidental injuries resulting from falling, crush   Female   1   1   1    Accidental injuries accidents   Female   1   1   1    Accidental injuries and quarries   Female   1   1   1    Accidental injuries accidents   Female   1   1   1    Accidental injuries   Female   1				
Suicide by Irrearns  Suicide by Irrearns  Suicide by Irrearns  Homicide by Irrearns  Homicide by Irrearns  Homicide by Irrearns  Accidental absorption of toxic gases  Accidental burns (conflagration excepted)  Female  Accidental injury by Irrearns  Accidental injury by Irrearns  Female  Accidental injury by Irrearns  Accidental injury by Irrearns  Female  Accidental injury by Irrearns  Accidental injury by Irrearns  Female  Accidental injury by Irrearns  Accidental injury by Irrearns  Accidental injury by Irrearns  Female  Accidental injury by Irrearns  Accidental injuries resulting from falling, crush  Male  Female  Accidental injuries resulting from falling, crush  Male  Female  Accidental electric shocks  Female  Female  Accidents in mines and quarries  Accidents caused by machines  Female  Female  Automobile and motorcycle accidents  Male  Female  Female  Female  Automobile and motorcycle accidents  Male  Female  Female  Female  Female  Automobile and motorcycle accidents  Male  Female  Female  Female  Female  Female  Automobile and motorcycle accidents  Female  Fem			0.00	
Suicide by Irrearms  Suicide by Irrearms  Suicide by Irrearms  Homicide by Irrearms  Homicide by Irrearms  Homicide by Irrearms  Accidental absorption of toxic gases  Remale  Accidental burns (conflagration excepted)  Remale  Accidental injury by firrearms  Male  Female  Accidental injury by firrearms  Male  Female  Cause of death not specified or ill-defined  Accidents in mines and quarries  Emale  Accidents caused by machines  Emale  Accidents caused by machines  Emale  Automobile and motorcycle accidents  Male  Female  Automobile and motorcycle accidents  Male  Female  Automobile and motorcycle accidents  Male  Female  Male  Female  Female  Automobile and motorcycle accidents  Male  Female  Automobile and transportation  Male  Female  Female  Female  Male  Female  Female  Female  Automobile and motorcycle accidents  Male  Female  Automobile and motorcycle accidents  Male  Female  Female  Automo	4		ALS	
Suicide by Impaing from high places  Suicide by Jumping from high places  Homicide by Ifrearms  Accidental absorption of toxic gases  Accidental absorption of toxic gases  Accidental burns (conflagration excepted)  Accidental injuries resulting from falling, crushing or landslide and or landslide and male  Accidental injuries resulting from falling, crushing or landslide and male  Accidental electric shocks  Accidental electric electric shocks  Accidental electric electri			- 0	
Suicide by Impaing from high places  Suicide by Jumping from high places  Homicide by Ifrearms  Accidental absorption of toxic gases  Accidental absorption of toxic gases  Accidental burns (conflagration excepted)  Accidental injuries resulting from falling, crushing or landslide and or landslide and male  Accidental injuries resulting from falling, crushing or landslide and male  Accidental electric shocks  Accidental electric electric shocks  Accidental electric electri			- 8	
Suicide by Impaing from high places  Suicide by Jumping from high places  Homicide by Ifrearms  Accidental absorption of toxic gases  Accidental absorption of toxic gases  Accidental burns (conflagration excepted)  Accidental injuries resulting from falling, crushing or landslide and or landslide and male  Accidental injuries resulting from falling, crushing or landslide and male  Accidental electric shocks  Accidental electric electric shocks  Accidental electric electri		1411111111	5	
Suicide by Jumping from high places  Homicide by Jumping from high places  Homicide by Jumping from high places  Accidental absorption of toxic gases  Accidental absorption  Accidental a		1111111 111		
Suicide by jumping from high places remains  Suicide by jumping from high places remains  Homicide by firearms remains  Accidental absorption of toxic gases remains  Accidental burns (conflagration excepted)  Accidental injuries resulting from falling, crush remains  Accidental injuries resulting from falling, accidental fremains  Accidental absorption of toxic gases  Accidental absorption o	1111117 111111111111		HS	
Suicide by jumping from high places remains  Suicide by jumping from high places remains  Homicide by firearms remains  Accidental absorption of toxic gases remains  Accidental burns (conflagration excepted)  Accidental injuries resulting from falling, crush remains  Accidental injuries resulting from falling, accidental fremains  Accidental absorption of toxic gases  Accidental absorption o			AT	
Suicide by Integrans  Suicide by Jumping from high places Homicide by firearms Other violent deaths  Accidental absorption of toxic gases Other acute accidental poisonings (except by gas Accidental drowning Accidental drowning Accidental injuries resulting from falling, crush ing or landslide Injuries inflicted by animals Accidental electric shocks Accidental electric shocks  XVIII.—ILL-DEFINED CAUSES OF DEATH  SAULT Accidents in mines and quarries  Accidents in mines and quarries  Accidents caused by machines  Street car accidents Automobile and motorcycle accidents Other land transportation  Water transportation  Air transportation	1 8 1 884 1 188 8	22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 2 1 2
Suicide by Integrans  Suicide by Jumping from high places Homicide by firearms Other violent deaths  Accidental absorption of toxic gases Other acute accidental poisonings (except by gas Accidental drowning Accidental drowning Accidental injuries resulting from falling, crush ing or landslide Injuries inflicted by animals Accidental electric shocks Accidental electric shocks  XVIII.—ILL-DEFINED CAUSES OF DEATH  SAULT Accidents in mines and quarries  Accidents in mines and quarries  Accidents caused by machines  Street car accidents Automobile and motorcycle accidents Other land transportation  Water transportation  Air transportation			TAI	
Suicide by Integrans  Suicide by Jumping from high places Homicide by firearms Other violent deaths  Accidental absorption of toxic gases Other acute accidental poisonings (except by gas Accidental drowning Accidental drowning Accidental injuries resulting from falling, crush ing or landslide Injuries inflicted by animals Accidental electric shocks Accidental electric shocks  XVIII.—ILL-DEFINED CAUSES OF DEATH  SAULT Accidents in mines and quarries  Accidents in mines and quarries  Accidents caused by machines  Street car accidents Automobile and motorcycle accidents Other land transportation  Water transportation  Air transportation	the see see see see see see see see see s	ale ale	ale EN	ale
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TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY, IN CALGARY, 1933

Nativity	Foreign	Widowed Canada British United States Other	148 337 228 65 78 46 197 128 33 56 102 140 100 32 22	2 16 13 6 7 1 19 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	-	23.0		1	100	
	_	65 years and over	108	946		II			11	17	+01		110	21	11	TT		
	Married	42-64 years	64 150 26 105 38 45	25.11			11				9		11'	-	11		-	100
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	100	S2-44 Years	26	1044			11			1 1	1		1 15	1				1000
-	_	15-24 years	88 86 9 18 8 8	6 - 13							101			-			101	-
-		Onder 15 years	08 108 14 69 34 39	37 13							11 12	2	mb			1 .	461	-
-		Total	708	988							-							The same
			Total Male Female	Total Male Female	Male	Female	Female	Female	Female			Female	Female	Female	Female	Female	Female	Male
		CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS L-INFECTIOUS AND PARASITIC DISEASES	1 Typhoid fever	7 Measles	8 Scarlet fever	9 Whooping cough	10 Diphtheria	11 Influenza Total	(a) Sole cause	(b) With bronchitis	(c) With pneumonia	(d) With other respiratory diseases	(e) With intestinal complications	(f) With other causes	15 Freeholse	

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Poliomyelitis and polioencephalitis (acute)  Epidemic or lethargic encephalitis  Epidemic cerebrospinal meningitis  Tetanus  Tuberculosis  Tuberculosis of the respiratory system  Tuberculosis of the meninges and central nervous  (c) Disseminated tuberculosis	34 Syphilis 35 Gonococcus infection and other venereal diseases 36 Purulent infection, septicaemia (non-puerperal) ASS 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  (c) Of the pancreas  (e) Of the pancreas  (g) Of other organs  (g) Of other organs of the respiratory sys  (a) Of the uterus  (b) Of the cervix uteri
16 17 17 18 18 22 23 23 24 32 32 32 32 32 32 32 32 32 32 32 32 32		

Not Stated

Foreign Оффег Nativity United TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY, IN CALGARY, 1933.—Continued 100 British Canada Widowed 65 years 0101 Married 42-64 years 52-44 Acets Condition 15-24 years Not Stated Conjugal 65 years Single 42-64 years S2-44 Acets 15-24 years Under 15 years Total Male Female Male Female Male
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Female
Female Male Female Male Male Female Male Male Male Total the male genito-urinary organs Cancer of other female genital organs CAUSES OF DEATH the female urinary organs (j) Of other specified organs the glandular system the bones and joints the prostate gland thyroid gland Non-malignant tumours Of the abdomen Cancer of the breast (k) Multiple cancer of the skin the bladder the kidney the brain Of the ovary the neck the Of Of Of Of Of Of Cancer jo (a) Of of Of (a) (F) 3 (P) (c) (p) (a) 9 (e) (e) 49 20 52 53 25 51

	4 2 2 2 4 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4	4 1 2 1 3 1	1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 2 2 2 2 2 3 3 2 1 4 4 3 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	-	1	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			33 3 1 1 1 1 4 8 8 7 18 9 2 2 4 14 15 17 4 2 1 18 19 19 19 19 19 19 19 19 19 19 19 19 19	1
Male	Total Male Female	Male Female	Male Female Male	Female Male	Female Male Female	Male Female Male	THE REAL PROPERTY.	Male Female	Male Female Male	Female Male Female	Total Male Female	Male Female	Total Male Female	Male Female Male Female Male
	OTHER		3 0						THE S			-		EMEME
55 (d) Tumours of the brain, nature not specified	CLASS III,—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES	56 Acute rheumatic fever	63 Rickets	66 (b) Exophthalmic goitre		67 Diseases of the thymus gland 69 (c) Other general diseases	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING	PROTECT OF TAXABLE STATES	(a) Leukaemia	(b) Aleukaemia (Hodgkin's disease)	CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS	75 (b) Alcoholism	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	78 Encephalitis (non-epidemic) 79 Simple meningitis 80 Progressive locomotor ataxia

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							Single	le		-	Married	pa	-			Fol	Foreign	
CAUSES OF DEATH				[610]	Juder 15 years	22-44 years	15-64 years	55 years	Not Stated	5-24 years	55-44 years	55 years 55 years	Teve over	Sanada	British	United	Other	Not Stated
81 Other diseases of the spinal cord	M	Male	-		-					-	-	- 01		-		1	-	-
82 (a) Cerebral haemorrhage 84 (b) Dementia praecox and other psychoses	Pe Fe	Male Female Male		101-									21-	লক	-0	0100		01-
	Fe Fe	Female Male Female				-		111						-		111	1 1 1	
87 (b) Neuritis (d) Disseminated sclerosis	Fe	Male Female Male	III	61		111			111	111				111			111	
(e) Other diseases of the nervous system	Fe	Female Male Female Male						TIII	III	III			-	-				
(P)	Fe Fe	Female Male Female		- 12		-				TIT	-		-			-		
CLASS VIIDISEASES OF THE CIRCULATORY SYSTEM		Total Male Female		83.28		1010	7.48	0 10 10	111	-111	01010	981	222	655	33833	1 25 25	15 7 13 8 6	0.000
90-95 Diseases of the heart T 91 (a) Acute endocarditis, valvular diseases 92 Chronic endocarditis, valvular diseases 93 (a) Acute myocarditis and myocardial degeneration (c) Chronic myocarditis, unspecified, 45 years and over (d) Myocarditis, unspecified, 45 years and over 94 (a) Diseases of the coronary arteries	otal	Male Female Male Female Male Female Male Female Male Female Male Male Male Male Male Female Male		25 1455 174 175		4	00     10 mm   1 mm   1 mm	04     H   H   H		Timmin	1000   1011   1111   1111	20 HH N4 HO	Ex 04 -0	88 941148	22 1242 90 1	812 88 199 8	40 0 10	6#: 00

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Con	Single	years	42-64		11	-	15				11	11	1 1	-				-	11
		years	52-44			-								-	1 1				-
		years	12-24	1	11	11	63			11	11	H			1 1		1		11
	S	15 year	Under		40	20	-4	11	T	61	11			(III	11	-	-		
			Total	-	-40	00 00	12	63 64	T	10 01	17	-	-	00 10 1	0-	-	63	58 40 18	64
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				Male	Female Male	Female Male	Female Male	Female Male	Female	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female	Total Male Female	Male Female
-				-	421	44	HA	HA	HA	H PE	44	46		46	46	46	14		
		CAUSES OF DEATH		Other diseases of the stomach	Diarrhoea and enteritis (under 2 years of age)						Cirrhosis of the liver (non-alcoholic)	Other diseases of the liver	Biliary calculi		Diseases of the pancreas	Peritonitis, cause not specified		CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM	130 Acute nephritis (including unspecified, under 10 years of age)
				118	119	120	121	122		123	124	125	126	127	128	129		90	200

131	Chronic nephritis	Molo	186				c						-	1				
132	Nephritis not specified (10 years and over)	Female	120	-	11	I, I	N .	N	11		94.	01 00 1	03 60	0.10	4.0	21	6.0	11
133	Other diseases of the kidneys and ureters	Female Male							11	11	7		-	-	N	TI	H	
134	Calculi of the urinary passages	Female Male							I		i.i.	-			11		11	11
135	Diseases of the bladder (tumours excepted)	Female Male	HH								115	11	1	-		+ -		11
136	(a) Stricture of the urethra	Female Male	-								1			1 1		1	111	11
137	Diseases of the prostate	Female Male	16					64			2	00	4	1			-	
139	(a) Diseases of the ovary. Fallopion tube and parametrium	Female	П	T j		1		-		1	1	1	-	1	, i			
CLASS	XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	Total	=		-	-		-		00			1	10	61	-	62	
140	(a) Abortion (with septic condition)	Female	-														-	
	(b) Self-induced abortion (with septic condition)	Female	60			-		-		00				-	-			
141	Abortion without mention of septic conditions (haemorr-hage included)	Female	-											-				
145	(a) Puerperal septicaemia (not specified as consequent upon abortion)	Female	-			-								•			1	:
147	Other toxaemias of pregnancy	Female	00	-	- 1				-	- 63				101		1		
148	(a) Puerperal phlegmasia alba dolens and thrombosis	Female	-				-	-	-	:				1	-			
	(b) Puerperal embolism	Female	-	I				-	-	-		ī		-	1	1	-	1
CLASS	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE	Total Male Female	87-81	111	111				1.1.1					61		11		111
152	Cellulitis, acute abscess	Male		T.	1	-	-	- 1										
153	Other diseases of the skin and annexa and of the cellular tissue	fale			1		1	1		1		-	1	-	1	-	-	1
		Female	1	III	П	T	11	TE			II	III	TT	11	-	11	11	1.1

TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY, IN CALGARY, 1933.—Continued

		_				Con	Conjugal Condition	Con	lition				_		Nativity	vity	
			S		31	Single			N	Married	pa	_		_	For	Foreign	
CAUSES OF DEATH		Total	Under 15 year	12-24 years	52-44 Aests	42-64 years	end over	Not Stated	25-24 years	42-64 years	65 years and over	Widowed	Canada	British	United	States	Not Stated
CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF T	Total Male Female							1111		-		-111			mm :	111	
156 Diseases of the joints F	Male Female		-		7	H	11	11	11	11	11	1 1					11
CLASS XIV.—CONGENITAL MALFORMATIONS M	Total Male Female		00 10 00			III	III	111			111		-	00 10 00	111		111
157 (a) Congenital hydrocephalus  (c) Congenital malformations of the heart  (e) Others under this title	Male Female Male Female Male	W W W	2 64 2		UIIIII			111111	111111					N 85 N		111111	111111
CLASS XV.—DISEASES OF EARLY INFANCY FF	Total Male Female	26 18 8	26 28 8 8 8		111	III	111	111	-			- 1 1 1	21=	188	111	111	111
159 Premature birth 160 (b) Injury at birth without record of Caesarean operation M F 161 (a) Atelectasis F  (b) Other diseases reculiar to early inference F F	Male Female Male Female Male Female	200000	Neuson .			HHILL		111111				111111		2001010		111111	
-SENILITY	Female Total Male		- 8-	11, 11			11				11 1						
162 (b) Without senile dementia (70 years and over)	Female Male Female					TI	77						<b>H H</b>	-			

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00 00 01	- 65				1	•							-	11	11 6	9						
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Total Male Female	Total Male	Jo	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Total Male	Female Male	Female Male	Female Male	Female	Female Male	or	Female Male	Female	Female	Total	Female	Male	remaie
Total Male Female	Total Male	Jo	Female Male	Female Male	Female Male	Female Male	Female	Female Male		Female Male	Contract Contract	Female Male	Female	Female Male	or	Female Male	Female Male	Female	Total	Female	Male	remaie
	Total Male	absorption of	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male		Female Male	gas)	Female Male	Female Male	Female Male	crushing or	Female Male	Female	Female	Total	Female	Male	remaie
	Total Male	by absorption of	Female Male	Female Male	Female Male	Female Male	Female Male	Female		Female Male	gas)			Female	crushing or	Female	Female Male	Female				remaie
	Total Male	by absorption of	Female Male		Female Male	Female Male					gas)			Female	crushing or	Female Male	Female Male	Female				remaie
	Total Male	by absorption of	Female Male		Female	Female Male					gas)				crushing or	Female Male	Female	Female				remaie
	Total Male	by absorption of		angulation	Female Male	Female					gas)				crushing or							remaie
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	Total	by absorption of		angulation					Total		gas)				crushing or							remaie
	Total	by absorption of		angulation					Total		gas)				crushing or							remaie
	Suicides Total Male	-Suicide by solid or liquid poisons or by absorption of corrosive substances		angulation	Suicide by drowning Male		Suicide by jumping from high places Male			Accidental absorption of toxic gases Male	Contract Contract	Accidental burns (conflagration excepted) Male		Accidental injury by firearms Female Male	or	Injuries inflicted by animals Male	Accidental electric shocks					remaie
CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS   Total Male   Female	Total	by absorption of		angulation					Total		gas)				crushing or				CLASS XVIII III DEFINED CALISPS OF DEATH		200 Cause of death not specified or ill-defined	remaie

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			8	1	Single	gle		M	Married	71			-	[4]	Foreign	-	
CAUSES OF DEATH		Total	Under 15 year	25-44 years	45-64 years	es years	Not Stated	12-24 years	25-44 years	65 years	and over	рэморгм	Canada	British United	States	Not Stated	
A Accidents in mines and quarries	Male	-	-		_					-	-	-	-				
	Female													-			
B Accidents caused by machines	Male	1	-	1	-		-	Till State of the last of the	000	-	-	-		-	-	-	
C Railway accidents	Female	. 6	-	-	-		10	T	-			I	-	-		7	
	Female	1		-					1 1				1	1			
D Street car accidents	Male	-	-	I	-	-	-	1		1		1	1	1	1	1	-
E Automobile and motorcycle accidents	Male	-	11	63	1 1			11	11	10	11		4	-	11	01	1 1
F Other land transportation	Female	1	1	;	-		-	1	1	-	1	1	T	1	1	-	· ·
	Female																
G Water transportation	Male	T	-	-	1		1	1	1	1	T	T	-	-	-		
H Air transportation	Male			1 1			1 :	1 1		1 1							
	Female	-	- Line	-			-	1	-	-	-	1	-	:	-	1	-
										_					_		

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1933

								N	Months					
	CAUSES OF DEATH		Total	January	Kebruary	March	April	May	July	tsuguA	September	October	November	Decemper
DEATE	DEATHS—ALL CAUSES	Total Male Female	708 414 294	2472	3861	34 34 22	2522	345	288	255 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	48 29 29 28 19 22	937	30 30	842
CLASS	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total Male Female	37.22	404	27.1	44	900	- 0 = N	10 01 00	940	988	10 00 01	10 00 01	60.60
1	Typhoid fever	Male	-	1000	1000	1	-	-	-	-	-			1
7	Measles	Female Male		T	11	11	11			1 1	11		T	11
00	Scarlet fever	Female Male	11	11	11		11		3 4					
6		Female Male	C4	.01	11	11			1 1					11
10		Female Male	TI	11	11	11	1.1	11		11	11	11	11	11
11	Influenza	Female	133	100	11	61		11	. 04	3 1		-	-	-
	(a) Sole cause	Male	= '	m .	-	H	N	N	1 1	-	11	-	- 1	
	(b) With bronchitis	Male	N :	-	11	11	11	11	11	11	11	11	-	11
	(c) With pneumonia	Female		-		61	11	-	.21	1 1	11		-	1
	(d) With other respiratory diseases	Female Male	44		11	11	N	11	II	-	11	11	H	
	(e) With intestinal complications	Female Male	-	-	11	11	11	II	11	11	11	11	H	11
	(f) With other causes	Female Male	4	:01+	1.1*		-	11	1 1	11	11		II	11
15	Erysipelas	Female	 4 :	-	-	11	11	-	1 1	1 1		7	11	11
16		Female		I						-	-			1
-		Female	 4	II				11	1	10				

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1933—Continued

			_				Mo	Months					
	CAUSES OF DEATH		Total	February	Магећ	lingA	June	Amg	August	September	October	November	December
17	Epidemic or lethargic encephalitis	Male	10	-	- 24		-					-	1
18	Epidemic cerebrospinal meningitis	Female	11	-									1
22	Tetanus	Female Male	-	-		100	-						
23-32	Tuberculosis	Female Male		2	i	T					11.	-	1 1-
23	Tuberculosis of the respiratory system	Female Male	61-	2 1		-		-	-	23			
24	Tuberculosis of the meninges and central nervous system Ma	Female Male				-		1	1	01	4 1-4	•	• :
32	(c) Disseminated tuberculosis	Female Male	21								11	1	
34	Syphilis	Female				1	17		•	II	1 1	17	11
18	Gonococcus infection and other venereal diseases	Female Male	101			•	•	-	-	II	7	-	11
36	Purulent infection, septicaemia (non-puerperal)	Female Male	21			-		-			111	111	111
		mane				-	1		-			1	1
CLASS	CLASS II.—CANCER AND OTHER TUMOURS MAD FE	Male Female	57 50 50 50 50 50 50 50 50 50 50 50 50 50	5 10 10	000	00 to 01	10 <del>4</del> –	2 9 9	844	1-40	2199	12 6 9	490
45-53	Cancer and other malignant tumours Total	de	2000	10	63	ro	-4				9	0	9
45	Cancer of the buccal cavity and pharynx	Female	2 1 5		9	21	-	9	4		210	9	-10
46	(a) Of the oesophagus	Female	757		-		11					1	-
	(b) Of the stomach and duodenum Ma	Female Male	18	.00	-		61		-	17	61	1 00	60
	(c) Of the rectum	Female Male			21	-			1			-	000
	(d) Of the liver and biliary ducts Ma	Female Male	24		11		-	-		1	-	-	1
	- Ke	male			James 1	-	-	100	1	-	7000	-	

	(e) Of the pancreas	Male		1	-	-	1	ī	-	-	-	-	-	-	
		Female													
	(g) Of other organs	Male		700	-	1	i	1	- Control	1	- 1	1		est	
47	(c) Of the mediastinum	Male		00 01	71-	-			6/1	1		-	-	-	10
	(d) Of other organs of the respiratory system	Female Male		-						T					
48	(a) Of the uterus	Female		00				7	-	-	1				
	(b) Of the cervix uteri	Female		1	-				•	•	•		-	9 ;	
49	Cancer of other female genital organs	Female		2 1	-	-	-		-	1					
20	Cancer of the breast	Male		1			100		-		-	-			
51	(a) Of the bladder	Female Male		13	11	60			1	22	-	<b>-</b>	2		01
	(b) Of the kidney	Male	1	61	-		-	-	1	1	-	-	1		1
	(c) Of the prostate gland	Male		00	-		1	-	1	1	-	-		-	-
	(e) Of other male genito-urinary organs	Male		-	-	1	1	T	1		1	-	-	1	
52	Cancer of the skin	Male			The state of		1	-	7		-				
65	(c) Of the glandular system	Female Male		3 1			11	11	-					-	
	(d) Of the female urinary organs	Female .				11	11	TT	1)	11	11	-	11	11	-
	(e) Of the bones and joints	Male		4			-	1	-	1		-	-	-	
	(f) Of the brain	Female Male		-			11		-	11	11	11	11		
	(h) Of the neck	Female Male		-		-	1.1		11	11	11	11	11		
	(i) Of the abdomen	Female Male				11	11	11	11	11	11	11			
	(j) Of other specified organs	Female			11		11	11	1 1	-	11	-			
	(k) Multiple cancer	Female Male		-			11		11.11	11	14	11	11		
54	Non-malignant tumours Total	Female Male		- 61	-		!!	11	-	11	-	11			
	(a) Of the ovary	Female				11	11	11	T	11	11	11	11	11	
	(e) Of the thyroid gland	Male	-	64			-	1	-	1	1	1			
13	(d) Tumours of the brain, nature not specified	Male Female					-		111	111	111	III		TIT	110

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1933—Continued

			-					Months	00				
	CAUSES OF DEATH		IstoT	Lebruary Tanuary	Магећ	lirqA	May	Jung	August	September	October	November	December
CLASS	HI.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES	Total Male Female	100	01 01	211	21-11	000	- 100	61 61	21=1			
5.9	Acute rheumatic fever Diabetes mellitus Rickets	Male Female Male Female	4 44.	1111		11-1	1 2	7111			1111	1117	7111
99	(b) Exophthalmic goitre (d) Tetany	Male Male Female Male	- 1 1-				THI	1117	TITT	- 1111 - 1111	1111	HIII	1111
69	Diseases of the thymus gland	Female Male Female Male Female	01 0	8								FIFTI)	111111
CLASS	IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS  (a) Permicione anaemio	Fotal Male Female	28 2				464				21-1-		
12	(a) Leukaemia (Hodgkin's disease)	Male Male Female Male Male	<del>वस   सब  </del>			-	NH   H	· 				-	
CLASS 75	V.—CHRONIC POISONINGS AND INTOXICATIONS  (b) Alcoholism	Total Male Female Male					THE						

CLASS	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	Total	193	60 61	10 -			10 00	-	-	63.63	60 60	63	00 00
		Female	14	1	4	1	-	01	1	-				1
78	Encephalitis (non-epidemic)	Male	23	100	-	-	-	1		-	-	-	-	1
79	Simula maningitie	Female		1	1	-	-	T	-	-	1	-		1
00		Female	1	11	11	1	1 1	II				1 1		11
00		Female	4 1		111	-		I	11	11	1 1	1		11
81	Other diseases of the spinal cord	Male	010		-	-		11	-	-	-	1	-	-
82	(a) Cerebral haemorrhage	Male	110	-				-	11		-	-	-	1
84	(b) Dementia praecox and other psychoses	Female Male	1		63			-			-	64	1	1
255	Epilepsy	Female Male		T										
87		Female	15				1						•	11
		Female		-					-				II	
	(a) Other disease of the nervous custom	Female		1	H									11
	(2)	Female	-					-						
88	(a) Otitis	Male	1	I							-	-		1
	(b) Mastoid process	Female Male	-	1	1				1					1
		Female	61	п	1									1
CLASS	CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM	Total Male Female	180 97 83	12 2 2	12 12	20 11 9	= 8 8	11 9	121-8	91010	1010	12 20 4 111 8 9	12 12 12 12 12 12 12 12 12 12 12 12 12 1	15 10 5
90-95	Diseases of the heart Total	Male	-89	6	9	00	4	10 (	10	60.	60	.3	6	1-
91	(a) Acute endocarditis	Female Male	26	, i.	6	9	-	10	9	· ·	11			
92	Chronic endocarditis, valvular diseases	Female Male	14.	- 21	-	-	11	23			1 1	2	-	-
93	(a) Acute myocarditis	Female Male	25	1	24	-	7 1		-	24	1.1	7	24	-
	(c) Chronic myocarditis and myocardial degeneration	Female Male	171	11	601		н				1		41	60.0
	(d) Myocarditis, unspecified (45 years and over)	Female Male Formula	5 -		0	?	11	7	N	N	11		0	N
94	(a) Diseases of the coronary arteries	Male Female	410	1.1	II	64	101				11	-		14
	(b) Embolism and thrombosis of coronary arteries	Male Female	65	1 6	0101	4	н		01-	61	01	-	64	

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1933.—Continued

1	December	-
	November	21-
	October	-   -   - 40       -   0   -       -
	September	TITLES TO NOT THE FITTER
	August	
Months	Yint	
N	əunr	H H H H H H H H H H H H H H H H H
7000	May	
	IirqA	
	Матсh	
	February	44
	January	
	Total	82 m 222 - 22 422 - 22 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		Male Female Male Female Female Female Male Female Female Female Female Female Female Male Female Female Female Female Female Female Female Male Female Female Male Female Male Female Female Male Female
	CAUSES OF DEATH	(c) Angina pectoris  (c) Angina pectoris  (d) Other diseases of the heart  (e) Aneurysm (other than of the heart)  (f) Arterlosclerosis (of coronary arterles excepted)  (g) Arterlosclerosis (of coronary arterles excepted)  (g) Gangrene  (g) Other diseases of the arterles  (g) Other diseases of the nasal fossae and annexa  (h) Bronchitis, chronic  (h) Bronchopneumonia  (h) Cobar pneumonia  (h) Pleurisy  (h) Pleurisy  (h) Pleurisy  (h) Pleurisy  (h) Pleurisy  (h) Pleurisy  (h) Other diseases of the respiratory system (tuberculosis excepted)

CLASS	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	Male Female	242	698	00 10 60	400	10 00 01	t- 400	900	130	004	400	10 60 61
115	(b) Diseases of the tonsils	Male	60	-	-	-					-		
	(c) Diseases of the pharynx	Female Maie	61 63	61		11	61						
111	(a) Ulcer of the stomach	Female Male	7	6/1		11	11	1	11				17
	(b) Ulcer of the duodenum	Female Male	9	1	63	11	11	11	11		-	-	-
118	Other diseases of the stomach	Female Male	63			11		11					-
119	Diarrhoea and enteritis (under 2 years of age)	Female	- 4	11	1	T	-		-		-		
120	Diarrhoea and enteritis (2 years and over)	Female Male	62 64		01		11	-		-			-
121	Appendicitis	Female	12	1	1	-	1		2	-	02		-
122	(a) Hernia	Female Male	63 64	-	-	-	100			-	17		
	(b) Intestinal obstruction	Female Male											
123	Other diseases of the intestines	Female Male	10 01	-							-	-	
124	Cirrhosis of the liver (non-alcoholic)	Female Male	In										
125	Other diseases of the liver	Female Male	-					1					
126	Biliary calculi	Female Male	-	-		i L		1					
127	Other diseases of the gall-bladder and biliary passages	Female Male	6010		2	1	-	-		-			
128	Diseases of the pancreas	Female Male	10	11		1 1	1	-	-	21-			
129	Peritonitis, cause not specified	Female Male		11			TI				-		
		Fotal	N 95				9		- 0				
CLASS	CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM	Male Female	18	1-01	101	4 01	10 -	, 60	201-		210	mm	010-
130	130 Acute nephritis (including unspecified, under 10 years of age)	Male	61	-			-						
131	Chronic nephritis	Female Male	15	61	1		-		-	60	2		67
132	Nephritis not specified (10 years and over)	Female Male Female	200	- 11				64	-	-		69	7

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1933.—Continued

					1000		111		04-1	1 2 2 1 2
		11	2 2 2		461				200	
ale 1	ale	ale 1	3355	lie 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 2 2 2 1 18 1 2 2 1 8 1	le 6 6 1 2 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1	ale 1	le	ale 77 1 2	ale 3
the skin and annexa and of the cellular	CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF Total LOCOMOTION Male Female	156 Diseases of the joints Male Female	CLASS XIV.—CONGENITAL MALFORMATIONS Male Female	157 (a) Congenital hydrocephalus  (c) Congenital malformations of the heart  (d) Male  (e) Others under this title  (e) Female  Female	CLASS XV.—DISEASES OF EARLY INFANCY Total Pemale Female	159 Premature birth Male 160 (b) Injury at birth without record of Caesarean operation Male 161 (a) Atelectasis Male (e) Other diseases peculiar to early infancy Remale Female Female Female	CLASS XVI.—SENILITY Total Male Female	162 (b) Without senile dementia (70 years and over) Female	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS   Female   Female	163—Suicide by solid or liquid poisons or by absorption of Remale corrosive substances Female

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1933.—Continued

			- 17					Mo	Months					1
	CAUSES OF DEATH		Total	Lebruary	March	April	Хем	aung	Ymr	AuguA	September	October	November	December
164	Suicide by poisonous gas		1	-	-	-				-		7		1
165	Suicide by hanging or strangulation Male Male	ale	63	II	11	11	11			-	II	7	H	-
166	Suicide by drowning	200	63	111		1 1		-	11	-	-	111	11	11
167	Suicide by firearms	ale	1	11	TI	1 1					-	11		1.1
169	Suicide by jumping from high places	ale	.01	11	TT	11	11	-		11	II	11	11	11
173	Homicide by firearms	ale	1	11	11	1 1			11	11	III	11	11	11
176-198	Other violent deaths Total	ale	38	-	61	.00	-	. 62	4	10	-	00	11	10
178	Accidental absorption of toxic gases	ale	10,4	11		3 8	-			11	11	61	-	-60
179	Other acute accidental poisonings (except by gas)	ale	7	11	11	11	-			11	11	911	11	11
181	Accidental burns (conflagration excepted)	ale		11	TI	11				11	11	-	11	1.1
183	Accidental drowning	ale	00 00	11	11	-	-		-	H	11	-	11	11
184	Accidental injury by firearms	ale	64	TI	11	11			11	- F	H	11	11	-
186	Accidental injuries resulting from falling, crushing or landslide	ale	17	-	. 01	. 01	61		65	63	-	. 61	1 1	-
188	Injuries inflicted by animals	ale	es	11	11	11				-	11	-	-	-
193	Accidental electric shocks	ale	-	11	11	11		-	11	11	II	11	11	11
	Female	ale	i i	1	1	-	-	-	1	1	I	1	1	1
CLASS	CLASS XVIIIH.IDEFINED CAUSES OF DEATH	-			-	-					I			1
-		ale								1	1	I		
200	Cause of death not specified or ill-defined Male	ale	-	-		1 1						1	1	
									-	-	-			1

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), CALGARY, 1933

				-	-	-	1	-	-	-		-	1
A Accidents in mines and quarries	Male								-			_	
	Persola											-	-
Application and the manufactures	Felliale	*	-	-	-		-	1	100		1		
D Accidents caused by indentities	Male	T	- 1	-	-	-	1000	1	1		T	****	1
Dollarow confidente	Female		1	-	-	-		1	-	-	ī		-
Marinagy eccidents	Male	N	-	-	-	-		7	1000		1	1	*****
D Street car posidents	Female	-	-	-		Total Transport	1000	T	- State	- Second	1	-	1
Caree car accidence	male .	1000	-	The Party	100	-	-	1	-		-	++++	-
Authorizabilly and mademands and denda	Female		-	1000	-					-	-		
E Automobile and motorcycle accidents	Male	,	-		N	-	1	N	Fina	1144	-	1	-
If Other land transnortation	Female	1000		-		-			T	1	ī	-	-
Care was a complete same	Formula	-			The Line				1		-	1	1
G Water transportation	Male	1			-	-		-	1	-	-	-	1
	Female												1
H Air transmentation	Mala	-				-				2000	1000	0000	
The section of the se	The same of		1000	-	-			10000	I	-	1000	1000	-
	r emale	-	-	100	-						_	-	

TABLE 26.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, CLASSIFIED ACCORDING TO RESIDENCE OF DECEDENTS IN CITIES OF 5,000 POPULATION AND OVER, IN THE PROVINCE OF ALBERTA, 1933

All Deaths Deaths in Institutions Deaths Elsewhere than in Institutions	Non-resident in city where death occurred and	Total Residents Resident Non-resingular Resident Non-resident Non-	Total Male Female Total Male Female Total Male Female Female Female Female Total Male Female Total Male Female Total Male Female Total Male Total Male Female Total Male	4 564 326 238 1 8 561 312 249 2 7 104 63 41 7 72 34 38
All Deaths	Non city occ	Residents Resident in Province	Total Male Female Total Male Total Male Total Male	294 564 326 228 134 81 53 10 7 3 358 561 312 249 295 189 106 14 11 3 77 104 63 41 92 57 35 2 1 1 1 57 72 34 38 45 28 17 6 4 2
		Cities		414 512 121 66

TABLE 27.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS SHOWING THE NUMBER NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1933

			All Deaths	eaths					In Institutions	tutions		
		Total		Non	Non-resident in Province	t in		Total		Non-	Non-resident in Province	t in
	Total	Male	Total Male Female Total Male Female Total Male Female Total Male Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	5346	3165	2181	11	52	19	2266	1395	871	37	25	12

23 29 252224 80 years and over 18 84 392 121 5553 24 39 108 108 34 10 3222 784 70-79 years 122 22 24 2021 766 SIESA 69-09 TABLE 28.—NUMBER OF DEATHS BY AGE PERIODS FROM SELECTED CAUSES FOR THE WHOLE PROVINCE, 1933 23 23 23 28230 654 20-23 Acuts Sugar 3-692 13 20 17 2242 190 40-49 years 312821 50 1551 330 30-39 years 21-120004-20 8000 2525 345 20-29 years 26 15-19 years 125 23 105 10-14 years 233 20-23 113 2-9 years 23351 1532252 00 00 252-33-149 276 I-4 years 996 Under I year 5346 893A IIA A Acute anterior poliomyelitis
7 Lethargic encephalitis
8 Meningococcus meningitis
3 Tuberculosis of the respiratory system
4 Tuberculosis of the intestines and peritoneum
5 Tuberculosis of the intestines and peritoneum
6 Acute tubercular diseases
7 Malignant tumours
8 Acute rhemuatic fever
9 Meningitis
9 Cerebral haemorrhage, apoplexy
5 Diseases of the heart
6 Other diseases of the circulatory system 9 Pheumonia (all forms)
4 Other diseases of the respiratory system
9 Diarrhoca and enteritis (under 2 years of age)
7 Diseases of the liver
1 Nephritis (acute and chronic)
1 Diseases and accidents of pregnancy
1 Diseases of early infancy and malformations
2 Suicides age) CAUSES OF DEATH Other violent deaths Other defined diseases Ill-defined or unknown Typhoid fever
Smallpox
Meastes
Scarlet fever
Whooping cough
Diphtheria Bronchitis Total 26-32 45-53 45-53 45-6-32 90-95 10-109 110-114 124-127 130-131 140-150 157-161 173-198 99-200

TABLE 30.—MARRIAGES DURING THE YEAR BY MONTHS, 1933

Total	1137 999 238 238 151 151 78 55 55 55 55	6882	TABLE 31MARRIAGES-CON				5389 4780
Yannat	10	35	JUGAL		achelors	swopiW	131
	And the second		COND	Ma	and	Divorced	7.1
			NOIL	urriages	Spinsters	182 1	
IirqA		-	OF CO	betwe		Widows	116 21
May	75 58 10 10 10 11 13 13 13 13	306	NTRAC	en		Spinsters	69
June	1113 116 100 10 10 25 4 4 25 25 4	525	TING PA		ivorced ien and	Widows	10 9
July	114 92 21 5 9 5 5 279	530	ARTIES	Per	Bri	Bachelors	92.4
tsuguA	91 14 10 10 10 213	442	1933	cent.	degroon ho wer	Widowers	5.9
September	881 171 171 151	380		jo	ms	Divorced	1.6
October	108 103 30 18 8 9 9	549		Per	Bri	Spinsters	93.4
November	157 89 36 38 36 9 6 9 6 9 6	792		cent.	les wi	swobiW	4,8
	January March April May July April Angust August August	166 3 6 8 8 9 10 3 10 3 10 10 10 10 10 10 10 10 10 10 10 10 10	73. 377 291 376 306 529 389 377 380 549 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Total	Total	Total	Total Marriages

TABLE 32.—MARRIAGES—AGES OF BRIDEGROOMS AND BRIDES, 1933

	VITAL STATISTICS BRANCH
betated	NON
TOVO 3	992
10.2	L-OL
69	)-S9
15	9-09
69	22-5
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Brides	ה ווייים המממחמקממה המחדומה מ
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of 31	Mulantantantal under un de
Ages 9 30	0-00-004-000-0-0440-00-00-0
A 62	
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5 26	24822222222222222222222222222222222222
- 52	123000000000000000000000000000000000000
23 24	11 982588888888888888888888888888888888888
122	112400444444444444444444444444444444444
21 2	244600000000000000000000000000000000000
20	8.08.14.40.08.48.88.88.08.10.10.10.10.10.10.10.10.10.10.10.10.10.
19	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
81	1 2 12 22 410 41117888347185
17	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
16	88110011100011110011110
91 19p	nu
gunos	04000000000000000000000000000000000000
Ist smoo	Tol. 222222222222222222222222222222222222
Ages of Bridegrooms	Under 18 10 10 119 122 223 224 224 225 233 234 235 24 255 256 257 258 258 258 258 258 258 258 258 258 258
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	20
	100
121	36
IIIIII	53
7 7	26
1111111	22
	46
-	453
	81 49 43 46 34 26 32 36 18 20 16 19 10 17 13 10 12 14 8 7 30 15 14
7	81
1111111	112
1111111	670 506 448 345 276 222 137 120 112
H	137
	3 222
	27
11111	345
10111111	448
	206
1/1/11	670
HILLIE	520
1111111	553
THEFT	524
1111111	539
1111111	24 2
11111111	11   124   239   524   553   520
-	
28288888	5389
over	Total Brides
55-59 60-64 75-69 70-74 75-79 80 and over Not Stated	Total

TABLE 33.-MARRIAGES-BIRTHPLACES OF BRIDEGROOMS AND BRIDES, 1933

1		· suoireV	
		United States	240 110 1111 1111 1111 1111 1111 1111 11
	0	Other	
	Asia	ueder	
	100	China	
		Other	9 1 1 2 1 1 2 1 1 2 1 1 2 1
		Sweden	8 7 77 77 77
		Russia	24 21212 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		Roumania	
-		Poland	7 172 2 3 7 7 7 1 7 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	100	Norway	
	Europe	Yiell	7
	Eur	Hungary	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	-	Holland	1 22 1 20
		Germany	2111 111 1 481   64 2 12
		France	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Finland	
des		Denmark	2 1 2 2 1
Brides		Belgium	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
of 1		Austria	2
	Posses-	Other	8   1   2
olac	British	Newfoundland	8       2     1   2     1
Birthplaces	es	Other	
B	British Isles	Wales	g       4     4     H4     14
	lish	Scotland	8 111487 128 128 128 1 1 6 4 119
	Brit	Ireland	2111 22 2111 201 11 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1
		England	136 8 8 8 8 14 14 14 14 11 11 11 11 11 11 11 12 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14
		Prov. not specified	2
		British Columbia	52 1 524 626 62 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
		Alberta	151 1181 1181 1181 1181 1181 1181 1181
		Saskatchewan	181 12 22 23 28 28 28 28 28 28 28 28 28 28 28 28 28
	Canada	Manitoba	00 118744 1181 119 11 11 11 11 11 11 11 11 11 11 11 1
	Car	Ontario	33 111 12 112 111 11 11 11 11 11 11 11 11
		биерес	250 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		New Brunswick	#
		Nova Scotia	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		P. E. Island	w
		Total Grooms	2650 1920 1820 1831 1831 1831 1831 1831 1831 1831 183
		Brithplaces of Bridegrooms	Prince Edward Island Nova Scotia Nova Scotia Nova Scotia Oduebec Ontario Manitoba New Brunswick Saskatchewan Alberta British Columbia British Columbia Province not specified British Secilied British Columbia Froduce not specified British Columbia British Columbia Froduce not specified British Columbia British Columbia Vales Other EUROPE Austria Belgium Denmark Frinland France Germany Holland Hungary

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11111111111	-
	25
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117 11111111111111111111111111111111111	54 158
36   111	344
11111111111111	6.3
12 11 200 12	103
256 32888222	2568
HRF48F   02	345
14400       80	
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	9 36 18 79 243 175
285 285 70 179 179 8 77 7 8 7 7 161 179 7 8	5389
Italy Norway Poland Roumania Russia Sweden Other China Japan Other United States	Total Brides
4 55 I	

172

TABLE 34.-MARRIAGES-DENOMINATIONS OF CONTRACTING PARTIES, 1933

	Not stated .		1
	Other sects	00   1   10     400     P   10	82
	No religion	2	19
	Oriental religions		
4	United Church	484 484 444 444 101 105 107 107 107 107 107 107 107 107 107 107	1366
	United Brethren	121   1   1   1   1   1   1   1   1   1	19
	Unitarians		
	Salvation Army	21 21 21 21 21 21	22
	Roman Catholics	2 2 2 2 2 2 2 2 2 2 2 2 3 2 3 2 3 3 3 3	976
	Protestants	10 1 4 1 1 10 1 10 1 14 Ex	81
	Presbyterians	261 261 261 261 261 261 261 261 261 261	510
Si	Pentecostal	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	29
Brides	Mormon	2 11 10 10 2 2 1 11 11 12 2 1	135
of B	Mennonites	1	73
3.00	Lutherans	810 8 11 88 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	576
Denominations	16ws		25.5
nin	Movement		61
nor	Greek Orthodox	81 1 228 81 1440 6	202
ă	Greek Catholics	181   191   1	261 2
	Friends		12
	Evangelicals		12
	Church of Christ		16
	Christian Science	1,0,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	00
	Christians	[	17
	Brethren		10
	Baptists	1 2 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	241
	Anglicans	286 222 224 41 11 11 14 17 17 17 17 17 17 17 17 17 17 17 17 17	663
	Adventists	22-111111111111111111111111111111111111	39
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TABLE 35.—DIVORCES BY JUDICIAL DISTRICTS FOR THE YEAR 1933

Judicial Districts	Number of Divorces	Granted to Husband	Granted to Wife
Edmonton Calgary Medicine Hat Lethbridge	60 56 4	27 20 2	33 36 2
Red Deer Vetaskiwin	3	4 2	7
Camrose stettler		707	
facleod	ī	1	1993
rande Prairie egreville	****	****	1444
			***
Total	135	56	79

## DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Year	Granted to Husband	Granted to Wife	Total
9	3	3	6
0	74	26	100
1	53	37	90
2	80	49	129
3	57	32	89
4	66	53	119
5	59	42	101
6	79	75	154
7	83	66	140
8	91	9.4	175
9	77	71	140
0	64	97	148
1	69	07	151
9	60	01	156
9	50	81	149
0	96	79	135

## TABLE 36.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS IN THE PROVINCE OF ALBERTA, 1933

		200					M	onth	s				
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province	777	59	73	73	73	67	73	67	51	50	60	58	73

# TABLE 37.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE, IN THE PROVINCE OF ALBERTA, 1933

	Tot	al Bir	rths	Leg	itima	ate	Ille	gitin	nate
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	777	422	355	666	357	309	111	65	46

TABLE 38.—DEATHS OF INDIAN CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE, FOR EACH SEX, 1933

	Causes of Death	Total	Male	Female
ALL C	AUSES	122	69	53
7	Measles	1		1
8	Scarlet fever	*****		
9	Whooping cough	10	5	5
10	Diphtheria	1000		1
11	Influenza	8	6	2
13	Dysentery	1		1
23	Tuberculosis of the respiratory system	11	9	2
24	Tuberculosis of the meninges and central ner-			-
	vous system	4	1	3
25-32	Tuberculosis, other forms			
34	Syphilis	1	1	
86	Convulsions	9	9	****
106	Bronchitis	2 2	2	
107	Bronchopneumonia	13	6	7
08. 109	Pneumonia	12	5	8
119	Diarrhoea and enteritis	8	6	2
158	Congenital debility	. 11	7	- 4
159	Premature birth	11	é	5
160	Injury at birth	4	1	3
161	Other diseases peculiar to early infancy (under	**	1	0
101	2 months)	13	- 7	0
76-198	Other violent deaths	10	1	6
10-100		2	1	35.0
99-200	Other specified causes Unspecified or ill-defined causes	3	2	3

TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933

	CAUSES OF DEATH	DEATHS—ALL CAUSES		7 Measles 9 Whooping cough	Total	(a) sole cause (b) With bronchitis	(c) With pneumonia	(d) With other respiratory diseases	(f) With other causes	13 Dysentery	15 Erysipelas	23-32 Tuberculosis Total	23 Tuberculosis of the respiratory system	24 Tuberculosis of the meninges and central nervous	System or an arrangement of the state of the
		Total Male Female	Total Male Female	Male Female Male		Male Female Male	Female Male	Female Male	Male	Male	Female		Female Male	Female	Female
	Total	237	1322		122	-4-	.00	-				101	92 80	89	200
	Under I year	122 69 53	36		10.00		100				-		100		
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	10-14 years	7 20 7 7 7 13	30 18 18 6 12 12	-	22			11	1 1				9 10		77
	15-19 years	28 12 16 12	24 14 10 10		01	11				1 5			0 10		2
	20-24 years	30	133	111				11	11		11		120		
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TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933—Continued

100 Acets   100			Tuberculosis of the intestines and peritoneum.  Tuberculosis of the genito-urlnary system  Disseminated tuberculosis  Syphilis  Cancer and other malignant tumours  Cancer of the buccal cavity and pharynx  (b) Of the stomach and duodenum  (c) Of the rectum  (d) Of the liver and biliary ducts  (a) Cancer of the uterus  (d) Of the female urlnary organs  (m) Of unspecified or unknown location  (d) Non-malignant tumours of the brain
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III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE Total 2 1 1 1 GLANDS AND OTHER GENERAL DISEASES Male 2 1 1	Acute rheumatic fever Male Female 2	Diseases of the adrenals (Addison's disease) Male 1 Female	Total 11 2 Male 7 2 Female 4	Encephalitis (non-epidemic)  Female  (a) Cerebral haemorrhage	paralysis, cause not Male	Convulsions (under 5 years of age) Female 1 2 2	(d) Disseminated sclerosis Arenale I Female I Male I Female I Fema	VII.—DISEASES OF THE CIRCULATORY Total 14 SYSTEM Male 5 Female 9	Diseases of the heart 44  Chronic endocarditis, valvular diseases Male 6  Female 6  Male 6	(c) Chronic myocarditis and myocardial de- generation Male  (d) Myocarditis, unspecified (45 years and over) Male	Female 3 Male 2 Female 2 Male 1	2 = = = = = = = = = = = = = = = = = = =
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TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933—Continued

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SAME SAME AND ADDRESS OF THE PARTY OF THE PA	CAUSES OF DEATH	Diseases of the lymphatic system (lymphangitis, etc.)	VIII.—DISEASES OF THE RESPIRATORY Total Male SYSTEM Female	Diseases of the nasal fossae and annexa Bronchitis, acute	(a) Bronchopneumonia  Lobar pneumonia	Pneumonia, not specified Pleurisy	Other diseases of the respiratory system (tuber- culosis excepted)		(a) Diseases of the buccal cavity and annexa.  (a) Ulcer of the stomach  Diarrhoea and enteritis (under 2 years of age)  (a) Diarrhoea and enteritis (2 years and over)
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1 91	1	Female 1	1	Female 1	1	Total 2 Male 2	Female	Male 1	1	Total 4	-	Female 1	Female 2	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	Male 7 Female 4 Male 6 Female 5
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1 91	1	Female 1	1	Female 1	1	Total 2 Male 2	Female	Male 1	1	CHILDBIRTH Total 4	Female 1		Female 2	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	Male 7 Female 4 Male 6 Female 5
1 91	Female 1	Female 1	1	Female 1	1	Total 2 Male 2	Female	Male 1	1	CHILDBIRTH Total 4	Female 1		Female 2	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	Male 7 Female 4 Male 6 Female 5
1 91	Female 1	Female 1	1	Female 1	1	Total 2 Male 2	Female	unspecified, under Male 1	1	CHILDBIRTH Total 4	Female 1		Female 2	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	Male 7 Female 4 Male 6 Female 5
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1 91	Female 1	Female 1	Female 1	Female 1	Female 1	OF THE GENITO-URINARY Total 2 2	Female	unspecified, under Male 1	Male 1	CHILDBIRTH Total 4	Female 1		Female 2	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	Male 7 Female 4 Male 6 Female 5
iMale   2	Female 1	Female 1	Female 1	Female 1	Female 1	OF THE GENITO-URINARY Total 2 2	Female	unspecified, under Male 1	Male 1	CHILDBIRTH Total 4	Female 1		Female 2	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	Male 7 Female 4 Male 6 Female 5
iMale   2	Female 1	Female 1	Female 1	Female 1	Female 1	OF THE GENITO-URINARY Total 2 2	Female	unspecified, under Male 1	Male 1	CHILDBIRTH Total 4	Female 1		Female 2	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	debility Male 7 Female 4 birth 6 Female 6 Female 5
iMale   2	Female 1	Female 1	Female 1	Female 1	Female 1	OF THE GENITO-URINARY Total 2 2	Female	unspecified, under Male 1	Male 1	CHILDBIRTH Total 4	Female 1		Female 2	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	debility Male 7 Female 4 birth 6 Female 6 Female 5
iMale   2	Female 1	Female 1	Female 1	Female 1	Female 1	OF THE GENITO-URINARY Total 2 2	Female	unspecified, under Male 1	Male 1	CHILDBIRTH Total 4	Female 1		Other or unspecified condition of the puer-	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	debility Male 7 Female 4 birth 6 Female 6 Female 5
1 91	Female 1 Male 1	1	1	es of the gall-bladder and biliary Male	Female 1	THE GENITO-URINARY Total 2	Female	unspecified, under Male 1	1	CHILDBIRTH Total 4	-	Puerperal albuminuria and eclampsia Female 1	Female 2	1	Female 1	Male Female 1	Total 39 Male 21 Female 18	ty Male 7 Female 4 Male 6 Female 5
Appendicitis	Other diseases of the intestines Male 1	(b) Cirrhosis of the liver (non-alcoholic) Male 1	Biliary calculi Male 1	Other diseases of the gall-bladder and biliary Male	Female 1	X.—DISEASES OF THE GENITO-URINARY Total 2 SYSTEM Male 2	Female	10 years of age) Male 11	Diseases of the prostate Male 1	XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE Total	(a) Abortion with septic conditions 1	Puerperal albuminuria and eclampsia	(b) Other or unspecified condition of the puer- peral state 2	XIII.—DISEASES OF THE BONES AND ORGANS Total OF LOCOMOTION Male	Female 1	Male Female 1	XV.—DISEASES OF EARLY INFANCY Total 39 Male 21 Female 18	Congenital debility Temale 7  Female 4  Premature birth 6  Female 6  Female 5
iMale   2	Female 1	Female 1	Female 1	Female 1	Female 1	OF THE GENITO-URINARY Total 2 2	Female	10 years of age) Male 11	Male 1	CHILDBIRTH Total 4	Female 1		Other or unspecified condition of the puer-	1	Female 1	ne joints and other organs of Male Female 1	Total 39 Male 21 Female 18	debility Male 7 Female 4 birth 6 Female 6 Female 5

TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1933.—Continued

		٧	ITA	r pr	1113	rics .	DI	AN	CII					
1	Not Stated	11	11	111	11	111	****	11	11	1 1	11	111	111	1111
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	95-99 years	11	11	111	11	111	1	11	11	1 1	11	111	111	
	90-94 years	11	H	111	11	1111		11	П		11	111	111	1111
	85-89 years	TI	11	20-61	101		-	III	П	-	11	111	111	
	80-84 years		11.	111	11		1	11		1	-	111	111	
	75-79 years		11		-		-	-		1 1	11	111		
	70-74 years	11	11		-	111	-	11	11		H		111	
	65-69 years	711	11		-	111	Į.	II	II		II		61 61	
	60-64 years		11	111	11	111		11	1.1			111,		-
	22-23 Assis		11	1111	11		1	11	11	1	i i			
	20-24 years	11	11	HII			1	11					111	1111
Ages	45-49 years		11	111	11		-	11		-			111	1111
A	40-44 years		ii	111			-	11	1	-	11		111	
1	32-39 years	11	11		11	77	1	11	11	-				7
	30-34 years	11	11	111		111	-	11			11			
	25-29 years			111			1	11		1 1	1 1			
	20-24 years	11	11	111	11		-	-			1		111	HHI
	15-19 years			111			-	11			LI	17		
	10-14 years	11					-	H					illi	1111
	5-9 years	, ! !	11	111		111	-	11					61 61	2
	4 years		11	111	111	111	*****	11			111			
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	Z years		41	111	11		-	11		-				
	I year	iai	11	111	11	21-1		10		-			400	200
	Under 1 year		19				-		-				10 61 63	4 40
	Total	-163	6 - 7	904	014	200	10	2		90	77	-	54.11	
							-	-						
	100 100	Male Female	Male	Total Male Female	Male Female	Total Male Female	ale	Female Male	Male	Male	Male	Male	Total Male Female	Male Female Male Female
				FEE	ME	FEE	20	126	126	-	126	FE	FEE	MENE
	CAUSES OF DEATH	(b) Injury at birth Other diseases peculiar to early infancy (under	3 months)	CLASS XVI.—SENILITY	(b) Senility	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	Other violent deaths	Accidental burns (conflagration excepted)	Accidental mechanical suffocation	Accidental injuries resulting from falling, crush- ing or landslide	Injuries inflicted by animals	Excessive cold	CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH	Sudden death  Cause of death not specified or ill-defined
		160		CLASS	162	CLASS	176-198	181	182	186	188	190	CLASS	199

SPECIAL CLASSIFICATION OF ACCIDENTAL DEATHS OF INDIANS (INCLUDED ALSO IN THE PRECEDING TABLE), 1933

		_	-	-		-	-	_				-		-	-	_							-	-	_	
A	A Accidents in mines and quarries	Male	-					_			A			-									-	-		
		Formula																			1		-	-		-
0	Application and the second Lines	remale	-	1000	-	-	-	-	-	-	II.	-	i	1	-		1000	-	1000		-	-	-			
Q	b Accidents caused by machines	Male	-	-	-	1000	-	-	-	-	-		-1	-	-		-	1000	-				-	-	-	-
	Dellares seed dest	Female	-	Tin.	1	2000		1	+	-	-	1	1	1	-	-	-	1000		-	Time.	ī	1	1	the form	-
2	C nallway accidents	Male	-	1	-	-	1000	-	-	T	-	I	1	1	-	100		-	1		1	1	1	-		-
2	D Ctroot can acaidente	remale	-	100	T	000	-	-	-		-	I	1	1	-	-	1	-	-	-	1	1	-	1	on I-m	-
1	SHEEF SHE HELINGTHS	mane.	Time.	*****	-	-	1000	-	1	-	-	1	I	-	-		-	2000	1		11111	-	-			
1	Andrewshills and makenessel, and have	remale	10	1			-	-	-			-	1	-	-		-	-	-	-		-	-	-	1000	1
4	E Automobile and motorcycle accidents	Male	NIC	-	-	1000	-	-	-	-	1	-	1000	-	-	-			-	i	1	-	-	-	-	-
p.	Other land terminated for	remale	NI +		-	-	1	1	Ties .	-	-		-	-	T	-	-		-	-	1	1			-	1
4	Omer land transportation	Male	7	-	-	-	-	-	1000		I	Ī	Ī	200	-		-		1	I	1	-	-	1	-	-
C	C Water transmostation	remale	1000	-			-	-	10000	I	-	T	-	1	-		-	-	-	Ī	1	7111	-	-	-	1111
7	Water Haispoi tation and an announcement of the second	Male	-	1000	-	-		1	-	-	-	1	-	-		-	-		-		1	-	-	-	1	****
TI	All descriptions and address	remale	-	I	-	-	1000	-			1	T	-	-	-	-	-	1	-	1	1	-			-	-
H	H AIL Gansportation	Male		1000	-		1000		-		1		-	-	-		-		-	-	-	1111		-		*****
		Female			1	-			1000			I	1	Ī	1	-	-	-		I	I	The same	The state of	100		****

TABLE 40.—BIRTH, MARRIAGE, DEATH, AND OTHER RATES PER 1,000 POPULATION FOR THE YEARS 1918-1933

Increase 15.86 14.62 17.57 19.50 17.83 18.75 16.42 16.16 15.31 15.87 15.79 16.50 17.40 17.40 17.	1918         1920         1921         1923         1924         1925         1926         1927         1928         1929         1931         1931         1932	DOM: OTHER DESIGNATION OF THE PARTY OF THE P
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TABLE 41.—DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1933

	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province	16123	73	4.53
City of Edmonton City of Calgary Small Cities Rural Districts	2085 1624 1321 11093	10 7 36	3.35 6.73 4.32

#### TABLE 42.—VITAL STATISTICS, 1905 TO 1933 INCLUSIVE

	Year	Births	Marriages	Deaths	Excess of Births over Deaths
1905		421	187	114	307
1906		3.003	927	1.091	1.912
1907		4.732	1.907	1.578	3.154
1908		5.973	2.032	2,188	3.785
1909		6.897	2,384	2.662	4.235
1910		8,321	3.086	3.526	4.705
1911		8,813	3.630	3.618	5.195
1912		10.284	4.429	4.232	6.052
1913		11.871	5.053	4.432	7.439
1914		13.685	4.623	4.147	9,538
1915		13.452	4.202	3.588	9.864
1916		13,331	4.230	4.058	9.273
1917		13,576	4.270	4.047	9.529
1918		14.890	4.048	7.924	6.966
1919		14.130	4.718	5.507	8.623
1920		16,565	5.110	5.675	10.890
1921		16.414	4.661	4.940	11,474
1922	***************************************	16.163	4.272	5.281	10.882
923	***	15.153	4.117	4.843	10.320
1924		14.598	4.160	4.907	9.691
1925		15.014	4.363	4.717	10.297
1926	Auto	14.455	4.498	5.156	9,299
927		14.897	4.707	5.059	9,838
1928	***************************************	15,692	5.776	5.699	9,993
1929	***************************************	16,924	6.004	6.239	10.685
1930		17,649	5,334	5.396	12.153
1931		17.252	5,142	5.302	11,950
1932		16,990	5.054	5.521	11,469
1933		16.123	5.389	5.346	11.093

#### POPULATION, BIRTH, MARRIAGE AND DEATH RATES, 1933

Population	757.000
Birth Rate per 1,000	21.33
Marriage Rate per 1.000	7.10
Death Rate per 1,000	7.06

### RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS

Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1.000 Births of Females	Ratio of Births to Deaths
1905	1,059	3.11	1920	1.055	2.92
1906	1.094	2.07	1921	1.055	3.32
907	1.075	2.96	1922	1.004	3.06
908	1.077	2.73	1923	1 070	3.13
909	1.086	2.59	1924	1.000	2.97
910	1.065	2.69	1925	1.040	3.18
911	1.103	2.43	1926	1.053	2.80
912	1.084	2.43	1927	1.065	2.94
913	1.053	2.67	1928	1.064	2.75
914	1.081	3.30	1929	1.042	2.71
915	1.100	3.47	1930	1.027	3.21
916	1.063	3.29	1931	1.075	3.25
917	1.061	3.25	1932	1.050	3.08
918	1.069	1.88	1022	1.053	3.01
919	1.074	2.56	1300	1,000	0.01

### DEATHS OF INFANTS UNDER ONE YEAR, DURING THE YEAR 1933

To 1,000 Births	59.9
To 1,000 Deaths from all Causes	180.69
Number of Stillbirths in Alberta	447

