#### Contributors

Alberta. Department of Public Health.

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Library.



### ANNUAL REPORT

OF THE

# **Department of Public Health**

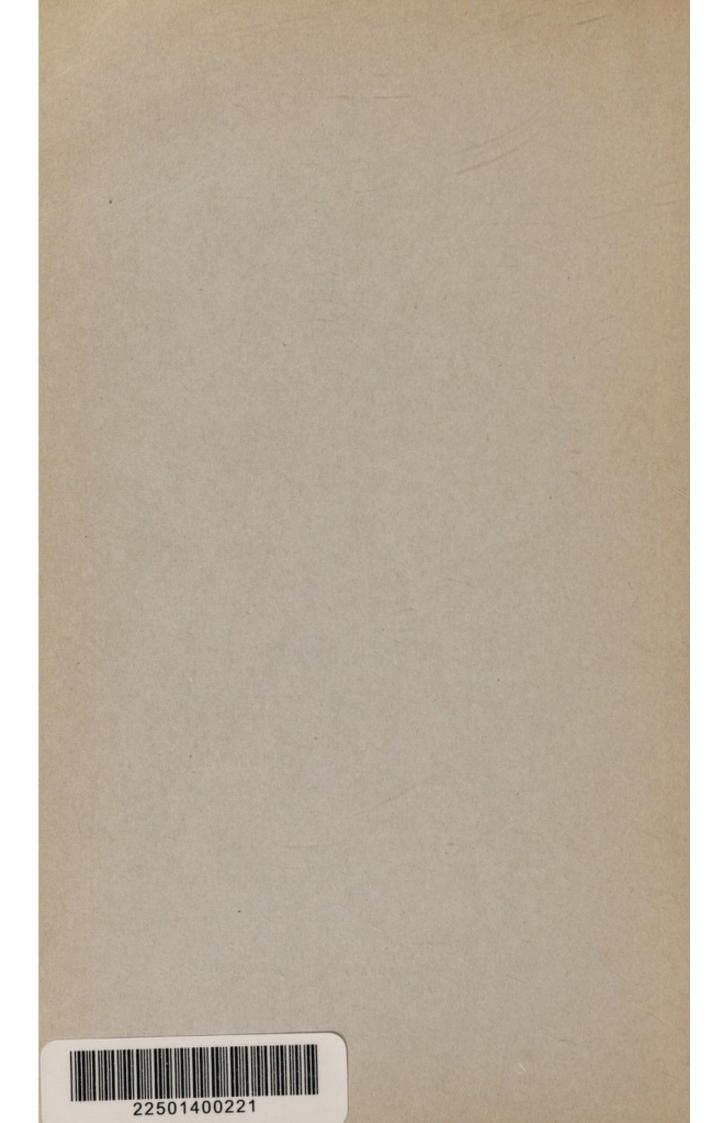
PROVINCE OF ALBERTA

INCLUDING

# Vital Statistics Branch 1939

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON: PRINTED BY A. SHNITKA, KING'S PRINTER 1941





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OF THE

# **Department of Public Health**

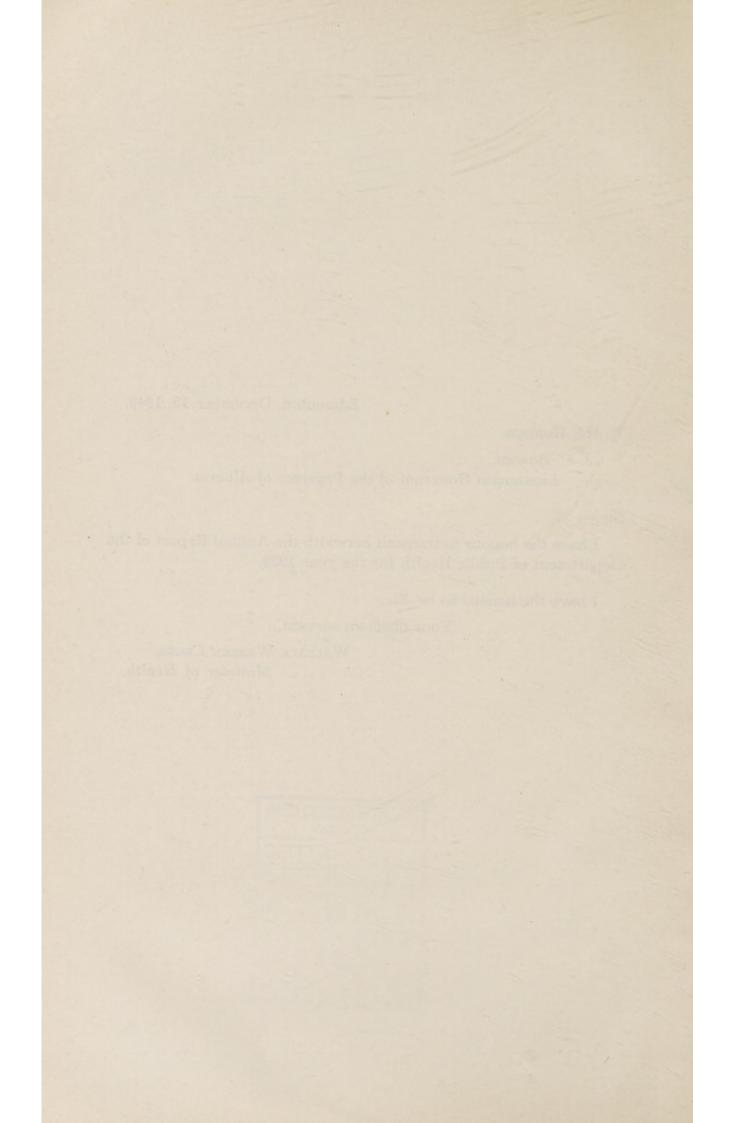
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EDMONTON: PRINTED BY A. SHNITKA, KING'S PRINTER 1941



Edmonton, December 15, 1940.

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

Administration Building, Edmonton, Alberta.

SIR,-

I have the honour to submit herewith the Twenty-first Annual Report of the Department of Health.

I have the honour to be, Sir,

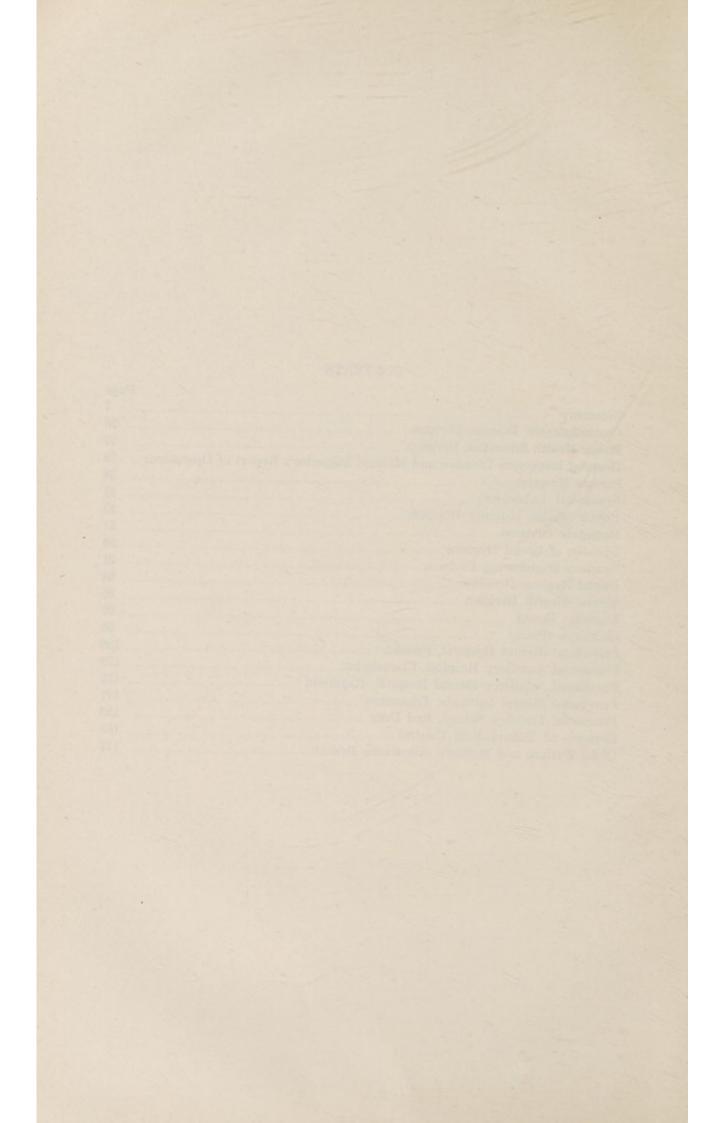
Your obedient servant,

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

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## CONTENTS

	Page
Summary	
Communicable Disease Division	26
Public Health Education Division	
Hospital Inspection Division and Medical Inspector's Report of Operations	
Private Hospitals	
Provincial Laboratory	
Public Health Nursing Division	45
Hospitals Division	51
Division of Social Hygiene	_ 86
Sanitary Engineering Division	91
Dental Hygiene Division	94
Mental Health Division	
Eugenics Board	_ 97
Guidance Clinics	99
Provincial Mental Hospital, Ponoka	108
Provincial Auxiliary Hospital, Claresholm	. 129
Provincial Auxiliary Mental Hospital, Raymond	132
Provincial Mental Institute, Edmonton	137
Provincial Training School, Red Deer	152
Division of Tuberculosis Control	
Child Welfare and Mothers' Allowance Branch	. 177



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

#### THE DEPARTMENT

#### Divisions:

1. Communicable Diseases.

2. Public Health Education.

3. Hospital Inspection.

4. Laboratory.

5. Public Health Nursing.

6. Municipal Hospitals.

7. Social Hygiene.

8. Sanitary Engineering and Sanitation.

9. Dental Hygiene.

10. Mental Health.

11. Institutions: Provincial Mental Hospital, Ponoka.

Provincial Mental Institute, Oliver. Provincial Training School, Red Deer. Provincial Auxiliary Hospital, Claresholm. Provincial Auxiliary Hospital, Raymond. Central Alberta Sanatorium, Calgary.

12. Child Welfare and Mothers' Allowances.

13. Vital Statistics.

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

#### PROVINCIAL BOARD OF HEALTH

One meeting of the Provincial Board of Health was held during the year.

#### REGULATIONS PASSED DURING THE YEAR

The Regulations regarding Food and Drink were amended by O.C. 37-39.

#### LEGISLATION PASSED DURING THE YEAR

The Hospitals Act, 1938, Amendment Act, 1939, (Chapter 68).

This Act amends The Hospitals Act, 1938, by striking out the definition of "resident" in Section 5 and by substituting therefor four rules and interpretations for the purpose of determining the question as to whether or not a person is a resident of an area controlled by a local authority.

This Act came into force on March 31, 1939.

The Municipal Hospitals Act, 1929, Amendment Act, 1939.

Section 11 is amended so as to permit a scheme to provide that a ratepayer shall not be entitled to the benefits conferred upon a hospital supporter unless the tax in any year paid by him is not less than an amount fixed by the Board as a minimum; and in case the Board has fixed a minimum and has also fixed a date by which the minimum is to be paid in any year unless payment has been made by that date of an amount not less than the minimum payable by him in the year in which such date was fixed and in and for each subsequent year.

Section 29 is amended to provide that the expenses of taking any vote for the addition to or detachment from a hospital district shall be paid by the municipality or improvement district or part thereof in which the vote is taken.

New section 31*a* provides for the selection of members of a hospital board to represent municipalities in which an administrator has been substituted for the council; in such cases the selection may be made at meetings held in such places, in such manner and attended by such persons as the Minister may by order direct, or in the alternative by an election.

Section 47 is amended so as to require a Board to furnish the Minister with a monthly report as to the conduct, operation and affairs of its hospital for the preceding month with such particulars as may be prescribed by the Minister.

The same section is further amended as to the allowances payable to a Board member for attending meetings of the Board by providing that no allowance shall be made for meetings in any year in excess of twelve unless such meetings are held with the approval of the Minister.

This Act came into force on March 31, 1939.

#### The Cancer Remedy Act (Chapter 67).

This Act constitutes a Commission with the name of "The Commission for the Investigation of Cancer Remedies," with the status of a body corporate, consisting of not less than three nor more than five members, including the chairman, appointed by the Lieutenant Governor in Council.

The objects for which the Commission is constituted are to enquire and investigate into remedies and treatments for cancer and to determine the efficiency or otherwise thereof; and is given powers to enable it to make such enquiries and investigations, and to receive moneys appropriated for its use by the Parliament of Canada, the Legislature of the Province, or the King George V Silver Jubilee Memorial Fund and any other money donated to it, and to spend such moneys in carrying out its activities.

The Commission is empowered to require any person who holds out or uses any substance or method of treatment as a cancer cure to make full disclosure with regard thereto to the Commission, and to investigate the same, and to determine its efficiency or otherwise; and the Commission is required to make a report of its findings to the Minister and to nobody else.

The Minister is empowered to make public any report so made if he thinks it is in the public interest so to do.

The Commission, its members and employees are each relieved from liability in respect of anything done in pursuance of the Act.

Any person who makes default in complying with the requirements of the Commission under section 7 with regard to the making disclosure as to cancer remedies and treatments is declared to be guilty of an offence and liable on summary conviction in the case of a first offence to a fine of not less than ten dollars nor more than one hundred dollars and costs and in default of payment to imprisonment for not more than thirty days and in the case of a second offence to a fine of not less than one hundred dollars nor more than five hundred dollars and costs and in default of payment to imprisonment for not more than six months or to both fine and imprisonment.

This Act came into force on March 31, 1939.

#### The Maternal Welfare Act, 1939 (Chapter 69).

This Act empowers the Lieutenant Governor in Council on the recommendation of the Minister of Health to provide for grants of not more than fifteen dollars to expectant mothers who are in need of assistance.

It also provides for the appointment of additional district nurses in areas where existing nursing facilities are inadequate.

Expenditures under this Act are to be made out of moneys appropriated by the Legislature for the purpose.

This Act came into force on March 31, 1939.

#### The children of Unmarried Parents Act, 1923, Amendment Act, 1939 (Chapter 90).

This Act makes a number of amendments to The Children of Unmarried Parents Act, 1923.

Section 2 is amended so as to provide a new definition of "Judge" and "Superintendent".

Section 5 is amended to correct a misreference.

Section 11 is amended to enable the making of an order against a putative father declaring him to be the father of a child whether he has any means or not and to make an order for the maintenance of the child on proof of means.

The section is further amended to permit orders to be made for the payment of maintenance either monthly or yearly as well as weekly; to permit orders to be made for the payment of costs; and to permit the making of an order with the consent of the Superintendent for the payment of a lump sum in settlement of the liability of a putative father.

Section 24 is amended to include cases of admission of possible, as well as actual paternity.

This Act came into force on April 3, 1939.

#### The Chiropody Act Amendment Act, 1939 (Chapter 92).

This Act amends The Chiropody Act by inserting therein a new section to the effect that a person shall be deemed to be a chiropodist who in any way represents himself to be a chiropodist; also a further section permitting proof to be made in any legal proceedings of the fact of the registration or otherwise of any person as a chiropodist by the mere production of a certificate as to that fact signed by the Minister of Health or his deputy.

This Act came into force on March 31, 1939.

#### The Chiropractic Act Amendment Act, 1939 (Chapter 93).

This Act amends The Chiropractic Act by inserting therein a new provision permitting proof to be made in legal proceedings of the fact of the registration or otherwise of any person as a chiropractor by the mere production of a certificate as to the fact signed by the Minister of Health or his deputy.

This Act came into force on March 31, 1939.

#### DEPARTMENT OF PUBLIC HEALTH

RE	VENUE AND EXPENDITURE FOR THE	FISCAL YEAR	ENDED MAR	CH 31, 1940
DIV.	Vote.	Salaries.	Expenses.	Revenue.
1. 2. 3.	605.         Communicable Diseases           605.         Public Health Education           603.         Hospital Inspection	\$ 2,873.87 2,000.00 2,887.64	\$ 19.942.26 1.832.25 765.64	\$ 1,508.22 274.00
4. 5. 6. 7.	Grants 626. Laboratory 606. Public Health Nursing 608. Municipal Hospitals 610. Social Hygiene	39.881.42 2,617.40 8,677.34	471.907.05 4.750.00 16.472.85 1.040.51 7.637.32	4,899.11
8. 9.	605. Sanitary Engineering and Sani- tation 621. Dental Hygiene	7,001.39	5,263.65	1,353.44
10.	622. Mental Hygiene Institutions:	5,876.85	7,579.53	
11.	614-15. Prov. Mental Hosp., Claresholm.         623. Prov. Aux. Hosp., Claresholm.         632. Prov. Aux. Hosp., Raymond.         612-25. Prov. Mental Institute, Oliver.         613. Prov. Training School, Red Deer         604. Central Alberta Sanatorium         619. University of Alberta Hospital.         607. Vital Statistics         609. Insulin         611. Grants to Homes         605. Full Time Health Districts         631. Poliomyelitis         Administration         627-28. Child Welfare         629. Mothers' Allowance	287,381.94 15,436.68 17,313.66 123,731.92 53,561.76 132,627.99 16,047.38 600.00 18,637.40 \$ 737,154.64 14,136.64 2,367.93	$\begin{array}{r} 154,450.00\\ 10.569.29\\ 11,670.43\\ 58,541.53\\ 24,052.96\\ 240.281.08\\ 53,000.00\\ 4.743.32\\ 11,617.22\\ 3.950.00\\ 20,227.67\\ 18,249.25\\ 4.261.17\\ \hline \\ \$1.152.804.98\\ 59,401.36\\ 634.905.70\\ \end{array}$	145.774.48 6.229.91 6.566.05 60.563.89 41,762.50 56,109.40 55,163.05 883.23 \$ 381.087.28 23,510.62 157,010.75
Total	Expenditure: Public Health Department	\$ 753.659.21 \$2.600.771.25	\$1.847,112.04	\$ 561,608.65
Le	Mothers' Allowance Branches	710,811.63		
Le	ss: Public Health Revenue	\$1,889,959.62 381,087.28		
		\$1,508,872.34		AND ALLONGIAL

#### VITAL STATISTICS

Vital statistics registrations during 1939 were as follows:

Births	16.470
Marriages	7,838
Deaths	5,789

In all cases in which rates are shown these are based on an estimated population of 789,000 (the estimate of the Dominion Bureau of Statistics). In the following table the number of births and the birth rate, the number of marriages and the marriage rate, and the number of deaths and the death rate are shown for each of the years from 1934 to 1939:

Year	Births	Birth Rate	No. of Marriages	Marriage Rate	No. of Deaths	Death Rate
1934	$16.236 \\ 16.183$	21.10	6.053	7.86	5.337	6.93
1935		21.00	6.010	7.80	5.729	7.40
1936	15.786	20.40	6,020	7.80	6,147	8.00
1937	15.903	20.40	6,345	8.20	6,261	8.00
1938	15.891	20.30	6,973	8.90	5,871	7.50
1939	16,470	20.30	7,838	9.90	5,789	7.30

The birth rate for 1939 is the highest recorded since 1935. The marriage rate for 1939, namely, 9.90, is the highest in Canada for the year 1939. The death rate for 1939 is 7.30 as compared with 7.50 for 1938.

#### General Health Conditions.

There was a reduction of 82 deaths in 1939 as compared with the number registered in 1938. Deaths from contagious diseases showed a decrease of 14% as compared with the previous year. This is largely due to the reduced number of deaths from Pneumonia. The

following chief causes of death showed increases as compared with the previous year: Cancer, Diseases of the heart, and accidents.

The infantile mortality rate for 1939 (46.3) is the lowest in the history of the Province, and the maternal mortality rate (3.6) shows a considerable decrease as compared with the rate for 1938. Special reference is made to the chief causes of infant deaths in another section of this report.

Thirty-three deaths were reported as due to Whooping Cough in 1939 as compared with 30 such deaths in 1938. Of these 33 deaths, 31 were children under 3 years of age, 23 of which were infants under 1 year. Whooping Cough is one of the most serious diseases of childhood. A new vaccine is now available which is much more effective in the prevention of the disease than the vaccine formerly used.

The combined death rate (deaths per 100,000 population) for Diphtheria, Scarlet Fever, Measles and Whooping Cough is 8.2 as compared with 13 for 1938. The decrease in the rate is chiefly due to the decrease in the number of deaths from Measles and Diphtheria.

Thirty-six cases of Diphtheria with 7 deaths were reported in 1939 as compared with 74 cases and 18 deaths in 1938. Of the 36 cases in 1939, 12 were reported by cities, 6 by towns and villages, and 18 by rural districts. The death rate for Diphtheria in 1939 is .9 per 100,000 as compared with 2.3 in 1938.

The importance of the protection of children against Diphtheria cannot be over-emphasized. While action has been taken in a number of districts to protect all children in the community against Diphtheria, there are still too many districts in which no action has been taken.

The Department supplies Diphtheria Toxoid, used for purposes of immunization, free of charge, and strongly urges each local Board of Health and each School District in the Province to see that the menace of Diphtheria is removed. There is no excuse today for a death from Diphtheria.

In 1939, 2,224 children residing in 69 outlying districts were immunized against Diphtheria by a specially qualified Health Inspector on the Departmental staff, part of whose time is given to this work.

Forty-five cases of Smallpox were reported in 1939, and no deaths occurred from this cause as compared with 34 cases and no deaths in 1938. Forty-four of the Smallpox cases in 1939 were reported by rural districts, and 1 case by a town.

This outbreak of Smallpox was traced to a resident of Southern Alberta, who visited an adjoining state and developed a rash a few days after returning to the Province. The case was considered to be Chickenpox, and no physician was consulted until a number of cases developed in the community. While the disease was of a mild type, this outbreak serves to remind us of the speed with which Smallpox travels through an unvaccinated community.

Surveys have shown that there are many districts in the Province in which not more than 30% of pre-school and school children are vaccinated. Children should be vaccinated in childhood, preferably during the first six months of life. In 1939, 2,346 persons in 69 outlying districts were vaccinated by the Health Inspector engaged in this work. It is noteworthy that many of these outlying districts are better protected against Smallpox than well-settled areas in which local medical services are available.

Forty-four cases of Typhoid Fever and 2 cases of Paratyphoid Fever were reported in 1939 as compared with 77 and 8 cases respectively in 1938. Six deaths were reported as due to Typhoid in 1939, and one as due to Paratyphoid, giving a death rate of .8 for Typhoid and .1 for Paratyphoid.

It is necessary to stress once again the importance of carriers in the spread of Typhoid Fever and the need of constant supervision of local water, milk and food supplies. The typhoid carrier is the greatest single factor in the spread of the disease, and such individuals must be kept under careful supervision to ensure that they do not become factors in the spread of infection. It is essential that local health authorities co-operate with the Department not only in the investigation of sources of infection, but also in the supervision and the control of carriers.

#### Rocky Mountain Spotted Fever and Sylvatic Plague Survey.

Mr. J. H. Brown, who had charge of the Rocky Mountain Spotted Fever and Sylvatic Plague Survey in 1938, also had charge of this work in 1939.

The work got under way on May 1st and continued until September 1st. The survey crew consisted of Mr. J. H. Brown and Dr. F. O. Morrison. It was first intended to divide the season's work into two divisions; the first part—from May 1st to July 1st—to be devoted to the collection of ticks, and the second part—from July 1st to September 1st—to be devoted to the plague survey. Due to unsettled weather in the early part of the season, this procedure could not be followed, and it was necessary to carry on both surveys at the same time.

Two new phases of the work were added this year, namely: an investigation into the human phase of equine encephalomyelitis, and a rodent population survey.

It has been known for some years that the Rocky Mountain Spotted Fever Tick (Dermacentor Andersoni) was present in Southern Alberta. Since 1935 it has been strongly suspected that many of these ticks were infected with the Rocky Mountain Spotted Fever virus, but no definite proof of this was obtained until this year when ticks collected in the Manyberries district were reported positive for Rocky Mountain Spotted Fever by the Laboratory.

During the season of 1939, 25 localities were investigated for the presence of ticks, and a total of 12,417 ticks were collected. In addition to the tick specimens from the Manyberries district which were found to carry Rocky Mountain Spotted Fever infection, ticks from 10 other districts were reported positive for Tularaemia. This is a serious disease which is contracted by humans either from handling of infected animals such as rabbits, or by the bite of infected ticks or deer flies.

A new suspected tick disease was discovered in 3 patients admitted to the Medicine Hat General Hospital. These people came from the East End district of the Province of Saskatchewan, about 50 miles east of Manyberries.

#### Sylvatic Plague and Rodent Population Survey.

During the course of this work, 1,227 small mammals, mostly rodents, were shot, and 142 were trapped; 1,865 fleas were collected, and 43 flea specimens were sent in to the Laboratory. The flea index was 1.36.

In connection with the rodent population survey it was necessary for the survey crew to devise some method that would give a fairly representative picture of the rodent population and which could be used from year to year. The method devised was to start at a fixed point, such as a school, or church, or a road junction, and count the gophers visible on the road allowance for a distance of one measured mile, making notes on the type of vegetation, kind of weather and time of day. Estimates were also obtained from municipal secretaries, farmers, etc.

All specimens of gophers as well as specimens of fleas forwarded to the Laboratory at Kamloops, B.C., were reported negative for Sylvatic Plague with the exception of the last specimen collected, which, together with the fleas removed from the same, were reported positive. This specimen was found near Stanmore, N.W. Sec. 33, Tp. 31, Rge. 11, W. of the 4th.

Stanmore is approximately 20 miles east of Hanna, and is the locality in which a resident contracted a fatal disease in 1937. This disease was apparently contracted through an infection of the hand which occurred when the party in question was engaged in the skinning of mink that had died after feeding on gophers collected in the High Slough area. The above mentioned case was considered to be possibly Bubonic Plague, but this could not be established at the time of its occurrence.

From conversation with farmers in this district, the survey crew was informed that for the past three or four years gophers had been dying off. Practically all gophers collected were in poor condition, and it would appear that some disease had been prevalent among the rodents of this area for some time.

The Department proposes to extend the survey work in the High Slough area during the coming year, as there appears to be good evidence that Sylvatic Plague infection is prevalent among gophers in this area.

The co-operation of the Rockefeller Foundation in providing a grant of \$1,425.17, representing one-half of the cost of the survey, and the assistance of the Federal Department of Health in providing the Laboratory services required, made this survey possible. The results already obtained are all that is necessary to indicate the value of this work which is of the most vital importance.

We have been most fortunate in the personnel engaged in this work, namely: Mr. J. H. Brown, Director of the Survey, and Dr. F. O. Morrison.

#### Poliomyelitis.

Twenty-four cases of Poliomyelitis were reported in 1939, and 5 deaths occurred from this cause as compared with 105 cases and 15 deaths in 1938.

The distribution of cases reported by months is as follows: January, 3; February, 4; March, 2; April, 2; May, 2; June, 1; July, 0; August, 3; September, 5; October, 0; November, 0; December, 2.

The age distribution is as follows: 0-1, 2; 2-4, 4; 5-14, 12; 15-24, 4; 25-44, 2.

Under The Poliomyelitis Sufferers' Act which went into effect on April 1, 1938, free treatment is provided for patients suffering from paralysis due to Poliomyelitis and certified by the attending physician and an orthopaedic specialist as likely to benefit from treatment in hospitals equipped to provide the special type of treatment indicated in these cases. Under this Act authority is also given to provide vocational training and academic instruction for children whose parents are not in a financial position to provide such training. The aim is to provide such assistance as will enable such persons to become self-supporting as far as possible.

During the year, 25 children were admitted to the University Hospital, Edmonton, and 9 were admitted to the Junior Red Cross Hospital, Calgary, under the terms of agreements in effect between the Department and these hospitals which provide for the care of these children. Assistance was extended to 6 children to obtain vocational training, and to 21 to complete academic and secretarial courses.

#### Influenza and Pneumonia.

Influenza was responsible for 216 deaths in 1939 as compared with 174 in 1938. The deaths registered as due to Pneumonia numbered 362 in 1939 as compared with 488 in 1938, a decrease of 126, or 25%. Influenza and Pneumonia together accounted for 578 deaths or 10% of all deaths reported in 1939.

With the prompt use of the new drugs available for the treatment of Pneumonia, and with the early administration of typed Pneumonia serum where this is indicated, a still further reduction in the death rate from Pneumonia should be experienced.

#### Tuberculosis.

Two hundred and eighty-three deaths were reported from Tuberculosis in 1939 as compared with 280 for the previous year. The death rate for all forms of Tuberculosis, including the Indian and Metis population, is 35.9 per 100,000 population in 1939 as compared with 35.8 for 1938. The total deaths from all forms of Tuberculosis, excluding Indians and Metis population, numbered 121 as compared with 141 in 1938, giving a death rate of 15 per 100,000 population. This is the lowest death rate yet recorded in the Province.

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

Nine hundred and ninety-seven deaths were reported from diseases of the heart in 1939 as compared with 895 deaths reported from this cause in 1938. These 997 deaths represent 17.2% of the total deaths reported for the year, giving a death rate of 126.4 per 100,000 population.

Diseases of the circulatory system were responsible for 550 deaths representing 9.5% of all deaths registered in the Province during the year, and giving a death rate of 69.5 per 100,000 population.

For every 1,000 deaths registered in 1939 from all causes, diseases of the heart and circulatory system accounted for 267.

#### Cancer.

Six hundred and forty-seven deaths were registered as due to Cancer in 1939, a decrease of 32 deaths as compared with the number registered in the previous year, giving a Cancer death rate of 82 as compared with 87 for 1938. Cancer ranks second in the list of causes of death, accounting for 11.2% of all deaths registered in 1939. It is necessary to again call attention to the vital importance of early recognition and prompt and effective treatment of the disease in its early stages. Therein lies the hope for the Cancer patient.

Educational work has been actively carried on by the Alberta Branch of the Canadian Association for the Control of Cancer, and also by the Alberta Division of the Canadian Medical Association. The Department has co-operated as in previous years in connection with the educational work being carried on in the Province.

During the year, 647 cases of Cancer were reported to the Department by physicians and hospitals. A summary of the cases reported has been prepared as in previous years.

#### The Cancer Remedy Act.

Under the authority of The Cancer Remedy Act which went into effect on March 31st, a Commission for the Investigation of Cancer Remedies was appointed. The following were appointed on this Commission: Dr. W. A. R. Kerr, Dr. J. K. Fife, Miss Alice F. Keith, Mr. J. B. Corbett, Mr. J. B. Stauffer.

A meeting of the Commission was held on October 6th at which routine business was discussed.

#### Deaths by Violence.

Deaths due to violence numbered 364 in 1939 as compared with 358 in 1938, representing 6.3% of the total deaths registered for the year, and giving a death rate of 46.4 per 100,000 population.

There were in addition, 103 suicides in 1939.

Highway accidents accounted for 99 deaths, of which 81 were due to automobile accidents, an increase of 4 over the number of deaths due to automobile accidents in the previous year.

The deaths and injuries resulting from automobile accidents constitute a serious public health problem which requires scientific study.

There were 53 deaths registered as due to drowning in 1939 as compared with 38 during the previous year. Practically all such deaths are preventable. The hazards connected with swimming and the use of boats, canoes and other such watercraft by inexperienced persons require to be much more generally recognized. Attendants experienced in methods of resuscitation should be on duty at all swimming beaches and swimming pools in the Province.

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

199	А.	TD 7	E	-
	A	FS 1	100	

	A 122.23	LAD A	
Homicides Attack by venomous animals Food poisoning Accidental absorption of toxic gases Other acute accidental poisoning (except by gas) Conflagration Accidental burns (conflagration ex- cepted) Accidental Mechanical suffocation Accidental drowning Accidental injuries by firearms	1 11 5 11 18 6 53	Accidental injuries from falling, crushing or landslides Injuries inflicted by animals Hunger or thirst Excessive heat Excessive cold Other accidents Violent deaths (accidental, suicide or homicide), unknown Lightning Capital punishment	11 2 2 20 1 5
Accidental injuries by cutting in- struments	3	Total	367

TABLE 2

SPECIAL CLASSES OF ACCIDENT	TAL DEATHS INCLUDED IN ABOVE	
Accidents in mines and quarries 17	Automobile and motorcycle accidents 81	
Accidents caused by machines 14 Railway accidents 11	Other land transportation 18 Water transportation 14	
Street car accidents 1	Air transportation	

#### Infantile Mortality.

There were 763 deaths of children under 1 year of age registered in 1939 as compared with 812 during the previous year, a decrease of 49 deaths.

The infantile mortality rate for 1939 is 46.3 as compared with 51 for the previous year. The infantile death rate for 1939 is 11 less than the average rate for the five preceding years, and is the lowest rate yet recorded in the Province.

Attention is again directed to the higher death rates among children residing in the towns, villages and rural districts. In 1939 the average infantile mortality rate for rural districts (including the smaller urban centres) is 54, and for the 7 cities of the Province is 34. This means that the death rate for infants under 1 year of age in rural districts is 59% higher than the death rate of such infants in the cities.

Of the 763 deaths of children under 1 year of age in 1939, 381 occurred within the first month of life, of which 277 occurred within the first week and 154 on the first day of life. This means that 50% of the deaths of children under 1 year of age occurred during the first month.

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

#### Maternal Mortality.

Maternal causes were responsible for 59 deaths in 1939 as compared with 68 in 1938, a decrease of 9 deaths. The maternal mortality rate (deaths of mothers per thousand living births) in 1939 is 3.5 as compared with 4.3 in 1938. The average maternal mortality rate for the last 5 years is 4.8.

The following are the chief causes of maternal deaths registered in 1939:

Puerperal Septicaemia Abortion with septic condition Abortion without septic condition Ectopic Gestation	7 10 1	Puerperal Haemorrhage Puerperal Albuminaria and Eclampsia Puerperal Embolism	7
Ectopic Gestation			

The maternal mortality rate for 1939 is 18% lower than the rate for the preceding year.

Health authorities are of the opinion that the maternal death rate could be reduced by at least 50%, and a marked improvement effected in the health of mothers both preceding and following childbirth, if we made full application of present knowledge concerning maternal hygiene. It is of interest to note that 69% of the births in the Province in 1939 occurred in hospitals.

#### Full-Time Health Units.

The work of the two units established in 1931, namely, the Red Deer Health Unit and the Foothills Health Unit, as well as that of the Lamont Health Unit which was established in 1938, has been carried on as in previous years.

In October, 1939, a fourth Health Unit was established, namely, the Stettler Health Unit. The following municipal districts, towns and villages are included in the Stettler Health Unit: M.D. of Waverly No. 367, M.D. of Haig No. 396, M.D. of Lakeside No. 397, M.D. of Lamerton No. 398, M.D. of Success No. 336, M.D. of Vimy No. 337, Towns of Stettler and Big Valley, Villages of Erskine, Clive, Mirror and Donalda. The total population of the Stettler Health Unit area is 14,000, and the headquarters are located in the town of Stettler.

Inquiries have ben received from a number of other districts in the Province in regard to the establishment of Health Units. Through the organization of these units, full-time preventive health services are made available to the residents of rural and urban municipalities such as those enjoyed by the residents of the larger cities. It is the policy of the Department to proceed with the organization of additional health units until all sections of the Province are provided with this service.

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

#### Health Education.

Our health educational work is carried on through the publication of bulletins, through articles in the press, by means of lectures, radio talks, movies, health exhibits and demonstrations. About 30 bulletins and pamphlets dealing with various health questions are available for distribution. Two thousand eight hundred requests for health literature were received during the year. Approximately 25,000 bulletins and pamphlets were distributed by the Department. Two hundred and seventeen lectures were given by the Director of the Health Education Division, at which the total attendance was 19,285. Of this number, one-half were children of school age.

The demand for information in regard to health increases yearly. No activity pays richer dividends than that of health education, and we have continued our policy of promoting this service not only through the health education division, but through all other divisions of the Department. It is essential that all divisions of the Department be permeated with an enthusiasm for educational activities if maximum results are to be obtained.

#### Public Health Nursing.

There are 31 nurses on the Departmental staff. Of these, one is in charge of the Child Welfare Clinic serving the Edmonton district, one in charge of the Child Welfare Clinic serving the Calgary district, one in charge of the clinic serving the Medicine Hat district, and one in charge of the clinic serving the Drumheller district. One serves the Municipal District of Norma and the Town of Vegreville. Twenty-five district nurses are stationed in outlying districts remote from medical and hospital services.

During the year 1939, provision was made for the appointment of 17 additional district nurses. Before the close of the year, 12 new districts were established and in operation, while organization was under way in 5 other districts. The new districts established are as follows: Bonanza, Grouard, MacKay, Whitecourt, Newbrook, Maloy, Tulliby Lake, New Brigden, Youngstown, Hilda, Vauxhall and Plamondon. The 5 districts in which organization is under way preparatory to the establishment of district nursing service are as follows: Lomond, Grassland, Dixonville, Breynat and Whitemud Creek. The expansion of the district nursing service during the year made this service available in 12 new districts in which the need for the same was great. This increase in our district nursing service marks a distinct forward step in bringing health service to the people in 12 additional outlying areas in which neither medical nor hospital facilities of any kind were available.

A special effort is made to select well qualified nurses whose physique, character, training and experience are such as to fit them for the heavy responsibilities which they are called to assume in connection with this work.

There were 429 Child Welfare Clinics held in Edmonton, Calgary, Medicine Hat, Redcliff, Drumheller and Vegreville, with a total attendance of 10,855 infants and pre-school children.

The following table shows the work done by our 25 district nurses, the district nurse employed by the Municipal District of Woodford No. 550, and the district nurse employed by the District Nursing Association of Wanham:

Number of homes visited Number of office visits Number of dressings Number of medical cases Number of surgical cases Number of obstetrical cases Number of abortions Number of pre-natal visits	11,969 2,459 5,697 1,152 311 45	Number of pre-natal consultations Number of child welfare visits Number of cases sent to hospital Number of smallpox vaccinations Number of inoculations Number of communicable disease cases	1,136 291 375 930 1,577 141
--	--	---	--

A full account of the splendid work done by our public health and district nurses will be found in the report of the Public Health Nursing Division.

#### Travelling Clinic.

The Travelling Clinic visited 25 centres during the year, the clinic being in the field from the middle of May to the middle of August. The itinerary for 1939 included the following districts: Breton, Minnihik, Iola, Caroline, Cremona, Vauxhall, Travers, Hussar, Hilda, Youngstown, Oyen, Sedalia, Altario, Veteran, Sunnynook, Faust, Grouard, Debolt, Pipestone Creek, Valhalla, Bay Tree, Belloy, Spirit River, Blueberry Mountain and Tomahawk.

The staff consisted of the surgeon in charge, one physician, two dentists, three nurses and two truck drivers. Four thousand and thirty-four persons were examined by the clinic staff, and 723 operations for the removal of tonsils and adenoids were performed as well as a considerable number of minor operations.

The dentists on the Travelling Clinic staff examined 4,097 children, recommended 1,709 for dental treatment, gave dental treatment to 1,204, and extracted 1,198 teeth.

It is only possible during the short period the Travelling Clinic is in the field to visit a few of the outlying districts in which the need for this service is urgent. An effort is made to vary the itinerary from year to year so that the services of the clinic may be made available to the people in as many outlying districts as possible.

#### Maternal Welfare Grants.

Under the authority of The Maternal Welfare Act which came into force on March 31st, provision was made by which a grant not exceeding \$15.00 might be made to an expectant mother in need of such assistance. An application form is required to be completed by each applicant, and such investigations are made as considered necessary to determine the need of the applicant. During 1939 \$13,780 dollars were expended in these Maternal Welfare grants.

#### Social Hygiene.

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

The total number of cases under treatment at all clinics in 1939 was as follows: Syphilis 693, Gonorrhoea 1,127, Chancroid 1, Non-venereal 883, making a total of 2,704.

Educational work in connection with the prevention and control of venereal diseases has been carried on as usual, more time having been devoted to this work than in previous years. Ninety-nine lectures were given during the year to 7,500 people. There is a real need for the expansion of our educational programme in this field, and there is an increasing public demand for authoritative information and advice concerning the prevention and control of venereal diseases.

#### Provincial Laboratory.

Eighty-two thousand six hundred and eighty-six examinations were made by the Provincial Laboratory staff in 1939. Chicken blood examinations were eliminated, and the work in connection with the production of equine encephalomyelitis vaccine was discontinued during the year.

Each year the number of public health examinations made by the Laboratory staff shows an increase. The present staff is taxed to the limit of its capacity in carrying on this work. Additional laboratory space and additional staff is urgently required to cope with the volume of work which comes into the Laboratory from all sections of the Province.

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

The vaccines and sera used for the prevention and treatment of various communicable diseases are distributed by the Provincial Laboratory. The staff of the Laboratory make available to local boards of health, hospitals and physicians a service which is of vital importance in the conduct of public health work. The estimated value of the work done by the Laboratory in 1939, on the basis of minimum charges only, is \$211,683.29. No charge is made for any public health work done by the Laboratory.

#### Sanitary Engineering and Sanitation.

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

Eight hundred and ninety-one reports of analyses of water, ice and milk were received from the Director of the Provincial Laboratory during the year, and the necessary steps were taken to deal with the various conditions requiring attention.

The work of the plumbing inspector, whose appointment was noted in last year's annual report, has demonstrated the value of this service, particularly in those districts in the Province in which there is no adequate local supervision of plumbing installations and repairs.

Once again we would emphasize the responsibility which rests on local municipal authorities for the safety of water supplies. Raw water from streams, irrigation ditches, and other such sources of supply is unsafe. Any municipal authority which permits the use of such water will sooner or later experience a serious outbreak of water borne infection.

We would also draw to the attention of municipal authorities their responsibility in the safeguarding of milk supplies. Municipalities permitting the use of unsafe water supplies and the sale of unsafe milk have been found negligent by the courts. Municipalities should, therefore, take such measures as will ensure safe water supplies as well as safe milk supplies for their citizens.

One hundred and twenty-eight complaints and requests for investigations were received from various municipalities, and the same were dealt with by the Health Inspector. Seven inspections of lumber, tie, saw-mill and mining camps were made during the year. The arrangement by which the services of an additional sanitary inspector were made available on a half-time basis provided material assistance in dealing with the many sanitary problems referred to the Department. As the number of municipalities served by our Full-Time Health Units increases, the more satisfactory our sanitary inspection service will become.

#### Dental Hygiene.

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

#### Hospital Inspection.

Ninety-three approved hospitals received the Government grant in 1939. Seventy-eight private hospitals (largely nursing homes and baby shelters) were licensed under the provisions of The Private Hospitals Act. One hundred and thirty inspections of hospitals and baby shelters were made by the medical inspectors of the hospitals during the year.

The total number of operations reported by hospitals in 1939 was 39,243. The classification of these operations is shown in the report of the Hospital Inspection Division.

The approved hospitals had a total bed capacity of 4,503, a total bed complement of 4,390 and 695 bassinets. In previous years' reports, bassinets were included in the total bed capacity.

On the basis of a population of 789,000, we had one hospital bed available (including cribs and bassinets) for every 155 of the population, or 6.5 beds per 1,000 population.

Ninety-eight thousand and fifty patients were treated during the year. The total patient days for all hospitals were 1,158,617. This means that in 1939, hospital treatment was provided for 12.4% of the population, or one in every eight persons. The average length of stay in hospital, excluding Isolation, Orthopaedic, D.P.N.H. and Tuberculosis Division cases, was 10 days.

Twelve thousand two hundred and fifty-seven maternity cases were cared for in hospitals during the year. Sixty-nine per cent. of the living births which occurred in Alberta in 1939 took place in approved hospitals.

The average cost per patient day for all approved hospitals is \$2.76 as compared with \$2.82 in 1938 and \$2.79 in 1937.

The construction of the Claresholm Municipal Hospital was started in 1939, and patients were admitted early in 1940. Additions were constructed to the following hospitals during the year: Misericordia Hospital, Edmonton; General Hospital, Edmonton; Viking Municipal Hospital; Rocky Mountain House Hospital.

#### Municipal Hospitals.

There were 24 municipal hospitals in operation during the year, providing accommodation for 952 patients, including babies. In the municipal hospitals 20,655 persons received treatment in 1939, representing 21% of all patients under treatment in the hospitals of the Province.

A detailed statement in regard to hospital administration and covering all hospitals in receipt of a Government grant is contained in the report of the Hospital Division.

#### Division of Tuberculosis Control.

The number of treatment beds available for Tuberculosis was the same as for the previous year, namely, 399. The total patient days for all Sanatoria in 1939 were 139,909.

The work of the diagnostic clinics was carried on as in previous years. At the various diagnostic clinics, 4,886 examinations were made during the year as compared with 4,959 examinations during the previous year.

As a result of the activities of the Tuberculosis Division, 441 new cases of Tuberculosis were discovered. Non-infectious cases of Tuberculosis are not admitted under the scheme by which free treatment is provided for all *bona fide* residents of the Province. Funds should be made available to provide the additional beds required for this purpose in the near future, as many of these patients require the highly specialized type of treatment only available in our Sanatoria.

Including the examinations of children attending Indian Schools, 7,032 medical examinations were made in 1939 by the diagnosticians on the staff of the Division.

We have now 13 Tuberculosis clinic centres, and travelling diagnosticians visited 53 other centres in the Province during the course of the year.

At the request of the Indian Affairs Branch of the Federal Government, 1,233 children attending nine Indian schools were examined by our staff during the year, this service being paid for by the Federal authorities.

In addition, surveys of the Normal schools, the Provincial Institute of Technology, Crescent Heights High School, Calgary, and the schools in Drumheller were made during the year, 1,269 students being examined.

Our activities in connection with the prevention and control of Tuberculosis were carried on along much the same lines as in previous years. This is a service of the utmost importance to the health and well-being of our people, and Alberta now ranks with the leaders in the fight against this disease. Detailed information in regard to the various activities of the Division of Tuberculosis Control will be found in the report of the Division.

#### Mental Health Division.

MOVEMENT OF PATIENTS-MENTAL INSTITUTIONS, 1939

Sugar St	On Books, Jan. 1, 1939					Admissions. Discharge 1939 1939		narges, 939	Deaths, 1939		On Books, Dec. 31, 1939	
	Psychotic	Mentál Defectives	Psychotic	Mental Defectives	Psychotic	Mental Defectives	Psychotic	Mental Defectives	Psychotic	Mental Defectives		
Oliver Ponoka Red Deer Claresholm Raymond	691 1427 91	78 139 214 6	54 558 18 103	2 56 11 13	22 528 14 11	1 13 8 	32 82 2 1	1	691 1375 93 91	78 182 215 6 13		
Totals	2209	437	733	82	575	22	117	3	2250	494		

This table indicates that there was an increase in patient population in the Provincial Mental institutions of 98 during the year. On January 1, 1939, there were 2,646 patients in all institutions, and on December 31, 1939, there were 2,744. Since the year 1911 when the Provincial Mental Hospital at Ponoka was opened to receive patients, there has been a steady increase of from 5% to 8% in the patient population in the Provincial Mental institutions. During 1939 this increase was 3.7% over the previous year.

The rate of hospitalized patients to general population has shown an increase from 156 per 100,000 in 1921 to 348 per 100,000 in 1939.

Five hundred and fifty-eight psychotic patients and 56 mentally defective patients were admitted to the Provincial Mental Hospital, Ponoka. Five hundred and twenty-eight psychotic patients and 13 mentally defective patients were discharged, and 82 deaths occurred of psychotic patients during the year.

The most serious problem with which we are faced in so far as the Provincial Mental Hospital at Ponoka is concerned is the overcrowding of the wards for disturbed women patients. Additional accommodation to relieve this situation is urgently required. Another urgent requirement at Ponoka is the construction of an extension to the kitchen, and the provision of the modern equipment required to handle the work carried on in this department in an expeditious and efficient manner. No extension of kitchen facilities has been provided since the erection of the hospital in 1911.

The construction of a new two-storey building at the Provincial Training School for mental defectives at Red Deer was begun in 1939. This building will provide additional accommodation for 70 patients, which accommodation will be of great assistance in dealing with the large number of mental defectives on the waiting list.

Farm Boys' Dormitory.—The Gaetz farm, comprising 420 acres with a commodious farm home and farm buildings, which joins the Provincial Training School property, was acquired in 1939. The farm house will be converted into a dormitory for boys from the Training School employed on the farm. The purchase of this property will provide much needed facilities for the training and instruction of older boys in farm work, and will also provide the extra acreage required for the purposes of the institution at Red Deer.

The Provincial Training School for mental defectives provides accommodation for 217 patients, 75% of whom are of the low grade type requiring the maximum of nursing care and supervision. During the year 11 patients were admitted to the Training School, 8 discharged and 2 deaths occurred.

There were 769 patients in the Mental Institute, Oliver, at the beginning of 1939, and the same number at the end of the year. During the year 54 psychotic patients and 2 mental defectives were admitted, 22 psychotic patients and 1 mental defective patient were discharged, and 32 deaths of psychotic patients occurred, and 1 death of a mentally defective patient.

The Auxiliary Mental Hospital at Claresholm provides accommodation for 100 women patients. There were 97 patients in this institution at the beginning of 1939, and 99 at the close of the year. There were 18 admissions, 14 discharges, and 2 deaths during the year.

The Auxiliary Mental Hospital at Raymond.—The building formerly utilized as the School of Agriculture, Raymond, was converted into a hospital for chronic women patients in the latter part of 1938, and was opened early in 1939, 103 psychotic patients and 13 mentally defective patients being transferred from the Provincial Mental Hospital, Ponoka. During the year 11 psychotic patients were discharged from this institution, and 1 death occurred, leaving 91 psychotic patients and 13 mentally defective patients in this institution at the close of the year. This accommodation has proven of material assistance in reducing the overcrowding of the wards for chronic patients at Ponoka.

#### Guidance Clinics.

Regular clinics were conducted in Edmonton, Calgary, Lethbridge, Medicine Hat, Drumheller, High River and Lamont as in previous years. A new clinic was established in Red Deer during the year.

Patients are referred to these Mental Hygiene Clinics by local health and school authorities, local physicians, local magistrates, welfare and other organizations. Many parents visit these clinics for the purpose of obtaining advice in regard to mental hygiene problems in which they are interested or concerned in the home and community. This is a service of the most far-reaching importance to the present and future well-being of the Province, and one which the Department hopes to extend as soon as the necessary provision can be made for this purpose.

There were 95 Guidance Clinics conducted in 1939, 403 new cases were presented, and 1,275 follow-up cases were dealt with. Since this service was established in 1929, 3,751 new cases have been dealt with by the staff.

#### Eugenics Board.

The work of the Eugenics Board is carried on under the authority of The Sexual Sterilization Act of 1929. Six meetings of the Board were held during the year, including five sessions at the Provincial Mental Hospital, Ponoka, and one in Edmonton. During the year 178 cases were presented to the Board. Since the Act was proclaimed in 1929, 1,461 cases have been presented to and approved by the Board.

During the year 47 operations were performed, bringing the total number of operations performed up to the end of 1939 to 690, of which, 263 were operations on male patients and 427 on female patients.

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

#### Board of Visitors.

The Board of Visitors, composed of Dr. J. M. MacEachran, Chairman, Dr. E. W. Pope, Dr. E. G. Mason, Mrs. J. W. Field, and Mr. Kibblewhite, M.A., Secretary, visited each of the following institutions during the week beginning December 15th: Provincial Mental Institute, Oliver; Provincial Mental Hospital, Ponoka; Provincial Training School, Red Deer; Provincial Auxiliary Hospital, Claresholm; Provincial Mental Auxiliary Hospital, Raymond; and the Central Alberta Sanatorium, Calgary.

A very comprehensive report was made by the Board on each of the institutions visited. The Department is greatly indebted to the members of the Visiting Board for the splendid service which they have rendered in this connection.

#### Child Welfare and Mothers' Allowance Branch.

Under the provisions of The Child Welfare Act, any child declared by a Judge of the Juvenile Court to be a neglected child is made a ward of the Superintendent of Child Welfare.

Four hundred and thirty-two children were declared permanent wards in 1939 as compared with 306 in the previous year.

#### Juvenile Delinguents.

Eight hundred and eleven cases were dealt with by the Juvenile Court in 1939 as compared with 795 cases during the previous year.

#### The Mothers' Allowance Act.

Under this Act assistance was extended to 2,262 mothers having in their custody, 4,673 dependents. The expenditure for mothers' allowances for the fiscal year was \$633,710.60 as compared with an expenditure of \$622,836.71 for the previous fiscal year.

Detailed information in regard to the various activities of the Child Welfare and Mothers' Allowance Branch will be found in the report of the branch which is included herewith.

#### General Administration.

A statement of revenue and expenditure for the fiscal year ending March 31, 1940, will be found on page 10 of this report. An analysis of this statement shows that the total expenditure for all activities of this Department was \$2,600,771.25. The expenditure for the Child Welfare and Mothers' Allowance Branch amounted to \$710,811.63. The balance, namely, \$1,889,959.62, is the amount expended in carrying on the usual activities of the Department. Of the latter sum, \$1,677,366.16 was expended for the maintenance and operation of the various institutions which are under the administration of the Department, for grants to hospitals and homes, and for other forms of what might be termed treatment services; \$212,593.46 representing 11.2% of the total budget of the Depart-

#### ANNUAL REPORT, 1939

ment, excluding the amounts expended for Child Welfare and Mothers' Allowances, was expended for all other activities, including clinic services, vital statistics, communicable disease control, public health units, general administration and all preventive services. Thus, out of every dollar expended by the Department, 11.2c were spent for preventive health activities. The need for the extension of preventive health service, particularly in our rural and smaller urban centres is great. No expenditure will pay larger dividends in ensuring a sound structure of health in this Province.

In bringing this summary of the activities of the Department during the year 1939 to a conclusion, I desire to express my sincere appreciation of the splendid co-operation and loyal service given by the directors and the members of the staff of all Divisions of the Department, including the superintendents of all institutions and the members of all institutional staffs which come under the jurisdiction of the Department.

All of which is respectfully submitted.

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

#### Communicable Disease Division (A. C. McGugan, M.D., D.P.H., Director)

This division of the Department of Health is concerned with the prevention and control of communicable diseases.

In unorganized territories, such as Local Improvement and Industrial Districts, the Provincial Board of Health is responsible for the control of contagious diseases and this branch directs, to the degree possible, the control of all outbreaks of communicable diseases in Local Improvement Districts. An average of about eighty such outbreaks comes under the direction of this Department annually.

Consultation services in the diagnosis of communicable diseases is provided to physicians on request. During the year about sixty cases of suspected communicable diseases, including Smallpox, Trachoma, Poliomyelitis and Typhoid Fever, were seen at the request of local doctors.

Epidemiological surveys were conducted throughout the year to discover the source of spread of certain communicable diseases, particularly Trachoma, Typhoid Fever and Smallpox. Twenty-one such surveys were conducted. In addition to these surveys twentyseven special investigations were made. This branch co-operates with local boards of health and advises and directs the control of outbreaks of communicable diseases in organized municipalities.

All cases of communicable diseases and all deaths from these diseases are reported to this branch. These statistics are recorded and forwarded weekly to the Federal Bureau of Vital Statistics.

Educational work in the control of communicable diseases is carried on through the compilation and distribution of literature and by radio and other public addresses. During 1939, eighty-nine such addresses were given by representatives of this Branch.

Immunization services are provided, to the extent possible, in those districts so remote from a doctor that otherwise this type of service would not likely be available. A summary of the work done follows:

Places visited during 1939	69
Individuals vaccinated against Smallpox	2,346
Inoculated against Diphtheria	2,224
Diphtheria reaction tests	617

#### TYPHOID FEVER

#### (Cases 44, Deaths 6)

Seven epidemiological surveys were made during the year, and four typhoid carriers were discovered.

These carriers were given instruction regarding the precautions necessary, particularly in the handling of food, and no further cases have developed as a result of contact with these carriers.

In one district in the Province where Typhoid Fever has been endemic for a number of years, 1,350 people were vaccinated during the year.

The control of Typhoid Fever requires sufficient staff and time to permit of careful surveys so that carriers may be located and

#### ANNUAL REPORT, 1939

controlled. Adequate control of sanitation and vaccination, where indicated, should supplement the epidemiological surveys.

#### TRACHOMA

#### (Cases 13, Deaths 0)

The reporting of Trachoma is quite incomplete. The cases recorded here were discovered in two communities in Southern Alberta. At the request of local authorities, some 87 persons were examined in these two communities. An extensive Trachoma survey is indicated in certain groups in this Province.

#### SCARLET FEVER

#### (Cases 1,113, Deaths 19)

There has been some reduction in the incidence of Scarlet Fever over the 1938 rate. When immunization against this disease becomes general, we can expect a material reduction in the incidence of Scarlet Fever.

#### SMALLPOX

#### (Cases 45, Deaths 0)

One outbreak was responsible for all the cases of Smallpox reported in 1939. A mild type of the disease was imported from the United States. The individual responsible for the cases moved into a community which had not been protected by recent vaccination, and the infection spread rapidly.

#### DIPHTHERIA

#### (Cases 36, Deaths 7)

While the incidence of Diphtheria in 1939 was only half of the number of cases which were reported in 1938, the fact remains that a number of people suffered and died from Diphtheria, and that these cases were preventable. It is obvious that thorough, systematic immunization against Diphtheria is necessary.

#### PULMONARY TUBERCULOSIS

#### (Cases 450, Deaths 217)

Statistically, there should be three newly reported cases of tuberculosis in any year for every death from Tuberculosis occurring in any one year. While the detection and reporting of cases is improving, apparently we are only about 70% efficient in our discovery of existing cases. Staff and facilities for more extensive Tuberculosis surveys is required in order that we may discover cases earlier and afford more protection for the individual and the group.

#### ACUTE ANTERIOR POLIOMYELITIS

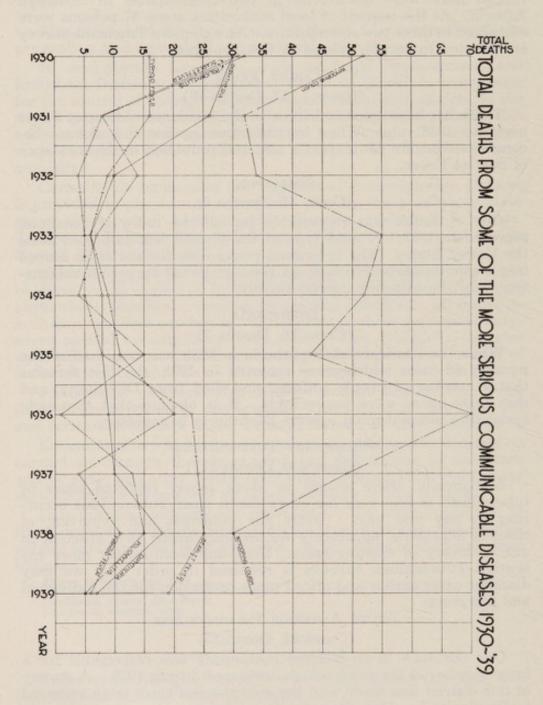
#### (Cases 24, Deaths 5)

One outbreak in an isolated community was responsible for a large number of the cases which developed during 1939. A survey of this district was made, and the convalescent cases were removed to Provincial hospitals for special treatment.

#### WHOOPING COUGH

#### (Cases 2,080, Deaths 33)

A reference to the graph will show that Whooping Cough is still responsible for the greatest number of deaths from communicable diseases. A recently elaborated vaccine offers a very effective preventive against this disease, which has a high mortality rate, especially in the first five years of life.



#### ANNUAL REPORT, 1939

#### TABLE 1

COMMUNICABLE	DISEASES	AS	REPORTED	FOR	1938	AND	1939
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	1938	1939
Actinomycosis Acute Anterior Poliomyelitis Chickenpox Diphtheria	$\begin{smallmatrix}&1\\105\\2,145\\74\end{smallmatrix}$	$     \begin{array}{r}       0 \\       24 \\       2,158 \\       36     \end{array} $
Encephalitis Lethargica Erysipelas	1 44	$1 \\ 48$
Infectious Mononucleuosis Measles Meningococcic Meningitis	$1,550 \\ 10$	5,382 3
Mumps Paratyphoid Fever	6,675 8	494 2 44
Typhoid Fever Pulmonary Tuberculosis Rubella	89 137	450 69
Scarlet Fever	1,452	45
Uudulant Whooping Cough	310	2.080

#### TABLE 2

#### TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR 1938 AND 1939

	1938	1939
- · · · · · · · · · · · · · · · · · · ·	488	362
Pneumonia (all forms)	174	216
Influenza (all forms)	206	217
Pulmonary Tuberculosis	74	66
Tuberculosis (all forms)	5	2
Erysipelas	25	19
Scarlet Fever	11	8
Encephalitis Lethargica	30	33
Whooping Cough	18	7
Diphtheria	4	7
Meningococcic Meningitis	11	6
Typhoid Fever	1	1
Paratyphoid Fever	15	5
Acute Anterior Poliomyelitis	10	
Smallpox	20	6
Measles	1	
Rubella	2	
Chickenpox	Ä	
Actinomycosis		

#### TABLE 3

#### DEATHS DUE TO COMMUNICABLE DISEASES IN THE CITIES OF EDMONTON AND CALGARY FOR THE YEARS 1938 AND 1939

	Edmonton		Calgary		
	1938	1939	1938	1939	
	9.4	51	36	38	
Pneumonia (all forms)	22	19	12	20	
Influenza (all forms)	40	32	12	6	
Pulmonary Tuberculosis	99	11	7	5	
Tuberculosis (all other forms)	6	1		1	
Diphtheria	0	Â		1	
Whooping Cough	1	1	4		
Acute Anterior Poliomyelitis	0	1		1	
Meningococcic Meningitis	1	1	1	î	
Typhoid Fever	0	-		-	
Paratyphoid Fever			9	1	
Ervsipelas		1	5	2	
Scarlet Fever	:	5	5	2	
Encephalitis Lethargica	4	4	~	1	
Measles			****		
Smallpox		1117			
Actinomycosis	2				

#### DEPARTMENT OF PUBLIC HEALTH

#### TABLE 4

#### DEATHS DUE TO COMMUNICABLE DISEASES IN THE SMALLER CITIES, TOWNS AND RURAL DISTRICTS FOR THE YEARS 1938 AND 1939

	1938	1939
Pneumonia (all forms)	358	273
Influenza (all forms)	140	177
Pulmonary Tuberculosis	154	179
Tuberculosis (all other forms)	44	50
Diphtheria	12	5
Whooping Cougn	26	28
Acute Anterior Pollomyelitis	8	4
Freeinalas	5	9
Typhoid Fever	7	
Paratyphoid Fever	i	1
Scarlet Fever	16	15
Encephalitis Lethargica	5	4
Measles	29	5
Actinomycosis	2	
Chickenpox	2	
Rubella	1	
Smallpox		

#### TABLE 5

#### DEATHS OF INDIANS IN THE PROVINCE DUE TO COMMUNICABLE DISEASES FOR THE YEARS 1938 AND 1939

	1938	1939
Pneumonia (all forms)	83	76
Influenza (all forms)	11	30
Pulmonary Tuberculosis	102	126
Fuberculosis (all other forms)	37	32
Whooping Cough	14	6
Typhoid Fever	1	2
Measles	3	
Diphtheria	****	1
Erysipelas	1	
Rubella		
Scarlet Fever	****	3

#### TABLE 6

#### (POPULATION, 789,000)

D

n

	Total Cases	Total Deaths	Morbidi Rate	Mortalit Rate	Case Fatality
Acute Anterior Poliomyelitis Cerebro-Spinal Meningitis Chickenpox	24 3 2.158	570	3.0 N.R. 273.7	0.6 0.9	20.8
Diphtheria Encephalitis Lethargica	36 N.R.	7 8	4.5	0.9 1.0	19.4
Erysípelas Influenza (all forms)	48 N.R. 494	$216^{2}$	6.1 62.6	$\begin{smallmatrix}&0.3\\27.3\end{smallmatrix}$	4.2
Mumps Measles *Pulmonary Tuberculosis	5,382 450	6 217	682.1 N.R.	0.7 27.5	0.1
†Pulmonary Tuberculosis, Indians Excepted Pneumonia (all forms)	N.R. N.R.	$91 \\ 362$	5.7	$   \begin{array}{r}     12.0 \\     45.8   \end{array} $	
Smallpox Scarlet Fever Typhoid Fever	1,113 44	19 6	141 5.6	2.4 0.7	1.6 13.6
Paratyphoid Fever Whooping Cough	2,080	$1 \\ 33$	263.6 8.7	0.1 4.2	50.0 1.6
Rubella	03		0.1		

\*See narrative report "Tuberculosis".

 $\dagger$ Indian population—Treaty and otherwise estimated at 29,000. N.R.—Not reported satisfactorily.

30

#### ANNUAL REPORT, 1939 31

### INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES FOR THE 10-YEAR PERIOD—1930-1939

		DIPHTH	ERIA			
			Total	Total	Morbidity	Mortality
Year		Population	Cases	Deaths	Rate	Rate
		660,000	269	30	40	4.5
		731,605	151	26	20 6.89	3.5 1.35
		740,000 757,000	51 32	10 6	4.23	.79
		769.000	31	8	4.00	1.00
		770.000	28	8	4.00	1.00
1936		772,782	47	9	6.00	1.00
		778,000	30 74	10 18	3.86 9.4	1.28 2.3
		783,000 789,000	36	10	4.5	0.9
1000		TYPHOID				
				10	10	2.4
1930 1931		660,000 731,605	69 42	16 16	5	2
1931		740.000	52	9	7	1.21
1933		757,000	46	6	6	.79
		769,000	57	7	7.4	0.9
1935		770.000 772.782	55 111	11 20	14.4	2.0
1936		778.000	34	4	4.37	0.51
1937 1938		783.000	77	11	9.8	1.4
1939		789,000	44	6	5.6	0.7
	ACUTH	ANTERIOR	POLIOMY	ELITIS		
1930	-	660,000	150	32	22.7	4.8
1931			23	8	3.2 5.2	1.1 1.8
1932		740,000 757,000	39 31	14 7	4.1	0.9
1933 1934		769.000	12	4	1.6	0.5
1935		770.000	162	15	21.0	2.0
1936		772,782	18	1	2.3	0.1
1937		778.000	169	13	21.72 13.4	1.67 1.9
1938 1939		783.000 789.000	105 24	15 5	3.0	0.6
		WHOOPING	G COUGH			
1930		660,000	1.246	52	188.8	7.8
1931		731,605	451	32	61.8	4.4
1932		740,000	665	34 55	88.6 241.7	4.5 7.2
1933		757,000 769,000	1.830 1.290	52	167.5	6.7
1934 1935		770,000	763	43	99.0	6.0
1936		772.782	1,793	73	232.0	9.0
1937		778,000	658	49	84.57	6.3
1938		783,000	310	30 33	39.6 263.6	3.8 4.2
1939		789,000	2,080	33	203.0	4.5
		SCARLET			155.0	4.7
1930		660,000 731,605	1.028 438	31 8	155.8 60.0	1.1
1931		740.000	202	4	26.9	0.5
1932 1933		757,000	216	5	28.5	0.6
1934		769.000	378	5	49.1	0.6
1935		770.000	642	8	83.0	$\frac{1.0}{3.0}$
1936		772,782	2.729	23 24	353.0 272.9	3.08
1937		778,000 783,000	$2,123 \\ 1,452$	25	185.0	3.2
$1938 \\ 1939$		789,000	1,113	19	141.0	2.4
		SMAL	LPOX			
1930		660,000	81	****	12.3	
1931		731,605	27	1	3.7	0.1
1932		740,000	1		0.1 0.1	
1933		757.000 769.000	4	1	0.1	0.1
1934 1935		770.000	- 4		0.5	
1935		772,782	56	1	7.0	0.1
1937		778,000	57	1	7.3	0.1
1938		783,000	34		4.3 5.7	
1939		789,000	45		5.1	

CLASS OF COMMUNICABLE DISEASES REPORTED IN 1939

32

#### DEPARTMENT OF PUBLIC HEALTH

#### ANNUAL REPORT, 1939

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Total Typhoid Fever and Paratyphoid Fever, 1939-46.

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	Citites: Calgary Edmonton Lethbridge Medicine Hat Red Deer Wetaskiwin Towns and Villages	Totals		Cities: Calgary Edmonton Towns and Villages Rural Districts	Totals		Edmonton Raymond M.D. of Coronation No. 334	Totals		Ponoka		Liberty No. 489 1.D. 723	Totals

SEPTIC THROAT	AGES	IOTAL           Nov.           0ct.           Nov.           Dec.           0-1           1-4           0-1           Nov.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$									$\begin{array}{c c c c c c c c c c c c c c c c c c c $		OSIS	$ \begin{bmatrix} 6 & 2 & 3 & 6 \\ 8 & 2 & 3 & 6 \\ 1 & 4 & 3 \\ 1 & 4 & 3 \\ 1 & 2 & 1 \\ 1 & 2 & 1 \\ 1 & 2 & 1 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 1 & 2 & 3 \\ 2 & 3 & 3 \\ 2 & 3 & 3 \\ 2 & 3 & 3 \\ 2 & 3 & 3 \\ 2 & 3 & 3 \\ 2 & 3 & 3 \\ 2 & 3 & 3 \\ 2 & 3 & 3 \\ 2 & 1 & 1 \\ 1 & 1$			
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## Division of Public Health Education (F. T. COOK, Lecturer)

The growing interest in health education during recent years was again apparent in 1939. The increasing amount of correspondence on this phase of public health corresponds with that reported by Departments of Health in other provinces and states.

In earlier years it was comparatively easy to report on health educational work, for the reason that there was not much to report. But in recent years the story is very different. One has to canvas almost every branch of the Department to tabulate the work being done. Education has become recognized as an important means of promoting better health.

The distribution of literature has increased year by year till in 1939 well over 25,000 pieces were either mailed or given out from the office. If the work done by the four health units and the health departments of the cities of Edmonton and Calgary is included, then the pieces of health literature issued or distributed by organized health agencies in the Province will be well over 50,000 each year.

A similar increase is noted in lectures and motion pictures. Each of the four health units has a picture projector, including one sound machine. The films in the library of the Department have been in great demand by the units and other health organizations, chiefly in Calgary.

The official lecturer held 217 meetings during the year, the total audiences of which amounted to 19,285. Included in the above are 99 lectures with a total audience of 7,500 on venereal diseases and sex education. Other members of the staff lectured on many occasions on special subjects, and Mr. A. M. Zalizniak, Inspector of Health and Vital Statistics, gave 62 lectures in isolated districts on the prevention of communicable diseases and vital statistics.

Three new films were added to the library in 1939. Sex in Life and Human Reproduction are sound films brought in from England, each of two reels, and Youth and Life, a four-reel silent film from the same source.

As in previous years, a health exhibit was held at the annual Edmonton Exhibition, the chief feature of which was a food exhibit under the direction of Miss Merrin Drew, dietitian at the University of Alberta.

Better Health Days were held in co-operation with the boards of the municipal hospitals at Mannville, Vermilion and Islay during the early summer. A great deal of interest was shown by the community. Poster and food exhibits, lectures and baby clinics were the chief features. The food exhibits were under the direction of Miss Drew, and the baby clinics were operated by Dr. H. Siemens and a nurse of the Lamont Health Unit.

Radio talks were given each Monday at 2 p.m. over CKUA by various members of the staff of the Department and the institutions.

In addition to the above, mention should be made of the increasing amount of educational work being done by the staff of the Nursing Branch, especially by district nurses in remote districts, and by the Travelling Clinic.

# Hospital Inspection Branch and Medical Inspector's Report

## (A. C. McGugan, M.D., D.P.H., Inspector of Hospitals)

This Branch of the Department of Health is interested in the professional administration of approved hospitals, private hospitals and baby shelters. To the degree possible, contact has been maintained with these institutions throughout the year, either by inspection visits or through correspondence. Some of the more remote hospitals are so situated that an annual inspection visit to them is not economically feasible.

There were ninety-three approved hospitals in operation in the Province during the year. These are classified as follows:

#### APPROVED HOSPITALS

 Hospitals operated under denominational auspices:
 36

 Catholic
 36

 Protestant
 5

 Municipals Hospitals
 24

 (Approved under The Municipal Hospitals Act)
 15

 Hospitals supported or assisted municipally
 15

 Community (organized under special acts)
 7

 Industrially supported
 4

 Private, operated by Physicians
 2

#### PRIVATE HOSPITALS

93

50

Fifty private hospitals were inspected during the year. These are classified as follows:

Those approved for the care of: Medical and obstetrical cases	26
Medical, surgical and obstetrical cases Medical, minor surgical, obstetrical	10
Chronic and convalescent	11

## BABY SHELTERS

There were twenty-eight baby shelters operating in the Province during the year.

#### APPROVED HOSPITALS

#### Administration.

Two hospitals employ medical superintendents on a full time basis. Eight others have medical superintendents employed on a part time basis.

In thirty-seven of the hospitals, nursing superintendents who have had some special training for their work are employed.

In the remaining forty-six hospitals the nursing superintendent was appointed because she had experience in another hospital, or because she evidenced ability as a ward administrator. It would appear that where possible, provision should be made whereby superintendents may be granted an opportunity to take postgraduate courses in hospital administration.

In many of the hospitals the duties of the nursing superintendent are so numerous that she cannot be expected to perform them all satisfactorily. It is not unusual to find a superintendent who acts as housekeeper, purchasing agent, collecting agent, operating room supervisor, and anaesthesist. In so far as possible the nursing superintendent should be responsible for administration and supervision only.

#### Medical Staff Organization.

In the interests of the hospital and of the medical staff, it is considered advisable to have a medical staff organization in those hospitals in which three or more medical practitioners work. This organization should work in close co-operation with the hospital board and have the opportunity of consulting with the board in matters requiring professional information.

Medical staff conferences should be held once a month. At these conferences an analysis sheet should be presented, and cases of special interest should be reviewed.

#### Case Records.

Recording is regarded as an essential part of every scientific investigation, and every medical case is a problem for scientific investigation. Complete records are also valuable for references and frequently are important from a medico-legal point of view.

#### Clinical Laboratory.

The provision of a clinical laboratory is one of the minimum requirements for approval for government grant. Every hospital should be so equipped and staffed that blood counts, urinalyses, and gastric analyses may be done in the hospital.

Several of the hospitals now approved, fall so far short of meeting minimum requirements for approval in buildings and equipment and services that it may be necessary to discontinue approval to these hospitals.

Several others are satisfactorily equipped and staffed, but fail to meet minimum requirements in the matter of records. In many other hospitals there has been a gratifying improvement in records over the year.

The services of this Branch are available to any hospital in the Province. Advice regarding problems will be provided on request.

The following is a record of the surgical work performed in the hospitals of Alberta in 1939:

	Jo				of			
	Approved Hospitals Exclusive	Municipal Hospitals	Private Hospitals		Approved Hospitals Exclusive Municipal	Municipal Hospitals	Private Hospitals	
GENERAL:				Circumcision	378	87	9	
Abscess	661	157	6	Colopexy				
Adenectomy	21	3		Colostomy	20	3		
Adhesions	166	13	1	Craniotomy	19			
Albees' Operation				Curetting	61	7		
Amputation	000	74	1	Cyst		56		
Anus	0			Cystectomy		4		
Appendectomy	5196	1306	37	Cystoscopy		25		
Arthroclasis				Cystotomy		7		
Arthrodesis	25			Decompresia		25		
Arthroplasty			****	Dilatation			1	
Aspiration		51	3	Dislocation		30	1	
Bladder				Enterectomy		+-++		
Bone Graft		1	1111	Epididymotomy				
Bone Plating		3		Evulsion Nail	89	44		
Bowel		8		Examination		17 37		
Bronchoscopy				Excision			8	
Bunionectomy		6		Extraction Teeth		155	6	
Burns		4		Fasciotomy	14 53	8		
Cancer	. 225	21		Fistula Fonder	00	11		
Carbuncle		6	11.11	Foreign Body	0.24	249	1000	
Cauterization		1	****	Fracture	97	5		
Cecopexy		00	****	Fulguration	20	2		
Chlescystectomy	. 444	68		Gastrectomy	20	6		

	10	-					
	vec	als	als		ved	pa	Private
	us	lici	ate		olite	lite	ate
	Approved Hospitals Exclusive Municipal	Municipal Hospitals	Private Hospitals		Approved Hospitals Exclusive ( Municipal	Municipal Hospitals	-ivi
Castanantanat	AHEN	MH			AHUN	NH	P
Gastroenterostomy		8	1	Plastic		3	
Hammer Toe		1		Pneumothorax	6		
Hare Lip	19	4		Proctoscopy Prostatectomy	213	77	
Memorrhoidectomy Herniotomy	358	58		Puncture	46	37	
Herniotomy		163	14	Pyloroplasty	6		
riyarocele	63	14		Removal	311	31	
Illeocolostomy	4			Repair	425	115	
Incision		83		Resection	190	26	
Injection Jejunostomy	382	27 3		Sequestrectomy	32	3	
Laminectomy	16	5		Skin Graft		13	
Lapartomy	208	95		Splenectomy Suturing	503	114	
Lapartomy Ligation	175	20		Sympathectomy	303		
Lithotomy		7		Synovectomy	2		
Lithotomy Lobectomy				Synovectomy Tenoplasty Tenotomy	17		
Manipulation		46		Tenotomy	10	1	
Nephrectomy	135	6		Thoracotomy	5		
Nephrotomy Neurectomy		1		Inyroidectomy	331	24	1
Orchidectomy	11			Transfusion	2272	27	
Orchidectomy Osteoplasty		9		Tumor	303	47	1
Osteotomy	47	3		T.B.	27	2	-
Paralysis	1	5		Urethrotomy Variocele	13	3	
Phlebectomy	22	6		Vasectomy	63	4	
Plaster Cast	540	62		Wounds	117	39	
BSTETRICS:				I State			
Abortion		7		Induction Labor	. 1	28	
Adhesions				Insertion Radium		20	
Cervix	244	66		Oophorectomy		16	
Caesarean Section	105	6	1	Oophorectomy Ovariatomy	8	3	1
Cauterization	53	13		Panhysterectomy Perineorrhaphy Salpingectomy	6		
Colportnaphy	104	6		Perineorrhaphy	216	14	1
Colporrhaphy Colpotomy Curretage	1190	177	10	Salpingectomy	288	27	
Dilatation	597	177 79	12	Salpingo-Oopnorectomy	63	5	
Examination	90	35		Sterilization Trachelorrhaphy	45	8	
Hysterectomy	284	31		Uterus	398	46	***
E. EAR. NOSE AND	THROAT					1	
Abscess	2			Mastoidectomy	93	13	1344
Adenoidectomy	47	12	1	Myringotomy	24		
Antrum		3		Myringotomy Otitis Media		4	
Carataret	104		1	Plastic Eye	. 9	THEN	
Cautery				Polypi		9	1
Cyclodialysis Dacryocystectomy	4			Pteryguim	. 15	3	
Dilatation	4			Sclerotomy Sinus	43	1	
Snucleation Eve		4		Sinus Submucous Resection		2	1
Esophagoscopy	7			Suturing		2	
Esophagoscopy Ethmoidectomy	2			Synectomy	1		
sxamination	13	1		Synectomy Tenotomy	2		
Excision	2	-		Tonsillectomy	. 3696	992	75
Foreign Body Glaucoma	40	7		Turbinectomy	27		1
Iridectomy				Tracheotomy Tonsils and Adenoids	. 5		
Iridectomy				Tonsils and Adenoids	. 3988	897	57
Laryngoscopy	2	1010					

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

Tonsils and Adenoids	723
Circumcisions	15
Other minor operations	191
other minor operations	10

## Report of the Provincial Laboratory

ALLAN C. RANKIN, C.M.G., M.D., D.P.H., Director Provincial Laboratory and Provincial Bacteriologist (On Active Service)

## (JOHN JAMES OWER, B.A., M.D., C.M., Acting Director Provincial Laboratory)

#### (ROBERT MCLEOD SHAW, B.A., M.D., C.M., D.P.H., F.R.C.P., Acting Provincial Bacteriologist)

The normal work of the Laboratory has increased slightly; approximately two thousand examinations. The emergency work requested by the Department of Agriculture, i.e., examination of chicken bloods and the preparation of horse encephalitis vaccine for which temporary special provision had been made, has been greatly reduced.

In October the services of Dr. A. C. Rankin, the Director of the Laboratory, were requested by the Department of National Defence for the position of Director of Hygiene Services, C.A.S.F., and as a result he was given leave of absence by the University authorities to take over this war-time post. Dr. R. M. Shaw became Acting Provincial Bacteriologist during his absence.

The establishment of a special veterinary pathological laboratory by the Government has relieved this laboratory of the numerous animal pathological examinations which we were poorly equipped to undertake. Even with this relief, the laboratory has been pushed to capacity in congested quarters.

The accompanying tables cover some of the detail of the year's work

WOIK. TABLE	No. 1			
WORK PERFORMED IN THE PROVINCIAL	LABORAT	ORY DURIN	NG THE Y	EAR 1939
HOME I HE OWNED IN THE STORE	Total 1938	Total 1939	Increase	Decrease
Constants	858	829		29
Sputum	2.226	2.045		181
Diphtheria	627	448		179
Typhoid Fever	1.309	1.455	146	
Milks	2.060	1.912		148
Waters	3.504	3.512	8	
Miscellaneous Examinations	0,004	0,012		
Mothers' Milk	112	127	15	
Urinalysis	112	121	10	
Medico-Legal Examinations (Blood, seminal,				17
etc.)	25		014	
Bloods for the Wassermann Test	30,530	31.444	914	
Smears for the Gonococcus	4,877	5.245	368	400
Van Den Bergh Determination	3.642	3.173		469
Pathological Histological Material	9,425	9,343	*******	82
Blood Smear Examinations	109	123	14	
Post-mortem Examinations	249	210	*******	39
Medico-Legal P.M. Examinations		16	16	
Ascheim Zondek Examinations	167	231	64	
Cerebro-Spinal Fluid Examinations	1.941	2.047	106	
Bacteriological Post-mortem Examinations	128	73		55
B. Abortus Examinations	623	430		193
B. Tularensis Examinations	623	429		194
	and the second second	15.863		32.402
Chicken Blood Examinations	2.384	2.209		.175
Cattle Blood Examinations	2,004	2,200		
Typhoid Vaccine:	390	294		96
25 c.c. quantity		164	164	
10 c.c. quantity	25	18		7
Autogenous Vaccino (25 c.c. quantity)	20	TO.		

283

315

300

17.959

132.957

18

593

2.426

207

265

17.959

52,697

18

76

50

893

82,686

10 c.c. quantity Autogenous Vaccine (25 c.c. quantity) Stock Vaccine (25 c.c. quantity) B.C.G. Vaccine (10 c.c. quantity) Poliomyelitis Convalescent Serum (20 c.c.). Horse Vaccine (1 c.c. quantity) Fox Vaccine (10 c.c. quantity)

#### TABLE No. 2

Table No. 2 shows the number of water and milk, special and blood containers prepared and distributed during the year 1939:

	1938	1939
Water Containers	1.760	1.695
Special Containers (Diphtheria, Sputum, Typhoid)	2,398	2.988
Wassermann Containers	30,600	31,500
Chicken Blood Containers	48,265	15,863
Total	83,023	52,046

#### TABLE No. 3

Table No. 3 shows the number of cubic centimeters of autogenous and other vaccines prepared and distributed during the year 1939:

	1938	1939
Typhoid Vaccine Autogenous Vaccine Stock Vaccine	9,750 c.c. 625 c.c.	8,990 c.c. 450 c.c. 450 c.c.
Poliomyelitis Convalescent Serum Horse Vaccine	2.830 c.c. 6.300 c.c. 17.959 c.c.	760 c.c. 1,000 c.c.
Fox Vaccine	3.000 c.c.	8,930 c.c.
Total	40.464 c.c.	20 580 0.0

Decrease in the preparation and distribution of Vaccines and Serums-19.884 c.c.

#### TABLE No. 4

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

		o. of imens	No. of	No. of					
Diseases		Nega- tives		Physi- cians	Month.	Sputum.	Diph.	Typhoid Fever.	Total.
					Jan. Feb.	62 63	113 287	40 31	215 381
Pulmonary	-				Mar. April	80 81	195 101	50 29	325 211
Tuberculosts	79	750			May	70	81	37	188
Diphtheria	53	1992			June	91 94	112 157	32 36	235 287
Typhoid Fever.	76	372			Aug. Sept.	59 41	517 78	37 33	613 152
			211		Oct	65 75	121 186	39 48	225 309
				665	Dec	48	97	36	181
Tot	al	*****				829	2045	448	3322

#### TABLE No. 5

Table No. 5 shows the number of blood examinations by the complement fixation test for the diagnosis of syphilis, 1939:

Bloods received	31,576
Bloods examined	31,444
Bloods positive to reaction	2,417
Bloods negative to reaction	28,683
Bloods unsuitable for examination	344
Bloods broken in transit	132
Male Bloods examined Female Bloods examined	$16.823 \\ 10,358$

Out of 31,444 of these, the following details can be given:

Male married Male married positive Male married negative	$3.751 \\ 430 \\ 3.321$
Male single Male single positive Male single negative	6,376 727 5,649
Female married positive Female married negative	6,919 358 6,561
Female single positive Female single negative	$3,257 \\ 237 \\ 3,020$

Bloods received from Calgary and South Bloods received from North of Calgary	6.541 24,903
Number of Blood Examinations made in 1938 Number of Blood Examinations made in 1939	$30,530 \\ 31,444$
Increase in number of specimens examined	914 3%

#### TABLE No. 6

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

Waters	1938	1939
Number of samples of water examined bacteriologically and found fit for human consumption	1,016	876
Number of samples of water examined bacteriologically and found unfit for human consumption	126	112
Number of samples of water examined bacteriologically and chemi- cally and found fit for human consumption	683	688
Number of samples of water examined bacteriologically and chemi- cally and found unfit gor human consumption	111	150
Number of samples of water examined chemically and found fit for human consumption	90	60
Number of samples of water examined chemically and found unfit for human consumption	10	11
Number of samples of ice examined bacteriologically and found fit for human consumption Number of samples of ice examined bacteriologically and found	24	15
unfit for human consumption		
Total	2.060	1,912

#### TABLE No. 7

Table No. 7 gives the details of the bacteriological, bacteriological and chemical, chemical examinations of milk performed throughout the year 1939:

	1938	1939
Number of samples of milk examined bacteriologically Number of samples of milk examined bacteriologically and chemi-	1,157	1,169
cally	140	137
Number of samples of milk examined chemically Number of rinse waters examined bacteriologically	12	8 141
Total	1,309	1,455
Number of samples of milk examined showing low butter fat Number of pasteurized milk samples examined bacteriologically	32	9
with a bacterial count above 30,000 Number of non-pasteurized milk samples examined bacteriologically	52	88
with a bacterial count above 300,000	87	105
Number of pasteurized milk samples examined Number of non-pasteurized milk samples examined	518 791	543 771
Number of non-pasteurized mink samples examined		

## SERUMS AND VACCINES DISTRIBUTED-JANUARY, 1939-DECEMBER, 1939

	Pkgs.		Pkgs.
Smallpox Vaccine:		Scarlet Fever Toxin:	
	3.848	30 persons "B"	22
10 points		11001	13
2 points	205	30 persons "C"	
Diphtheria Antitoxin:		30 persons "D'	56
1.000 units	631	30 persons "E"	61
5 000 units	82	Dick Test: 10 persons	942
20.000 umita	217	Tetanus:	
20,000 units	614	1 FOO worlds	4 12 12
Diphtheria Toxoid:		1,500 units	111
1 person	2,959	5,000 units	8
6 persons	727	10,000 units	15
12 persons	1.248	Anti-Meningococcus: 20 c.c. Vial.	108
1 money dilated	12	Pertussis: 1 person	1.441
and a me is or second			381
Shick Test: 25 persons	423	Staphylococcus Toxoid: 2 c.c. Vial	901
Scarlet Fever Antitoxin:		Staphylococcus Antitoxin:	
6.000 units. Vial	347	10,000 units	11
6.000 units. Syringe	265	20,000 units	1
0.000 malta Curlado	1.020	Anti-Pneumococcus Serum:	
	1,020		000
Scarlet Fever Toxin:		20,000 units	220
1 person	1.458	Gas Gangrene:	
6 persons	1.220	4.000 units	90
20 noreone "A"	17	10.000 units	128
au persons A			

## COMMERCIAL VALUE OF WORK IF MINIMUM CHARGE WERE MADE, 1939

Sputum	829	\$ 1.00	\$ 829.00
Diphtheria	2,045	1.00	2.045.00
Typhoid Fever	448	1.00	448.00
Milks	1,455	3.00	4,365.00
Waters	1.912	10.00	19,120.00
Miscellaneous Examinations	3,512	3.00	10,536.00
Mothers' Milk	1	2.00	2.00
Urinalysis	127	3.00	381.00
Medico-Legal Examinations	8	5.00	40.00
Bloods for Wassermann Test	31.444	3.50	110.054.00
Smears for the Gonococcus	5.245	1.00	5,245.00
Van Den Bergh Determination	3,173	1.00	3,173.00
Pathological Histological Material	9.343	5.00	46.715.00
Blood Smear Examinations	123	2.00	246.00
Ascheim Zondek Test	231	5.00	1.155.00
Cerebro-Spinal Fluid Examinations	2.047	2.00	4.094.00
Post-mortem Examinations (Bacteriological)	73	5.00	365.00
B. Abortus Examinations	430	1.00	430.00
B. Tularensis	429	1.00	429.00
Chicken Blood Examinations	15,863	.03	475.89
Cattle Blood Examinations	2.209	.10	220.90
Typhoid Vaccine:	61600		220.00
25 c.c. quantity	294	1.00	294.00
10 c.c. quantity	164	.25	41.00
Autogenous Vaccine (25 c.c.)	18	5.00	90.00
	18	5.00	90.00
Stock Vaccine (25 c.c.)	76	3.00	228.00
B.C.G. Vaccine (10 c.c.) Poliomyelitis Serum (20 c.c.)	50	2.50	125.00
	893		446.50
Fox Vaccine (10 c.c.)	893	.50	440.00
Total			\$211,683.29

Post-mortem Examinations not included.

# Public Health Nursing Branch

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

Provision was made for the opening of seventeen new districts. Before the close of the year, twelve new districts were in operation, while organization was under way in the remaining five. These twelve new districts are: Bonanza, Grouard, MacKay, Whitecourt, Newbrook, Maloy, Tulliby Lake, New Brigden, Youngstown, Hilda, Vauxhall, Plamondon.

The five districts preparing to establish a nurse are as follows: Lomond, Grassland, Dixonville, Breynat, Whitemud Creek. Lomond will be ready to receive their nurse at the beginning of 1940.

The centres from which either Public Health nursing or district nursing services are carried on are as follows:

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

Rural—Worsley, Hines Creek, Bonanza, Blueberry Mountain, Valley View, Smith, Tangent, Grouard, Kinuso, Fawcett, Fort Assiniboine, MacKay, Peers, Whitecourt, Lindale, Pendryl, Alder Flats, Newbrook, Maloy, Plamondon, Tulliby Lake, Youngstown, New Brigden, Vauxhall, Hilda, Municipal District of Woodford No. 550, District of Wanham.

The district of Alder Flats is set aside as a teaching centre under the supervision of a senior district nurse established in the Pendryl district. It absorbs two nurses annually for a period of six months each.

The Municipal District of Woodford No. 550 and the District of Wanham in L.I.D. No. 828 make provision for their own Public Health nurse, but this Branch supervises the nursing service, and their statistical reports are included in this report.

Leave of absence was granted to Miss Helen McArthur, B.Sc., who was the recipient of a Rockefeller Foundation Fellowship. Miss McArthur is taking her post-graduate work at Columbia University, New York.

Miss Nora McCoy was granted leave of absence to take postgraduate work at McGill University, Montreal, and Miss Olive F. Watherston, an Imperial Nursing Sister and reservist from the last Great War, was granted leave of absence to return to England.

The following new appointments were made to serve the twelve new districts opened: Miss Pearl Mills, Miss Margaret Reid, Miss Helen Pocock, Miss A. D. Engelcke, Miss Edith Gavin, Miss Margery Dunstan, Miss Fern Primeau, Miss M. Hargrave, Miss Laura Attrux, Miss Mildred Blake, Miss M. C. Stewart, Miss B. Cogland.

The vacancies caused by the granting of leave of absence of the above mentioned nurses were filled by the following appointments: Miss Barbara Whittaker, Miss Phillipa Chapman, Miss M. Webster.

A transfer was arranged for Miss Margaret Hargrave from this Branch to the Stettler Health Unit, and Miss Isabelle Gourlay was appointed in her place. Miss Webster resigned from the staff and was replaced by Mrs. Katherine P. Cole. Three nurses received appointments in the Alder Flats teaching centre during the year: Miss Margaret Reid, Miss Blodwen Cogland and Miss Madeline Matthews. Miss Reid and Miss Cogland subsequently received appointments to permanent districts, and Miss Matthews has just commenced her term in the teaching centre.

### Child Welfare.

The Child Welfare Clinic in Edmonton is supervised by Miss Blanche A. Emerson. One hundred and forty-eight clinics were held during the year, with an average attendance of forty-seven. One hundred and twenty out-of-town cases visited the clinic. Sixtyseven letters were received from rural districts requesting information regarding the care and feeding of children.

Drs. Folinsbee, Calder and Newell have given untiringly of their services during the year. Dr. George Long relieved these physicians during the holiday season. Medical students, senior nurses from all Edmonton hospitals, and Home Economic students have received clinical and field work through this Child Welfare centre.

We are grateful to the Edmonton City Health Department, the Red Cross Society, and to all the relief officers for their co-operation at all times, and to the many organizations and private citizens who so generously donated clothing and knitted articles for our needy families. Twenty of our families were given free butter supplied by the Dominion Government. These families were not on relief, but in the "low income" class.

Visits have been made to diabetic cases, children's shelters and private nursing homes. Creche board meetings have been attended and cases investigated as to eligibility for creche service.

The ChildWelfare Clinic in Calgary is supervised by Miss Marion F. Lavell, with clinic rooms in the City Hall, open five afternoons a week. One hundred and four clinics were held with an average attendance of 29.5. A weighing station has also been conducted in the Ogden School two afternoons each month. A nurse-in-training from either the General or the Holy Cross Hospital comes two days a week for practical instruction. In addition to this, five nurses from the University Hospital completed two weeks' instruction and observation.

One hundred and twenty-two inspections of private hospitals and baby shelters were made, thirteen investigations of diabetic cases requiring insulin, sixteen investigations in connection with maternal welfare, and five investigations regarding provincial relief, while fifty-five letters of information were sent out in response to requests from rural points.

Our thanks are due to the Good Cheer Club, the American Women's Club, and the many firms which have contributed supplies of all kinds for our needy families.

In Medicine Hat and Redcliff the Child Welfare Clinics are supervised by Miss M. E. Hagerman. One hundred and twenty-six clinics were held with a total attendance of 2,070, and 1,160 home visits were made during the year.

In addition to the above mentioned activities, Miss Hagerman is in attendance at a weekly venereal disease clinic, periodic tuberculosis clinics and mental hygiene clinics. Assistance was extended by Miss Hagerman to physicians in Medicine Hat and Redcliff in a campaign of immunization among the pre-school and school age

children at these two points. During the summer months eight rural child welfare clinics were held in centres neighboring Medicine Hat, and ten special classes were conducted in connection with tuberculosis and mental hygiene.

The following is the statistical report of these Child Welfare Clinics for the year 1939:

## STATISTICAL REPORT

EDMONTON	
Number of clinics held       3.672         Number of babies in attendance       3.672         Number pre-school children       1.010	100
Total attendance         Average attendance         Number weighing clinics (Wednesday afternoons)         Number of babies in attendance         635         Number of pre-school children in attendance         124	4,682 47 48
Total attendance at weighing clinics Average attendance Total attendance at all clinics Number of babies referred to family doctor Number of pre-school children referred to family doctor Deaths—Babies 5, pre-school children 4 Number of home visits	32 32 9
CALGARY	
Number of clinics held (Dr. Roach)         Number of babies in attendance       2,564         Number of pre-school children in attendance       504	
Average attendance Number of home visits Nurses in attendance at clinic, 252 afternoons.	3.068 29.5 2,947
Number of babies in attendance 3,050 Number of pre-school children in attendance 1,148	4.198
Average attendance         Attending and speaking at meetings of outside organizations         Deaths—Babies 6, pre-school children 4         Number of babies referred to family physician       19	17 4 10
Number pre-school children referred to family physician66	85
Number letters to out of town people Inspections and interview—private hospitals and baby shelters	7 122

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the state of the second	Babies.	Pre- school		Babies.	Pre- school
Eyes:			Rectal Fissure		
Conjunctivitis	. 9	6	Prolapse (Rectal)	. 1	1
Strabismus	. 1	3	Congenital:		
Granulation of eyelids		1	Club Feet	. 1	1000
Sty		3	Harelip	. 1	
Infected Eyes	. 46	39	Mental Defective		3
Ears: Otitic Modio	20		Mongolian Idiot		
Otitis Media	. 20	4	Flat Feet	. 1	
Silver in Ear Infected Ears	22	1 40	Congenital Hip Disease Congenital Malformation		1
Throat:	. 66	40	Congenital Malformation	. 1	2
Enlarged Glands	15	27	Skin Diseases: Ammoniacal Dermatitis	. 3	
Enlarged Tonsile	10	353	Burns	1	3
Enlarged Tonsils Enlarged Adenoids	7	177	Dermatitis		
Tonsilitis	2	5	Erythema		
Retro-Pharngeal Abscess		ĩ	Eczema		27
Other Conditions	1	Ĝ	Furunculosis		3
Nose:		0	Impetigo		20
Epistaxis		1	Miliaria	22	3
Nasal Obstruction		2	Nevus	12	
Other Conditions		5	Ringworm		4
Mouth:			Scabies		8
Carlous Teeth		661	Seborrhoea	14	
Thrush	10	1	Urticaria		
Geographical Tongue		ī	Shingles		
Tongue-tie	6		UmbNical Granuloma		
Cleft Palate	. 3		Insect Bites		2
Other Conditions	. 2	6	Dog Bite		1
Chest:			Abscesses		
Colds	. 12	2	Intertrigo		
Flu		1	Frost Bites		1
Whooping Cough	. 10		Other Skin Conditions	. 11	19
Chickenpox			Miscellaneous:		
Bronchitis		1	Round Worms		
Pneumonia			Pin Worms	2	5
Croup	. 1		Infected Finger	2	4
Pulmonary Disturbance		1	Infected Toe	. 1	
Digestive:			Infected Penis		
Intestinal Indigestion			Mastitis	1	****
(Diarrhoea)	. 98	2	Injury to Lip		****
Malnutrition		79	Scoliosis		
Rickets		3	Fractured Forearm		1
Scurvy (both out of town			Fractured Collarbone		
cases)		1	Convulsions		
Nutritional Anaemia		6	Ulcers from Lye		12
Stomatitis Bularia Stanasia		6	T.B. Suspects		
Pyloric Stenosis		8	Rheumatism Rheumatis		1
Anerexia Colina Disease	1		Rheumatic Fever		1
Celiac Disease Genito-Urinary :		1	Lameness Abrasion on Souln		1
Umbilican Hernia	112	13	Abrasion on Scalp Paralysis		1
Inguinal Hernia		13			1
Infected Umbilicus	3	-	Appendicitis Masturbation		1
Moist Umbilicus			Fallen Arches		1
Phimosis	136	33	Paralysis of Right Leg		1
Urethral Ulcer	3	1	Eyes	9	
Undescended Testicle	1	1	Nervous Disorders		3
Hydrocele		2	Orthopedic		12
Hypospadius		ĩ	Cardiac Disturbance		4
Enuresis		7	Gonorrhoea		
					1000
Enuresis Ammoniacal Urine	4		Other Conditions	77	45

#### DEFECTS FOUND IN EDMONTON, CALGARY, MEDICINE HAT AND REDCLIFF CHILD WELFARE CLINICS FOR THE YEAR 1939

In the Town of Vegreville and the Municipal District of Norma No. 515, Miss Mary R. Black conducts a generalized programme of Public Health nursing and Child Welfare work. Routine school inspections are made in both the town and rural schools, and a close check is kept on communicable disease cases and contacts. Toxoid and vaccination campaigns are also carried out.

Miss M. Ethel Jones supervises the work in the City of Drumheller and surrounding Local Improvement District No. 276. A generalized programme of Public Health work is conducted in that city and district with a weekly Child Welfare Clinic. An extensive anti-tuberculosis campaign is conducted in the district through the co-operation of the Kinsmen Club. Fourteen tuberculosis clinics were arranged with a total attendance of 267.

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

STA	<b>FISTIC</b>	L REPORT	
First inspection Second inspection Classroom inspections Number not vaccinated Number with defects Number vaccinations, Smallpox	246 81 731 2,023 539	With defective hearing Requiring glasses With throat symptoms With adenoid symptoms With carious teeth	$402 \\ 101 \\ 73 \\ 510 \\ 1.36 \\ 1.568$
Diphtheria toxoid Scarlet fever sera Schoolroom talks	200 35	With malnutrition With faulty posture Glasses fitted	485 43 57
Home visits Child Welfare Clinics Attendance at clinics Interviews	$412 \\ 100 \\ 1.035 \\ 134$	Glasses refitted T. and A. operations Dental treatments Surgical and medical cases	19 89 230 23
Mental Hygiene Clinics	4	Communicable diseases	86

The Emergency Hospital at the Edmonton Exhibition in July was in charge of Miss Amy L. Conroy, assisted by student nurses from the city hospitals. More than two hundred cases were treated for minor ailments.

#### Rural Public Health Nursing Service.

The twenty-seven districts served by the Public Health nurses show an increase in obstetrical cases. The maternity cases given pre-natal and post-natal service total 311, abortions 45, making a total of 356 obstetrical cases. We regret to report two maternal deaths: one in the Tangent district following delivery of twins cause of death, shock; the second case was in Fawcett—cause of death, post-partum hemorrhage and coronary embolism.

Immunization of school children is considered work of major importance in the districts, and 1,571 children were inoculated against Diphtheria and 930 vaccinated against Smallpox.

The following is the statistical report of work done in the districts:

	home visits office consultations		Number child welfare visits Number deaths (under 1 year)	291 18
	dressings		Number deaths (over 1 year)	35
	medical cases		Number cases sent to hospital	375
	surgical cases		Visits to Indian Reserves	26
Number	obstetrical cases	311	Number dental extractions	77
	abortions		Number vaccinated	930
	pre-natal visits		Number inoculated	
Number	pre-natal consultations	1,136	Number communicable diseases	141
Number	dental clinics	1		

#### Travelling Clinic.

The Travelling Clinic visited twenty-five centres during the summer, the itinerary being conducted in the following order: Breton, Minnihik, Iola, Caroline, Cremona, Vauxhall, Travers, Hussar, Hilda, Youngstown, Oyen, Sedalia, Altario, Veteran, Sunnynook, Faust, Grouard, DeBolt, Pipestone Creek, Valhalla, Bay Tree, Belloy, Spirit River, Blueberry Mountain, Tomahawk.

The personnel of the clinic staff was as follows: Dr. J. W. Bridge, surgeon in charge; Dr. B. Margolus, anaesthetist; Dr. H. A. Gilchrist, dentist; Dr. H. Ross, dentist; three nurses and two truck drivers.

Miss O. F. Watherston was the senior nurse. Miss Ethel Jones was the survey nurse, who made the arrangements with the various local committees for the visit of the Travelling Clinic. The following is the statistical report:

STA	TISTICA	AL REPORT	
Number centres served	25	Number minor operations	10
Number children examined		Number referred to physician	289
Number recommended for T. & A.		Number prescribed for	286
Number recommended for circum-		Number referred to hospital	28
cision	37	Number cardiac conditions	109
Number recommended for strip-		Number anaesthetics	1.070
pings	290	Number anaesthetics for teeth only	259
Number recommended for aden-		Number thyroid cases	356
oidectomy	2	Number lung conditions	38
Number recommended for minor		Number skin conditions	39
operation	18	Number asthmatics	13
Number T. & A. operations	723	Number rickets	3
Number circumcisions	15	Number vaccinated	2,163
Number strippings	191	Number Epileptics	2
Number adenoidectomies	2		

DENTIST'S REPORT (TRAVELLING CLINIC)

Number of children examined	4.097
Number recommended for treatment	
Number of children given treatment	
Number of fillings (number of teeth)	
Number of extractions (number of teeth)	1,998

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

The Alberta Mothers' Book and Canadian Council Welfare pamphlets as well as other literature dealing with health have been distributed by the Nursing Branch throughout the Province:

	$3329 \\ 1613 \\ 407 \\ 335$	sets sets sets	"Pre-natal Letters" "Post-natal Letters" "Pre-school Letters" "School Age Letters" "In Between Years" "To Years of Discretion
1	7056	sets	

During Easter week a Refresher Course was arranged for Public Health nurses in the Province through the co-operation of the University and the Department. This course proved to be both instructive and interesting to the nurses in attendance, and there was a good representation of nurses from the Province.

Total

The annual inspection of nursing centres was made by the Superintendent. Organization is still being conducted in various new districts which will be opened shortly.

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

## Hospitals Division

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

The total number of hospitals approved under the provisions of The Hospitals Act of the Province of Alberta as at the 31st of December, 1939, was 93.

The total grant paid to hospitals and homes for the year 1939 amounted to \$476,043.35.

The approved hospitals had a total bed capacity of 4,503, a total bed complement of 4,390, and 695 bassinets. In previous reports bassinets were included in total bed capacity. The bed complement (including cribs) is classified as follows: Medicine and Surgery, 2,814; Obstetrics, 640; Children, 297; Tuberculosis (including T.B. divisions), 210; Convalescent, 0; Contagious Diseases, 255; Incurables (Daysland, Macleod and St. Joseph's Edmonton), 65; Others, 109. These figures do not include the Central Alberta Sanatorium, which has accommodation for 210 patients.

On the basis of a population in the Province of 789,000, we had one hospital bed (including cribs and bassinets) for every 155 of the population, or 6.5 for every 1,000 population; 98,050 patients were treated during the year, 86,329 adults and children, 11,721 newborn. The total patient days of all patients admitted was 1,158,617—being 1,037,597 for adults and children, 121,020 for newborn. This means that in 1939 hospital treatment was provided for 12.4 per centum of the population, or 1 in every 8 persons.

There was an average daily admission of patients to hospital of 268.6. The average number of days spent in hospital by each patient was 11.8, or 12.0 for adults and children, 10.3 for newborn.

If the Isolation cases and the Orthopaedic, S.C.R. and Tuberculosis Division cases were eliminated, the average would be 10.0.

The average number of patients in hospital daily was 3,174.2, or 1 in every 248.5 of our population. Each bed provided accommodation for 19.3 patients during the year.

The staff summary is as follows: Salaried Doctors, 34, four of whom are part time, and nine have contracts; Interns, 39; Nurses, Graduate 686, Student 712, Probationers 54, Affiliates 23; Dietitians, Graduate 16, Student 9, Orderlies 84; all other employees, 1,337.

There were 10 Nurses' Training Schools in the Province. The number of nurses graduating during the year was 232.

During the year 12,257 maternity cases were cared for. These cases comprised 12.8 per cent. of the total cases admitted.

Living births were: Male 5,870, female 5,528, making a total of 11,398. There were 47 stillborn.

The maternal deaths reported were 25, these giving a death rate of .207 per centum of total maternity cases admitted, and 2.216 per 1,000 living births.

The living births in Alberta for 1939 were 16,323. Of this number, 69.1 per centum took place in government approved hospitals. The approved hospitals reported that 23,896 general and 3,907 spinal anaesthetics were administered, and 6 deaths resulted from these.

There were 604 autopsies performed. Infections developed in hospitals totalled 182, divided into: Medical 32, Surgical 58; Obstetrical; mothers 31, infants 61.

The number of Communicable Disease cases treated, excluding Typhoid Fever and Tuberculosis, totalled 1,542; Typhoid Fever numbered 61, and Tuberculosis, reported by general hospitals, 515.

Amongst other cases treated in hospital, there were 1,887 Cardiac, 873 Rheumatic, 517 Goitre, 438 Venereal, and 1,025 Cancer.

There were 344 deaths within ten days of surgical operations, and 75 within 48 hours after admission. Communicable Diseases accounted for 72 deaths.

The approved hospitals reported 187,591 laboratory examinations and 88,489 X-rays.

The total operating expenditure of approved hospitals for the year 1939 was \$3,275,688.79, divided as follows: Administration, \$346,283.97; professional care, \$1,247,491.73; kitchen and dining room, \$773,294.61; general house and property, \$599,690.75; and maintenance, \$308,927.73.

Excluding the Isolation Hospitals, Junior Red Cross, University Hospital and hospitals operating wards for incurables, the average cost was \$2.76.

Revenue of these hospitals amounted to \$4,062,394.34.

The average cost per patient day was \$2.83.

The average revenue per patient day was \$3.51.

The average cost was divided as follows: Administration, 10.6%; professional care, 38.1%; kitchen and dining room, 23.6%; house and property, 18.3%; and maintenance, 9.4%.

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 1939.

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, reserve and capital payments.
- No. 4-Revenues.
- No. 5—Costs per patient day and earnings per patient day with percentage of costs under the different divisions of expenses.

#### MUNICIPAL HOSPITALS

The statistics of Municipal Hospitals will be found with the other approved hospitals of the Province. ANNUAL REPORT, 1939 53

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			Hospitals		Athabasca, Municipal Bantf, Mineral Springs Bantf, Mineral Springs Barrhead, Barrhead Bassnoo, Municipal Bentley, Community Bervyn, Ratepayers' Association of Peace Bonnyville, K. H. Prettle Bonnyville, St. Louis Calgary, Isolation Calgary, Junior Red Cross Calgary, Junior Red Cross Cantose, St. Mary's Carbangay, Little Bow Municipal Carbangay, Little Bow Municipal Carbangay, Little Bow Municipal Coronsort, Municipal Consort, Municipal Coronstion, General Daysland (Incurables) Desmarais, St. Martin's Didsbury, General Drumheller, Municipal Crossitie, Medicine Valley Com- munity Edmonton, Beulah Rescue Home	General

TABLE No. 1

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ANNUAL REPORT, 1939		
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	YUE	er. No. lents in Distal D	Pat	16.7 29.3 23.3 14.9 7.4	6.8 8.1 12.9 195.9	21.1 229.5 35.4	26.5 5.7	28.4 11.4 9.3	11.9	105 105 105 105	10.4 5.1 8.4 75.6	12.7 65.5 120.8 152.3 367.6 35.7
	Died	Is	toT	10.1 21.9 8.9 6.0	8.4 9.8 10.1 13.4	111.0	11.1	979 873 873	12.5	- 9.0 13.1	345.5 10.5 8.4 10.1	21.0 9.0 197.0 11.8 21.8
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TABLE No. 2

34.5 64.9 216.6 58.1 25.7 10.0 16.2 5.6 6.3 6.3	$\begin{array}{c} 5.9\\ 35.4\\ 35.4\\ 35.4\\ 35.7\\ 35.7\\ 35.5\\ 30.3\\ 30.5\\ 30.3\\ 30.5\\ 30.3\\ 30.5\\ 30.3\\ 30.5\\ 30.3\\ 30.5\\ 30.3\\ 30.5\\ 30.3\\ 30.5\\ 30.3\\ 30.5\\ $	3.9 3.9 3.9 13.1 17.3 16.9 12.7 12.7 12.7
44.5 76.0 14.8 23.5 66.6 61.6 9.1 7.7 8.6 8.6 8.1 13.3 8.1 13.3	13.0 8.5 8.5 10.0 8.5 10.6 11.6 8.8 8.8 8.8 11.6 11.6 11.6 11.6	9.0 17.9 17.9 17.9 17.9 9.0 9.0 9.0 9.0
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4.45 7.83 115.5 115.5 11	$\begin{array}{c} 13.6\\ 8.4\\ 8.4\\ 10.5\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 11.6\\ 10.0\\ 11.6\\ 11.6\\ 10.0\\ 9.8\\ 90.0\\ 9.8\\ 90.0\\ 9.8\\ 10.3$	8.6 8.5 10.3 17.5 9.0 9.0 9.0 9.0
$\begin{array}{c} 11.131\\ 18.323\\ 68.984\\ 18.670\\ 7.597\\ 7.597\\ 7.597\\ 3.489\\ 9.150\\ 3.489\\ 1.954\\ 1.954\\ 2.170\end{array}$	$\begin{array}{c} 1.649\\ 4.702\\ 11.600\\ 7.198\\ 7.198\\ 11.185\\ 7.198\\ 11.185\\ 11.185\\ 11.185\\ 11.185\\ 2.366\\ 2.262\\ 2.366\\ 2.262\\ 3.978\\ 11.125\\ 3.978\\ 11.125\\ 3.978\\ 11.125\\ 3.978\\ 11.125\\ 3.978\\ 11.125\\ 3.978\\ 11.125\\ 2.366\\ 4.478\\ 4.376\\ 4.376\\ 4.468\\ 4.46$	$\begin{array}{c} 1.354\\ 3.529\\ 3.903\\ 6.036\\ 5.994\\ 7.803\\ 4.811\\ 4.020\end{array}$
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$11,131\\18,316\\63,513\\18,670\\7,597\\7,597\\1,555\\1,555\\1,555\\1,985\\1,985$	$\begin{array}{c} 1,488\\ 4,125\\ 9,810\\ 6,218\\ 6,218\\ 6,528\\ 9,539\\ 9,539\\ 9,539\\ 9,539\\ 2,010\\ 2,139\\ 1,4931\\ 2,9,403\\ 1,7,334\\ 2,9,403\\ 1,7,334\\ 2,9,403\\ 1,7,334\\ 2,3,940\\ 1,7,334\\ 2,3,940\\ 1,7,334\\ 2,3,940\\ 1,7,334\\ 2,3,940\\ 1,7,334\\ 2,3,713\\ 3,772\\ 3,772\\$	1,255 2,797 4,022 5,292 5,292 5,292 6,473 4,082 3,296 6,473
$\begin{array}{c} 12.601\\ 79.509\\ 779.509\\ 77.796\\ 5.917\\ 9.390\\ 3.648\\ 2.033\\ 2.033\\ 2.033\\ \end{array}$	$\begin{array}{c} 2.162\\ 4.768\\ 12.906\\ 5.741\\ 11.504\\ 11.504\\ 11.504\\ 11.573\\ 2.324\\ 6.325\\ 3.533\\ 3.557\\ 3.548\\ 6.3248\\ 3.358\\ 3.533\\ 3.557\\ 3.558\\ 3.568\\ 2.351\\ 3.558\\ 2.8082\\ 2.8082\\ 3.558\\ 3.568\\ 3$	1,424 3,628 3,628 4,7786 6,326 6,326 6,326 6,326 6,326 6,326 8,271 4,646
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23,601 23,697 73,534 70,148 70,148 5,136 5,136 5,136 5,138 3,311 2,104	$\begin{array}{c} 2,001\\ 4,187\\ 10,676\\ 5,031\\ 5,031\\ 6,752\\ 5,031\\ 5,945\\ 5,945\\ 5,945\\ 5,945\\ 5,945\\ 5,945\\ 5,945\\ 1,574\\ 3,1574\\ 3,1574\\ 2,179\\ 3,1574\\ 2,179\\ 3,1574\\ 2,179\\ 2,179\\ 2,323\\ 4,011\\ 2,33086\\ 2,3308\\ 2,33086\\ 2,3308\\ 2,3308\\ 2,33086\\ 2,33086\\ 2,33086\\ 2,3308\\ 2,30$	1.325 2.183 4.188 3.228 5.562 5.562 5.562 5.465 6.465 5.5625
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	D	eaths	Deaths Within	48	Hours	-				Pati	Patient Days	90					
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wesuock, immaculata Wetaskiwin, Community Willingdon, General	N B H	-10	1 1		104	00 00	100 01	6.195 8.305 4.175	1.895 710	6.997 10.200 4.885	5,628 8,074 3,817	786 1,895 630	6.414 9.969 4.447	8.6 6.6 7.0	9.9 8.4 9.6	8.8 6.9 7.2	19.1 27.9 13.4
Total	392	199	58	75	477	274	247	1.037.597		121.020 1.158.617 942.734 117.315	942,734	117,315	1,059,103	11.2	10.2	1.11	3174.2
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TABLE No. 2-Continued

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## DEPARTMENT OF PUBLIC HEALTH

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			Hospital	Athabasca, Municinal	Banff, Mineral Springs	Barrhead, Barrhead Bassano, Municipal		Berwyn, R.A.P. Bonnvville, K. H. Prittie	=	Calgary, General Calgary, Isolation			Cangary, Salvation Army Grace		Cardston. Municipal	Carmangay, Little Bow Municipal	Cereal, Esler	Claresholm, Municipal	Cold Lake, John Nell Colaman Minars' Ilnion	Consort, Municipal	Coronation, General	Daysland, Providence		Didsbury, General	Drumheller, Municipal	Edmonton, Beulah Rescue Home		Edmonton, General, J.D. Division Edmonton, Misericordia	

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TABLE No. 3-Continued

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\*Part time.

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TABLE No. 4

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s	əseə	biodqvT	
10:	exce	Typhoid Diseases Typhoid	8 220 228 228 228 228 228 228 228 228 22
er-	OSIS	Forms Other	No.
Tuber-	cult	ary Pulmon-	11 11 13 13 13 13 13 13 15 15 15 15 15 11
gu	su	Female	36 7 7 7 7 7 7 8 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 20 20 20 20 20 20 20 20 20 20
Living	BIL	Male	46 146 147 147 147 266 266 266 271 286 286 286 286 286 286 286 286 286 286
	A to	Percenta Maternit DA latoT	$\begin{array}{c} 14.4\\ 16.3\\ 16.3\\ 15.6\\ 11.2\\ 16.4\\ 11.2\\ 15.6\\ 15.6\\ 15.6\\ 15.6\\ 15.6\\ 12.1\\ 12.1\\ 12.1\\ 12.1\\ 12.1\\ 12.1\\ 12.1\\ 12.1\\ 14.6\\ 13.2\\ 13.2\\ 14.6\\ 10.2\\ 12.2\\ 13.2\\ 14.6\\ 10.2\\ 14.6\\ 10.2\\ 14.6\\ 10.2\\ 14.6\\ 10.2\\ 14.6\\ 10.2\\ 14.6\\ 10.2\\ 14.6\\ 10.2\\ 14.6\\ 10.2\\ 14.6\\ 10.2\\ 10.2\\ 14.6\\ 10.2\\$
,	I	Obstetrio	87 1115 107 728 566 660 660 660 660 132 534 554 554 554 554 554 554 554 554 554
	ittve	Female	114 112 112 114 114 115 115 114 115 114 115 114 114
Non-	Opera	Male	45 76 81 81 81 81 81 17 17 17 33 33 33 117 117 117 114 114 119 5 23 1134
	1	Female	39 29 68 68 68 68 68 68 68 68 68 68 68 68 68
tal	Minor	Male	46 46 46 46 136 136 118 841 1180 152 1739 44 1739 44 1739 44 1739 44 1739 44 1739 44 1739 46 1739 46 1739 46 18 841 18 841 18 841 18 86 18 87 10 88 11 88 188
Surgical	-	Female	200 244 244 246 246 246 144 1138 1138 1138 1138 1138 1138 114 1138 114 1138 237 110 231 114 116 237 236 236 236 237 236 237 237 236 236 246 246 246 246 246 246 246 246 246 24
	Major	alsM	20 20 20 20 20 20 20 16 19 19 101 117 77 77 77 77 77 77 77 19 101 116 116 116 116 116 116 116 116 116
cal		Female	1159 1121 1121 1121 1123 1123 1123 1123 112
Medical		Male	93 1055 87 87 87 87 87 87 1055 887 717 717 717 881 881 881 881 881 881
		Hospitals	Athabasca, Municipal Bantf, Mineral Springs Basarhead, Barrhead Bassano, Municipal Berutley, Community Beruyn, R.A.P. Bomyville, St. Louis Bomyville, St. Louis Calgary, Holy Cross Calgary, Holy Cross Calgary, Junior Red Cross Carston. Municipal Cartor Municipal Cartor Municipal Cartor Municipal Coronation, General Coronation, General Daysland (Incurables) Desmarals, St. Martin's Desmarals, St. Martin's Desm

DEPARTMENT OF PUBLIC HEALTH

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534	79 119 48 51 16	16 57 252	94 164 164	12222	185 390	349 191 52	57 358	68 178 68	14 67 81 81 119 137	9229
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845	49 143 73 28 14	43	42 50 107	49 69 69 69 69 69 69 69 69 69 69 69 69 69	230 230 439	367 170 45	396	41 36 52	18 25 81 25 81 81 81 81 81	468
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153	178 307 333 333 339	48 154 216	201 136 324	133 133 133 133	211 511 645	646 488 119	371	202 90 142	49 110 124 136 136 152	60
Edmonton, St. Joseph's Edmonton, University University, S.C.R University, Orthopaedic	n. St. Joh Point, Mu ress, Cotta view, Com	Fort Smith, General Fort Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal			Laconno and District, Community Lac La Biche, St. Catherine's Lamont, Public Lethbridge, Galt	Lethbridge, Isolation Lethbridge, Isolation Lloydminster, Municipal Maeleod, General Manaleod, General		Medicine Hat, isolation Mundare, General McLennan, Sacred Heart Myrnam, Municipal	Nanton, General Nordegr, General Olds, General Peace River, Municipal Provost, Municipal Radway, St. Joseph's Red Deer, Municipal	kumbey, St. Faul s Rocky Mountain House Smoky Lake George McDoursil

ANNUAL REPORT, 1939

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		Cancer	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1025	
	oi	cases Rheumat	116 116 112 4 113 116 112 12 13 116 12 12 12 12 12 12 12 12 12 12 12 12 12	873	
əse	əsic	Cardiac I cases	12845554233035	1887	
Si	oseo	bioiqqT	NHH	61	
tqa	exce	Typhoid Diseases Commun	N   N     H HHA	1542	
		Forms	· · · · · · · · · · · · · · · ·	211	
Tuber-	cuit	sty Pulmon-	9   14     11     9	304	
100	200	Female	$\begin{smallmatrix}&81\\588\\588\\62\\62\\399\\255\\399\\339\\111\\114\\1114\\339\\255\\399\\399\\399\\399\\399\\399\\399\\399\\399\\3$	5528	
Living	IIII	Male	1233 1233 1133 1133 1233 1233 1233 1233	5870	
	ñ	Maternit bA latoT	$\begin{array}{c} 15.9\\ 12.2\\ 12.2\\ 12.3\\ 12.3\\ 12.3\\ 12.3\\ 12.3\\ 12.3\\ 12.3\\ 11.3\\$	12.8	
,	I	Obstetric Admitted Percenta	165 146 146 49 49 46 46 45 43 45 45 45 45 45 45 45 45 45 45 45 45 45	12257	
	ann	Female		1530	
-uon	opera	Male	22 10 13 13 13 13 13 13 11 11	2251	
	Minor	or	Female	71 171 173 173 173 173 173 173 173 173 1	11459
cal		alaM	157 157 157 157 157 157 157 157	11153 11459	
Surgica	Major	Female	Report 74 73 88 138 49 335 355 351 335 41 20 342 942 942 942 942	6402	
		əleM	No Re 1335 1345 1345 1345 1345 1345 1345 1345	5368	
cal	Female E		153 133 133 133 133 133 133 133 133 133	19757	
Medical		Male	373 373 87 87 87 87 87 87 87 133 103 103 103 103 103 103 103 103 103	19437	
		Hospitals	Spirit River. Community St. Paul. St. Theresa Stettler. Municipal Trochu. St. Mary's Vegreville. General Vermilion. Municipal Viking. Municipal Vilaa. Our Lady's Vulcan. Municipal Wanwright. Municipal Wayne. General Wayne. General Westlock. Immaculata Westlock. Immaculata Westlock. Immaculata Westlock. Immaculata	Total	

		əld	From Communica Diseases	20 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		s	From From Anaesthetic	
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	Deaths		Premature	1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	ped	trical	stanta	
	Infections Developed in Hospital	Obstetrical	Mothers	
1	tions l		IsolganZ	
	Infec	-	Medical	
			Total Operations	123 151 151 191 136 2294 236 334 404 114 569 162 162 162 162 162 162 162 162 162 162
A TANT P			General	200 112 112 112 112 123 112 123 123
	suc	ures	Closed	67 1 1 1 1 1 1 1 1 1 1 1 1 1
	peratic	Fractures	uədO	
1	Surgical Operations	-	anothertuqmA	ort 5 0 11 22223221
	Surg		Curettages	147 147 147 147 147 147 14 15 16 14 13 16 14 13 14 14 143 143 143 143 143 143 143
		g [E3]	Gynaecologi Curettages	2 2 2 2 2 2 2 2 2 2 2 2 2 2
			IsnimobdA	235 44 44 44 49 49 49 49 40 40 40 40 40 53 53 191 191 191 191 191 191
	Hospitals		Hospitals	Athabasca, Municipal Barff, Mineral Springs Barrhead, Barrhead Barsano, Municipal Berviley, Community Bervyn, R.A.P. Bonnyville, K. H. Prittle Bonnyville, K. H. Prittle Bonnyville, K. Louis Bonnyville, St. Louis Calgary, Isolation Calgary, Isolation Calgary, Isolation Calgary, Isolation Calgary, Isolation Calgary, Salvation Army Grace Camore, St. Mary's Cantore, Salvation Army Grace Camore, St. Mary's Cantore, Salvation Army Grace Cardston, Municipal Cardston, Municipal Cardston, Municipal Cardston, Municipal Coronation, General Consort, Municipal Consort, M

TABLE No. 5

TABLE No. 5-Continued

From Communicable Diseases		100		1 1	1	111	111	00	<b>*</b> *	
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From Cancer		49	60.60	- (°	י מומ	N  01=	401	C1 00	00 01 0	10
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	Mothers	100		1 1	1 0	4	111	111-7	- 0	
rical	stnstal	11				]	111	0	1111	
Obstet	Mothers	1	1111	1 1			64 6	4 646	- 11 1	
	Surgical	21	1111	1 1	-	0	N	00 0	0 [69 ]	
	IssibaM	61	4		11	1111	111		1 0 4	
Total Operations		3362	194 437 47 74	8 25	285	238 271 424	331 66 144	244 98 723	1725 465 69	76 1287
General		2418	109 286 32	20 21	115	146	14 14 14 180	502 202	1193 264	39
Fractures	Closed	78		0 15	382 %	8428	N 00	6-4s	15189	19
	uədO	54		N	0	- 61	N			1 6
anoitstuqmA		31	4 H 10	ort		4-0	10 EN   EN	10 H 12	6 13	ort 14
Curettages		24	410.010	Re	Re	4223	33	10-1-0	13 53	No Report
Gynaecological Dut including Curettages		221	H 4 10 01	N N	19 N R	01-4130	01-010	23 <sup>0</sup> 23	245	3
InnimobdA		536	88 21 22 22 22 22 22 22 22 22 22 22 22 22	36 26	115	82.09	181 28 28 28	106 27 136	346 346	351
	Hospitals	9.12		Fort Menuray, St. Gabriel's Fort Smith, General Fort Vermilion, St. Theresa Galahad, St. Joseph's	Grande Prairie, Municipal Grimshaw, Battle River Hanna, Municipal	Hardisty, St. Anne's High Prairie, Providence High River, Municipal	Innistau, Municipal Jasper, Saton Killam, General		Lethbridge. Isolation Lethbridge. St. Michael's Lubydminster. Municipal Macleod. General	Macleod, General (Incurables) Mannville, Municipal Marwayne, Nursing Home Medicine Hat, General
	<sup>10</sup> Fractures Obstetrical Obstetrical L	From Currettages       Currettages       From Curettages       Mothers       Mothers	Hospitals Hospitals	Hospitals Hospit	3     3 <td>Hospitals     Hospitals       Hospitals     Hospitals       Hospitals     Hospitals       Hospitals     Hospitals       Hospitals     Obstetrical       Introversity     Introversity       Introversity     Introversity       Introversity     Introversity       Introversity     Introversity       Introversity     Introversity       Introversity     Introversity       Introversity     Intran       Intro</td> <td>1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1<td>Hospitals     Hospitals       Hospitals     Hospitals       Hospital</td><td>Transmitty         Total         Modominal         Modominal           Transmitty         Transmitty         Transmitty         Transmitty         Transmitty           Transmitty         Transmitty         Transmitty         Transmitty         Transmitty         Transmitty           Transmitty         Transmitty         Transmitty         Transmitty         Transmitty         Transmitty         Transmitty           Transmitty</td><td>Multiple       Division       Communication         00       00       00       00         00       00       00       00       00         00       00       00       00       00       00         00       00       00       00       00       00       00         00       00       00       00       00       00       00       00         00</td></td>	Hospitals     Hospitals       Hospitals     Hospitals       Hospitals     Hospitals       Hospitals     Hospitals       Hospitals     Obstetrical       Introversity     Introversity       Introversity     Introversity       Introversity     Introversity       Introversity     Introversity       Introversity     Introversity       Introversity     Introversity       Introversity     Intran       Intro	1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1 <td>Hospitals     Hospitals       Hospitals     Hospitals       Hospital</td> <td>Transmitty         Total         Modominal         Modominal           Transmitty         Transmitty         Transmitty         Transmitty         Transmitty           Transmitty         Transmitty         Transmitty         Transmitty         Transmitty         Transmitty           Transmitty         Transmitty         Transmitty         Transmitty         Transmitty         Transmitty         Transmitty           Transmitty</td> <td>Multiple       Division       Communication         00       00       00       00         00       00       00       00       00         00       00       00       00       00       00         00       00       00       00       00       00       00         00       00       00       00       00       00       00       00         00</td>	Hospitals     Hospitals       Hospital	Transmitty         Total         Modominal         Modominal           Transmitty         Transmitty         Transmitty         Transmitty         Transmitty           Transmitty         Transmitty         Transmitty         Transmitty         Transmitty         Transmitty           Transmitty         Transmitty         Transmitty         Transmitty         Transmitty         Transmitty         Transmitty           Transmitty	Multiple       Division       Communication         00       00       00       00         00       00       00       00       00         00       00       00       00       00       00         00       00       00       00       00       00       00         00       00       00       00       00  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DEPARTMENT OF PUBLIC HEALTH

ANNUAL REPORT, 1939 67

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Medicine Hat, Isolation Mundare, General Myrnam, Municipal Myrnam, Municipal Myrnam, Municipal Nanton, General Nordegg, General Olds, General Olds, General Peace River, Municipal Peace River, Municipal Peace River, Municipal Red Deer, Municipal Red Deer, Municipal Red Deer, Municipal Red Deer, Municipal Red Deer, Municipal Spirit River, Community St. Paul, St. Theresa Stettler, Municipal Vegretiville, General Vegretiville, General Vaina, Municipal Vilna, Our Lady's Vilna, Municipal Vilna, Municipal Vilna, Municipal Vainwright, Municipal Wainwright, Municipal Wainwright, Municipal Wainwright, Municipal Wainwright, Municipal Wainwright, Municipal Wainwright, Municipal Wainwright, Municipal Wainwright, Municipal	Total

Hospitals			Athabasca Municipal Bantf, Mineral Springs Bassano, Municipal Bentley, Community Berwyn, RA,P. Bonnyville, K. H. Prittie Bonnyville, K. H. Prittie Bonnyville, St. Louis Bonnyville, St. Louis Calgary, Isolation Calgary, Junior Red Cross Calgary, Junior Red Cross Caramores, St. Mary's Caramores, St. Mary's Caramores, St. Mary's Caramores, St. Mary's Caramores, St. Municipal Coronation Our Lady of the Rosary Caretal. Esler Carator, Our Lady of the Rosary Caretal. Esler Connan Miners' Union Coronation. General Daysland (Incurables) Desmarals, St. Martin's Didsbury, General Drumheller, Municipal Drumheller, Municipal	General T.B. Division Misericordia Royal Alexandra
	Within 10 days Within 10 days from Surgical	Jaquinn	45       107   <u>2</u> <u>8</u>   <u>8</u> <u>8</u>     107   <u>10</u>	3 *57
Deaths	1	Percentage to Total Operations	116 111 111 112 113 113 113 113 113 113 113	24 1.7
-	Total including Stillbirths	Female Male and	273 273 273 273 273 273 273 273 273 273	67 105 343
	-296	deneral An thetics Giver	23320 2332 2332 2332 2332 2332 2332 233	579 1508 3348
	-səsaA IsniqZ nəviD səttərt		237 37 171 160 100 100 100 100 100 100 100 100 10	219 142 308
	bləH səizqotuA		1       <b>1</b>   <b>4 4 1</b>     <b>1</b>   <b>1</b>	31 36 159
	st	Laboratory Examination	48 7145 223 3000 4000 17341 24514 24514 24514 743 743 743 743 760 768 250 743 344 344	14304 20363 51572
	st	X-Ray Examination	481 102 102 100 100 100 100 100 100 100 10	8675 1947 4211
		nsat toola nemreseW	11 12 20 20 20 20 20 20 20 20 20 20 20 20 20	121 491 5974
		Bacteriologi Examinatio Sterilized Dressings	4	12 12 436
		Pasteurized Pasteurized	Yess No No No No No No No No No No No No No	Yes Yes Yes
		Water Suppl Tested Bacteriologic	Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes Yes

TABLE No. 6

Yes Yes Yes	Yes Yes Yes Yes No No Yes	Yes Yes Yes Yes No No Yes Yes Yes Yes	Yes Yes No No	Yes Yes No No	Yes No No No Yes Yes Yes Yes
Yes Yes Yes	oooooo ooo NNNNN NNNN	Yes No Yes No No No Yes Yes	No No No No	Yes Yes No No	Yes NNO NNO NNO NNO NNO NNO NNO
1 18	0.000   10 M	12 12 12 12	401	w=	3 12 12
3359	12604 00	6 50 50 10 14 11 1374	1252 20 6 7	1 14 4 1 1	1   <mark>8</mark> 22   1
25 12293	318 318 40 38 38 38 101 101 101 101	138 168 168 168 237 237 237 237 238 168 138 138 236 237 2058	1379 545 90 72	138 138 32	85 91 91 19 282 68 68 68 93 105
310 34986	337 153 450 450 650 650	571 2000 1204 1204 1204 1204 1204 1204 18 380 480 6987 12398	14373 2255 100 30	448 168 620 45	260 353 115 115 1586 417 450 54
137	<b>-</b>       <b>-</b>	0  4  -        0	10	-	40   44
109	10 <u>8</u> 10    -	2281 23 1 3 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	203 49	11 3	15 14 14 8 8 8
20 1516	46 45 64 17 12 8 17 8 25 8	205 205 205 205 205 205 205 205 205 205	38 52 288 38	823 98 187 187	49 49 67 80 81 81 81 101 81 81
26 37 218	18 28 28 28 6 7 7 7 7 0 20	eport 29 37 25 37 25 37 29 37 29 20 20 20 20 20 20 20 20 20 20 20 20 20	12690 0	-	Report 3 16 15 17 12 12 12 12 21 21 21
13	1.0 .69 1.4 No Rej	No Re 2.2 .84 1.8 .59 .59 .14 .14 .14 .14	1 38 I	No Re 85 99 .73	No Re 63 119 111 222
1 14	°100  ⊷	1 10 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• i¤∾ i	<b>=</b> : <b>-</b> : <b>-</b>	40H      0
Edmonton. Isolation Edmonton. Isolation. T.B. Division Edmonton. St. Joseph's Edmonton. University University. S.C.R.	University Orthopaedic University, T.B. Division Edson, St. John's Eik Point, Municipal Empres, Cottage Fairview, Community Fort McMurray, St. Gabriel's Fort McMurray, St. Gabriel's Fort Wermilion, St. Theresa Fort Vermilion, St. Theresa	Grande Frante, Municipal Grimshaw, Battle River Hanna, Municipal High Prairie, Providence High River, Municipal Innistali, Municipal Jasper, Seton Jasper, Seton Lacombe and District, Community Lacombe, St. Catherine's Lamont, Public	Letthbridge, Gatto Letthbridge, Isolation Letthbridge, St. Michael's Lloydminster, Municipal Macleod, General Macleod, (Incuribles)	Marurutus, Munitupat Marwayne, Nursing Home Medicine Hat, General Mundare, General Mundare, General Mundare, Sacred Heart Mernam, Municibal	

### DEPARTMENT OF PUBLIC HEALTH

Hospitals Find the second of	Mumber 000 Number 000	from Deaths         Number         Deaths           00peration         00peration           00peration         00perations           100         00perations           100         120           110         120           120         120           120         120           120         120           120         120           120         120           120         120           120         120           120         120           120         120           120         120           120         120           120         120           120         120           120         120           120         120	Total including Female and Female 3319 379 379 379 379 379 379 379 379 379 37	Bassigssigssigssigssigssigssigssigssigssi	neviD sottedt -seenA laniq2 호赫4 편등路 Kooo 84	bləH səisqotuA	Examinations 2533 253	586655333 5685333 5 Examinations	Blood taken for Wasserman Test	Sterilized Dressings Bacteriological Bacteriological Mathematical Math	NAKNNNNAKKNNN N Pasteurized	Vater Supply
Total	344	.98	2924	23896	3907	604	187591	88489	14333	1085		_

"Within 30 days.

TABLE No. 6-Continued

	CUTCHIEL IVIT	5	WHAT IS ON UTIMETER	ODOT	A CALLER AND A CALLER AND A CALL		and	
	Salaries and Audit	Board Meetings	Office Expenses	Stationery, Printing, Postage	Telegraph and Telephones	Insurance	Sundry	Total Adminis- tration
Athabasca, Municipal Banff, Mineral Springs Barrhead, Barrhead Bassano, Municipal Bentyey, Community Bentyey, Community Bentyey, Community Bennyville, St. Louis Calgary, General Calgary, General Calgary, Holy Cross Calgary, Holy Cross Calgary, Junior Red Cross Cannose, St. Mary's Carnone, Cannore Carnose, St. Mary's Carnose, St. Municipal Carnone, Cannore Carnone, St. Martin's Corneach, Municipal Coronstion, General Coronstion, Beal Coronstion, Beal Coronstion, Beal Coronstion, Beal Coronstion, Bearal Coronstion, Bearal Coronstion, St. Joseph's Edmonton, Royal Alexandra Edmonton, Royal Alexandra Edmonton, St. Joseph's Edmonton, St. Joseph's Edmonton, St. John's Elk Point, Municipal Enview, Community Fort McMurray, St. Gabriel's	\$         1,133.05           725.15         725.15           725.000         100.000           300.000         300.000           14,138.25         582.73           22,006.95         427.35           41,738.82         560.000           586.0.000         582.000           586.0.000         582.000           525.000         560.000           600.000         600.000           770.000         5250.000           770.000         5250.000           5250.000         5250.000           770.000         5250.000           770.000         5260.000           770.000         5260.000           770.000         5260.000           77.358.000         5350.000           3660.000         500.000           77.358.000         7380.000           3670.000         3670.000           3670.000         3670.000           3670.000         3870.000           3670.000         3870.000           3670.000         3870.000	\$ 405.50 430.000 197.40 262.78 2911.10 229.20 229.20 130.00 866.95 15.70 900.42 270.05 419.60 6.000 46.000	\$ 151.59 37.48 37.48 351.74 42.55 42.55 34.70 118.60 118.60 118.60 118.60 118.60 10.48 541.31 123.11 123.11 10.75 60.66 10.75 40.00	<ul> <li>\$ 371.25</li> <li>\$ 387.73</li> <li>\$ 387.73</li> <li>\$ 387.73</li> <li>\$ 387.73</li> <li>\$ 387.73</li> <li>\$ 280.00</li> <li>\$ 233.86</li> <li>\$ 58.90</li> <li>\$ 3.698.67</li> <li>\$ 3.608.67</li> <li>\$ 3.608.76</li> <li>\$ 3.608.76<!--</td--><td>\$ 151.12 135.01 136.01 136.01 136.01 136.01 136.01 156.84 127.81 1.666.84 1.666.84 1.666.84 262.70 262.70 262.70 262.70 262.70 110.73 110.73 110.73 110.73 110.73 112.4.25 1130.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110</td><td><ul> <li>\$ 455.90</li> <li>\$ 230.35</li> <li>\$ 263.93</li> <li>\$ 263.93</li> <li>\$ 263.93</li> <li>\$ 263.93</li> <li>\$ 263.93</li> <li>\$ 388.00</li> <li>\$ 335.14</li> <li>\$ 335.14</li> <li>\$ 67.61</li> <li>\$ 335.14</li> <li>\$ 67.61</li> <li>\$ 12.85</li> <li>\$ 335.55</li> <li>\$ 107.89</li> <li>\$ 107.840</li> <li>\$ 107</li></ul></td><td><ul> <li>\$ 146.85</li> <li>378.46</li> <li>326.22</li> <li>326.25</li> <li>326.26</li> <li>25.00</li> <li>870.81</li> <li>870.81</li> <li>50.002</li> <li>1.817.21</li> <li>251.76</li> <li>1.817.21</li> <li>1.817.25</li> <li>1.817.</li></ul></td><td><ul> <li>\$ 2,815,26</li> <li>1,703,79</li> <li>1,703,79</li> <li>1,703,79</li> <li>1,703,79</li> <li>1,723,46</li> <li>2,524,02</li> <li>2,847,41</li> <li>2,847,41</li> <li>2,549,90</li> <li>2,544,90</li> <li>1,259,57</li> <li>1,259,57</li> <li>1,259,57</li> <li>1,259,57</li> <li>1,259,57</li> <li>1,254,29</li> <li>3,244,00</li> <li>1,259,57</li> <li>3,344,00</li> <li>1,259,57</li> <li>3,344,00</li> <li>1,354,40</li> <li>1,372,39</li> <li>3,344,00</li> <li>1,372,39</li> <li>3,344,00</li> <li>3,344,00</li> <li>3,344,00</li> <li>4,544,00</li> <li>4,544,0</li></ul></td></li></ul>	\$ 151.12 135.01 136.01 136.01 136.01 136.01 136.01 156.84 127.81 1.666.84 1.666.84 1.666.84 262.70 262.70 262.70 262.70 262.70 110.73 110.73 110.73 110.73 110.73 112.4.25 1130.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110.42 110	<ul> <li>\$ 455.90</li> <li>\$ 230.35</li> <li>\$ 263.93</li> <li>\$ 263.93</li> <li>\$ 263.93</li> <li>\$ 263.93</li> <li>\$ 263.93</li> <li>\$ 388.00</li> <li>\$ 335.14</li> <li>\$ 335.14</li> <li>\$ 67.61</li> <li>\$ 335.14</li> <li>\$ 67.61</li> <li>\$ 12.85</li> <li>\$ 335.55</li> <li>\$ 107.89</li> <li>\$ 107.840</li> <li>\$ 107</li></ul>	<ul> <li>\$ 146.85</li> <li>378.46</li> <li>326.22</li> <li>326.25</li> <li>326.26</li> <li>25.00</li> <li>870.81</li> <li>870.81</li> <li>50.002</li> <li>1.817.21</li> <li>251.76</li> <li>1.817.21</li> <li>1.817.25</li> <li>1.817.</li></ul>	<ul> <li>\$ 2,815,26</li> <li>1,703,79</li> <li>1,703,79</li> <li>1,703,79</li> <li>1,703,79</li> <li>1,723,46</li> <li>2,524,02</li> <li>2,847,41</li> <li>2,847,41</li> <li>2,549,90</li> <li>2,544,90</li> <li>1,259,57</li> <li>1,259,57</li> <li>1,259,57</li> <li>1,259,57</li> <li>1,259,57</li> <li>1,254,29</li> <li>3,244,00</li> <li>1,259,57</li> <li>3,344,00</li> <li>1,259,57</li> <li>3,344,00</li> <li>1,354,40</li> <li>1,372,39</li> <li>3,344,00</li> <li>1,372,39</li> <li>3,344,00</li> <li>3,344,00</li> <li>3,344,00</li> <li>4,544,00</li> <li>4,544,0</li></ul>

EXPENSES OF ALBERTA HOSPITALS, 1939-ADMINISTRATION

### ANNUAL REPORT, 1939

	Salaries and Audit	Board Meetings	Office Expenses	Stationery, Printing, Postage	Telegraph and Telephones	Insurance	Sundry	Total Adminis- tration
Fort Vermilion, St. Theresa Galahad, St. Joseph's			\$ 5.00	\$ 20.70	\$ 5.00	00.966 9	e 146.70	\$ 30.7
Grande Prairie, Municipal Hanna, Municipal	\$ 2.625.00 15.35	\$ 251.00 855.60	526.62	555.41	311.09	507.76	15.00	4,777.03
Hardisty, St. Anne's High Prairie, Providence	00 00		262.81	292.70	681.36	226.58	133.89	1.597.3
High River, Municipal	1.271.25	416.00	28.34	581.07	263.75	251.81	230.79	3.043.0
statt, municipal slay, Municipal	393.50	310.00	136.90	375.44	190.92	392.68	98.21 289.43	2.591.3
Jasper, Seton Killam General			45.80	60.25	35.10	65.00	58.20	264.3
acombe and District, Community	615.00	385.85	54.90	383.72	81.70	232.80	16.80	1.770.7
lac La Dicne, St. Camerine s Lamont. Public	5.980.43	144.63	1 679 04	80.48	71.22		290.40	10 997 9
Jethbridge, Galt	5,584.10		368.39	1.398.00	10.898.01		1,509.01	10.535.4
ethbridge, St. Michael's	4.765.45	2.903.78	509.02	903.29	36.27		16.07	11 498 5
Joydminster, Municipal	1.510.00	162.40		724.04	218.58		232.26	3,175.5
Macteou, General Mannville, Municipal	50.00	238 57	80.70	213.03	65.78		191 50	1,038.1
Medicine Hat, General	3,490.00			1,299.57	00-01	612.70	5,529.87	10,932.1
Medicine Hat, Isolation Mundare General	36.00	00 00	20 CC	00 00	00 Ju			22.0
McLennan. Sacred Heart	600.00	00:00	76.85	96.93	79.68		317.00	1 334
Myrnam, Municipal	338.75	169.40	73.25	123.30	47.53		255.81	1.424.8
Notuegs, General Olds, General	275.00	19.40	21.80	46.61	12.97		0.70	59.
icipal	850.80	502.20	11.00	337.48	153.24		55.32	2.507.
Fincher Creek, St. Vincent's Provost. Municipal	501 50	20 405	996 25	20.000	199.51		140.45	260.
Radway, St. Joseph's	1 1	00-6-00	97.35	219.02	81.88		399.80	1.714.
Red Deer, Municipal	1,300.00		21.28	252.00	113.68		617.43	2,615.
Rocky Mountain House, R.M.H.			110.60	48.62	94.08	351.94	642.23	1,247.4
Smoky, Lake, George McDougall			154.87	48.80	62.32		339.00	604.5
	1,052.80	605.05	102.25	452.25	141.44	339.79	315.76	3 225 96
	200.00	to the second		95.45	137.49			661.8
vegreville, General Vermilion, Municipal	570.00	458.23	91.00	142.00	145.00		170.50	1,903.5

EXPENSES OF ALBERTA HOSPITALS, 1939-ADMINISTRATION

72

### DEPARTMENT OF PUBLIC HEALTH

### ANNUAL REPORT, 1939

1.575.43 1.045.00 1.759.26 2.508.13 1.349.58 368.67 2.014.65 585.31	\$ 346,283.97
228-81 250.00 275-90 281.44 142-75 107-85 5-53	\$ 55,967.42
157.74 248.15 85.00 199.50 195.05	\$ 35,146.97
88.86 60.00 63.32 128.39 430.08 88.78 88.78 71.47 71.47	\$ 20,116.72
87.02 261.29 565.49 84.79 87.46 87.46	\$ 41.274.82
135.00 677.81 52.45 60.09 60.85	\$ 8,996.93
413.00 310.60 350.00 134.00	\$ 14.629.77
600.00 600.00 600.00 600.00 720.00 720.00 1.081.40 360.00	\$ 170,151.34
Viking, Municipal Vilina, Our Lady's Vulcan, Municipal Wainwright, Municipal Wasthock, Immaculata Westlock, Immaculata Westlock, Immaculata Wetaskiwin, Community	Total

	Profess	Professional Care of I	Patients	Kitch	Kitchen and Dining Room	Room
	Salaries	Supplies	Total	Wages	Food Supply	Total
Athabasea Municinal	0 1 100 10					
Banff, Mineral Springs	6.504.44	2.494.22	\$ 6,987.37 8,998.66	3 035 32	\$ 2,584.90	\$ 3,310.09
Barrhead, Barrhead	3.165.75	1.756.76	4.922.51	960.00	3.932.44	4.892.44
Bassano, Municipal Bentley, Community	5,054.90	1.262.61	6,317.51	813.75	3,069.33	3,883.08
Berwyn, Ratepayers' Association of Peace	1.328.50	2.045.32	0,300.20	427.50	1.187.71	1,615.21
le, K. H. Prittie	3.005.49	523.92	3.529.41	507.25	1.388.57	2,226.96
Bonnyville, St. Louis	3.630.00	242.35	3,872.35	480.00	1.474.10	1.954.10
Calgary, General Calgary, Isolation	63.337.61	26,859.70	90,197.31	15,244.47	38,342.44	53,586.91
	36.634.25	57.530.52	8,119.87	12 191 14	4,682.47	6,527.23
100	8,108.25	2.541.26	10.649.51	1.993.83	05'007'05	09.5/3/9.60
Calgary, Salvation Army Grace	2,885.75	616.73	3,502.48	510.00	3,340.79	3.850.79
Canmore Cannore	9.756.62	4.271.10	14.027.72	1,150.35	5,957.64	7,107.99
_	5.191.59	CI.101.2	4,191.15	360.00	2,094.15	2,454.15
Carmangay, Little Bow	1.915.25	2.361.92	71 779 4	465 20 A	09.013.60	6,187.19
Castor, Rosary	3,402.45	1.172.96	4.575.41	490.00	9 397 43	50'065'Z
Cereal, Esler	1.507.06	1.046.54	2,553.60	600.47	958.29	1.558.76
Cold I abs. Take Mail	5.280.95	1,282.65	6,563.60	653.00	2.470.78	3.123.78
Coleman, Miners' Union	3,706.25	621.26	4,081.69	669.25	2.072.44	2.741.69
Consort, Municipal	3.636.15	873.54	4 509 69	203.00	27.620.2	2,992.85
Coronation, General	2.271.30	619.39	2.890.69	553.50	1.430.94	05-020-2
Demovoie C+ Mentione	3.206.60	913.83	4,120.43	1.423.78	2,789.23	4.213.01
	1.820.00	137.00	1.957.00		822.30	822.30
h	23.977.50	6 624 42	00'118'C	08.015	1,345.95	1,756.75
Edmonton, Beulah Home	2.173.50	505.26	2.678.76	310.00	10,001.31 9 514 90	10,465.38
	31,920.92	16.221.39	48,142.31	6.772.44	42,434.93	49.207.37
Edmonton, Misericordia	22,268.62	31,389.62	53,658.24	7,300.00	33,906.28	41.206.28
	10220,022	15.010.26	181,102.08	10,051.49	73,952.76	84,004.25
	6.415.00	4,110.00	00 066 L	2,511.00	13,487.77	15,998.77
Edmonton, University	136.091.38	64.789.71	200.881.09	00.726.00	00.434.00	9,018.66
	3,835.96	781.98	4.617.94	840.00	2.518.14	02,250.30
Elk Point, Municipal	5,116.90	1,664.46	6.781.36	789.65	3,907.00	4.696.65
Fairview, Community	2.187.00	1,506.63	3,676.98	873.45	1,360.40	2,233.85
Fort McMurray, St. Gabriel's	2.917.60	324.23	3.241.83	848 50	1,230.10	10.627.1
Fort Vermilion, St. Theresa	1.760.00	241.21	2,001.21	360.00	1.479.50	1.839.50
minimum a mason or morning	5 <del>1</del> 0.	1,236.09	4,076.09	575.50	1.751.45	2,326.95

ALBERTA HOSPITALS, 1939

74

### DEPARTMENT OF PUBLIC HEALTH

5,536.86	4,414.25	4,105.29	1, 489.77	2 144 60	3.833.80	1.202.01	3,585.54	2,064.90	15,427.11	26,606.11	669.69	25,918.13	11,771.36	01.160.6	15.010.2	11,110.000	1.971.86	4 993 07	1.393.88	2.208.85	2.489.37	3,488.52	1,583.65	3,996.59	4,244.69	11.211.6	2.047.15	1.647.30	4,731.18	4,938.27	2,100.93	12,380.00	4,767.42	3,204.66	1,211.18	00'017'00	11.402.4	2 780 02	5 918 83	2.041.49		\$ 773,294.61
4,528.36	3,407.30	3,385.29	0,331.00	1 704 80	3.183.80	1.202.01	2.875.04	1.984.90	14,011.16	21,315.01	362.69	19,225.39	9,413.91	4,428.11	14.5012.2	14,004.00	1 881 36	66 29V 6	1 181 38	1 537 10	1.747.72	2.900.82	1,204.80	3,329.59	3.546.70	3,320.33	1.408.07	1.231.05	2.763.18	4,031.72	1,560.93	9,980.00	4,082.67	2.216.04	21.019.18	20,050,22	3,100.71	5,031.14	23 066 Y	1.641.49		\$ 615,459.07
1.008.50	1,006.95	120.00	838.03	120 SU	650.00		710.50	80.00	1.415.95	5,291.10	307.00	6,692.74	2,357.45	1,219.05	000.00	ez:696'Z	00 50	767 06	0102 616	21 175	741.65	587.70	378.85	007.99	667.99	865.98	80.953	416.25	1.968.00	906.55	540.00	2,400.00	684.75	988.62	132.00	580.36	1,183.40	480.00	00.004	400.00	-	\$ 157.735.54
8,771.30	2,425.84	4,759.50	11,894.77	00.8-00,0	1 648 10	4.012.57	7.008.73	2.389.64	19.640.77	35.294.55	1,198.03	24,829.79	15,888.08	6,004.22	4,216.78	10.976.62	17-170	00100100	00.102.0	01.500.0	4.085.33	6.849.62	3.758.89	5.031.50	5,476.68	9.352.97	2,916.45	6 74A 05	6.224.41	11.177.30	3,562.14	12,509.00	6.704.68	5,340.01	4,882.17	5,015.86	6,911.49	4.293.31	0,305.00	10.00.011		\$1.247.491.73
5,960.20 2,137.80	1,544.35	1,561.40	4,453.62	201.131.10	001 200	9 098 57	1.878.73	389.64	8.930.28	10.821.45	45.03	8,005.90	4,041.08	1.693.72		6,866.43	3.00	20.012	002.30	01.001.1	810.48	2.066.37		1,307.90	2,047.68	2,378.47	343.45	1 490.06	1.360.56	3.116.05	622.14	4,429.00	1,829.03	1,564.86	1.222.17	1,212.86	1,887.20	849.34	CJ.COO.1	60.100.6		\$ 413.239.19
6,633.50	881.49	3,198.10	7.441.15	De 100'1	00 022	1 984.00	5.130.00	2.000.00	10.710.49	24.473.10	1,153.00	16,823.89	11.847.00	4,310.50	3,282.65	16,712.08	00123	00'100'7	26.966.2	1.965.00	3 974 85	4 783 25	2.760.00	3.723.60	3,429.00	6.974.50	2,367.00	11.00.19	4.863.85	8.061.25	2.940.00	8,080.00	4,875.65	3.775.15	3,660.00	3,803.00	5,024.29	3,443.97	202002	1,203.50	CO-DOT'T	\$ 834.252.54
Grande Prairie, Municipal Hanna, Municipal	rdisty, St. Anne's	gh Prairie, Providence	High River, Innisfail	nistall, Aunicipal managements	Islay, Municpiat	Cillam Canaral		c La Biche. St. Catherine's		ethbridge. Galt	thbridge. Isolation	thbridge, St. Michael's	Joydminster, Municipal	Macleod, General	Mannville, Municipal	Medicine Hat, General	Medicine Hat, Isolation	Mundare, General	McLennan, Sacred Heart	Tham, Municipal	Nordegg, General	Dane River Municinal	Pincher Creek, St. Vincent's	Provost. Municipal	Rodway, St. Joseph's	Red Deer, Municipal	Rimbey, St. Paul's	ole. Toke Courte McDoutell	SHIDBY Lake, George MCLOUGAII	Stattlar Municinal			Municipal		Vilna, Our Lady's	Vulcan, Municipal	Wainwright, Municipal	Wayne, General	Westlock, Immaculata	Wetaskiwin, Community	Willingdon, General	Total

# ANNUAL REPORT, 1939 75

	Hous	Housekeeping	Laundry	dry .	Engineer and Janitor	nd Janitor		T table and	Ton and	
	Wages	Supplies	Wages	Supplies	Wages	Supplies	Fuel	Power	Water	Total
Athabasca, Municipal Banff, Mineral Springs Barrhead Barrhead Passno Municipal	\$ 308.69 1,448.15 391.75	\$ 69.23 714.66 1.439.79	\$ 743.37 1.548.40	\$ 107.69 326.40 262.70 1.028.52	\$ 690.02 3.046.50 748.95	\$ 17.66 456.09 69.55	\$ 1,056.99 2,185.92 440.10 798.55	\$ 895.80 864.88 410.28 740.66	\$ 305.58 173.61 740.67 306.00	\$ 4,195.03 10.765.49 3.293.54 4.272.23
Bentley, Community Berwyn, Ratepayers' Associa- tion of Peace	300.00	10.65		19.40	324.61		278.35 451.95	178.44 859.60	.75	767.44 1.716.86
Bonnyville, K. H. Prittie Bonnyville, St. Louis Calsary, General	120.00 5.919.27	64.30	86.10 240.00 8.815.76	80.00 60.80 1.489.77	900.09 00.09	770.00	290.20 8.563.94	625.67 316.23 2,670.44	27.50 42.37 2,049.20	2,489.27 1,782.40 36,493.74
Calgary, Isolation Calgary, Holy Cross	4,270.17	3,850.94	390	24.00	10,588.29	876.41	898.04 10,336.08	311.61 4.871.45 401 72	239.76 3.681.99 196.05	2,122,71 45,583.13 4 300 21
Calgary, Junor Act Closs Calgary, Salvation Army Grace Camrose, St. Mary's	1.281.46 893.50	622.83	260.00	210.00 212.86	540.00		554.19 866.08	405.05	224.24	2.934.94
Cardston, Municipal	588.38	86.01	16.20	153.67	992.62	95.74	238.25 405.96 221 80	224.50 902.72 324.70	30.00 93.30 127.20	4.938.40 1.066.43
Castor, Rosary Castor, Rosary Cereal, Esler	287.50	52.39	420.00	129.37	502.50	48.00	553.50 293.23	545.63 174.08	128.20	2.667.09 638.26
Cold Lake, John Neil		84.07 146.64	264.00 264.00	94.06 3.93	709.50	100.00	337.02 291.46 290.40	336.65 407.85 397.40	144.00	1,566.80
Consort, Municipal Consort, Municipal Coronation, General	159.60	72.14	850.14	24.05	260.00		417.15	243.85 320.61	233.40 240.00	2.004.54
Daysland, Providence Desmarais, St. Martin's	300.00	280.14	210.	105.00	325.00		295.80	907.57 90.85 949.99	95.80	2.621.08 1.422.95 1.897.46
Drumheller, Municipal Edmonton Reulah Home	1,600.35	859.41	1,948.98	1,162.23	3,917.57	348.80 140.36	1.009.19 639.83	2,982.80 278.39	1.067.47 63.65	14.896.80 2.174.06
	4.122.00	848.13	2.954.53	1,060.75 965.28	6.371.37 4.800.00	1,162.88 2,838.41	5,788.50	2,693.37 2,424.00	3,391.98	27,393.51 33,897.28 99.735.70
Edmonton, Koyal Alexandra Edmonton, Isolation Edmonton, St Josenh's	4,905.76		950	281.00	4,742.00	1,169.20	2.507.00	1.260.00	724.00	19,257.86
	9,415.29 480.00 428.70	2.516.30 175.48 273.83	10.607.05 320.00 404.65	1,148.86 117.68 204.25	6,380.00 1,250.00 478.00	766.59 77.53 29.52	18.340.99 690.37 1.118.10	813.76	284.90	49.175.08 4.209.72 5.549.88
Empress. Cottage Fairview. Community	00 909	87.10	488.44	87.25 21.48 62.93	214.85	6.05	344.07 379.43 893.75	447.69 673.30 175.67	361.35 25.22	1,602.70 1,743.56 3,228,72
Fort Vermilion, St. Theresa Galahad, St. Joseph's	250.00	125.35	25.00	100.00	210.00	20.00	180.70	28.40 468.00	42.50	401.95 1,831.00

GENERAL HOUSE AND PROPERTY OF ALBERTA HOSPITALS, 1939

76

## DEPARTMENT OF PUBLIC HEALTH

4,973.19 5,755.73 2,112.47	2,287.83	5,007.93	02.050.9	9 344.45	1.121.31	4 122 85	2.346.82	16.175.80	18.048.32	325.99	10,081.93		2.666.77			126.01		3,480.87	1.252.80	531.77	1.147.30	3.868.32	2.143.55	2.792.24	3.410.24	4.161.63	1.973.88	2,120.63	2.279.62	3,760.93	3,859.08	2,233.76	7.272.50	4,396.53	2,818.44	2,069.01	3,321.10	10.266.2	2,205.35	02 022 6	1 772 01	10.011.1	\$ 599,690.75
91.46	90.00	178.80	0.0 TO	120.001	001011	361.38	138.00	1.817.77	1.482.94		918.34		132.00		541.25		107.38	14.20	38.70	18.00	270.70	50.90	61.13			90.35	tunine		39.00		120.00	105.32	350.00	4.50		15.00	116.66			22.020	ce-107		\$ 29,934.03
1.246.71 1.476.61 480.00	622.38	1,182.12	90° 000'T	00.900	277 200	660 98	76 636	464.56	2.293.32	96.09	1.717.34	1.613.37	755.04	572.20										555.90			348.39		332.14	563.56	912.66	359.20	1,012.50	1.222.06	628.34	139.48	887.06	594.68	596.00	851.04	90'019	20.142	\$ 69.219.55
1.808.88 1.208.76 650.27	335.55	1.047.28	1,088.399	00.000	011026	110.12	445 80	016	2 829 23	229	1.121.59	1 897 35	1.083.86	758 92	3.348.47		431.51	642.91	404 23	965 30	240.80	710.07	192.37	1 113.35	796.84	845.24	596.22	980.13	626.06	872.53	739.60	492.31	1.800.00	1,051.67	653.40	512.00	724.03	738.96	422.76	132.60	19-9-0-0	90.000	\$ 118,788.83
40.57 64.23 54.75		and a second	46.03	34.60	100-07T	100.00	00-00T	9 222 76	187 90	AP- 101	561.71	******	54 55	5 50	397.78		427.63	76.53	16.80	TRIOO		48.91	23 62	194 50	00 VD	19.46	28.71		32.11	39.00	44.10	61.38	270.00	153.21	269.57	167.53		50.68	36.00	82.50	ET.171	148.10	\$ 21,081.33
940.00 687.35 360.00	365.00	758.00	1,157.90	506.25	06.612	1 000 50	00'020'T	12 018 6	4 211 00	AN-TTO'L	2 963 86	1 989 75	Tracon-10	612 10	010000	ANY ANY ANY	497.63	00.002 1	057 50	00-105	77 00	87 600	00.000	100.006	00 260	759 00	302.95	646.00	860.00	690.00	792.10	600.00	920.00	559.59	694.94	420.00	638.00			360.00			\$ 107,511.88
186.44 358.53 32.04	269.40	476.04	76.65			907.20		1 906 91	10:000'T	07:001	713.09	002 200	00.000	01-07	10 103	19:190			10.04			10.041	100.41	00.00	00.00	110011	20.011	115.50	00 GPL	205.70	67.58	110.08	450.00	278.71	163.31	95.00	111.25	392.84	150.75	89.50	761.45	180.00	\$ 24,531.78
505.50 240.00								ġ a		ė	00		żs		20.000	÷		20.05				00.007	60.000	200.002	000.00	00.000	01010	00 023	00 601	714.00	610.45	200.00	1.300.00	460.05	408.88	120.00	382.45	450.50	360.00	240.00	. manufacture	62.17	\$ 87,951.98
49.13 527.60 295.41	TEODS	459.04	268.03	22.10	140.90	120.92	333.38	00.101	66-710'T	06-007-7		100 00	12.105	60:2T	955 95	00.000	140 69	70.641		64.64	00.0c		137.86	314.39	A D D D D D D	107.04	200.00	00.711	06 22	288.14	181 84	105.47	420.00	266.64			215.96	124.35	102.87	350.75	265.20	99.23	\$ 41.943.26
140.00	485.50	287.50		TITLE TO THE PARTY OF THE PARTY	250.30	300.00	- and a second second	010.40	01.600.1	79-661				(111111111111	10 000 0	67.002.2	042.40	01.662	00.200	162.10			519.45	380.00		120.00	00.162	ne-eez		968 00	200.75	200.000	750.00	500.10		600.00	246.29		360.00	240.00	898.50	360.00	\$98,728.11
Grande Prairie, Municipal Hanna, Municipal	ardisty, 5t. Allite's	High River, Municipal	misfail. Municipal	slay, Municipal			Lacombe and Dist., Community	Lac La Biche, St. Catherine's	amont, Public	Lethbridge, Gait	Lethbridge, Isolation	Lethbridge, St. Michael 8	Lloydminster, Municipal	Macleod, General		Hat.	Medicine Hat, Isolation	Mundare, General			Nordegg, General	Olds, General	Peace River, Municipal	Pincher Creek, St. Vincent's	Provost, Municipal	Radway, St. Joseph's	Red Deer, Municipal	Rimbey, St. Paul's D.W.U.	Rocky Mountain House, K.M.H.	Smoky Lake, Geo. McDougan	Statter Municipal	Tracht & Marv's	line			Villas Our Ladv's	William Municinal		Wayne General	Westlock. Immaculata	Wetaskiwin. Community	Willingdon, General	Total

### ANNUAL REPORT, 1939

	Buildings and Grounds	Furniture and Equipment	Dry Goods	Sundries and Rents	Total Mainten- ance	Total Running Cost
Athabasca, Municipal	\$ 229.21	\$ 249.16	\$ 379.29	\$ 29.71	\$ 887.37	\$ 18,195.12
Barrhead, Barrhead	2.754.53	965.39	1.041.89	295.05	5.056.86	36,618.38
Bassano, Municipal Bentlay, Community	675.21	338.40	227.94	10 22	1,241.55	18,238.39
Berwyn, Ratepayers' Association of Peace	114.62	265.70	29.89	107.00	410.21	8,736.27
Bonnyville, K. H. Prittie Bonnvville, St. Louis	481.36	36.00	185.20	211.27	728.63	8,854,84
Calgary, General	1.863.07	14,436.19		22,334.00	38,633.26	241.019.47
Calgary, Holy Cross	2.167.02	3.529.41	7.064.45	2,445.40	2,988.08	240.813.45
Junior Re	00 001			1,833.67	1,833.67	26,327.63
Caugary, Salvation Army Grace Camrose, St. Mary's	372.04	1.063.68	472.57	156.50	1.150.20	30.545.25
		TUTUTION OF T	annound the	900.006	900.000	8,338.05
Cardston, Municipal Carmangay, Little Bow	791.30	297.60	246.91	832.00	2,167.81	25,588.05
Castor, Rosary	1,328.28	1.100.47	513.95	20.32	2.963.02	14,360.48
Cereal, Ester Clarasholm, Municinal	11.16	330.50	78.74	100 242	500.35	5.509.03
Cold Lake, John Neil	986.10	1,256.45	130.20	195.31	2.568.06	11.647.83
Coleman, Miners' Union Consort, Municipal	357.75	267.50	100.25	73.38	798.88	10.446.80
Coronation. General	203.41	193.26	12.54		409.21	7.655.45
Daysland, Providence	693.05	561.38	502.55	Anterna Anterna	1,756.98	13.971.07
Didsbury, General	201.07	273.72	178.24	per manual	653.03	8,784.04
	3,492.97	939.66	1.182.55	627.34	6,242.52	76,692.81
Edmonton, General	2.309.28	7.649.56	4 510 89	7 994 67	92 464 40	11.108.47
Edmonton, Misericordia	4.840.60	8,905.81	4.870.68	6.101.85	24.718.94	167,995.46
Edmonton, Royal Alexandra	9,121.73	annotana and a second s	6,857.63	9,600.00	25,579.36	434.205.35
Edmonton, St. Joseph's	935.00	1.224.10	405.12	75.21	2,545.63	76,944.12
Edmonton, University	10,857.04	18,424.01	10.906.1		37,187.06	414,833.39
Edson, St. John's Elk Point Municipal	357.62	144.19	00 002	45.48	547.29	14.611.12
.~	57.38	314.59	63.29		1,125.20	21.050.12 8 616 25
Fairview, Community	240.11	38.21	166.01	1.25	445.58	7.500.56
Fort McMutray, St. Gabriels Fort Vermilion, St. Theresa	28.825	36.115	308.19	3.50	1,063.20	11,140.48
Galahad, St. Joseph's	440.00	442.52	273.91	324.24	1,480.67	10.289.08

MAINTENANCE AND WAGES, ALBERTA HOSPITALS, 1939

1

78

### DEPARTMENT OF PUBLIC HEALTH

25,830.14	13,076.16	17,003.54	ee.ee1.62	24,186.50	9,460.77	8,547.50	8,116.87	17.392.70	9.995.60	68.657.47	20 220 22	00:000100	10 100 0a	10.462.01	40,682.69	16,521.42	11,184.55	73,723.44	1.322.70	8,677.54	13.640.02	7.425.20	4 940 43	9.200.65	19,127.09	20-101'01	0,404.20	20'TTO'CT	P2-001.11	21,000.00	10.702.10	10,511.53	11,396.22	18,841.35	25,508.30	10,571.08	40,156.25	20,156.73	13,738.97	10.775.78	14,007.23	18,577.13	13,946.82	11.682.63	24,172.17	6,618.59		\$3,275,688.79
1,925.25	2,526.26	4,892.04	1,914.19	1,574.85	449.05	456.80	1.336.84	904.81	3 042 54	7.074.63	10 000 1	12:020/8	20.007	01.016.0	2,655.68	1,165.14	618.87	7,539.06	364.05	424.08	1.340.32	364.58	113 10	824 34	101 201 1	01.014	CT-011 1	0.001111	25.002.2	00'01C'T	2,447.22	19:01	120.26	2,274.41	2,307.69	2,012.40	6,091.25	1,264.36	800.43	1,567.82	699.53	2,521.39	2.724.41	1,652.90	1,893.39	472.61		\$ 308.927.73
	\$ 21.03	2,047.83	1000 March	9.02	. 2.55	35.10	648.92	31.47		927.98	000000	100.00	01.00	1,411.71	45.14	93.55		724.96		24.50	36.00	32.17	37 50	22 042	00.510	1.00	And	11111111111	286.70		562.73	130.49		and a second sec	2.94		ATTACATA	18.45		940.00		109.02	488.32	62.80	31.43	70.10	_	\$ 69.313.20
391.43	239.18	847.76	614.05	644.89	an operation	190.60	163.09		662 79	95010	11.000 0	11.602.2	Contraction of the second	238.13	650.94	538.78	296.21	28.34		269.90	630.79	33.76	100.000	00.00	00.00	200-40	431.81	213.23	393.48	342.25	324.94	annanan	and a second sec	532.52	737.20	250.42	1.450.75	324.47	218.19	96.00	182.48	364.88	183.25	396.50	701.22	257.51		S 59.460.69
150.70	1,681.05	1,539.06	912.25	448.77	113.45	95.30	140.00		0 107 69	1 217 29	10111011	00.001	1/3.21	Strates .	997.29	332.00	120.67	2.763.80		7.40	80.00	85.65	00.00	159.19	01.201	21.112	20.00	439.72	359.34	374.51	547.13	mont	and a second sec	820.89	558.12	529.	2.100.50	570.	398.51	320.38	303.96	1.428.15	1.418.30	865.00				\$ 93.113.26
1.383.12	585.00	457.39	387.89	472.14	333.05	135.80	384 83	873.34	01 001	01-901 V	01-110-1	25.6/1.1	29.36	1,966.31	962.31	200.81	201.99	4.021.96	364.05	199.98	109 60	00.000	00.012	00.07	22.85	916.93	230.32	460.62	620.90	794.12	1,012.42	784.88	120.26	921.00	1.009.43	1.232.58	2.540.00	350.95	183.73	211.44	213.09	619.34	634.54	328.60	1.160.74	145.00		\$ 87.040.58
Grimsnaw, battle kuver Hanna, Municipal	fardisty. St. Anne's	High Prairie. Providence	ligh River. Municipal	nnisfail. Municipal	slav. Municipal	Terner Seton	Cilliam Cananal	- 28	acompe and District Community	ac La Bicne, St. Catherine s	amont, Public	ethbridge, Galt	ethbridge, Isolation	ethbridge, St. Michael's	Llovdminster. Municipal	Macleod. General	Mannville. Municipal	Madicina Hat Coneral	Medicine Hat Tealston	Medicille flat, 1801aM011	Mundare, General	McLennan, Sacred Heart		Nordegg, General	Olds, General	Peace River, Municipal	-	Provost, Municipal	Radway, St. Joseph's	Red Deer, Municipal	Rimbey. St. Paul's	Rocky Mountain House, R.M.H.	Smoky Lake. George McDougall	St. Paul. St. Theresa	Stettler, Municipal	Trochii, St. Marv's	lla (			10	Widon Minicinal	Weinwricht Municinal	Warns Canaral	Wayne, Ummaculata	Watsching Commute	Willington, General		Internet

### ANNUAL REPORT, 1939

	Res	Reserves	Capital I	Capital Repayments		
	Bad Debts	Other Reserves	Principal	Interest	Other Charges	Total Cost
Athabasca, Municipal Banff, Mineral Springs	\$ 966.69	\$ 6.936.03	s 720.00	\$ 3,323.62	\$ 400.41 5.768.63	\$ 26,498.25 46.431.23
1111	1.992.80	1,395.55			119.76	19.888.81 21.746.50
Berwyn, Communy Berwyn, Ratepayers' Association of Peace	400.00	1,450.00			36.72	9,992.40
Bonnyville, St. Louis Calgary, General		******	2 668 56	7 374 89	6 517 46	8,346.89
	00 000 00	45 400 00	889.51	2,458.28	780.23	29,443.83
	00,000,00	06:565-CT		359.23		315,307.35 26,686.86
	anterio (construction)					30.545.25
Canmore, Canmore Cardston, Municinal	1 800.00	00000				8,338.05
Carmangay. Little Bow						10,155.98
Castor, nosary Cereal. Esler						14,360.48
Claresholm, Municipal	81.50			56.66		13,638.74
Coleman, Miners' Union		1.122.50	and a second sec		1,467.15	11.647.83
Consort, Municipal Coronation, General			1,848.96		1.676.00	10,754.38
Daysland, Providence Desmarais, St. Martin's	3 500 00	17 756 90		840.82		16.660.85
Didsbury, General			TATALANA TATALANA	AND DESCRIPTION OF THE OWNER		8,784.04
- · · ·			28,000.00 1.000.00	794.46	4,176.03	102,919.59
Edmonton, General Edmonton, Misericordia				8,697.58		202.579.57
	00 100 00					434,205.39
Edmonton, St. Joseph's	1.001.86		9.500.00			76,944.18 29,363.71
Edmonton, University	1.317.09	000.000	1,250.00			501,933.39
245	150.00	1,560.00		660.86		24.325.16
					544.78	9.755.34
Fort McMurray, St. Gabriel's Fort Vermilion St Theresa	11					11,140.48
					203.98	10.493.06

ALBERTA HOSPITALS, 1939

80

### DEPARTMENT OF PUBLIC HEALTH

$\begin{array}{c} 41.826.13\\ 2.974.80\\ 16.627.22\\ 117.226.66\\ 117.226.66\\ 117.225.66\\ 117.222.083.88\\ 117.714.72\\ 2.083.88\\ 117.725.12\\ 2.083.88\\ 10.313.70\\ 2.133.20\\ 10.337.13\\ 2.133.70\\ 11.714.72\\ 2.133.70\\ 11.714.72\\ 2.133.70\\ 11.714.72\\ 2.133.70\\ 11.714.72\\ 11.725.13\\ 11.322.70\\ 11.325.76\\ 11.322.70\\ 11.325.76\\ 11.322.70\\ 11.325.76\\ 11.322.70\\ 11.326.62\\ 2.135.14\\ 2.1464.28\\ 2.135.14\\ 12.464.28\\ 2.135.14\\ 12.464.28\\ 2.135.14\\ 12.464.28\\ 2.135.14\\ 12.464.28\\ 2.135.14\\ 12.464.28\\ 2.135.14\\ 12.464.28\\ 2.135.14\\ 12.464.28\\ 2.135.162\\$	9,180.74 \$3,823,932.01
397.68 4.310.46 4.310.46 11.735.54 2.500.26 348.73 1.370.21 3.3771.59 3.389.25 1.815.45 1.815.45 1.815.45 1.815.45 3.464.08 3.464.08 3.464.08 561.90 561.90	2.426.90 \$ 59.332.47
3.746.98 1.551.06 223.12 1.657.38 652.14 652.14 652.14 1.089.40 1.089.40 1.318.45 907.00 4.090.27 844.75 844.75	\$ 54.714.38
2,000.00 62.00 62.00 1,000.00 1,000.00 100.00 100.00 100.00 100.00 1000.00	\$ 65,977.47
$\begin{array}{c} 7.400.40\\ 1.518.82\\ 1.518.82\\ 1.518.82\\ 1.391.50\\ 2.435.71\\ 2.435.71\\ 2.435.71\\ 2.100.00\\ 3.413.40\\ 873.53\\ 5.079.25\\ 3.412.23\\ 5.079.25\\ 1.232.290\\ 1.116.48\\ 5.50.00\\ 1.116.48\\ 5.50.00\\ 1.010.33\\ 1.010.33\end{array}$	\$ 106,862.58
3.228.10 3.228.10 3.228.10 15.000.00 15.000.00 11.000.00 11.000.00 11.000.00 13.011.21 1.302.00 13.011.21 1.302.00 13.001.00 1.300.00 1.737.50 2.5339.64 5.53.68 2.5339.64 2.1000.00 1.727.50 1.700.00 1.7200.00 7.200.000 7.200.000 7.200.000 7.200.000 7.200.000 7.200.0000000000	\$ 251,356.32
Grande Prairie, Municipal Hardisty, St. Anne's Hardisty, St. Anne's High Frairie, Providence High River, Municipal Innistail, Municipal Islay, Municipal Jasper, Seton Larcua Biche, St. Catherine's Lacombe and District, Community Lactubridge, Isolation Lethbridge, Isolation Lethbridge, Isolation Lethbridge, Isolation Lethbridge, St. Michael's Lloydminster, Municipal Mamwille, Municipal Manwille, Municipal Medicine Hat, General Medicine Hat, General Mundare, General Mundare, General Municipal Micher, St. Vincent's Peace River, Municipal Provost, Municipal Rocky Mountain House, R.M.H. Stettler, Municipal Provost, Municipal Viking, Municipal	

### ANNUAL REPORT, 1939

	Gra	Grants		Truckland	E		
	Alberta	Others	Patients' Fees	Cash and Service	Requisi- tions	Sundry Earnings	Total
	\$ 2.730.15 4.670.00 3.830.40 2.416.05	10000000000000000000000000000000000000	\$ 7,870.34 31,674.59 19,870.00 8,884.94		\$ 10,332.07	\$ 1.582.08 3.822.25 2.511.25	\$ 22,514.64 40,166.84 23,700.40 20,778.24
Bentley, Community Berwyn, Ratepayers' Association of Peace	1,209.60		8,836.12 6.430.02	\$ 618.57 22.65	4 995 00	370.30	11,034.5
le, K. H. Prittie le, St. Louis General	1,324.80 2.120.40 29,335.95	\$ 320.00	6,176.35 8,005.50 177,077.28	4,555.40		*51.167.08	7,501.15
	37,689.75	3.200.00 862.50	290,035.56	26,762.22 11,082.36		1,922.13	29,443.8 358,687.5 33,538.1
. 16	4,347.90	00.061	27,615.75	3,095.00		3,042.68	35,058.6
Cardston, Municipal Carmangay, Little Bow	4.785.90		13.137.68 5.892.85	220.17	12,380.34 3,652.47	2,188.23	32,492.1
Cereal, Esler Coreal, Esler Municipal	968.40 968.40	721.00	8,578,15 4,782.95	2,282.41 420.00		63.42	6,955.7
Cold Lake, John Neil	1,696.95	1.520.90	7,456.50		11,736.27	1.699.00	20,104.8
Consort, Municipal	2.065.05	1,173.00	7,115.40	43.00	5,685.06	88.50	16,170.0
Daysland, Providence Desmarais, St. Martín's	1.226.70	9.460.40	0°.285.00	3,300.00		\$2,705.00	17.216.7
	11.260.35	1,500.00	7,309.90		27 000 E4	2 121 08	10,190.5
	1.937.70	1.350.00 6.000.00	4,210.15 193,843.91	2.844.65		1,163.49	11.505.
	24,065.10	17,177.69	152.297.00 389.769.79	23,000.00			216.539.1
Edmonton, Isolation Edmonton, St. Joseph's Edmonton Thivereity	0,801.40 1,906.85 68 488 85	125.00	57,785.52 36,666.82 200.475.45	8,530.00			47.228.0
20	2,662.65	2,500.00	15,660.45	5,040.00	10 247 00	1 018 58	25,863.
Empress, Cottage Fairview, Community	1,641.60 914.85	1.500.00	11.108.48	163.61 246.78			8.040.
Fort McMurray, St. Gabriel's Fort Vermilion, St. Theresa Galabad St. Josenh's	674.10 674.10	2,222.00	5.561.38 1.220.75 8 828 79	5.845.57 960.00		360.00	5,436.
Grande Prairie, Municipal	5,426.55		13,426.10	00.612.2	25,054.66	1.705.82	45,613.

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REVENUE OF ALBERTA HOSPITALS, 1939

82

### DEPARTMENT OF PUBLIC HEALTH

$ \begin{smallmatrix} 17,975,41\\ 24,831,61\\ 30,934,49\\ 30,934,49\\ 30,934,49\\ 30,934,34\\ 12,032,05\\ 18,71,06\\ 18,71,95\\ 10,8,219,04\\ 10,8,219,04\\ 33,532,87\\ 10,8,219,04\\ 33,532,87\\ 10,8,219,04\\ 33,532,57\\ 13,474,90\\ 11,322,70\\ 11,322,70\\ 11,322,69\\ 12,1592,39\\ 12,310,96\\ 13,754,01\\$	\$4,062,394.34
2,083,94 601,17 38,25 38,25 38,25 38,25 2,617,84 1,761,81 1,761,81 1,761,81 2,647,59 2,647,59 2,647,59 2,647,59 2,647,59 2,647,59 2,647,59 2,647,59 2,647,59 2,562,00 1,059,49 2,562,00 1,059,49 2,564,00 1,059,49 2,750,27 4,35 1,729,04 1,005 2,647,00 3,562,07 4,35 1,729,04 1,005 2,647,00 3,562,07 4,35 1,729,04 1,005 3,562,07 1,005 1,000 3,562,07 1,000 2,564,000 1,053,40 1,000 3,562,07 1,000 2,564,000 2,564,000 3,562,07 1,000 2,564,000 2,566,000 2,564,000 2,576,000 2,576,000 2,564,000 2,576,00000000000000000000000000000000000	\$ 196,868.59
16,695.00 14,621.00 8,299.000 8,299.000 5,075.00 5,075.00 11,262.65 12,720.00 1,482.21 10,5566.67 10,5566.67 10,5566.67 10,5568.67 10,5568.67 10,5568.67	\$ 277,872.93
2,835.11 3,504.70 3,149.78 2,201.34 2,032.00 190.05 115.25 50.00 3,460.00 3,460.00 1,456.66 5,700.00 5,700.00 1,456.66 5,700.00 2,798.30 2,798.30	\$ 170,406.33
$\begin{array}{c} 12.556.85\\ 16.979.20\\ 13.673.65\\ 16.979.20\\ 13.673.65\\ 11.991.20\\ 5.789.50\\ 17.185.71\\ 17.185.71\\ 17.185.71\\ 17.185.71\\ 17.185.71\\ 17.185.71\\ 17.185.71\\ 17.185.71\\ 17.523.64\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.38\\ 62.64.92\\ 62.6$	\$2.814,747.36
2.500.00 2.500.00 4.076.00 4.526.00 1.283.55 1.524.75 1.524.75 1.524.75 1.524.75 1.524.75 1.524.75 1.524.75 1.524.75 1.524.75 1.524.75 9.50.00	\$ 118,740.34
2,583,45 2,703,65 5,176,35 5,176,35 5,176,35 1,100,710 1,106,70 1,106,70 1,106,70 1,106,70 1,106,70 1,106,70 1,106,70 1,106,70 1,106,70 1,106,70 1,106,70 1,168,99,45 1,168,99,45 1,168,99,45 1,168,95 2,087,55 1,177,39 1,169,177,39 1,169,177,39 1,177,39 1,177,35 1,177,39 1,177,35 1,177,35 1,177,39 1,177,35 1,177,39 2,087,55 1,177,35 1,177,39 2,087,55 1,177,39 2,087,55 1,177,39 2,087,55 2,087,55 2,087,55 1,177,39 1,177,39 2,087,55 1,177,39 2,087,55 2,087,55 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,172,35 2,173,172,175 2,173,172,175 2,173,172,175 2,173,172,175 2,173,172,175 2,173,172,175 2,173,172,175 2,173,172,175 2,173,175 2,175	\$ 493,758.79
Hardisty, St. Anne's High River, Municipal Innistali, Municipal Innistali, Municipal Islay, Municipal Jasper, Seton Killam, General Lacombe and District, Community Lacombe and District, Community Mancleod, General Mcliche Hat, Isolation McLennan, Bacred Heart Myrnam, Municipal Nordege, General Mcranipal Pincher, Creek, St. Vincent's Provost, Municipal Red Deer, Municipal Red Deer, Municipal Red Deer, Municipal Vermilion, Municipal Vilna, Our Lady's Vilna, Our Lady's Vilna	Total

\*Includes—Donation, \$5,000.00; Charge to mill rate, \$44.361.55 (deficit). Charge to mill rate, \$25,470.98. Contracts.

ANNUAL REPORT, 1939

	Per Patient Per Day		Pe	Percentage of Cost	st		
	Exclusive of Capital and Reserve	Adminis- tration %	Professional Care	Kitchen and Dining Room	House and Property	Mainten- ance %	Revenue per Patient per Day
Athabasca, Municipal Banff, Mineral Springs	\$ 2.99 3.42	15.5	38.4 24.6	18.2	23.1	8.4 8.8	\$3.70
Barrhead. Barrhead Bassano, Municipal	2.33	8.6 13.8	24.7	24.6	16.6	25.4	2.78
Bentley, Community Berwyn, Ratepayers' Association of	3.71	5.2	63.9	16.2	1.7	6.9	4.11
Peace Bonnvville. K. H. Prittie	3.54	11.5	38.6	25.5	19.6	4.6	5.03
Bonnyville, St. Louis	1.17	4.6	46.3	23.4	21.3	4.32	3.18
	3.28	21.9	37.4 32.1	22.2	15.1 8.4	11.8	3.60
Calgary, Holy Cross Calgary, Junior Red Cross	2.86	10.8	39.2	24.3	18.6	1.0	4.27
	1.58	0000	1.12	30.2	2222	0.10	1.86
	4.03	3.6	50.3	29.4	16.2 5.9	10.8	3.63
Carmangay, Little Bow	2.44	8.0 11.5	39.9	24.2	19.3	8.5	3.13
Castor, Rosary Cereal, Esler	4.25	8.8	31.9	20.1	18.5	20.6	3.66
Claresholm, Municipal Cold Lake, John Nell	2.75	12.3	48.6	23.1	11.6	43	4.09
Coleman, Miners' Union Consort, Municinal	345	100	40.4	28.6	17.9	2.6	4.39
Coronation. General	2.20	14.2	37.8	25.9	16.7	9 C 2	2.82
Daysland, Providence Desmarais, St. Martin's	2.45	9.0	29.6	30.2	18.1	12.5	4.49
Didsbury, General Drumheller Municinal	2.86	6.4	44.6	19.9	21.6	4.1	3.32
		No	Report 33.0	1.02	No	Report 8.1	3.80
Edmonton, Beulan Home Edmonton, General	3.06	24.8	24.1	25.4			2.49
	3.02	9.8	31.9	24.5	202	14.7	3.89
	3.00	16.0	34.8	20.8	21.3	0.0	3.35
Edmonton, St. Joseph's Edmonton Invigentia	1.24	7.3	24.6	30.7	28.3	60	1.99
2,	2.47	12.8	31.6	22.9	28.8	3.7.6	4.21
	2.24	1.11	32.1 42.7	22.2	26.3 18.6	5.0	2.76
Fairview, Community Fort McMurray, St. Gabriel's	3.69	8.6 9.6	38.4	23.8 29.8	23.2	6.0 0	3.69
Fort Smith, General		No Report			No Report		07°C

COST OF ALBERTA HOSPITALS, 1939

84

### DEPARTMENT OF PUBLIC HEALTH

2.51 2.65 3.53		3.13															3.11										1.68					3,77								9.51
14.4	Report 7.4	19.3	6.6	6.5	4.7	16.5	5.2	30.4	5.1	9.9	5.2	6.5	11	Ronnet 0.0	10	27.5	4.9	9.8	4	report 0.0	0.0	7.8	8.5	7.0	13.2	22.9	8.4	-	Meport 19.1	9.0	19.0	15.2	0.0	14.5	4.9	13.7	19.5	14.1	7.1	9.4
	No	16.2	17.2	19.4	24.5	13.8	23.7	23.5	18.9	12.7	13.2	17.7	10.1	NN	Der L	9.5	27.8	25.5	6 Mar	NO	19.5	21.3	25.3	17.7	19.9	18.4	19.5	-	NO	15.1	21.1	18.1	206	19.2	23.7	12.9	15.8	29.52	26.8	18.2
43.0 22.6 22.9	21.4	33.7	25.0	22.7	22.1	14.8	20.6	20.1	27.9	26.0	34.0	28.9	1.95	21.00	23.3	21.8	22.7	30.9	18.8	44.7	97.0	19.2	18.7	25.3	24.8	19.8	18.8	14.5	95.1	19.4	19.9	30.8	22.02	11.2	22.9	23.4	24.2	23.8	30.8	93.6
46.8 39.6 41.2	-	18.5	40.8	40.6	33.2	49.4	40.3	2.62	37.0	46.6	32.6	39.0	20.00	Report		39.4	39.9	23.9	Panort 40.3	EF.	44.4	37.8	44.4	31.8	0.22 49 8	27.2	47.9	* 59	neport 33.0	43.8	33.7	31.1	38.9	45.3	35.8	37.8	20.0	33.1 46.6	26.4	38.1
	ON 6	12.2				00		-14						No	00		4.6		No	ONT 6							5.3	3 No	No. 8			4.7		100						10.6
\$ 1.98 2.15 2.66	3.22	2.28	2.53	2.14	3.49	3.49	2.52	2.74	2.68	7.17	2.71	1.91	07 6	OT. IN			1.87			2.47	2.54	3.78	2.13	2.50	2.64	2.15	2.34	4.23				2.15								\$ 2.83
Fort Vermilion. St. Theresa Galahad. St. Joséph's Grande Prairie, Municipal Grimebaw Battle, Ritor	Hanna, Municipal	Hardisty, St. Anne's High Desirie Descridence	High River, Municipal	Innisfail, Municipal	Jasper. Seton	Killam, General	Lacombe and District, Community	Late Lat Dictre, St. Cattlerine 8	Lethbridge. Galt	Lethbridge, Isolation	Lethbridge. St. Michael's	Medeed Conouri	Mannvilla Municinal	Marwavne, Nursing Home	Medicine Hat, General	Medicine Hat, Isolation	Mundare, General	McLennan, Sacred Heart	Myrnam, Municipal Nanton Ganaral		Olds. General	Peace River, Municipal	Pincher Creek, St. Vincent's	Provost, Municipal	Rauway, M. Joseph S Red Deer Municipal	Rimbey. St. Paul's	Rocky Mountain House, R.M.H.	Smoky Lake, George McDougall	St. Paul. St. Theresa	Stettler, Municipal	st.	Vegreville, General	Viking Municinal	Vilna, Our Lady's	Vulcan, Municipal		Wayne, General	Westlock, Immaculata Weteskiwin Community	Willingdon, General	Average

### ANNUAL REPORT, 1939

# Division of Social Hygiene

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

The educational programme has continued unabated. The new films purchased last year are proving eminently satisfactory, and were shown at most of the one hundred and thirty lectures on social hygiene which were given in various parts of the Province during the year.

Our programme instituted fifteen years ago for the prevention of symptomatic neurosyphilis is bearing fruit and fewer patients in this stage of the disease are being seen from year to year.

The treatment of gonorrhoea with sulfanilamide and its related compounds is continuing to give the brilliant results which our first series of cases in 1937 heralded.

During the year the policy of distributing drugs free for the treatment of all syphilitics was introduced. Over 15,000 doses of drugs for injection were distributed to 138 physicians.

As in previous years, all prisoners admitted to our gaols have been examined for venereal disease. The percentage of syphilis in gaol population was 4.5% for the year; this is to be compared with 16% in 1920 when the work was instituted. There is reason to believe that this reduction in the incidence of syphilis is paralleled in the general population of the Province.

In December the Edmonton Clinic was moved into new quarters on the ground floor of the Provincial Building, 10048 101A Avenue, and this is now one of the finest clinics of its kind. The services of two social service workers is urgently needed, and it is hoped that such will be made available at the beginning of the new financial year.

A survey of venereal diseases in the Province was made as of August 25th, 1939. All Provincial institutions and most of the doctors in the Province reported the number of patients under treatment on that date, and we find that there was a grand total of 1,453 patients with syphilis and 898 patients with gonorrhoea. These totals may be taken as representing the number of citizens of the Province known to be venereally infected.

Some very interesting observations have developed from the survey. There are still those who believe that segregated houses of prostitution, unofficially under the observation of the police, is the most satisfactory solution of the problem of prostitution. With this view we strongly disagree. The prostitute who walks the streets in search of her customers can deal with, at the most, three in an evening; the woman in a recognized "house" can deal with about thirty, thus the woman in a "house" has ten times as many opportunities of becoming infected, and if she becomes diseased she will infect ten times as many persons as her sister of the street. The cities of Calgary and Edmonton offer an excellent example of this. The two cities are about equal in population; in Edmonton there are no recognized houses of prostitution permitted by the police; in Calgary there is a certain well known area of segregated houses. The total number of venereally infected persons in these cities on August 25th, 1939, was as follows:

City.	Syphilis.	Gonorrhoea.	Total.
Edmonton	339	210	549
Calgary	569	448	1.017

Lethbridge has the highest venereal disease rate in the Province. A segregated area in which are several recognized houses of prostitution exists almost in the centre of the city and is, of course, known to the police. The operation of such houses is contrary to the Criminal Code of Canada.

It is customary to show the incidence of disease as the rate per thousand of population. For the Province as a whole and for the four leading cities the rates as shown by the survey on August 25th, 1939, were as follows:

	Syphilis.	Gonorrhoea.	Total.
ALBERTA	1.8	1.24	3.04
Edmonton	3.95	2.45	6.4
Calgary	6.8	5.3	12.1
Lethbridge	10.13	3.25	13.38
Medicine Hat	0.9	2.2	3.1

A Provincial Conference, under the chairmanship of Dr. W. W. Cross, was held in Edmonton on October 2nd, 1939, at which representatives from all our clinics, from the Department of Pensions and National Health, Ottawa, Dr. M. R. Bow, and four official representatives of the Department of Militia and National Defence were present. The purpose of the meeting was to discuss the question of venereal disease prevention and treatment services of the Province of Alberta in their application to the military and civilian population during the war. During the course of the meeting the two fundamental principles of venereal disease control were stressed: (1) the search for sources of infection, (2) the cure of the infected. We offered to co-operate to the utmost, and the use of our clinics as early treatment centres was offered to the military authorities and accepted. The following resolution was passed unanimously:

"Whereas the prevention and control of venereal diseases is a public health problem of vital importance both from the civilian and military point of view, and

"Whereas, wherever houses of prostitution exist the incidence of venereal disease shows a very decided increase in the community as compared with other communities in which such houses of prostitution are prohibited, and

"Whereas it is imperative that the health and physical fitness of our soldiers and civilians be safeguarded in every possible way,

"Therefore be it resolved, that local municipal authorities be urged to take such steps as will prohibit the operation of any house of prostitution within the precincts of their jurisdictions and to take such measures as have been found effective in the prevention of soliciting on the streets, in the public dance halls or other places of assembly, and to adopt and carry out all necessary measures to stamp out prostitution from the community."

At the invitation of the Canadian Medical Association, your Director read a paper at the annual meeting in Montreal on "The Chemotherapy of Acquired Syphilis."

We appreciate very much the valuable assistance we have had from the Royal Canadian Mounted Police, the local police in the cities, the local medical officers of health and the Public Health nurses. They have assisted very materially in carrying on the work of the division.

The following figures indicate the work done in the various clinics during the year. The data obtained from the venereal disease survey on August 25th, is appended:

PROVINCIAL CLINIC, Provincial Building, 10048 101A Ave., Edmonton

CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENT

	0-12	Male 12-20	es ) Over	0-12	emal -12-2	es 0 Over	r
			20 yrs.				s. Totals
Carried forward from 1938: Syphilis Gonorrhoea	2	1	95 74	1	1 8	48 37	148 119
New cases admitted in 1939: Syphilis		1	69	1	3	25	267 99
Gonorrhoea Non-Venereal		24 13	283 160	1 4	26 67	50 115	384 359
Total cases treated	2	39	681	7	105	275	1109
	Ma	ales	-722	Fem	ales-	-387	

Number and results of Wassermann tests: 2,155 tests, of which 562 were positive. Number and results of Cerebrospinal Fluid Tests: 93 tests, of which 15 were positive.

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

CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENT

			Over	0-12		0 over	
	yrs.	yrs.	20 yrs.	yrs.	yrs.	20 yrs.	Totals
Carried forward from 1938: Syphilis Gonorrhoea		3	101 96	$\frac{1}{2}$	$^{2}_{6}$	52 22	156 129
New cases admitted in 1939: Syphilis Gonorrhoea Non-Venereal	3	1 10 13	76 255 233	4 10	5 19 30	33 78 203	285 115 366 492
Total cases treated	3	27	761	17	62	388	1258
	M	ales—	-791	Fem	ales	467	

Number and results of Wassermann Tests: 1,969 tests, of which 348 were positive. Number and results of Cerebrospinal Fluid Tests: 65 tests, of which 13 were positive.

### PROVINCIAL CLINIC, c/o Galt Hospital, Lethbridge

### CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENT

		Male	28	F	emal	es	
Constant former 1000	0-12 yrs.		Over 20 yrs.			0 Over 20 yrs	. Totals
Carried forward from 1938: Syphilis Gonorrhoea	1		39 5		1	9	50 5
New cases admitted in 1939:							55
Syphilis Gonorrhoea			16 23	1	1	5 1	23 24
Chancroid Non-Venereal		****	$\frac{1}{28}$		ï	1	$\begin{array}{c}1\\30\end{array}$
Total cases treated	1		112	1	3	16	133
	M	ales-	-113	Fen	nales	-20	

Number and results of Wassermann tests: 226 tests, of which 48 were positive. Number and results of Cerebrospinal Fluid Tests: 14 tests, of which none were positive.

### PROVINCIAL CLINIC, c/o General Hospital, Medicine Hat

CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENT

			Over	0-12-		Over	Tetale
Carried forward from 1938:	yrs.	yrs.	20 yrs.	yrs.	yrs.	20 yrs.	Totals
Syphilis	1		5	1		2	9
Gonorrhoea			3				3
							11
New cases admitted in 1939:							**
Syphilis			3				3
Gonorrhoea			15			1	16
Non-Venereal	1			1			2
Total cases treated	2		25	2		3	32
	M	lales	-27	Fen	ales-	5	

Number and results of Wassermann Tests: 95 tests, of which 42 were positive. Number and results of Cerebrospinal Fluid Tests: Nil.

### PROVINCIAL GAOL, Fort Saskatchewan

CLASSIFICATION OF DISEASES WITH NUMBERS, SEX AND AGE OF PATIENT

	0-12	Male 12-20	es Over	emale -12-20	es Over	
			20 yrs.			Totals
Carried forward from 1938: Syphilis			3	 	2	5
Gonorrhoea			2		2	4 9
New cases admitted in 1939: Syphilis		1	35	1	28	65
Gonorrhoea			19	6	24	49
Total cases treated		1	59	 7	56	123
Total number of admissions examined:F	emale Iales	es			$\begin{array}{c} 187 \\ 1064 \end{array}$	
Total					1251	

Number and results of Wassermann Tests: 1,288 tests, of which 119 were positive. Number and results of Cerebrospinal Fluid Tests: 10 tests, of which none were positive.

### PROVINCIAL GAOL, Lethbridge

CLASSIFICATION OF DISEASES WITH	NUMBERS, SEX	AND AGE OF	PATIENT
	Syphilis.	Gonorrhoea.	Totals.
All patients are Males over 20 years of age: Carried forward for 1938 New cases in 1939		3 26	10 39
Total cases treated	20	29	49

Number and results of Wassermann Tests: 433 tests, of which 63 were positive. Number and results of Cerebrospinal Fluid Tests: 3 tests, of which none were positive.

### RECAPITULATION

### OF PATIENTS TREATED BY THE STAFF OF THE DIVISION OF SOCIAL HYGIENE IN 1939

Sex:	Syphilis.	Gonorrhoea.	Chancroid.	Non-Venereal.	Totals.
Male Female	009	840 287	1	451 432	1762 942
Totals	693	1127	1	883	2704

Total number of cases of venereal disease-1,821.

### DEPARTMENT OF PUBLIC HEALTH

### TOTAL NUMBER OF CASES OF VENEREAL DISEASE IN ALBERTA BY LOCALITIES AS PER SPECIAL SURVEY—AUGUST 25th, 1939

Place.	Syphilis.	Gonorr	. Totals.	a mention of the second s		. Gonorr.	Total
Acme	1		1	Kinuso			1
Arrowwood		1	1	Lac La Biche		1	12
Athabasea	1	1	2	Lacombe	3		3
Banff		25	3	Lake Louisé		1	1
Beaverlodge		5	7	Lamont	3	1	4
Bellevue		3	12	Legal		7	8
Bentley	2	2	4	Lloydminster		1	1
Berwyn		-	i	Macleod	5	19	24
Dig Valley	1	2	3	Magrath		1	1
Big Valley	5	11				4	5
Black Diamond			16	Marwayne			2
Blairmore		1	11	Milk River			0
Bowden		5	7	Millet		1	1
Brooks	3	1	4	Mirror		1	3
Cadomin			1	Mountain Park	3	4	7
Camrose		2	7	McLennan	3	1	4
Canmore	1		1	Notikewin	5		5
Carbon			2	Olds		4	11
Cardston		5	9	Peace River			1
Cereal		3	4	Provost			3
Claresholm		6	9	Red Deer		5	12
		3	4	Redcliff	2		2
		0	1	Rocky Mtn. House	ĩ		1
Cold Lake			1		-	1	-
Coleman		14	35	Ryley			4
Consort	2		2	Sedgewick			1
Coronation		2	2	Sexsmith		****	1
Delia			2	Spirit River			3
Didsbury	1		1	Standard			1
Drumheller		8	24	Stettler	2		2
East Coulee	1	1	2	Stony Plain	1	4	5
ckville	2	25	2	St. Paul	5	7	12
Edgerton		2	2	Strathmore		2	4
Edson		-	Ã	Tomahawk		-	1
		1.14	3	Vegreville		1	4
clk Point			0				4
Elnora			1	Vermilion		****	1
Evansburg		111.1	1	Viking	1		1
Sxshaw	1		1	Wainwright	1	1000	1
airview	1		1	Westlock	1		1
fawcett	1		1	Wetaskiwin		3	4
Foremost	2	2	4	Willingdon	1		1
Fort Chipewyan	1		1	Fort Sask. Gaol	8	6	14
Fort McMurray			3	Lethbridge Gaol	9	7	16
Fort Saskatchewa			1	accurate and an			
Grimshaŵ	1		î	Edmonton	339	210	549
		3	Â		10.00	448	1017
Janna	1000 C			Calgary			
High Ridge			1	Lethbridge		44	181
ligh River		6	8	Medicine Hat	9	22	31
Holden	1 1	ania	1	Mental Institutions	159		159
Innisfail	3	1	4			-	
Jasper			3	Totals	1453	898	2351

# Sanitary Engineering Division

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

During the year 1939 the following certificates were issued in connection with Sewerage and Waterworks Construction as required by Sections 10 to 15 (inclusive) of the Public Health Act. All work approved was carried out during the year, with the exception of the work at Ponoka, which had to be postponed because the town officials were not able to get a loan under the Dominion Municipal Improvements Act of Canada, 1938, as they had expected.

- Town of Grande Prairie, Certificate No. 415-39—Construction of Sewerage and Waterworks System, also a Sewage Disposal Plant. Estimated cost, \$50,442.00.
- Town of Ponoka, Certificate No. 417-39—Construction of Sewerage and Waterworks System. Estimated cost, \$115,790.00.
- City of Edmonton, Certificate No. 419-39—Sewer services and Catch Basin Construction. Estimated cost, \$12,000.00.
- City of Edmonton, Certificate No. 420-39—Watermain replacements. Estimated cost, \$21,020.00.
- City of Edmonton, Certificate No. 421-39—Sewer Construction. Estimated cost, \$24,968.00.
- City of Drumheller, Certificate No. 424-39—Sewerage Construction. Estimated cost, \$18,380.00.
- City of Calgary, Certificate No. 425-39—Sewerage Construction. Estimated cost, \$255.10.
- Town of Vegreville, Certificate No. 427-39—Well Constructon and Watermain laying. Estimated cost, \$10,000.00.

The following Certificates of Approval were granted in connection with the construction of hospitals in various parts of the Province as required by Regulation 3a of The Hospitals Act Regulations. All work approved was completed during the year with the exception of the work at Red Deer, which is to be proceeded with during 1940.

- Stettler Municipal Hospital, Certificate No. 416-39—Hospital alterations. Estimated cost, \$2,141.30.
- Medicine Hat General Hospital, Certificate No. 418-39—Hospital alterations. Estimated cost, \$2,000.00.
- Claresholm Municipal Hospital, Certificate No. 423-39—New hospital. Estimated cost, \$28,000.00.
- Cardston Municipal Hospital, Certificate No. 426-39—Boiler room reconstruction. Estimated cost, \$2,708.00.
- Red Deer Municipal Hospital, Certifcate No. 428-39—New hospital addition. Estimated cost, \$65,000.00

The data following covers analyses of waters obtained from various municipalities in the Province which have public municipal water systems. No samples were obtained from the cities of Calgary, Red Deer, Edmonton or Lethbridge, nor from the town of High River, all of which municipalities have their own laboratories, and look after water testing themselves.

In the case of municipalities chlorinating their water supplies, all water samples were taken subsequent to chlorination. In the case of municipalities using raw untreated water, some of the samples were obtained from the source of the supply, while others were obtained directly from taps located on the distribution system. The samples themselves were obtained in some cases by members of the Division, while in other cases the samples were submitted to the Provincial Laboratory by officials of the different municipalities.

From a bacteriological standpoint, the tests themselves indicate unsatisfactory water supplies in several municipalities, particularly Taber, Claresholm, Raymond and Coleman. The town of Taber installed chlorinating equipment early in the year, but did not bring it into effective operation till the middle of the year. Better water should be available in 1940. Efforts have been made by the Division to induce the town officials of Claresholm and Coleman to chlorinate, with no results as yet. The waterworks system in the town of Raymond is in a badly run-down condition and needs reconstructing immediately. Financial difficulties have held up any work, however.

BACTERIOLOGICAL TESTS IN VARIOUS WATERS OBTAINED FROM PUBLIC OR MUNICIPAL WATERWORKS SYSTEMS

Municipality and Source of Supply.	Chlorinated	No. of	Positive (confirmed)	Negativo
		TCOLO	(comment)	regative
Athabasca—Athabasca River	Yes	2		2
Bassano—Bow River	Yes	1		1
Bellevue—Connelly Creek	No	1		1
Blairmore—York Creek	No	1	1	100 2
Brooks—Irrigation Water	No	2	1	1
Camrose-Surface Reservoir and Wells	Yes	16	1	15
Cardston-Lees Creek	No	1		1
Carmangay-Infiltration Gallery	No	ĩ		î
Claresholm-Willow Creek	No	5	1	Ã
Coleman—Nez Perce Creek	No	6	3	3
Gleichen-Wells	No	ĩ		1
Grande Prairie—Wells	No	2	100	2 .
Lacombe—Wells	No	ē		ē
Macleod—Oldman River	Yes	4	1	63
	No	9		0
Magrath—Wells Medicine Hat—South Sask. River	Yes	15		15
Pincher Creek—Pincher Creek		15		15
Pincher Creek—Pincher Creek	No	1	1	
Raymond-Surface Reservoir	Yes	4	2	2525
Redcliffe-South Sask. River	No	5	1000	5
Stettler-Wells	No	2		2
Taber—Oldman River	Yes	9	4	5
Turner Valley—Highwood River	Yes	8	1	7
Turner Valley-Sheep Creek	Yes	10		10
Vegreville—Wells	No	1		1
Wetaskiwin-Wells	No	17		17

None of the cases of Typhoid or Paratyphoid reported to the Department of Health during the year were attributable to contaminated public water, ice or milk supplies.

During the year the reports of 791 water analyses and 100 milk analyses reached the Division. In the case of polluted waters, efforts were made to instruct the persons interested in the procedure they should follow, in order to make the water safe once more. Advice as to the installation of water supplies, the installation of filters and water softeners and the sterilization of water was provided on request.

The Division received 128 complaints and requests from different municipalities throughout the Province with respect to sanitary matters, all of which were investigated.

Printed literature dealing with such subjects as water supply, sewage disposal, milk sanitation, ventilation, disinfection and disinfestation was sent out in large quantities, particularly to teachers and Grade IX pupils, in connection with their public health studies.

During the year the following plumbing fixtures were installed throughout the Province under the inspection of either the local or the Provincial Board of Health: Water closets 1,766, baths 1,040, lavatory basins 1,560, laundry tubs 42, sinks 1,187; special fix-tures 419.

The installation of the above water closets had the effect of removing 283 outside toilets, a very desirable feature. Total fees paid for plumbing inspection throughout the Province amounted to \$3,741.6, of which \$1,241.0 was paid for Provincial inspection and the remainder for local inspection.

In the field of sewerage construction, the only municipality in the Province providing itself with a new sewerage system was the town of Grande Prairie. Such construction was very desirable, and has done much to clean up a number of dirty privies located throughout the town. It is to be hoped that more municipalities will be able to follow Grande Prairie's example as soon as possible, especially in those towns where the desire to build septic tanks is common. Septic tanks never give the service a good sewerage system does, and the construction of many of them in a town often has the effect of delaying the laying of a sewerage system.

# Dental Hygiene Division

(HERBERT ROSS, D.D.S.)

A full time dental service is provided by the Provincial Mental Hospital at Ponoka, and includes the Provincial Auxiliary Hospitals at Claresholm and Raymond. A full report of this service for the year will be found in the report of the Mental Hospital.

The Provincial Dentist provides service for the following institutions: Provincial Mental Institute, Oliver, Provincial Training School, Red Deer, and the Sanatoria, including Central Sanatorium, Calgary, and the tuberculosis wards in the General Hospital, Royal Alexandra Hospital and the University Hospital, all of Edmonton. The work done is fully reported in the annual report of these institutions.

As in previous years the Provincial Dentist was a member of the staff of the Travelling Clinic. The report for the year is as follows:

Number	of children examined		4.097
	recommended for treatment		1,709
	of children given treatment		1,204
	of fillings (number of teeth		
Number	of extractions (number of t	leeth);	 1,998

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

# Mental Health Division

Separate reports are submitted for each Branch of this Division: Eugenics Board,

Mental Hygiene (Guidance) Clinics,

Provincial Mental Hospital, including Provincial Auxiliary Hospital at Claresholm, and Provincial Auxiliary Hospital, Raymond,

Provincial Mental Institute,

Provincial Training School.

The institutional population again shows an increase over the previous year. On January 1st there were 2,646 patients—1,681 males and 965 females—at all institutions, and at the close of the year there were 2,744—1,761 males and 983 females—being an increase of 98 patients—80 males and 18 females.

From the time the first mental hospital was opened in 1911 there has been a steady increase in population of from 4% to 8%annually over the preceding year, which means on an average a progressive absolute increase in numbers each year. The increase in 1939 was 3.7%, the first time it has been below 4%.

During the same period the ratio of hospitalized mental patients to population has shown a steady increase from 156 per 100,000 in 1921 to 348 in 1939. It may again be pointed out that while this is serious, it need not cause undue alarm, as Alberta still stands one of the lowest of the provinces in this respect. A continued increase may, therefore, be expected.

Admission rates as well as resident rates have risen in recent years. This rise is due in part to the greater number of early, mild and temporary cases seeking such assistance as the mental hospitals are able to provide, as shown by the rising proportion of voluntary admissions; and in part to the greater number of mental defectives who are being forced into the institutions for one reason or another. Largely on account of this last group, the acceleration in discharges is not keeping pace with the acceleration in admissions.

At the Provincial Mental Hospital at Ponoka there were 614 admissions, 541 discharges, and 82 deaths, being a decrease in the population of 9 patients. Notwithstanding the temporary decrease this year, there is an annual increase of approximately 125 patients.

The decrease noted above is largely accounted for by the fact that 110 female patients were transferred to the Provincial Auxiliary Hospital, opened early in the year at Raymond. In addition, 20 male patients were transferred to the Mental Institute at Oliver.

Notwithstanding new accommodation for 250 male patients at Oliver in 1938 and the new Auxiliary Hospital this year for 125 female patients, there is still serious congestion at both the Provincial Mental Hospital and the Provincial Training School. These conditions are elaborated in the respective reports of these institutions.

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

Reports will be found, under their respective headings, of Mentai Hygiene Clinics and Eugenics Board.

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

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

		A	-INST	ITUTIO	NS-	MOV	EME	T	OF F	ATIE	NTS				
		n Bo an. 1		Ad	missi 1939		Dis	chai 193		E	eatl			ec. 3	oks 1/39
	M.	F.	Т.	Μ.	F.	Т.	M.	F.	Т.	M.	F.	Τ.	M.	F.	T.
Oliver Ponoka Red Deer Claresholm Raymond	769 801 111	765 103 97	769 1566 214 97	56 362 8	252 3 18 116	$56 \\ 614 \\ 11 \\ 18 \\ 116$	23 242 6	299 2 14 11	23 541 8 14 11	33 41 1	41 1 2 1	33 82 2 2 1	769 880 112	677 103 99 104	769 1557 215 99 104
Totals	1681		2646	426	389	815	271	326	597	75	45	120	1761	983	2744

### ADMISSIONS-BROAD DIAGNOSTIC DIVISION

	Ps	ycho	tic		Non-			Ment	tal ives	- 1	Tota	ls
	M.	F.	T.	M.	F.	Τ.	M.	F.	T.	M.	F.	T.
Oliver	41		41	13		13	2		2	56		56
Ponoka	282	199	481	52	25	77	28	28	56			614
Red Deer Claresholm		18	18				8	3	11	8	3 18	11 18
Raymond		103	103					13	13			116
		-	-	-	-	-	-	-	-			
Totals	323	320	643	65	25	90	38	44	82	426	389	815

### B .-- CLINIC SUMMARY

		1938			193	39	Total – New cases
	Clinics	New Cases	Follow- ups	Clinics	New cases	Follow- ups	since 1929
Edmonton	41	57	136	42	85	332	1049
Calgary	20	79	740	20	78	800	1000
Lethbridge	11	49	64	10	43	57	552
Medicine Hat	4	54	42	4	81	27	445
Daumhallar	4	21	20	4	17	31	107
Ulah Dinon	Ê	16	11	5	25	13	64
Lamont	1	10		4	34	1	44
Red Deer				Â	31	6	31
Other Clinics	10	120	19	2	9	8	459
	-			-			
Totals	97	406	632	95	403	1275	3751

# The Eugenics Board for the Province of Alberta

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

The Eugenics Board carried on its work regularly during 1939. The Board met six times: on March 2nd, April 26th, October 12th and 13th, and December 18th at the Provincial Mental Hospital, Ponoka; on April 27th at the Provincial Training School, Red Deer; and on April 28th at the Provincial Mental Institute, Edmonton. All of the Board members were present at each meeting.

The Board dealt with and passed 178 cases at its meetings in 1939, made up of 104 males cases and 74 female cases. This brings the total number of cases passed to 1,461, made up of 748 males and 713 females. Forty-seven operations were performed under the Board's direction during the year, or 18 male and 29 female cases. The total number of cases operated on to the end of 1939 is 690, made up of 263 male and 427 female cases. The operations were performed by either Dr. L. C. Conn or Dr. Robert O'Callaghan, surgical consultants to the Mental Hospital service, assisted by the medical, nursing and attendant staffs of the Provincial Mental Hospital, and the Provincial Mental Institute. Six male cases were operated on at the Provincial Mental Institute during the year. All of the operative cases during the year were handled in the usual efficient manner, which the Board commends.

The Board feels that the follow-up and investigational end of its work is still too limited. This becomes more apparent as the number of cases dealt with increases. It is possible to do a small amount of this work through the Guidance Clinic social workers, but the services of a full time worker for Eugenics Board work alone could be used very advantageously. This would necessarily entail an appropriation for travelling expenses as well as for salary. The Board commends, however, the appointment of an additional social worker in the summer of 1939, with headquarters in Edmonton and attached to the clinic there.

The Board wishes to express its appreciation and approval of the competent way in which cases have been prepared for its consideration, and wishes to record its thanks to all of those who have had to do with these cases. It may be noted that during the year some twenty cases were brought before the Board through the Guidance Clinics in the Province.

The Eugenics Board members acted as a Visiting Board in December, 1939, at the request of Dr. W. W. Cross, Minister of Health. The Provincial Mental Institute, Edmonton, the Provincial Mental Hospital, Ponoka, the Provincial Training School, Red Deer, the Provincial Auxiliary Hospitals at Claresholm and Raymond, and the Central Alberta Sanatorium, Robertson, were visited and inspected. A full report covering the Board's findings was prepared and forwarded to the Minister of Health. There is appended a summary of the work of the Board to the end of 1939, in table form.

CASES PRESENTED AND PASSED TO DECEMBER 31st, 1939

		Y	early Tota	als	and the second second	Cumulative Tota	ıls
		Male	Female	Totals	Male	Female	Totals
1929		1	3	4	1	3	4
1930 1931		6 25	36 63	42 88	32	102	134
1932		20	43	63	52	145	197
1933 1934	*****	35 132	56 82	91 214	87 219	201 283	288 502
1935		123	97	220	342	380	722
1936 1937		103	88 87	191 202	445	408 555	1115
1938		84	84	168	644	639	1283
1939		104	74	178	748	713	1461

### **OPERATIONS ONLY TO DECEMBER 31st. 1939**

	3	early Tota	als		Cumulative Tota	ls
	Male	Female	Totals	Male	Female	Totals
1929	1	2	3	1	2	3
1930	6	30	36	7	32	39
1931	13	51	64	20	83	103
1932	15	34	49	35	117	152
1933	 13	41	54	48	158	206
1934	46	59	105	94	217	311
1935	33	54	87	127	268	398
1936	35	42	77	162	313	475
1937	57	48	105	219	361	580
1938	26	37	63	245	398	643
1939	 18	29	47	263	427	690

# Guidance Clinics

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

The work of the Mental Hygiene Division was carried on regularly during 1939. One new clinic centre was established at Red Deer, in connection with the Full-time Health Unit there. The clinics already in existence were continued, with the exception of the one established at Vermilion late in 1938. The initial clinic in 1938 was a very successful one, and seemed to indicate that the clinic services could be of real value to the community. However, certain difficulties arose which seemed to be caused chiefly by the attitude taken by the Town School Board, and the clinics arranged at Vermilion in the first half of 1939 were very poorly patronized. Because of the small number of cases which attended these clinics, it was decided to discontinue Vermilion as a clinic centre. The clinic at Red Deer has proved to be an active one, and full clinic schedules have been maintained. Also the clinic at Lamont, established late in 1938, has continued active during 1939.

It has been the practice for some six years to hold an annual series of clinics through the Peace River-Grande Prairie area. The annual series has been held in the fall of the year in each case. A series was planned for the latter helf of September, 1939, and arrangements were practically completed by late in August. Following the declaration of war, and additional demands which were made immediately after this on the Provincial Mental Hospital staff, it was considered advisable to cancel the trip into the northern district. It is hoped to hold a series of clinics again in 1940.

Since their inception, our clinics have been known as Mental Health or Mental Hygiene Clinics. These names have not been entirely satisfactory, because of the tendency on the part of many people to associate the term "mental" with mental disease and mental hospital. In an attempt to overcome this tendency, the name Guidance Clinic has been adopted. This does not mean that there has been any change in the real function of the clinic, which remains as before. Several changes occurred in the personnel of the Mental Hygiene Division during 1939, and one addition to the staff was made. Miss Ruth Hughes, who was stationed in Calgary, resigned during the summer, and her place has been taken by Miss Isabel Munroe. Miss Munroe is a graduate of the University of Alberta, and has had additional training in social work in the east. We are sorry to lose the services of Miss Hughes, who had proved to be a very efficient worker. She resigned to be married. A resident worker was added to the Edmonton Clinic in the summer of 1939 in the person of Miss E. Mary Frost. Miss Frost is a graduate of the University of Alberta, and has had considerable experience in group work activity. Both Miss Munroe and Miss Frost have done very good work since their appointment.

Dr. W. J. McAlister, Superintendent of the Provincial Mental Institute, who has been in active charge of the Edmonton Clinic for some years, discontinued his attendance at the clinics themselves in the fall of 1939. The actual clinic work has been taken over by Dr.

W. L. Valens, Assistant Superintendent of the Provincial Mental Institute, who has carried on very efficiently. Dr. McAlister retains an active interest in the clinic work. The majority of the clinics in the Province outside of Edmonton have been in charge of either Dr. R. R. MacLean, Director of Clinics and Superintendent of the Provincial Mental Hospital, or Dr. T. C. Michie, Assistant Superintendent of the Provincial Mental Hospital. Occasional clinics have been taken by other members of the Provincial Mental Hospital staff, or by Dr. W. L. Valens of the Provincial Mental Institute. Dr. D. L. McCullough, Superintendent of the Provincial Training School, has taken an active part and interest in the clinic work at Red Deer. His assistance has been very much appreciated. It is my opinion, as stated in previous annual reports, that the clinic work might well be under the direct charge of an especially appointed physician. The work of the clinics is increasing steadily, and it would add to its efficiency if one physician were able to give it his entire time, or at least consider it his major duty. At times it is difficult for a member of the Provincial Mental Hospital staff to leave his duties there in order to attend the clinics. The clinic work is considered important, however, and every effort is made to hold the clinics as scheduled. It would seem necessary to make some change in the present arrangements before much more clinic expansion may be made. There are still many districts in the Province which are not served under our present clinic set-up.

The clinic follow-up work has increased very markedly in the centres of Edmonton and Calgary, where there are resident social workers. The follow-up work outside of these centres is at minimum still. Additional follow-up and investigational work is especially desirable in connection with Eugenics Board cases, many of which are handled through the clinics. Before much more of this work can be done additional funds will have to be available to cover the necessary travelling and personnel expenses.

Attention should be called to the fact that despite the cancellation of the clinics throughout the Grande Prairie and Peace River districts, the number of new cases dealt with during the year, namely 403, is only 3 less than the number of new cases seen during 1938. In 1938 over 100 cases were examined in the Peace River area. The large increase in the number of follow-ups in connection with the Edmonton and Calgary clinics is also worthy of note. In 1938 the number of follow-ups and interviews in Edmonton was 136. In 1939 it was 332. The number in Calgary in 1938 was 340, and in 1939 it was 800. A larger increase in the number of follow-ups may be expected in Edmonton in 1940, as the resident social worker there was only appointed in the late summer of 1939. The total number of clinics held in 1939 was 95, as against 97 held in 1938. Since the inception of the clinic work in the fall of 1929, and up to the end of this year, 3,751 cases have been seen and examined.

Comments on the work of the various clinic centres follows below. It may be noted that while regular clinics are not held at the Provincial Mental Hospital, Ponoka, cases are seen there by appointment. Seven were examined in 1939. The tables which follow the comments are largely self-explanatory. Notes have been appended where these seemed necessary.

### Edmonton.

Forty-two clinics were held in Edmonton during the year, and 85 new cases were examined. This is a considerable increase over the number of new cases seen in 1938, namely 51. The total clinic case load shows an increase of from 193 in 1938 to 417 in 1939. During the year the clinics were held at the Baby Clinic quarters at 10182 100th Street. For the first seven months of the year Miss Chisholm, of the City Health Department, assisted regularly at the clinics, and her help was very much appreciated. Miss Chisholm resigned from her position in the City Health Department at about the time Miss Frost, the present resident social workers, was appointed. Miss Frost has taken over the work previously done by Miss Chisholm. Miss Emerson, Public Health nurse in charge of the Baby Clinic, and Miss Christiansen, Baby Clinic nurse, of the City Health staff, continued their usual helpful co-operation throughout the year.

Dr. W. J. McAlister, Superintendent of the Provincial Mental Institute, was in active charge of most of the clinics for the year. Dr. W. L. Valens, as already mentioned, took over the active clinic work in the fall of the year.

### Calgary.

A very successful year is again reported in the Calgary Clinic. As in 1938, 20 clinics were held during the year; 78 new cases were examined, 1 less than the number of new cases seen in 1938. However, there has been a very marked increase in the number of follow-ups and return visits to the clinics. In many instances these additional contacts are just as important as the initial clinic examination. It is unlikely that there will be any marked increase in the number of new cases examined unless additional clinic time is made available. The clinic is held once every two weeks. The quarters are in the City Hall, and are the same as those used for the past several years. We wish again to thank the City of Calgary health officials for their kindness in providing permanent office accommodation for the resident social worker, Miss Munroe, and for the accommodation available for the clinics themselves. Miss Lavell, Public Health nurse, and Miss Craig and Miss Smith, of the Baby Clinic service, have been most considerate and helpful in the carrying on of our work. During the year Dr. R. R. MacLean was in charge of 6 clinics, Dr. T. C. Michie and Dr. M. Carnat of 5 each, Dr. A. D. MacPherson of 3, and Dr. R. C. Hamilton of 1. It may be of interest to note that during the year 108 interviews were held with or about Provincial Mental Hospital patients or ex-patients. This in itself indicates a considerable extension of the Provincial Mental Hospital services made possible through the clinics.

### Lethbridge.

Ten clinics were held in Lethbridge during 1939, one less than the number held in 1938; 43 new cases were examined, as against 49 in 1938. The clinic continued to be held in the Nursing Mission every fourth Friday. Miss Tilley, who is in charge of the Mission, assisted very materially, as she has in previous years. Miss Tilley's help and interest in clinic work is very much valued. Dr. R. R. MacLean, Dr. T. C. Michie and Dr. M. Carnat were each in charge of three of the clinics held and Dr. R. C. Hamilton of one.

### Medicine Hat.

Four 2-day clinics were held in Medicine Hat during the year. Of these Dr. R. R. MacLean was in charge of 2, Dr. T. C. Michie of 1, and Dr. A. D. MacPherson of 1. The number of new cases seen was 81 as compared with 54 for 1938. Part of the increase in the numbers of new cases seen is due to some additional school cases being examined. The number of follow-ups and interviews for 1939 shows some decrease as compared with the number in 1938. The total case load for the year is 108 as against 96 for 1938. The general clinic procedure continues the same. The first day of each of the 2-day visits is spent in the General Hospital examining cases referred by the resident physicians and others. The second day of each trip is spent in the schools examining cases referred by the school authorities. Miss M. E. Hagerman, Public Health nurse, has given very valuable assistance in arranging for clinics, looking after appointments and assisting in the examination of patients seen at the hospital. The clinic staff very much appreciates the kindness of the hospital authorities and of Miss Pederson, Superintendent of Nurses, in providing accommodation at the hospital for the examination of cases. The kindness and co-operation of all the resident physicians in Medicine, and of Mr. P. L. F. Riches, Superintendent of Schools, is valued very highly.

### Drumheller.

The Drumheller Clinic was held regularly during the year, approximately once every three months. As in 1938, four clinics were held. While 4 fewer new cases were seen in 1939 than in 1938, the total clinic case load shows an increase of 7 for the year. The clinics are held in the offices of Miss Ethel Jones, Public Health nurse. The clinic is greatly indebted to Miss Jones for the very able assistance she has given in arranging for the clinic appointments and assisting with the clinics themselves. In such centres as Drumheller, where it is not possible to do much contact work between the clinics, these would lose a great deal of their effectiveness were it not for the assistance given by the Public Health nurses. During the year Dr. A. D. MacPherson was in charge of 2, Dr. T. C. Michie of 1, and Dr. M. Carnat of 1 of the clinics.

### High River, Lamont, and Red Deer.

Clinics are now established in connection with the Health Unit work at each of the above centres. In each case the clinics themselves are held in the Health Unit quarters, and the clinic arrangements and appointments are under the direct supervision of the Medical Health Officer in the respective units. Dr. A. Somerville of the High River Unit, Dr. H. Siemens of the Lamont Unit, and Dr. C. L. Pearson of the Red Deer Unit have each given invaluable assistance. Without the assistance of these physicians, and of their respective staffs, it would be very difficult indeed to carry on an effective clinic program. In 1939, 5 clinics were held at High River, 4 at Lamont, and 4 at Red Deer. Twenty-five new cases were examined at High River, 34 at Lamont, and 31 at Red Deer. The clinics are held once every two or three months at each centre. Of the clinics held at High River, Dr. R. R. MacLean was in charge of 2, Dr. M. Carnat of 2, and Dr. T. C. Michie of 1. Of those held at Lamont, Dr. R. R. MacLean, Dr. T. C. Michie, Dr. W. J. McAlister and Dr. W. L. Valens were in charge of 1 clinic each. Of the clinics held at Red Deer, Dr. R. R. MacLean was in charge of 3 and

Dr. T. C. Michie of 1. At the first clinic held in Red Deer, Dr. T. Michie and Dr. D. L. McCullough assisted Dr. MacLean. Dr. D. L. McCullough assisted at the other clinics, in so far as his other duties allowed him to do so.

During 1939 some effort was made to have a staff of three members present for the clinics. In practice it has been found that the three member staff is somewhat more efficient than the two member staff. More work can be covered, additional time can be given to these cases which have extra time spent on them, and most of the time one of the three clinic members may be free to meet those coming in for clinic consultations and examinations. The three member clinic staff tends to increase slightly the running expenses of the clinic, but it is felt that this additional cost is more than offset by an improvement in the service offered. The three members usually present are the physician in charge, the senior social worker, who acts as psychologist, and one of the other social workers.

Some of the major problems noted in previous reports are still present. One is the lack of suitable accommodation for the training of mentally retarded children. In this regard, it is very encouraging to note that an additional building was erected at the Red Deer Training School during the year, and that some additional accommodation for boys is likely to be available in connection with the farm recently acquired. The general situation, however, is still far from being adequately solved. It is still necessary to institutionalize many of the older defectives at the Provincial Mental Hospital or the Provincial Mental Institute.

Another group largely uncared for is that of the somewhat retarded but not mentally deficient delinquent type of case. In most cases the 'teen-age boys and girls who fall into this group must be dealt with through the jails or through placement in selected homes. Much more efficient preventive care and training could be given in disciplinary institutions, set up to cope with this particular problem. Such institutions should be under the direction or supervision of the Government.

A definite phase of the clinic activities is the treatment of epileptics. In 1939, 27 new cases which were diagnosed as epileptic were seen. In many instances admission to a mental hospital of such cases is avoided by members of the clinic staff prescribing drugs for the patients. In cases where the patient or relatives are unable to pay for the particular drug prescribed, the Provincial Mental Hospital or the Provincial Mental Institute have undertaken to provide the drug, feeling that the cost of the drug is insignificant as compared to hospitalization charges which would be incurred, undoubtedly, were medicine not provided. From 25 to 30 patients were provided with prescribed drugs for epilepsy during 1939, and the cases were supervised through the clinic services.

The whole clinic programme costs approximately \$10,000 a year, which is, roughly, the cost of hospitalizing 30 cases at a mental institution for that time. Thus the actual cost of the clinics is largely offset by the service given to this one small group. Each year, too, other cases are examined and advised so that hospitalization is not necessary. In a further group early hospitalization is arranged for so that a shorter stay in hospital is necessary, and hospital charges cut down in this way. With further increases in personnel, further savings in hospital charges along the lines indicated above could be made.

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

		19	938				1939		
Place	No. of Clinics	New Cases	Follow-ups Interviews	Case Load 1 Total C	No. of Clinics	New Cases	Follow-ups Interviews	Total Case Load	New Cases Since 1929
Edmonton	41	57	136	193	42	85	332	417	1049
Calgary	20	61	340	419	20	78	800	878	1000
Mediates Urt	11	49	64	113	10	43	57	100	552
Development at the province of	4.	54	42	96	4	81	27	108	445
Diumener	4	21	20	41	4	17	31	48	107
Tamont	9.	16	11	27	5	25	13	38	64
Pad Daw	1	10		10	4	34	1	32	44
Other Olivia		11.11 P	and the second	THE PARTY	4	31	9	37	31
	10	120	19	139	61	6	80	17	459
Total	15			1	1	1			
AUGI	31	400	632	1038	95	403	1275	1678	3751

NOTE: The follow-ups and interviews given include clinic interviews on provincial mental institution cases. The clinics held in Medicine Hat were two day clinics in each case.

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TABLE 2
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		des	E											4.5		
		enta	í.	5.5	18.5	28.0	20.0	5.5	6.5	5.5	4.0	1.0	1.5	20.0	0.0	100%
		Perc	M.	5.4	23.1	28.6	13.8	3.4	5.9	3.0	4.9	3.0	3.0	4.0	0.0	
			.H	22	84	14	68	18	22	17	18	8	6,	10	4	403
		Totals		11												200 4
		Ĕ	M.	11												203 2
		29														
	6	linic	T	80	30	38	23	4	4	0	~	-	N3 +			116
	190	her C	E.										-			51
	CASES.	Oth	M.	63	19	23	12	-	01	I	ea.	-1.		-	1	65
	-	Hat	÷	01	29	24	-	-	2	~	~	-		0-	• 1	81
	CLINIC	icine	E.	1	10	10	2		-	~	64		1*		1	30
	~	Med	M.	1									1	-	1	51
	NEW	e														
	OF 1	ridg	E .	~	64									-		43
1	NO	ethb	H .	64	-								10			20
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	IFIC.	N.	E.	4	12	28	II	040	00	N					1	18
	ASS	alga	E.		<b>"</b>	10	14			N					1	51
	CL	U	M.	000								4.			1	27
	SEX	_														
	QN	nton		100												
	EA	dmo														48
	AGE	M		40												37
			Age Group	0- 4 5- 0	-0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	15-10	er- uc	00-20	P6-06	06-00	40-44 40-44	45-49	50	Unknown		Totals

### DEPARTMENT OF PUBLIC HEALTH

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# CLASSIFICATION OF NEW CLINIC CASES ACCORDING TO INTELLIGENCE QUOTIENT

# INTELLIGENCE QUOTIENTS OF 75 AND LESS

	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Total
I.Q. Range	M. F. T.	M. F. T.	M. F.	M. F. T.	M. F. T.	M. F. T.
25	1 2 3	1 1	1		-	5 3
	6 10 16	5 2 7	3		6	19 24 4
	10 16 26	3 10 13	00 00	10 7 17	20 13 33	46 46 92
	1 1		1	1	1	
Totals	17 28 45	9 12 21	4 3	12 7 19	53	70 73 14

NOTE: Total number of new cases in 1939 was 403. Thus of those given a definite rating, 143 cases, or approximately 35.5% of the total new cases, graded with intelligence quotients below 76. This percentage is approximately 5% higher than the correspinding percentage for last year.

# TABLE 4

MAJOR COMPLICATIONS IN NEW CLINIC CASES SHOWING MENTAL DEFICIENCY, 1939

Major Complication	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
Behaviour problems other than sex delin- quency	11	2	3	1	1	18
Sex problem Psychoneurotic reaction, Instability	7	5	1	1	1 1 4	14 2 7
Epilepsy General Retardation, no other specific problem	23	10	3	15	34	85
Physical Disability Cerebral Diplegia	3	2		1	52	11 2
Psychosis Deaf and Dumb	1				2	12
Cretinism					1	1
Totals	45	21	7	19	51	143
TABLE 5a	i					
CLASSIFICATION OF NEW CLINIC CASES, 1939	-PRE-	SCHOO	L GRO	UP (0	TO 6 3	(RS.)
Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	16 Totals
Examination and report	1 4	53	1 2	10 2	56	22 17
Epilepsy Diplegia (Spastic Cerebral)				ĩ	12	22
Other conditions	1	4			2	7
Totals	6	12	3	13	16	50
TABLE 5b						
CLASSIFICATION OF NEW CLINIC CASES, 1939-	-SCHO	OL AGI	E GROU	JP (7 1	O 18 Y	RS.)
	e		e	Medicine Hat	Other Clinics	
Nature of Case	Edmonton	2	Lethbridge	ine	CII	
	Imo	Calgary	ethb	edic	ther	Total
Behaviour problem with deficiency (I.Q	й	ő	Ĕ	M	õ	I
over 75) Mental Deficiency without other problems	7 13	11 7	1 2	11	13 24	32 57
Mental Deficiency with behaviour problems, including theft	10	1	1	1	8	21
Mental Deficiency with sex delinquency Mental Deficiency with physical defect Backward in school without deficiency (I.Q.	3 1	4		2	1	7 4
over 75) Delinquency without mental deficiency	1 3	4 14		25	17	47 17
Examination and report, no problem	5	2 6	·····	3 5	8 8	$\frac{13}{24}$
Psychosis and Psychopathic Personality	$\frac{1}{2}$	····	2	2	2	1 8
Totals	46	49	6	49	81	231

# ANNUAL REPORT, 1939

## TABLE 5c

CLASSIFICATION OF NEW CLINIC CASES, 1939-ADULT GROUP (OVER 18 YEARS)

Nature of Cas	ie	Edmonton	Calgary	Lethbridge	Medicine Ha	Other Clinics	Totals
Mental Deficiency with beha	viour problem	2	2	1	****	3	8
Mental Deficiency with sex Psychneurosis and Psychopat	delinquency	4	3	1	6	2	8 19
Psychosis (other than G.P.I.)		7	5	15	3	4	34
Arteriosclerosis, Disseminate	Sclerosis				1	1	2
Epilepsy Delinquency with Mental De		3	6	3	4	4	12
Mental Deficiency without o	ther problems	5			****	1	6
Other conditions		7	4	8	7	4	30
Totals		33	17	34	19	19	122
make m				-			
Table 5a Table 5b		46	12	6	13 49	16 81	50 231
rable ob		-10		-	45		

TABLE 6

AGENCIES REFERRING NEW CLINIC CASES, 1939

Agency	Edmonton	Calgary	Lethbridge	Medicine Ha	Other Clinics	Totals
School officials and teachers Doctors, including Medical Health Officers	4	15		51	12	82
and Clinics Provincial Child Welfare, Children's Aid, and	15	6	25	27	19	91
Juvenile Court	35	29			1	65
Police, Provincial Gaols, Courts Homes, as Mountview, Beulah, Kiwanis,		****	11	****	****	11
Y.W.C.A., and Salvation Army	5	12				17
Parents, Relatives, Friends	14	10	3	2	17	46
Relief Department Provincial Health Department other than	1					1
Child Welfare	5	3	1		5	14
Full-Time Health Units					61	61
Self	3	2	1			6
Other Agencies	4	1	2	1	1	9
Tetala	0.5	70	40	01	110	402
Totals	85	. 78	40	81	110	403

TABLE 7

MAJOR RECOMMENDATIONS MADE IN REGARD TO NEW CLINIC CASES, 1939

Major Recommendations	Edmonton	Calgary	Lethbridge	Medicine Ha	Other Clinic	Totals
Admission to Provincial Mental Hospital or		4				
Provincial Mental Institute Admission to Provincial Training School or	11	5	14	1	3	34
other similar institutions	8	4	2	2	9	25
Treatment by own doctor or other clinics	2	1	22	15	10	30
Treatment by own ucluding direct treatment for epilepsy		1	4	4	9	18
Continue home, institutional or school life	12	16	4	22	14	68
Change in home routine, care, discipline Modified school program, special class or	2	6	2	6	5	21
vocational training More social contacts, wider interests, re-	8	9		25	32	74
establishment of self-confidence	7	2	1	4	5	19
Sterilization and supervision	10	9	1	1	9	30
Return to Clinic, further examination	5	4	1		4	14
Placement under careful supervision Other recommendations, discussion with	15	4	1			20
parent or patient	5	17	11	1	16	50
						100
Totals	85	78	43	81	116	403

\* \*

# Provincial Mental Hospital, Ponoka, Alberta

# (R. R. MACLEAN, Medical Superintendent)

# The movement of patients is set forth in Table 1.

# PATIENT-POPULATION CHANGES

There were 1,555 patients-792 male, 763 female-in residence on January 1, 1939. On December 31, 1939, there were 1,557 patients-880 males, 677 females-in residence, representing a gain of two patients during the year. The almost insignificant gain in patients was more apparent than real, as during the year some 20 male patients were transferred to the Provincial Mental Institute at Oliver, and 121 female patients were transferred to Claresholm and Raymond Auxiliary Hospitals. Of the latter number some 96 were sent to the Raymond Hospital which was opened during the course of the year, having been under construction for some months prior to the date. Some 25 patients were transferred to the Claresholm Auxiliary Hospital. Some of these were sent to fill vacancies which arose when certain patients from that institution were transferred to the newly opened Raymond Auxiliary Hospital. Whereas the opening of the Raymond Institution made it possible to reduce the total female population of this institution, it did not in any way solve the most acute problem of overcrowding, that is, the problem of the refractory female cases. Patients transferred to Raymond and Claresholm were of the quiet and elderly types and the transfer served to bring about greater concentrations of refractory women on the female wards.

It is still most imperative that some steps be taken to provide accommodation for the surplus refractory wards of this institution. This overcrowding, which has been the major problem of the institution for years, has created a most difficult situation in the supervision and treatment of these cases, which has been very discouraging to members of the medical and nursing staffs.

As in recent years, all steps possible were taken to confine the admissions to the most urgent cases. The Attorney-General's Department and the Department of Health recognize the problem of overcrowding, and co-operate in keeping the admissions to a minimum.

Mental Hygiene Clinics held at numerous points throughout the Province were largely instrumental in reducing further the number of admissions to the hospital. Many cases which under ordinary circumstances would be sent to the Mental Hospitals for observation and treatment were disposed of in these clinics satisfactorily.

The need of psychopathic wards in larger centres must still be emphasized. If properly organized and supervised, such wards would prove a boon to the province and the communities in which they were located, as many cases which would require a short period of observation or treatment could be handled in such wards, thereby obviating the necessity for admission to the general mental hospitals.

# Admission of Patients

The total number of admissions for the year was 614-362 males, 252 females. The number admitted was 6 less than the previous year. First admissions totalled 466 (75.9%); re-admissions and transfers, 148 (24.1%); re-admissions, 135 (21.9%; and transfers, 13 (2.2%). First admissions by voluntary admission numbered 105 (17.1%). The balance of 361, or 82.9%, were admitted by other methods, generally by warrant of the Attorney-General. Many cases, as in former years, both psychotic and not psychotic, were treated for syphilis in its various forms. Very few cases of addiction, alcoholic or otherwise, were admitted and treated, it having been decided that treatment for the most part in such cases proves of little value.

The nationalities were as follows, according to figures and percentages: Canadian born, 298 (48.5%); natives of Great Britain or British possessions, 93 (15.1%); natives of the United States, 67 10.9%; and from other countries, 156 (25.6%).

# SEPARATIONS OF PATIENTS

During the year the separations amounted to 623-283 males, 340 females. The discharge rate exclusive of transfers, deaths and elopements was 62.3% of the total admission rate. The death rate based on the total number under treatment and observation was 3.6%. There was a considerable decrease in the actual number of deaths for the year with a corresponding decrease in death rate.

Broncho-pneumonia, tuberculosis, and various forms of heart disease were again the commonest causes of death. There were no serious epidemics during the year.

# ACCIDENTS

There were 7 fractures among the male patients and 4 among the females. There were several other major accidents, but no fatalities from them. There continues to be a great number of minor accidents, especially on the female side, largely as a result of overcrowding and the necessity for concentrating so many uncertain and impulsive patients on the wards. There were no suicides on the female side, but one male patient, while out for a walk, was killed by a train, doubtlessly a suicidal gesture.

### ELOPEMENTS

There were 16 elopements during the year, 15 of them males and one of them a female. Most of the eloped patients were returned by the staff. The number shows a decrease, and probably reflects more attention and observation on the part of the staff.

# GENERAL HEALTH

The general health of the patients and staff was again good during the year. There were no epidemics. Cod liver oil capsules were provided for the use of members of the staff, which may have contributed to their good health. Efforts continue to be made to get the patients outside each day, weather permitting, and this has doubtlessly been a factor in the maintenance of good health among them. In the latter part of the year a chest survey of all patients and members of the staff was begun to determine the incidence of tuberculosis.

# CLINICAL WORK

The admission rate continued high, but there was some falling off of admissions for a few months following the outbreak of the war. This drop in admission rate was not sustained, and may have been a coincidence only. Members of the medical staff continued to work under considerable pressure in order to keep the records complete. Insulin and metrazol treatments were given, largely under the direction of Dr. Schrag, with encouraging results. It is further shown that best results might be expected in the early cases.

Staff conferences were held four or more times a week regularly. All new admissions and patients awaiting discharge were presented at conference. Members of the staff were persistent in their campaign to have as many patients discharged as possible to prevent overcrowding. Topics of medical and general interest were discussed at the staff conferences, and references were made to articles appearing in medical and psychiatric journals.

Although no research work was carried out in the hospital, during the course of the year Dr. Schrag left to take advantage of a fellowship offered him by the National Committee for Mental Hygiene.

# MENTAL HYGIENE CLINICS

Mental Hygiene Clinics were held regularly at Edmonton, Calgary, Lethbridge, Medicine Hat, Drumheller, and a new clinic was opened at Red Deer. The clinic at Lamont was held regularly The physician attending usually went from the Oliver also. Mental Hospital. The clinics at all points in practically every instance were very well patronized by new cases and those who were seen before, and the public have shown considerable interest in the work done in these clinics. As in previous years, it has been possible to eliminate the necessity of a great many persons coming to mental hospitals by virtue of examinations and treatment through the medium of the clinics. The Medical Superintendent continues to direct the work of the clinics, but has been assisted regularly by Dr. T. C. Michie, Assistant Medical Superintendent, and by other members of the medical staff. The Peace River Clinic was cancelled because of the outbreak of the war and staff changes which resulted thereafter.

The Medical Superintendent visited the Auxiliary Hospital at Claresholm from time to time to observe the work being done there, and it was necessary to visit Raymond on occasions to consult with the contractors who were making alterations in the Raymond Agricultural School preparatory to the transferring of female patients there for continued treatment purposes.

# DENTAL CLINICS

Dr. Snedden carried on the dental work in his usual efficient manner. It was with regret that we learned that he had reached the age of superannuation and was about to retire. However, in view of the fact that his general health and the efficiency with which he discharged his duties were not impaired, the Civil Service Commissioner and the Retirement Board saw fit to grant an addition of his term of employment. Dentistry is a very important item in the routine treatment of patients, and the general health of the latter suffers where there is neglect in this respect. Patients are seen routinely on the continued treatment wards, but all new cases are examined by the dentist as soon as possible after admission.

The following is a summary of the work done by this department:

Examinations Treatments		X-rays Superior dentures (full)	111 23
Prophylaxis Extractions:		Inferior dentures (full) Superior dentures (partial)	20
17 abscessed.		Inferior dentures (partial)	2
1 General Anaesthetic Fillings	257	Repairs (Superior plates) (Inferior plates)	35 28
Cement gold facings	2	(Partial plates)	6

# X-RAY DEPARTMENT

The work of this department was carried out very efficiently by a nurse, who also acted in the capacity of dental assistant. Although no new X-ray machine was acquired during the year, there was good reason to believe it would be replaced by an up-to-date unit early in the coming year. Towards the end of the year a tuberculosis survey, including X-rays of the chests and physical examinations, was begun under the supervision of Dr. A. H. Baker of the Central Alberta Sanatorium, with the assistance of his trained staff. This tangible evidence of whole-hearted co-operation between the Sanatorium and this hospital should not be overlooked, and the assistance of Dr. Baker and his staff was very much appreciated. This survey will not be completed until 1940. The first reports and review of the cases examined would lead one to believe that there would be comparatively few cases of active tuberculosis.

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

611	44.00	Planning	-
Chests	416	Femurs	Ð
Spine	80	Knees	15
Heart and Vessels	10	Ankles	17
Blodder	1	Foot	10
Kidney	2	Skull	23
Abdomen	6	Dentals	70
Palvie	16	Town	12
Shoulder	17	Nose	2
Arme	14	Rihe	Ē
Flhour	8	Fleuroscone	ŝ
Libows	15	Parium Sarias	7
Wrists		Darium Series	4
Hands	30	Breasts	2
Fingers	7	Foetus	2
Hips	9		
		Chest Survey	463

# Hydrotherapy

The work of the Department of Hydrotherapy was carried out on the male side under Mr. Gill's supervision, and on the female side under the supervision of Miss Fleming. This branch of treatment in a mental hospital is most important, and more extensive use of it on the refractory female wards would help tremendously were facilities available.

Prolonged baths, wet packs, electric cabinets, and other forms of hydrotherapy were given daily. The results at all times were most gratifying.

Again it would seem advisable to point out that an ultra-violet ray machine could be used to great advantage were it available.

# OCCUPATIONAL THERAPY

Miss Crysler and Miss Bier together with several attendants and members of the nursing staff continued to supervise the activities of this department. Efforts are made annually to increase the number of patients attending the classes, and it is hoped that with the opening of another studio on the male side more patients who now remain on the wards, for the most part idle, will be sent to the studio in an effort to arouse their interest and improve their mental and physical health.

Student and graduate nurses attend the occupational classes and receive instruction from the occupational therapists. These classes are much enjoyed by the nurses, who feel that their training has been rounded out by this addition to the course.

Exhibits were displayed at the Edmonton and Calgary Exhibitions. Again, as in former years, much favourable comment was passed by citizens in both cities. Articles were not sold, but an effort was made to impress upon the public that the work represented one aspect of the treatment carried out in our mental hospistals. Our efforts along these lines were not without the hope for results.

The Annual Bazaar was held in the fall in conjunction with a sale of home cooking and a tea. As in former years, articles were sold so rapidly that many persons coming late were unable to obtain things. The ladies from the cottages on the grounds assisted with the tea, and their interest and co-operation is much appreciated. This function serves as a link between members of the staff and persons living on the grounds. It is instrumental in improving the esprit de corps between these groups.

The proceeds from the tea and the profits from tha sale of articles made in the studios were used to purchase books for the library, radios for the wards, and for entertainment generally of the patients.

About fifty books were added to the patients' library. The circulation of these books continues to increase. Magazines donated from the stores in town and by interested friends and relatives of the patients are distributed from the library by the Occupational Therapists.

The Hospital Canteen was well patronized by the patients and members of the staff. The profits from the sales were used exclusively to purchase comforts for the patients and radios to be installed on the wards. To date some ten or more radios have been purchased and placed on the wards and in the occupational studios. This gesture by the Occupational Department has been much appreciated by the patients, who have concrete evidence to hand in almost every part of the hospital to indicate that through their efforts life in the hospital is made more pleasant.

Mr. Frederickson was kept busy in the printing shop and book bindery. The work continues to increase, and more patients are employed annually to make it possible to complete the work of the department.

The patients were provided with as much recreation as possible. Indoor and outside games were indulged in. Bridge parties, whist drives, teas and picnics were held on several occasions throughout the year. The patients are permitted to play baseball, softball, badminton, tennis, shuffle board, and other group and individual games.

# RECREATION AND ENTERTAINMENT

Recreation and entertainment of the patients is for the most part under the supervision of the Occupational Department.

Patients' dances were held fortnightly during the winter months, the music being provided at the expense of the hospital. Members of the staff sometimes augment the orchestra and play for the dances. The hospital authorities are grateful to them for their services.

To date the talking picture machine has not been installed, but there is good reason to believe that provision will be made in the estimates of the coming year for its purchase. As has been pointed out on other occasions, it is much needed for the entertainment, enlightenment, and therapeutic value to the patients.

The Annual Sports' Day was held in June, and again the weather was very cold and unfavourable. The program was completed, however; the patients enjoyed themselves immensely, and as in previous years, hot dogs, soft drinks, peanuts and ice cream were provided by the hospital. A great deal of thanks is due the citizens of the town of Ponoka, who annually assist in the program. A healthful and sympathetic attitude has been developed over a period of years on the part of the residents in the town of Ponoka. By virtue of this and other functions in which the citizens take part, the hospital authorities are indebted to the town of Ponoka for annual invitations to our patients to attend free of charge the Ponoka Stampede. Entertainments of other descriptions are provided to the patients by the citizens of the town, for which we are also grateful to them.

The hospital rink was very well patronized again. There was a staff hockey team which played several league games, and provided entertainment for the patients and other members of the staff.

Staff dances were again held regularly each month, and were well patronized and much enjoyed by all.

The "At Home" was held as formerly. Attendance has grown, and the committee in charge must be complimented for the fine entertainment and diversified programme.

Members of the staff have been taking advantage of the excellent tennis courts on the hospital grounds. The golf course was in good condition, and many members of the staff and some patients played regularly.

# RELIGIOUS SERVICES

Religious services of all major denominations are held from time to time. Clergymen of these denominations have nominal appointments, and take the services in rotation. The fullest co-operation is given to the clergymen, and particular care is taken to see that no patient who desires an interview with his or her spiritual adviser is denied that privilege.

During the past year a choir was organized among members of the staff, who have worked in conjunction with the patients to attempt to improve the singing in the services.

# SOCIAL SERVICE

This department is directed by Mr. Kibblewhite. During the early part of the year he was assisted by Miss Ruth Hughes, who resigned to be married, and who during the term of her employment gave excellent satisfaction. It was with regret that her resignation was accepted. In the latter part of the year Miss Frost was appointed as social worker to work in conjunction with the Mental Hygiene Clinics in Edmonton, and to do social service work in that district. Miss I. M. Munroe was appointed to replace Miss Hughes and to work in the southern part of the province. The increase in the personnel of the Social Service Department has enabled that department to do more investigations, and the whole work of the department has reached a new high standard.

# SURGICAL SERVICE

In the surgical service Drs. Conn and O'Callaghan, with the assistance of Dr. A. D. MacPherson of the hospital staff, performed all operations. Dr. A. R. Schrag acted as anaesthetist in the early part of the year, but following his resignation the work was done very efficiently and satisfactorily by Dr. Evelyn Aiello, a new appointee to the medical staff. Following Dr. MacPherson's enlistment in the fall the surgical services were directed by Dr. Carnat very satisfactorily.

During the year no post-operative deaths occured. A summary of the work done is given herewith:

Operations	Male	Female	Total
Salpingectomy Salpingectomy and Appendectomy		19	19 11
Vasectomy	9		9
Partial Mastoid	1		1
Orchidectomy	3		3
Tonsillectomy Gastrostomy		1	î
Herniotomy	1	1	2
Haemorrhoidectomy			
	10	33	49

# NURSES' TRAINING SCHOOL

The seventh annual graduation exercises of the nurses and attendants were held on May 18th. The fourth class in the combined course of general and mental nursing was graduated. Eight nurses completed their course successfully, and the affiliated training schools reported favourably on our students. Two attendants received their certificates, having completed the three years' training. As years go on it seems to be more evident that the nurses taking the combined course prefer for the most part to pursue work in the field of general nursing rather than return permanently to psychiatric nursing. Notwithstanding this, without exception the nurses insist that their combined course is very much to be desired. They seem to feel that the extra year is more than compensated for in the last analysis.

The post-graduate course was given as previously, although it had been shortened to eight months. It is felt that reduction in the length of the course has been a very wise move. The postgraduate students appear to have a more sustained interest in the work since the training has been more concentrated. Nine nurses received certificates.

Besides the official nurses' training staff, other members of the nursing and medical staffs gave lectures to the students.

Eleven nurses were granted two years' Leave of Absence without pay in order to affiliate with the training schools in the general hospitals in Edmonton and Calgary.

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

Holy Cross	2
Calgary General	3
University of Alberta Hospital	2
Royal Alexandra	2
Edmonton General	2

During the year Miss C. N. Jackson was appointed Superintendent of Nurses, and took some additional training at Columbia University during the summer months. The work of the Training School, as well as the work of all other departments under her supervision, was carried out most efficiently and there has been much less change in the nursing personnel during the past year. Miss Jackson brought back to the hospital new ideas in the field of nursing and has incorporated them into the organization here.

Miss Virginia Evans continued to hold the post of Instructor of Nurses, and discharged her duties very efficiently.

The hospital was visited as in recent years, by the Committee for Inspection of Schools of Nurses. They seemed satisfied for the most part with the work done in our Training School, but made some recommendations. During the year another class-room was made available to the School of Nurses for more practical work. This was in line with the recommendation of the Nursing Committee following their previous year's inspection.

The Committee also recommended additions to the Training School staff. The Department of Health recognized that need, and the hospital was fortunate in securing the services of Miss Edith Kemp, who was transferred from the Claresholm Hospital and who had graduated in the combined course some years before and had always shown promise in the field of nursing. Her appointment has made it possible to give more supervision to the student nurses on the wards, and to keep more complete records of their abilities and deficiencies. It is felt also that there has been some improvement in the care of the patients and the general managemnt of the wards as a result of Miss Kemp's regular rounds on the wards.

# TEACHING OF MEDICAL STUDENTS

Lectures in psychiatry to the medical students are given by the Medical Superintendent of this institution, and clinics on psychiatric cases were given by the other members of the medical staff to the final year students. Owing to changes in the medical curriculum medical students were unable to come to the hospital in groups and live in and take their instruction here. The students expressed regret over being unable to come, and it seems likely that at some future date the previous arrangement might be made again.

# MEDICAL LIBRARY

Annual subscriptions to leading medical journals were renewed, and certain new volumes were added to the library, which annually increases in its value.

# VISITORS

Dr. Cross, the Minister of Health, visited the hospital on occasions and displayed a sympathetic interest in the work of the institution. The author and the staff appreciated Dr. Cross' efforts to have the Department of Public Works improve the institution from a structural standpoint, thereby making life more pleasant for the patients. His interest in the welfare of the staff was also appreciated.

Dr. Bow, the Deputy Minister of Health, visited the hospital on numerous occasions, during which he made rounds and spent considerable time obtaining first-hand knowledge of the work of the institution, and sought to obtain information which might lead to improvement generally. His visits were much appreciated by all members of the staff, who feel that he has their best interests before him at all times. Several other members of the Legislature visited the hospital throughout the year and viewed with interest the work being done.

Countless numbers of relatives and friends of patients also visited the institution during the year. They expressed for the most part general satisfaction with the work being done, and appeared to appreciate the efforts being put forward by the staff on behalf of the patients. There are still a great many persons among the general public who visit mental hospitals with great diffidence. Attempts have been made by the staff to overcome this attitude and to allay their fears.

The Eugenics Board made regular visits to the hospital every two months in order to examine cases recommended for sterilization. The Board acted in an advisory capacity, and again was requested by the Minister of Health to visit the hospital and submit a report. It is felt that as a result of their report it was possible to obtain additional facilities in various departments of the institution.

During the year meetings of the local organization of Registered Nurses were held in the hospital. Matters of interest to the nursing profession were discussed at these meetings.

# ACCOMMODATION AND ALTERATIONS

During the year the Auxiliary Hospital at Raymond was opened. to which institution some 110 female patients were transferred for continued treatment. The cases transferred were the mild and elderly chronic types, which require a minimum amount of supervision and are likely to be subjected to the roughness of the more impulsive and refractory cases on our own continued treatment wards. The new hospital at Raymond was staffed by members of this hospital. Dr. Carnat was appointed Medical Officer in Charge, and Miss Birt, a graduate nurse who had taken the post-graduate training in mental nursing here and who had had considerable experience, was appointed Nurse in Charge. The opening of this unit gave some relief to the overcrowding on our refractory female wards, but did not by any means solve the problem of overcrowding. Overcrowding on the female wards continued to increase, and a new ward capable of housing 250 or 300 refractory patients is still very urgently needed.

During the year a number of male patients were transferred to the Institute at Oliver, but no additional accommodation was provided for male patients. The male population is rapidly increasing to the number in residence prior to the opening of the last unit in Oliver.

Emergency repairs have been made to the buildings regularly, but the deterioration in them continues and many radical repairs are urgently needed. The roofs of all the buildings are in very bad condition. The Department of Public Works will have to authorize the expenditure of a considerable amount of money if the necessary repairs to these roofs are to be made. During the year certain changes were made in the plumbing and heating arrangements of the institution, which resulted in an improvement in these facilities.

# DEPARTMENTAL ACTIVITIES

Business Office.—Mr. J. D. J. McDonald, Business Superintendent, directed the work of this department. He has under his supervision also the work of other departments whose activities are discussed in the latter part of this report. The work of Mr. McDonald's department has been increasing steadily, and there is urgent need of some increase in personnel of that office. The lack of an adequate amount of staff and business machines, and for office accommodation to some extent, has prevented that office from submitting accounts regularly in pursuing collections.

*Laundry.*—This department works to capacity continually, and requires increase in facilities and staff.

*Tailor Shop.*—This department is staffed by a tailor and an assistant. The work has been carried out very satisfactorily. Patients' clothing and attendants' uniforms are made and much repair work is done in this department.

Occupational Carpenter Shop.—The furniture of the institution and farm equipment is repaired in this department. A considerable number of patients assist in the work.

Sewing Room.—The work of this department, under Miss Naunton's supervision with the help of an assistant and many female patients, has been carried out very satisfactorily. During the year there has been a considerable amount of repairing done to worn and torn dresses, which has resulted in a saving to the institution.

*Stores.*—Mr. Walter Mason, with an assistant, supervises the work of this department, which is carried out very quietly and efficiently.

Kitchens and Dining Rooms.—The work of this department is carried out most efficiently and satisfactorily, but there is a deplorable lack of accommodation and facilities. It is pointed out annually that alterations and additions should be made to the kitchen to meet with the present demands, and there is some reason to believe that in the coming estimates some provision will be made for the necessary changes. There is a shortage of space in the bakeshop also, but this situation will be cleared up with alterations in the kitchen.

Student dietitians continue to come from the University Hospital, Edmonton, to receive special instruction and training. They appear to enjoy the work, and state that it is very valuable to them.

Miss Stacey, the hospital dietitian, is to be complimented on the manner in which she directs the dietetics of the hospital. During the year she has found it possible to make frequent and regular visits to the wards during meal hours and to the various dining rooms and diet kitchens in the institution. Through her efforts the general calibre of the meals appears to have improved, and much favourable comment has been offered by patients and members of the staff alike. There has been a concerted effort on the part of Miss Stacey and members of the staff to improve the routine followed in the serving of the meals. As a result of certain changes, there is reason to believe that there has been less necessity for adopting artificial methods of feeding of patients, especially on the reception wards.

Gardens and Grounds.—Mr. Mayled directs the work of these departments. He continues to meet with outstanding success in the raising of crops of greens, vegetables, and honey. Fresh vegetables are provided to the patients and staff. Some small fruits have been grown, and have been much appreciated by persons throughout the hospital. The grounds have been very attractive, thus provoking favourable comment from visitors and friends and relatives of patients.

The Farm.—The work of this department, which includes the raising of root crops, dairying activities, and the raising of sheep and hogs, has been satisfactorily carried out by Mr. McKinnon, who has assistants and a number of patients working with him. It is hoped that the hospital will acquire more arable land to cope with the requirements for pasturage and fodder crops.

Chicken Ranch.—Mr. Carleton supervises the work of this department, which raises chickens and turkeys for hospital use, as well as supplying fresh eggs daily for the use of the staff and patients. This department is still in need of more accommodation for the wintering of larger flocks of birds.

Cannery.—Mr. McDonald directs personally the activities of the cannery in addition to his other duties. The opening of the cannery has resulted in a considerable saving to the institution. Vegetables, fruits, and greens have been canned, thereby obviating the necessity of paying higher prices during the period of shortage of these articles of diet. Among the products canned were raspberriees, strawberries, peaches, cherries, apricots, plums, rhubarb, carrots, peas, beans, etc. Approximately 12,000 No. 10 tins were processed, or approximately 25 tons of produce. Mr. McDonald is to be complimented for his efforts in obtaining the canning equipment and for the success of that department, which must be attributed to him personally. A considerable number of patients assisted in the preparation of the products to be canned, thereby providing useful labour for many who might otherwise be idle.

# STAFF CHANGES

There were several changes in the medical staff during the year. Dr. C. L. Pearson resigned to accept a position in the Health Unit in Red Deer with the intention of following Public Health work. Dr. A. R. Schrag was granted a year's leave of absence to take advantage of a fellowship which he had received from the National Committee for Mental Hygiene. He plans on studying child guidance work and eventually returning to this Province. Later in the year Dr. A. D. MacPherson enlisted in the Eighth Field Ambulance Unit. He was granted leave of absence for the duration of the war. He will be greatly missed in hospital circles. Besides holding the important position of Senior Physician and Physician in Charge of the male wards, he always took an actve part in the activities of the hospital, especially in the athletic field. He left the service of the hospital with the best wishes of the staff for safe return to duty here.

Dr. E. G. Simmonds, who for some time had been the hospital pathologist, died in an Edmonton hospital following operation. Dr. Simmonds had done much valuable work while in the hospital service and was a general favourite. He will be greatly missed, and it will be difficult to fill his position with one who has had such a breadth of experience.

During the year vacancies in the medical staff were filled by obtaining the services of Dr. James Byers, who had been in general practice in this Province Dr. William McCallum, who had completed an interneship following graduation; and Dr. Evelyn Aiello, who had also been in general practice in the Province, having previously worked in general hospitals in Saskatchewan. All three physicians are graduates of the University of Alberta Medical School, and will prove valuable additions to the staff.

Miss Edith Kemp, as previously mentioned in this report, was appointed Assistant Superintendent of Nurses to work in conjunction with the Superintendent of Nurses and the Instructor in the Nurses' Training School.

Miss Margaret Polley, B.Sc., was appointed Laboratory Technician following Dr. Simmond's death. Miss Polley had considerable experience in laboratory work prior to joining the staff, and came very well recommended. It is expected that she will be able to carry on the work of the laboratory satisfactorily.

# CONCLUSION

Overcrowding, especially on the female side, continued to be a major problem in the administration of the affairs of the hospital. The opening of the Auxiliary Hospital at Raymond afforded some relief on the female side from a numerical standpoint, but the chief problem, that is, the handling of the difficult refractory female cases, was not materially affected by the transfer. The transfer of male patients to Oliver helped to keep the male population from reaching the point at which it was when the new wing at Oliver was opened in 1938.

The major staff changes affected the medical staff chiefly, and it was with regret that the services of members of the experienced medical staff were lost. However, it was felt that these physicians had entered upon new and equally as important work.

The co-operation received from all departmental heads and employees generally, as well as the medical staff and very particularly Dr. Michie, the Assistant Medical Superintendent, and Miss Jackson, Superintendent of Nurses, has been greatly appreciated, and thanks is due all concerned for the faithful discharge of their duties. It is realized by the Medical Superintendent that without exception all departments are confronted with certain problems which do not appear capable of immediate solution, and for this reason their efforts are all the more to be recognized.

The Medical Superintendent, on his own and on behalf of the staff of the hospital, would like to express pleasure and appreciation for the co-operation received from the Minister of Health, the Deputy Minister of Health, the Department of Public Works, and other departments of the Government during the year. Any success with which the institution might meet in the treatment of patients is in no small measure due to contributions to their comfort and welfare offered by the various Departments in question.

Attached are the reports from Dr. Carnat, Medical Officer in Charge, Provincial Auxiliary Hospital, Claresholm, and Provincial Auxiliary Hospital, Raymond, on behalf of and covering the activities of those institutions.

in residence Dec. 31, 1938:	Male	Female	Total	792	Female 763	1555
On leave or otherwise absent				9	2	11
				801	765	1566
Admissions:						
First admissions	69	36	105			
(a) Voluntary	38	51	89			
(b) Certificates	166	93	259			
(c) Warrant (d) M.D. Act	8	5	13			
Re-admissions:		10	26			
(a) Voluntary	14	12 12	13			
(b) Certificates	56	34	90			
(c) Warrant	2	4	6			
(d) M.D. Act	6	2	13			
Transfers				362	252	614
				1163	1017	2180
Separations:						
Discharges:		00	105			
(a) As recovered	63	62	125 145			
(b) As improved	77 14	68 14	28			
(c) As unimproved	14 57	30	87			
(d) As without psychosis	20	121	141			
Transfers	41	41	82			
Deaths	11	4	15			
On leave or otherwise absent				283	340	623
n residence Dec. 31, 1939				880	677	1557

## TABLE No. 1

MOVEMENT OF PATIENT POPULATION DURING 1939

# ANNUAL REPORT, 1939 121

# TABLE No. 2

# SHOWING THE PSYCHOSIS OF THOSE ADMITTED DURING 1939

	SHOWING THE PSYCHOSIS OF THOSE ADMITTEI	DURIN	(G 1939	
	Psychoses	Male	Female	Total
01.	Psychoses with syphilitic meningoencephalitis (general			
01.	naroeie)	11	5	16
02.	Psychoses with other forms of syphilis of the central			
	nervous system:	-		7
	021. Meningo-vascular type	7		'
	022. With intracranial gumma			1
	023. With tabes dorsalis	1		î
00	024. With tabo-paresis Psychoses with epidemic encephalitis	1	1	2
03.	Psychoses with other infectious diseases			
04. 05.	Alcoholic psychoses:			
0.0.	051. Pathological intoxication			
	052 Delirium tremens	1		1
	053. Korsakow's psychosis			
	054. Acute hallucinosis	1		1
	055 Chronic alcoholism			
06.	Psychoses due to drugs or other exogenous poisons	Same		
07.	Traumatic nsychoses:			
	071. Traumatic delirium			1
	072. Post-traumatic personality disorder	1		î
	073. Traumatic epilepsy	$\frac{1}{26}$	16	42
08.	Psychoses with cerebral arteriorsclerosis Psychoses with other disturbances of circulation:	20	10	
09.	091. With cerebral embolism			
	092. With cardio-renal disease	1		1
10	Psychoses with convulsive disorders:			
10.	101. Epileptic deterioration	3	1 .	4
	102. Epileptic clouded states	3		3
11.	Senile nevchoses:			
~~.	111 Simple deterioration	7	5	12
	112 Preshvophrenic type		1	1
	113. Delirious and confused	2	3	2 6
	114. Depressed and agitated	3	1	7
1.11	115. Paranoid types	6	*	
12.	Involutional psychoses:		9	11
10	121. Melancholia Psychoses due to other metabolic, etc., diseases:	6		
13.	131. With diabetes mellitus	1		1
1.4	Psychoses due to new growth:			
14.	141 With intracranial neoplasms	2		2
15.	Psychoses associated with organic changes of the nervous	7		
10.	evictory'			
	154. With other brain or nervous diseases	3		3
16.	Psychoneuroses:			
	161 Hystoria		1	1
	169 Develocthenia	1	1	29
	163 Neurasthenia	2	7	1
	164. Hypochondriasis		3	3
	165. Reactive depression		0	5
17.	Manic-depressive psychoses:	12	25	37
	171. Manic type 172. Depressive type	27	26	53
10	Dementia Praecox (Schizophrenia):			
18.	181 Simple type		1	1
	182 Hebenbrenic type	1		1
	183 Catatonic type	96	68	164
		35	16	51
	185 Undefined	2	ŀ	3
19.	Peranois and paranoid conditions:			
	191 Paranola	1		1 13
	102 Demandid conditions	9	4 2	3
20.	Psychoses with psychopathic personality	17	11	18
21.	Psychoses with mental deficiency			3
22.	Undiagnosed psychoses	0		
23.	Without psychoses: 231. Epilepsy	6	1	7
	231. Ephepsy 232. Alcoholism	7		7
	232. Arconolisin 233. Drug addiction	1		1
	224 Mental deficiency	28	28	56
	225 Enidemic encephalitis		3	3
	236. Psychopathic personality		1	1
	227 Corobral arteriosclerosis		1	1
	238 Thyroid and involutional disorder		1	1
	239 Early schizophrenia	T	1	2 1
	240 Reactive depression	1	1	1
	241 Temper tantrums		3	11
	049 Tahos dorealis	0	1	22
	242 Neuro-synhilis	41	i	2
	244. Cerebral syphilis	-		
	Total	362	252	614
	Total			

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# CIVIL STATE OF PATIENTS ADMITTED DURING 1939 WITH REFERENCE TO PRINCIPAL PSYCHOSES

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i i=	-	90	-	30	4-				2	-	-		- 53	1		1				80
10	• • • •	10.00		75	200		100		4-	4	4.0	1.1	24			I	-	4	61	209
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																T				
															and an	order				
															Allowed and	disorder				
			ia):			DS:								lity	osis	onal disorder				
	00		ırenia) :			litions:	us.	ity					y alitic	sonality	clerosis	olutional disorder	on			
	sis ression	Oses : Die	zophrenia) :	type e		conditions:	ditions	onality				on	iency	personality	riosclerosis	involutional disorder	ression	rums	lis	
enta actor	driasts depression	sychoses: pe e type	Schizophrenia):	nic type type	type	old conditions:	conditions	personality	ency			liction	eficiency	thic personality	arterioscierosis	and involutional disorder	depression	antrums realie	lis	
ria asthenia ethonia	chondriasis ive depression	re psychoses: type setve type	ox (Schizophrenia):	phrenic type onic type	old type	ranoid conditions:	old conditions	hic personality	sticlency	vies	DSV oftens	addiction	al deficiency	topathic personality	oral arteriosclerosis	oid and involutional disorder	ive depression	ver tantrums dorealie	lis	otal
oses : ysteria syctasthenia sureasthenia	ypochondriasis eactive depression	essive psychoses: anic type enrestor type	aecox (Schizophrenia): mole type	ebephrenic type atatonic type	aranoid type	1 paranoid conditions:	aranola aranoid conditions	pathic personality	deficiency	vchoses	pelipsy	rug addiction	Tental deficiency	sychopathic personality	erebral arteriosclerosis	hyroid and involutional disorder	eactive depression	emper tantrums whee dorealie	lis	Total
ieuroses: 1. Hysteria 2. Psychathenia	4. Hypochondriasis 5. Reactive depression	tepressive psychoses: 1. Manic type 2. Demressive type	a Praecox (Schizophrenia):	2. Hebephrenic type 3. Catatonic type	4. Paranoid type	and paranoid conditions:	1. Paranola 9 Paranoid conditions	ychopathic personality	ental deficiency	psychoses	1. Epelipsy	3. Drug addiction	4. Mental deficiency			<ol> <li>Thyroid and involutional disorder</li> <li>Farly schizophrenia</li> </ol>	0. Reactive depression	1. Temper tantrums 9. Tabas dorsalis	Neuro-syphilis Cerebral syphilis	Total.
choneuroses: 161. Hysteria 162. Psychathenia 162. Astronia	164. Hypochondriasis 165. Reactive depression	lic-depressive psychoses: 171. Manic type 172. Denressive type	entia Praecox (Schizophrenia): 181 Simole type	182. Hebephrenic type 183. Catatonic type	184. Paranoid type	nois and paranoid conditions:	191. Paranola 192 Paranoid conditions	h psychopathic personality	h mental deficiency	hout psychoses	231. Epelipsy 233. Alcoholism	233. Drug addiction		236. Psychopathic personality		238. Thyroid and involutional disorder	240. Reactive depression	241. Temper tantrums 242 Tahas dorealis	Neuro-syphilis Cerebral syphilis	Total.
Psychoneuroses: 161. Hysteria 162. Psychasthenia 162. Asychasthenia	164. Hypochondriats 165. Reactive depression		Dementia Praecox (Schizophrenia): Tagesox (Schizophrenia): Tagesox (Schizophrenia):		184. Paranoid type	Paranoia and paranoid conditions:	192 Paranoid conditions	With psychopathic personality	With mental deficiency	Without psychoses	231. Epelipsy 232. Alcoholism	233. Drug addiction					240. Reactive depression	241. Temper tantrums 242 Tahas dorsalis	Neuro-syphilis Cerebral syphilis	Total.

TABLE No. 4

AGES	OF	PATIENTS	ADMITTED	DURING	1939
			Finot		Po-

	I	First			Re-				
	Adr	nissi	ons	adr	niss	ions		Tota	ls
Artor	M.	F.	T.	M.	F.	Τ.	M.	F.	Т.
Under 15 vere	3	3	6				3	3	6
Under 15 years	9	15	24	7	2	9	16	17	33
15 to 19 years	25	20	45	10	8	18	35	28	63
20 to 24	28	18	46	10	8	18	38	26	64
25 to 29			49	11	12	23	34	38	72
30 to 34	23	26		11		20	56	34	90
35 to 39 "	45	25	70	11	9	20	00	17	40
40 to 44 "	16	13	29	1	. 4	11	20		
45 to 49 "	28	18	46	8	11	19	36	29	65
50 to 54 "	35	10	45	6	2	8	41	12	53
55 to 59 "	18	17	35	5	- 4	9	23	21	44
60 to 64 "	17	9	26	2	3	5	19	12	31
65 to 69 "	15	3	18	3	- 3	6	18	6	24
TO and arran	20	8	28		1	1	20	9	29
10 and over				_	_				
Total	282	185	467	80	67	147	362	252	614

TABLE No. 5 NATIVITIES OF PATIENTS ADMITTED DURING 1939

Nativities	Male	Female	Total	Nativities	Male	Female	Total
Canada	159	139	298	Germany	6	6	12
Newfoundland	1		1	Hungary	5	1	6
England	3.6	24	60	Holland	1	****	1
Scotland	12	7	19	Italy	2	3	5
Ireland	0	2	10	Jugo-Slavia	2	1	3
Wales	. 1	1	2	Lapland	1		1
Other British Possessions	; 1		1	Lithuania		1	1
U.S.A.	. 43	24	67	Norway		3	11
Austria	15	5	20	Poland	20	14	34
Belgium	. 1	1	2	Rumania	3		3
Bulgaria	. 1		1	Russia	6	6	12
China	. 7		7	Sweden	8	2	10
Czecho-Slovakia	. 6	3	9	Switzerland	1	2	3
Denmark	2		2	Ukrainia	3		3
Finland	3	4	7		0.00	070	014
France	a calla	3	3	Total	362	252	014

# TABLE No. 6

				ENTS ADMITTED DURI			
Place of Residence	Male F			Place of Residence	Male F	emale	Total
Abee		2	2	Carmangay			1
Airdrie	1		1	Carrot Creek		1	1
Aklavik	1		1	Castor		2	3
Alberta Beach		1	1	Champion			1
Aldersyde			1	Chauvin	. 1		1
Alix	1		1	Chinook	2		2
Alliance		1	1	Chisholm	. 1		1
Amisk		1	1	Clairmont		1	1
Andrew			1	Claresholm	. 2	2	4
Ardley		1	1	Clive	. 2		2
Athabasca		2	2	Cochrane	. 1		1
Banff		1	2	Cold Lake	. 1		1
Barons		2	2	Condor		1	1
Barrhead			ī	Consort			1
Barrymoor		1	î	Cowley		2	2
Beiseker			1	Cremona		ī	2
Bellevue		2	â	Crossfield			1
Bentley			1	Dakin			1
			1	Daysland		1	3
Bezanson Big Volloy			î	Derwent			ĭ
Big Valley			1	De Winton			î
Bingley	and the second sec	1	1	Didsbury		2	Å
Bittern Lake			1			ĩ	1
Blackfalds		-	1	Dinant Donalda		1	Å
Blackie		1	2			1	1
Blairmore		1	4	Doris		1	1
Bluffton			1	Downing		2	1
Bonnyville			1	Drumheller		4	5
Botha		1	1	Dunmore			1
Bowden		2	3	Edmonton		44	92
Bow Island		1	1	East Coulee			1
Brightview			2	Eastgate			1
Brocket	1	****	1	Edgerton	1	100	1
Brosseau	1		1	Edson			1
Brownvale		1	1	Elder Flats	1		1
Bruce	1	1	2	Endiang		1	1
Bruderheim		1	1	Esthèr	1		1
Buck Creek			1	Evansburg			1
Buffalo			1	Falher	. 1		1
Buford		1	2	Falun			1
Byemoor			1	Floating Stone Lake		1	1
Calgary		37	99	Fort Assiniboine	. 1		1
Calmar			1	Fort Saskatchewan	. 1		1
Camp Creek		1	1	Fort Smith			1
Camrose			î	Fort Vermilion		2	2
Canmore		1	1	Fox		-	ĩ
Carbon		1	2	Frog Lake		1	î
		3	4	Galahad			2
Cardston				Guialau			**

# ANNUAL REPORT, 1939

# TABLE No. 6-Continued

				Place of Residence	Male Fe	male	Total
Place of Residence			1 I	Raymond		1	1
Galloway			1	Redcliff	. 2	1	3
Girouxville Gleichen			î	Red Deer	. 9	3	12
Glenevis		2	2	Redwater		1	1
Goodfare			1	Retlaw		22	32
Grandada	1	-	1	Rimbey		2	2
Grande Prairie		2	3	Riverton Rochfort Bridge	1	-	ĩ
Grassy Lake	1		13	Rocky Mountain House.	2		2
Grimshaw		1	1	Roma	ĩ		1
Grouard		1	2	Rosalind		1	1
Gunn		1	ĩ	Rosedale	. 1		1
Guy Hairy Hill		î	î	Roselea			1
Halfway Lake			1	Rossington	. 1	++++	1
Haynes	1		1	Round Hill			2
Hesketh		1	1	Rowley	. 1		1
High Prairie	1		1	Ryley			2
High River	1	3	4	Round Valley			ĩ
Hoadley		1	1	St. Bride's St. Edouard			î
Hobbema			2	St. Lina			2
Holden		1	1	St. Paul		1	2
Hythe		1	1	Saddle Lake Reserve			1
Iola		1	1	Sandy Rapids			1
Irma			î	Sangudo		1	1
Irricana	1		î	Sarcee Reserve			1
Ispas Jarvie			2	Seebe	. 1		1
Jasper			ĩ	Shamrock Valley	. 1		1
Jenner			2	Shaughnessy Shepard	as evening	1	1
Keoma			1	Shepard	1		1
Kinuso		1	1	Shining Bank	- 1		1
Kipp		1	1	Sibbald		1	1
Ksitnau Creek		1	1	Skaro		*	i
Lac La Biche		1	2	Slawa Smoky Lake			î
Lac Magloire	1		1	Spedden			1
Lacombe	3	2	5	Spirit River		1	3
La Glace		****	2	Springburn			1
Lavoy		1	ĩ	Spruce Grove	. 2		2
Lea Park			î	Stauffer		1	1
Leavitt			î	Staveley	1		1
Leduc Legal		1	î	Stettler	1		1
Leslieville		î	1	Stony Plain	1	2	3
Lethbridge	12	8	20	Strathmore	1		1
Linaria		1	1	Strome			3
Lindale		1	1	Sundre	2	1	1
Llovdminster		1	1	Sunnybrook		1	2
Lomond	1		1	Sylvan Lake			1
Lougheed		1	1	Taber Thorhild			î
Loyalist	1		1	Thorsby			ĩ
Macleod	2	****	2	Three Hills		1	2
Mallaige	1		1	Tilley			1
Malmo	1	1	1	Tofield		1	1
Mannville		*	2	Travers			2
Mayerthorpe	1		ĩ	Trochu		3	3
Meadowbrook			ĩ	Turin	2		2
Medicine Hat		2	5	Turner Valley	2		2
Mercoal		1	1	Turner Valley Twin Butte		1	1
Midlandvale	1		1	Upper Hay River Post	L		12
Milk River	1		1	Valhalla Centre	Z		1
Millet	1		1	Vegreville		****	1
Mirror		1	1	Venice Vermilion		3	6
Morinville	1		1	Vermilion	2	2	4
Mundare		12	12	Vimy		ĩ	2
Musidora		2	1	Vulcan			2 2 1
Myrnam	1	1	1	Wabasca		1	1
Nemiscam		1	1	Wainwright		2	2
Newbrook	1		î	Warburg	and the		1
Nevis		2	2	Warner			1
New Westminster, B.	C.	ĩ	ĩ	Werrensville	1		1
Nobleford	1		1	Wayne Weald		3	3
Nordegg			1	Weald	1		1
Olds	3	2 1	5	Wenham Valley	1	1	2
Onoway			1	Wetaskiwin	1		ĩ
Pathfinder		2	2	Whitburn White Mud Creek		1	1
Patricia	1		1	Willingdon	1	î	2
Peace River	5	1	62	Willisden Green			1
Penhold	2		1	Willowlea		1	1
Phillips	1	1	2	Wimborne	1		1
Pibroch		1	1	Winterburn		1	1
Picture Butte		1	1	Wolf Creek		1	1
Pine Lake		1	1	Wostok	1	1	2
Plamondon	2	1	4	Yellowknife	1		1
Ponoka	•••••	î	1	Youngstown	1		1
			î			-	
Primula Prince George B.C.		1			and the second second		
Prince George, B.C. Provost		1	1	Total	362	252	614

TABLE No. 7

DISCHARGES, CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSES AND CONDITION OF DISCHARGE, FOR THE YEAR 1939

	ved T.	1			11			1-	• 1		-		o xo g	300			182
	Unimproved M. F. T	1			11			-	4	:	I		0 64 4		1	1	14
	M.	1	į					1	1		11	1	00	100	1 1	11	14
	J.F.	9		-	1		10	9	1		11	110	34.	3	- 00		145
	Improved F.	-		1 4 4 4			9	1-			11	14	30.5	00-	4 03		188
	M. Imj	13	00	;	-			10			11		149	-	1		-11
	A										::						11-
		-	-														
	T	-	••					1	14		1	.4	44		0		125
	Recovered.		-	1.					4		11	4	22	1	4	1.1	123
1939	M.	1	01		63	-	4.45	-		-	• ;		18		10	1 1	18
EAR																	
IE XI	Ŀ.	00	10		4		19	00	4	-		12	129	10	13	87	385
IL NI	Totals F.	61	1				=	01	4		1	11	47 54	4-	2	30	174
04	M. T	9	10		4	-	4 00	9		-		1	33	9	9	57	
	-																211
		: 0	0 :	: 00			: 00										
		ngo- svnhilis		diseases	other exo-		teriosclerosis rbances of				nic			ions personality			
	-			is dis	ther		ioscl	sorders		bolic	organic		inia)	ersor	ency		
		esis)	ysten	ctious			arter	diso		netal	ith	vsten	sphre	nditic nic p	ficie		
	SS	l par	uis s	infe	cugs		dist	Isive		her r	grov	s sn.	chizo	d cor	ul de		
	Psychoses	sypt	Thron	other	o dr	DSPS	cereb	nvno	hose	0 ott	new	DATA	x (S	sycho	chose	50	
	Psy	s (ge	ith I	ith o	psychoses due to drugs or	sons	th	ith c	psyc	ue to	ue to new growt associated with	ses .	ssive aeco:	ith par	ith n	chose	
		aliti es w	cent es w	es w	es d	tic n	es w	tion es w	onal	es d	es du	euro	epre.	es wi	W Se	psyc	Total
	and a	Psychoses with syphilitic mer encephalitis (general paresis) Psychoses with other forms of	of the central nervous system Psychoses with chronic encents	Psychoses with other infect	Alcoholic Psychoses	Traumatic psychoses	Psychoses with cerebral arterioscle Psychoses with other disturbances	circulation Psychoses with convulsive d	Involutional psychoses	rsycnoses due to other metabolic diseases	Psychoses due to new growt Psychoses associated with	Psychoneuroses	Manic-depressive psychoses Dementia praecox (Schizophrenia)	Paranoia and paranoid conditions Psychoses with psychopathic perso	Psychoses with mental defici Undiagnosed psychoses	Without psychoses	
						Tres	Psy			L'sh	Psy	Psy	Der	Psy	Psy	Wit	
	10	02.	03.	64	06.	07.	08.	10.	121	13.	14.	16	18.	20.	21.	23.	

DEPARTMENT OF PUBLIC HEALTH

# ANNUAL REPORT, 1939

DISCHARGES DURING	Total 3 months	M. F. T. M. I	6 2 8	With other forms of syphilis 5 5 1	and and and and and	···· ··· ···	4 4 3	us poisons		8 11 19 5	The The					1 1	1 11 12 1	35 47	75 54 129 26	6 4 10				10 10 NO		
NG 1939-SHOWING	der Under onths 6 months	. T. M. F.	1 3 1 1	. 1 3						7 2	The Test	63					11	26 15 14	39 20 17	2 1	1	2 4	50 12	9   B0		
NG DURATION OF	er Under ths 9 months	T. M. F. T.	1	3 1 1			1			12						not not not not	1	29 6 6 12	14 7			I	0 0	a   5	22	
F RESIDENCE	Under 12 months	M. F. T.					-				in m in	1 1				Verse		1 3 4	9					• ]	10	
	Under 18 months	M. F. T.	2 2					100 100 100							the test too	-		1 1	-	-		N		4	13	
	Under 2 years	M. F. T.											-	1 1				01	-		-	-		:	00	
	Over 2 years	M. F. T.							- min		The ten sea	-						1 4 5	~		i.	-	- Frank	1	10	

TABLE No. 8

# TABLE No. 9

RECORD OF DEATHS DURING 1939

The state						IIS DOMING 1999
Regist No.	Sex.	Age.		in Hospi Months.		Cause of Death
	F	51	3	6	23	Bilateral pulmonary tuberculosis.
7345 5146	F	80	8	3	4	Myocardial degeneration; hypostatic pneu-
0140		00	· ·			monia.
6849	F	60	4	2	20	Broncho-pneumonia.
3361	F	56	10	3	9	Exhaustion; broncho-pneumonia.
9480	F	75 40		1		Broncho-pneumonia. Exhaustion; catatonic excitement; myocar-
9521	r	40				ditis.
9482	M	61		1	4	Bronchiectasis; Emphysema of lungs.
9484	M	61		1	5	Broncho-pneumonia; myocarditis; malarial
						fever.
9503	M	57		1	2	Influenzal broncho-pneumonia; chronic myocarditis.
8207	М	51	2	1	23	Cerebral haemorrhage.
7283	M	63	3	8	20	Cerebral haemorrhage-subarachnoid.
8693	F	84	1	6	13	Broncho-pneumonia.
9537	F	51			22	Exhaustion; myocarditis; involutional mel-
0104		70	2			ancholia. Chronic myocarditis: chronic nephritis.
8194 9597	M	72 58		4	4	Broncho-pneumonia; chronic myocarditis
3031	TAT	90				and acute failure.
9544	M	80		1	9	Broncho-pneumonia; chronic myocarditis.
1688	F	58	19	7	8	Septicaemia; diabetes mellitus.
7371	F	67	3	7	7	Chronic myocarditis.
1706	F	52	19	6 2	24 3	Chronic myocarditis; heart failure.
8944 9228	F M	42 75	1	8	18	Acute exhaustion; septicaemia. Chronic myocarditis and myocardial failure.
5155	M	57	8	2	10	Pulmonary haemorrhage.
9610	F	62			16	Broncho-pneumonia; generalized arterio-
	-					sclerosis.
8566	M	31	1	10	17	Pulmonary tuberculosis.
8941	F	44			1	Shock due to loss of blood from wounds, probably also from effect of poison.
5093	F	59	8	1	23	Exhaustion due to manic excitement.
9630	M	65			21	Broncho-pneumonia; chronic myocarditis.
9583	M	21	****	2	ar A	Influenzal pneumonia.
8996	M	73	1	2	10	Pulmonary tuberculosis.
8371	M	40	2	2	19	Acute haemorrhage; gastric ulcer.
9641	M	78	2			Broncho-pneumonia; chronic myocarditis.
8183	M	29		6	10	Lobar pneumonia.
9309	M	70		8	16	General paresis; Aortic aneurysm.
9388 4338	MF	85 29	10	6 4	12 17	Coronary sclerosis. Sub-dural haemorrhage.
7007	M	37	4	3	27	Coronary occlusion; cardia infarct.
9709	M	85			1	Acute right-sided heart failure; cardiac
					-	hypertrophy.
9378		59		7	5	Chronic myocarditis arteriosclerosis.
7414	F	47	3	8	16	Chronic myocarditis; aplastic anaemia.
9719 8075	M	69 56	2	8	1 21	Coronary sclerosis and pericarditis. Cerebral embolus.
7882	F	70	3		7	Coronary thrombosis.
9744	M	60				Chronic myocarditis.
2892	F	62	15	11	24	Carcinoma of stomach; pulmonary tuber-
0700	-	50			00	culosis.
9533 9683	F	50 39		42	28	Acute enteritis. Exhaustion; general paresis; cellulitis.
5300	M	87	6	8	25	Chronic myocarditis; cerebral thrombosis
0.000	.**	0.	0		20	with infarction.
6340	M	35	5	8		Lobar pneumonia.
9805	M	72			3	Generalized arteriosclerosis.
8756	F	26	1	2	6	Pulmonary tuberculosis.
6721	F	85	4	11	26	Broncho-pneumonia.
9772	М	62	****	1414	23	Chronic myocarditis and myocardial de- generation.
9305	М	53		11	7	Lobar pneumonia.
8611	M	70	2	1	7	Chronic myocarditis.
9679	F	62		2	28	Chronic myocarditis.
5854	F	27	6	10	-	Sub-acute bacteriological endocarditis.
1022	F	69	22	11	5	Chronic myocarditis and generalized ar- teriosclerosis.
8161	F	58	2	9	19	Chronic myocarditis.
2835	M	54	-		13	Broncho-pneumonia; myocarditis.
9834	F	59			14	Chronic myocarditis with myocardial de-
						generation.
9860	M	37			1	Ruptured appendix localized peritonitis
0.955	F	69		9	14	and toxaemia.
9355 6387	F	69 55	5	97	14 12	Broncho-pneumonia. Pulmonary tuberculosis.
449	M	60	25	11		Cerebral haemorrhage.
7426	F	56	1	11	1	Myocarditis and myocardial degeneration.
9659	ĨM	49		6	15	Acute colitis; dilatation of right ventricle;
						general paresis.
9943	F	46			12	Exhaustion; broncho-pneumonia; manic
9802	F	67	1	1	21	excitement. Chronic myocarditis.
9723	F	57		4	19	Exhaustion; psychosis with cerebral arterio-
						sclerosis.
2940	Μ	63	15	5	23	Chronic myocarditis and myocardial de-
						generation.

### ANNUAL REPORT, 1939

TABLE No. 9-Continued

Regist		1.0.10		in Hospi		Course of Death
No.	Sex.	Age.	Years.	Months.	Days.	Cause of Death
9682	F	47		6	3	Gastro-enteritis (intractable).
2517	F	67	22	3	6	Cerebral haemorrhage.
3576	M	55	2	5	7	Coronary sclerosis and occlusion.
391	F	29	4	2	16	Broncho-pneumonia.
9974	M	80			10	Acute exhaustion and myocarditis.
9788	M	91		- 4	17	Hypostatic congestion of lungs.
9704	F	71		6	9	Hypostatic pneumonia.
9994	M	57			23	Fracture of skull- laceration of brain and multiple injuries.
9995	F	73			24	Cerebral haemorrhage.
3863	M	72		4	5	Acute gastro-enteritis.
10030	M	65			11/2	Chronic myocarditis and myocardial de- generation.
7595	F	65	3	11	21	Broncho-pneumonia; myocardial degener- ation.

# PROVINCIAL AUXILIARY HOSPITAL, CLARESHOLM

Movement of Patients.—In residence on January 1, 1939, there were 97 patients. In residence on December 31, 1939, there were 99 patients. There were 16 patients transferred to this hospital. These were all transferred from the Provincial Mental Hospital. There were also 2 re-admissions of patients who had been discharged.

There were 3 patients discharged to the care of relatives.

There were 11 transferred to other hospitals, mostly to the Raymond institution.

There were 2 deaths during the course of the year.

Accidents and Elopements.—There were no elopements, though a considerable number of patients here are allowed the freedom of the grounds with a minimum amount of supervision. There were only a few minor accidents resulting in bruises, and there were no accidents of any serious nature.

General Health.—The health of the patients and staff has been very satisfactory. There were but 2 deaths, due to degenerative heart conditions. One patient had been recently transferred to the hospital. The other had been here for several years.

It would be advisable to have a tuberculosis survey of both patients and staff of the hospital. There are no definite cases, but there are a few patients that are regarded as suspicious, and it is felt that a complete check over, including X-ray examination, would be advisable.

There is a definite need for more surgical equipment, so that minor surgical procedures could be performed here.

With a population composed of a large percentage of frail, elderly individuals, an increase in the mortality rate is to be expected.

Dentistry.—The dental treatment necessary during the year was carried out by local men, who very kindly co-operated.

Occupational Therapy.—The Occupational Therapy Department continued to do very good work. A very high quality of work was done. The patients treated to this form of therapy continued to display definite results.

More equipment was obtained, and there was an increase in the number of patients treated. A radio was obtained for this department.

A bazaar and exhibition of the work done in this department was held during the fall, with very gratifying results. Much favourable comment was made by the visitors.

*Library.*—More volumes were obtained for the patients' library. The library is used extensively by all patients, able to read.

Buildings.—Improvements and repairs to all the buildings were carried out during the year by the Public Works staff. Their kind co-operation and interest in the welfare of the institution is very much appreciated.

Gardens and Grounds.—The lawns and gardens were improved during the year. Some of the lawns were reseeded, and further trees and shrubs were planted.

Sufficient vegetables were obtained to maintain the kitchen during the entire year. Many patients enjoyed assisting in the garden work.

The floral displays during the summer were excellent, and were commented on by many visitors and townspeople.

Religious Services were conducted each Sunday afternoon. Local clergymen were very kind in co-operating to conduct the services.

Recreation and Entertainment.—The patients continued to attend the regular matinees at the local theatre every other week. More than half the patients attended regularly, and enjoyed the shows very much.

Our sincere thanks are due to the management of the theatre for their kindness and co-operation in the arrangements.

Picnic suppers at frequent intervals during the summer were held on the lawn. These were very much enjoyed by the patients.

The Annual Sports Day was held during July. A novel programme of events was run through. Prizes were awarded to the winners, and refreshments were served.

The annual Hallowe'en Party was held on October 31st. Singing and dancing were enjoyed, and refreshments were served.

Mr. E. Charlton, of Claresholm, was very kind in donating his services, and offering to come and play for the patients whenever requested.

The choir of the United Church again presented a programme of Christmas music on December 22nd. The Christmas Party for the patients was held on December 28th. This, as usual, was enjoyed very much.

Dietetic Department.—This department, under the able supervision of Miss Helen J. Drew, continued to do excellent work. The meals have been varied and of very good quality. During the year, with the opening of the Raymond Hospital, Miss Drew's work was greatly increased. The high standard of efficiency has been maintained throughout.

Staff.—The Medical Officer was away from the hospital for the greater part of the year, but did visit the institute at frequent intervals. He maintained close touch with the hospital when at Raymond and Ponoka.

The local physicians were very kind in co-operating during any emergency when the Medical Officer was absent. The staff maintained a high standard of efficiency during the year, and the patients were well cared for.

Staff Changes occurred during the year, but there was no impairment of efficiency. Miss E. Ryan, the Matron, resigned early during the year to be married. Miss Edith Kemp, who replaced her, and who maintained the high standard, was recalled to the Training School Office of the Provincial Mental Hospital during the latter part of the year. Miss Agnes M. Hill, a graduate of the Provincial Mental Hospital, replaced her. Miss Hill continued to maintain the high degree of efficiency and service that has characterized the hospital.

The nursing staff had few changes. One of the members was given a leave of absence in order to proceed with post-graduate work in Psychiatry at the Provincial Mental Hospital.

The recreational facilities for the staff are limited and, if possible, some increase would be advisable.

Visitors.—Periodic visits to the hospital were made by the Medical Superintendent of the Provincial Mental Hospital, whose interest and advice was keenly appreciated.

The members of the Eugenics Board, acting as a Board of Visitors, visited and inspected the hospital during the fall.

Many relatives and friends of patients visited the hospital at frequent intervals.

Members of the surrounding community continued to visit and take an interest in the institution. Their kindness and co-operation is appreciated.

*Conclusion.*—Much praise is due to the staff for the efficient manner in which they carried out their work and cared for the patients.

TABLE No. 1

# MOVEMENT OF PATIENT POPULATION DURING 1939 Male Female Total Male Female Total 97 97

In Residence Jan. 1, 1939					97	97
Admissions:						
(a) Voluntary)						
(b) Certificate						
(c) Warrant		2.2.0.1.				
(d) Order		16	16			
(e) Transfers		10	10			
Re-admissions:		1	1			
(a) Voluntary (b) Certificate						
(b) Oct date		1	1			
(c) Warrant (d) Order						
(e) Transfers	****				18	18
	-		_	1144	10	
					115	115
Discharged during the year:						
(a) As recovered						
(b) As improved			2			
(c) As unimproved		3	0			
(d) As without psychosis		11	11			
(e) Transferred to other hospitals						
(f) Eloped (g) Deported to other countries						
(g) Deported to other countries		2	2			10
(II) Deditis			-		16	16
					99	99

	SHOWING THE DIAGNOSIS OF THOSE IN RESIDENCE,	DECEME	BER 31, 193	39
		Male	Female	Total
1.	Traumatic psychoses	more	a contra	20111
2.	Senile psychoses		2	2
3.	Psychoses with cerebral arteriosclerosis		3	3
4.	General paralysis			
5.	Psychoses with cerebral syphilis		1 1 21	
6.	Psychoses with Huntington's Chorea			
7.	Psychoses with brain tumor		****	
8.	Psychoses with other brain or nervous disorders:			
	(a) Chronic encephalitis		1	1
	(b) Disseminated sclerosis			
	(c) Tuberculous meningitis			
	(d) Undefined			
9.	Alcoholic psychoses:			
	(a) Delirium tremens			
	(b) Chronic alcoholism	1.1.1		
	(c) Deterioration			
10.	Psychoses due to drugs and other exogenous toxins			
11.	Psychoses with pellagra			
12.	Phychoses with other somatic diseases:			
	(a) Post-infectious		1	1
	(b) Diabetes			
13.	Manic-depressive psychoses			
	(a) Manic phase			
	(b) Depressive phase		3	3
	(c) Mixed			
	(d) Circular			
14.	Involutional melancholia		4	4
15.	Dementia praecox (Schizophrenia):			
	(a) Paranoid		26	26
	(b) Catatonic		20	20
	(c) Hebephrenic		7	7
	(d) Simple		2	2
	(e) Mixed	*191		
16.	Paranoia and paranoid conditions		11	11
17.	Epileptic psychoses		2	2
18.	Psychoneuroses and neuroses:			
	(a) Hysterical type	****		
	(b) Psychasthenic type			
	(c) Neurasthenic type			
	(d) Anxiety state			
19.	Psychoses with psychopathic personality		****	
20.	Psychoses with mental deficiency		9	9
21.	Undiagnosed psychoses		1	1
22.	Without psychoses:			
	(a) Epilepsy	1114		0.000
	(b) Alcoholism	****	****	****
	(c) Drug addiction	****	****	
	(d) Psychopathic personality	****		
	(e) Mental deficiency		7	7
	(f) Psychoneuroses			
	(g) Hysterical episodes (b) Organic pervous disease		****	
	(h) Organic nervous disease (i) Disseminated sclerosis	****		1111
	(j) Sacro-iliac arthritis			4414
	(k) Neuro-syphilis		****	4+15
	(1) Sex perversions		****	
	(m) For consideration by Eugenics Board			
	the second states of any states about a	****	****	

# TABLE No. 2

### SHOWING THE DIAGNOSIS OF THOSE IN RESIDENCE, DECEMBER 31, 1939

### TABLE No. 3 RECORD OF DEATHS DURING 1939 Time in Mental Hospital. e. Years, Months, Days, Cause

Total.

Register

NO.	Sex.	Age.	Years.	Months.	Days	Cause of Death
9873 5410	F	76 53	Ē	1		Myocarditis due to hypertension.
0110	*	50	0		20	Coronary thrombosis due to high blood pres- sure due to arteriosclerosis.

99

99

# PROVINCIAL AUXILIARY MENTAL HOSPITAL, RAYMOND

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

The former Agricultural School at Raymond was remodelled and renovated for use as an Auxiliary Hospital, with a view to relieving the overcrowding in the female chronic wards of the Provincial Mental Hospital. This institution was to provide care for a quiet type of chronic patient. The work was undertaken during the latter part of 1938, and was completed early in 1939. It was taken over by the Department of Public Health in February, 1939. Movement of Patients.—After the hospital was taken over by the Public Health Department, much work had to be done cleaning and preparing the building for reception of patients.

On February 6th, 36 patients were admitted from Ponoka, and on February 13th a further 70 were admitted—60 from Ponoka and 10 from Claresholm. During the entire year there were 116 admissions to this institution. There were 9 discharges, 6 as improved. Two patients were returned to Ponoka because of illness. There was but 1 death, due to coronary thrombosis.

Accidents and Elopements.—There were no elopements during the year. A few elderly patients wandered off for a short distance, but were soon returned.

There were no accidents of a serious nature. Several patients sustained bruises and sprains, but these were of minor importance and were quickly healed.

General Health.—The general health of the patients and staff has been satisfactory in general.

An epidemic of gastro-enteritis affected almost all the patients and staff during July and August. The hospital obtains its water supply from the town. This water is not at all satisfactory. The water is frequently discoloured and has a definite odour. At times it is contaminated with various pathogenic organisms. A strenuous effort should be made to improve the situation.

All patients and staff have been innoculated against typhoid.

Dr. J. S. Madill, of Raymond, has been most kind in co-operating with the staaff in the care of patients during the absence of the Medical Officer. His co-operation is greatly appreciated.

*Dentistry.*—The emergency dental work was carried out by the local dentists. All patients had been examined and treated prior to transfer to this hospital.

Occupational Therapy.—An Occupational Therapy Department was established in September, under the supervision of Miss E. Pritchard. Many patients here have been interested in this type of work, and have responded favourably. The articles produced have been of good quality. In all, 72 pieces were fashioned.

Sewing Room.—Under the supervision of the Seamstress, uniforms for the staff and dresses for the patients, in addition to sheets and pillow-cases required here, were sewn.

Other patients were employed about the gardens, grounds, in the laundry, and assisting with duties about the hospital.

Library.—A library for the patients is gradually being established. As yet very few books have been obtained, but many periodicals have been donated by people from the town and surrounding district.

Buildings.—The hospital buildings had been remodelled and renovated prior to the opening of the hospital. However, there was a definite shortage of furniture and equipment on opening. This has gradually been remedied during the course of the year.

Mr. Henkleman, the caretaker for the Department of Public Works, has been very co-operative and helpful. Mr. Stacey, Superintendent of Maintenance Department, has been considerate. The co-operation of these gentlemen is most appreciated. Grounds and Gardens.—The grounds about the institution had been neglected during the period when the institution was not in use. Considerable work was done to improve the grounds.

Gardens were planted, and a plentiful supply of both fresh and root vegetables grown. There is need for a proper root-house to keep a winter supply of vegetables and prevent spoilage.

*Milk Supply.*—A herd of 10 cows was obtained to supply milk to the hospital. There was an abundant supply of milk for both patients and staff.

There is a definite need for improving the barn facilities.

*Religious Services.*—Services were conducted each Sunday afternoon by the clergymen of the local congregations.

*Recreation.*—Arrangements were made to have matinees at the local theatre for the patients twice a month. These have been greatly enjoyed by the patients.

A Sports Day and several weiner roasts and picnics were also enjoyed by both patients and staff during the course of the year.

Dietetic Department.—Under the capable supervision of Miss Helen Drew, this department was established and has functioned very capably during the year in providing varied and excellent meals for both patients and staff.

Staff.—Members of the nursing staff were obtained from the staff at the Provincial Mental Hospital. The staff have been well trained and very capable. There were but three staff changes during the year, and these resignations were due to the reasons of matrimony.

Miss A. E. Birt, the Matron, has been very capable and efficient. Under her care the hospital has been conducted very smoothly. The Medical Officer was absent from the hospital at frequent intervals, due to work at Claresholm and Ponoka.

Mr. J. A. Bloom, the Record Clerk, has conducted his department capably.

Mr. Hague and Mr. Gill have been efficient in the care of the gardens and grounds and dairy herd.

*Visitors.*—The hospital was visited at frequent intervals by the Medical Superintendent of the Provincial Mental Hospital. His help and co-operation in the conduct of the hospital is appreciated.

Mr. J. D. J. McDonald, the Business Superintendent of the Provincial Mental Hospital, visited the hospital on several occasions. His co-operation and advice regarding supplies and administration has been of great value, and is appreciated.

Many relatives and friends of patients visited the hospital, and were pleased with the institution.

*Conclusion.*—During the course of the past year this hospital was established and operated capably and efficiently. There were some difficulties, early, due to lack of equipment. The staff have been most efficient.

It is to be hoped that a feeling of sympathetic understanding and goodwill will develop between the hospital and residents of the town and surrounding district.

# ANNUAL REPORT, 1939

# TABLE No. 1

# MOVEMENT OF PATIENT POPULATION DURING 1939

In Residence January 1, 1939	Male	Female	Total	Male	Female	Total
In Residence March 1, 1939				++++	100	100
Admissions:				1.15	106	106
(a) Voluntary						
(b) Cartificate						
(c) Warmant						
(d) Order						
(e) Transfers			-			
	++++	7	7			
Re-admissions:						
(a) Voluntary		2	2			
(b) Certificates						
(c) Warrant		1	1			
(d) Order						
(e) Transfers						
					10	10
				-	10	10
					116	116
Discharged during the year:					110	110
(a) As recovered	1000					
(b) As improved		6	6			
(c) As unimproved		3	3			
(d) As without perchasis	****	11223				
(e) Transferred to other hospitale		2	2			
(f) Flowed		-	-			
(g) Deported to other countries						
(h) Deaths		1				
(II) Deaths		1	1		10	
					12	12
					104	104

# TABLE No. 2

	SHOWING THE DIAGNOSIS OF THOSE IN RESIDENCE,	DECEME	BER 31. 193	39
	and the second	Male	Female	Total
1.	Traumatic psychosis	****		6
2.	Senile psychosis		6	2
3.	Psychosis with cerebral arteriosclerosis		2	4
4.	General paralysis		2	2
5.	Psychosis with cerebral syphilis	****		
6.	Psychosis with Huntington's Chorea		1010	
7.	Psychosis with brain tumor		1100	
8.	Psychosis with other brain or nervous disorders:			
	(a) Chronic encephalitis		****	
	(b) Disseminated sclerosis		****	
	(c) Tuberculous meningitis			
	(d) Undefined		****	
9.	Alcoholic phychosis:			
	(a) Delirium tremens			
	(b) Chronic alcoholism			1111
	(c) Deterioration			
10.	Psychosis due to drugs and other exogenous toxins			
11.	Psychosis with pellagra	10.00		
12.	Psychosis with other somatic diseases:			
	(a) Post-infectious	1010		
	(b) Diabetes		4101	1010
13.	Manic-depressive psychosis:			-
	(a) Manic phase		2	2
	(b) Depressive phase		2	2
	(c) Mixed		****	-
	(d) Circular		1	1
14.	Involutional melancholia			
15.	Dementia praecox (Schizophrenia):			
	(a) Paranoid		26	26
	(b) Catatonic		19	19
	(c) Hebephrenic		10	10
	(d) Simple			
	(e) Mixed		****	
16.	Paranoia and paranoid conditions		7	7
17.	Epileptic psychosis			
18.	Psychoneurosis and neuroses:			
10.	(a) Hysterical type			
	(b) Psychasthenic type			
	(c) Neurasthenic type			
	(d) Anxiety stage			
19.	Psychosis with psychopathic personality			
20.	Psychosis with mental deficiency		11	11
21.	Undiagnosed psychoses		3	3
22.	Without psychoses:			
	(a) Epilepsy			
	(b) Alcoholism			100
	(c) Drug addiction			
	(d) Psychopathic personality			
	(e) Mental deficiency		13	13
	(f) Psychoneuroses			
	(g) Hysterical episodes			
	(h) Organic nervous disease			
	(i) Disseminated sclerosis			
	(j) Sacro-iliac arthritis			
	(k) Neuro-syphilis			
	(I) Sex perversions			1111
	(m) For consideration by Eugenic Board			
	the construction of adjusted about the			
	· · ·			

# TABLE No. 3

# RECORD OF DEATHS DURING 1939

Regis	ter Sex.			Mental Ho Months.		Cause of	Deat	h	
8656	F	46	2			thrombosis s.	due	to	coronary

# Provincial Mental Institute, Edmonton, Alberta

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

# GENERAL REMARKS

At the close of the year 1939 we had on our books a total of 769 patients. Admissions, which included forst admissions, re-admissions and transfers, totalled 56. Discharges also totalled 56, of which number 33 died. Of this number, 14 were over 65 years of age; one was a case of Paranoia, one Psychosis with Mental Deficiency, and the remainder were diagnosed as Senility or Psychosis with Cerebral Arteriosclerosis. The movement of population was not very active due to the fact there was no new construction during the year 1938, and the institution was practically filled to capacity at the beginning of the year. The new admissions did not alter to any appreciable extent our various statistical tables, as there was the usual scattering of nativity, citizenship, industrial grouping, etc. Foreign-born population still remains high—of the total number of patients in residence, there are only 209 who were born in Canada. The next largest group, totalling 115, were born in United States. The percentage of British population has not changed appreciably.

# INSTITTIONAL ACTIVITIES.

The activities of the Institute continued more or less routine. Therapeutic facilities still continue to be limited. Quite an appreciable number of patients were given "shock" therapy, the results of which were rather dubious; some seemed to improve as a result of it, but the majority soon lapsed back into their previous vegetative state. Some minor construction was completed, namely, a storm sewer and a new sewage disposal plant. We were honored by a visit from the Academy of Medicine in June, when a demonstration of "shock" therapy was put on for their benefit. All were loud in their praise of what is being done in the treatment and care of our patients, having in mind the chronic nature of the psychoses from which practically all are suffering. Eighteen members of the staff enlisted for Active Service during the year. A number of these were employees who have been in our service for a considerable time, some occupying rather responsible positions. In addition to the loss of those who enlisted, there were other changes-a few resignations, and the departure of Mr. Cumberpatch, the Head Laundryman, and his wife on superannuation.

# Religious Services.

No changes were effected in the conduct of the religious services as held at the hospital. All the clergymen interested were very faithful in the discharge of their duties, and I wish to record my feelings of appreciation of their special interest in the spiritual welfare of our patients.

# Health.

The general health of the patients was most satisfactory. There were no epidemics and our hospital set-up was quite adequate to take care of those suffering from the various illnesses of an acute nature. There still continues to develop the occasion case of tuberculosis, and this fact rather emphasizes our need for some special provision for the care of this type of patient. In four cases of death the cause was Pulmonary Tuberculosis.

# Institutional Progress.

We are still marking time institutionally, and our work continues more or less routine due to the fact that we still continue practically one hundred per cent a hospital for chronic patients. As a result, we cannot hope for any marked changes until steps are taken to introduce active treatment facilities here. Many factors, of course, enter into the problem, the chief of which doubtless is the necessity for a large initial expenditure of money in order to change from a chronic to an active treatment hospital. However, in view of the gravity of the situation at Ponoka, action should not be longer delayed in putting the Provincial Mental Institute on an active treatment basis. Extra-institutional activities have continued, and a good deal of the time of myself and my assistant is taken up in the work of the Mental Hygiene Clinic and Police Court. There were no changes in our professional staff and only minor changes elsewhere, other than previously noted.

# The Farm.

Close co-operation continued as between the Institute and the Farm. The financial report shows a balance of profit of \$4,887.13, much of which is due to increased inventories and the fact that the vegetable production, which is under the operation of the Institute proper, is also included in the Farm operations.

The institutional financial statement shows a per capita cost per day of 56<sup>3</sup>/<sub>4</sub> cents, an increase of one cent over last year. This is readily explained by the gradual rise in the prices of food and clothing and by the fact that, due to a poor crop of potatoes, purchase of a large quantity was necessary. Mr. Murray and his staff is to be commended for the excellent and efficient manner in which the work of that department was carried on during the year.

# CONCLUDING REMARKS

We have had the whole-hearted co-operation of the Superintendent of Buildings and Construction and other branches of the Government, for which I wish to record my thanks. Also, I would at this time like to thank the members of the staff, individually and as a group, for their co-operation in our efforts to maintain the standards of the Institute. There are many problems of a minor and major character, but in view of present day conditions these will have to be dealt with as they arise. True, we would like to see facilities for increased therapy, recreation, etc., established and overcrowding relieved, but I have no doubt the Government is thoroughly conversant with these problems and is doing all it can to meet them.

# ANNUAL REPORT, 1939 139

# TABLE No. 1

MOVEMENT OF POPULATION

.

Patients on books January 1st, 1939: (a) In Hospital	Males 759	Females	Total 759
(b) On Probation	9		9
(c) Elopements	1	****	1
Total	769		769
Admissions During Year: (a) First Admissions	35		35
(b) Re-admissions	4		4
(c) Transfers			
Total	56		
Total Received During Year: (a) Transfers	17		17
(b) Re-admissions	4		4
(c) By Warrant	14 4		4
(d) Voluntary (e) By Certificate	14		4
(f) By Mental Defectives Act	3		3
Total	56		56
Total on Books During Year	825		825
Discharged During Year:	-	_	
(a) As Recovered			
(b) Improved	13		13
(c) Unimproved	6		
(d) Without Psychosis	4		4
(f) Died during year	33		33
	56	—	56
Total			
Patients on Books End of Year:			= 10
(a) In Hospital	749		749 5
(b) On Probation	5 9		9
(c) Elopements (d) In University Hospital	2		2
(e) On Special Parole	4		4
Total	769		769
Total Admitted Since Opening	1169		1169
Total Discharged Since Opening	257		257
Total Died Since Opening	184		184

# TABLE No. 2

NUMBER OF OFFICERS AND EMPLOYI	Males	Females	Total
Medical Superintendent	1		1
Assistant Medical Superintendent	1		1
Medical Officer	1		1
Dentist (part time)	1		1
Administrative Assistant	1		1
Bursar	1		1
	1		1
Stenographers and Clerks	1	2	3
Night Supervisor	1		1
Night Supervisor		2	2
Graduate Nurses			
Other Female Nurses	67		67
Male Attendants	1		1
Social Workers, Tailor			
Teachers	1		1
Occupational Therapist	â		4
Kitchen and Bakery	2	1	3
Laundry	2	-	433
Gardeners and Assistants	12		12
Engineers and Mechanics	12	1111	9
Other Employees (Male)	0		
Other Employees (Female)			
Total	108	5	113

# OFFICERS AND EMPLOYEES

# TABLE No. 3

PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION	OF PA	TIENTS	
Phychiatric: Patients Insane Epileptic (not insane) Mental Deficiency (not insane)	Males 681 6 78	Females	Total 681 6 78
Alcoholic (not insane) Drug Addicts (not insane) Neurosyphilitics (not insane) All other types (not insane)	3	  	3
Undiagnosed Total Population	769		769
Industrial Workers Garden Workers Internal Workers External Workers Doing no work On Probation, Parole, etc	$40 \\ 52 \\ 449 \\ 21 \\ 187 \\ 20$	   	40 52 449 21 187 20
Total Population	769		769

### TABLE No. 4

# NATIVITY OF PATIENTS IN RESIDENCE

	Males	Females	Total			
Canada	209		209	Japan	2	 2
Australia	1		1	Norway	22	22
Austria	10.00		55	Poland	34	 34
Belgium	2		3	Roumania	7	7
China			4	Russia	41	 41
Denmark	- A		4	Scotland	26	 26
England	92		92	Sweden	18	18
Finland	5		5	Switzerland	6	6
France	0		9	United States	115	115
Germany	91		31	Wales	7	 7
Holland	1		1	Other countries	25	 25
Hundary	5		5	Unascertained	17	17
Ireland	10		19			 
Italy	11		11	Total	769	 769

# TABLE No. 5

# CITIZENSHIP OF PATIENTS IN RESIDENCE

Citizen by Birth Citizen by Naturalization Aliens Unascertained	Males 243 56 301 34	Females	Total 243 56 301 34 135
British Birth out of Canada	135		135
Total	769		769

# TABLE No. 6 DENTAL REPORT

	Males	Females	Total
Patients Examined	750		750
Patients Treated	303		303
Prophylactic Treatment	101		101
Fillings	110		110
Extractions	165		165
New Dentures	21		21
Dentures Repaired	8		8
General Anaesthetic	. 4		4
Denture Adjustments	12	****	12

	A	AGE A	T AI	SIMO	SION	AN	D PRI	NCIF	AL	AT ADMISSION AND PRINCIPAL PSYCHOSES	OSE	2									
	Psychoses	M.	Total F.	L .I	Under 15 years M. F. T.	15 y	ears T.	15 M.	to 19 F. T.		M. F. T	5. T		25 to M. I	to 29 F. T.	M	30 to 3 M. F.	34	35 M.	5 to 39	°.H
1. T	Traumatic																			****	
No.	solie			22	-															-	
0 	erebral Arterioscierosis			61		-								-							-
-	eneral Paralysis			22		1111		-	1000		-		-	-		••			4		4
20. W	ith Cerebral Syphilis				-	-			-		-	-				-	-		1111	444.4	
.01	ith Huntington's Chorea			N	1	-		-								-			100		-
0 W	10 Brain 1umour			1												E.	-				
0. W	lui outer Brain Diseases	- 10	1	- 10															T		-
10. D	ue to Drugs																				
11. W	ith Pellagra							****													
12. Ot	ther Somatic Diseases															inter a					
13. M	anic Depressive	-		32							-					4			4		4
14. In	volutional Melancholia			~	-		1														
15. Sc	chizophrenia	-		12								9				92			10		20
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TABLE No. 7

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TABLE No. 7a

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#### DEPARTMENT OF PUBLIC HEALTH

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TABLE No. 8

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

144

DEPARTMENT OF PUBLIC HEALTH

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TABLE No. 10 ECONOMIC CONDITION OF FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES

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TABLE No. 11 7 ALCOHOL BY FIRST ADMISSIONS. BY PRINCIPAL P

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DEPARTMENT OF PUBLIC HEALTH

FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES	Married Widowed Separated Divorced Unascertained	T. M. F. T. M. F. T. M. F. T. M. F. T.		9 9 9 9 1 1 1	4 4 3 3 1 1	20 20 1 1 1 1				3 3 1 1			and been been been been been been been be		15 15 3 3 3 3 3		60 ··· 60 ×·· ×	21 21 2 2 2 2 2	6 6 2 2		<b>3 3 1 1</b>		I see I say see see so so as as as an an and	3 3 1 1	trad to do you as as as as as as as as a a	156 31 31 8 8 12	
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TABLE No. 12

		Total		Firs	First Admission	ssion	Re	Re-admission	sion		Transfer
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TABLE No. 13 INCREASE OF PATIENTS DURING THE YEAR, BY PRINCIPA

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WITH AGE AT DEATH AND DURATION OF HOSPITAL LIFE	Cause of Death	Chronic Myocarditis, Coronary Thromhosis	Senile Dementia Arteriosclerosis Broncho-pneumonia	Arteriosclerosis, Hypostatic Pneumonia Chaonic Fudocarditie	Chronic Myocarditis Cerebral Apoplexy	Cerebral Apoplexy Coronary Occlusion Psoas Abscess following Fracture	Cerebral Apoplexy Sufficeation, Ludwig's Angina	/ Occlusion Hemorrhage	0	T.B.		or the bowel Endocarditis	Carcinoma of the Pancreas	Exposure (eloped)	Cerebral Hemorrhage	Chronic Myocarditis Epilepsy, Hypostatic Pneumonia	dernia, strangulated Unknown Chronic Disease Chronic Purulent Bronchitis	
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CAUSE OF DEATH. BY PRINCIPAL PSYCHOSES.	Psychoses	2. Senile					3. Cerebral Arteriosclerosis 4. General Paralysis		15. Schizophrenia							<ol> <li>Paranoia and Paranoid conditions</li> <li>Epileptic Psychoses</li> </ol>	<ol> <li>With Mental Deficiency</li> <li>Without Psychoses</li> </ol>	Total
		54						~	12							11	222	

150

### DEPARTMENT OF PUBLIC HEALTH

#### TABLE No. 16

RELIGION OF PATIENTS IN RESIDENCE

	Males	Females	Total
Baptists	25		25
Episcopalians	77		77
Jews	9		80
Presbyterians Roman Catholics	185		185.
United Church	68		68 272
Other Denominations	272		272
Unascertained			
Total	769		769

#### TABLE No. 17

#### OCCUPATION OF PATIENTS IN RESIDENCE

	Males	Females	Total
Professional Commercial Agricultural Mechanics, Outdoor Mechanics, Sedentary	3 22 243 20 36		3 22 243 20 36
Domestic Service Education Miners, Engineers, Carpenters, Painters Labourers	5 3 50 286 77	****	5 3 50 286 77
No Occupation Unascertained Total	24 769	-	24 769

# Provincial Training School, Red Deer, Alberta

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

#### MOVEMENT OF POPULATION

The year began with 214 patients (111 males, 103 females) and ended with 215 patients (112 males, 103 females) in residence.

During the year there were 11 admissions (including 1 readmission), 6 discharges, 2 transfers, and 2 deaths.

Of the 10 first admissions, 3 were idiots, 3 imbeciles, and 4 morons; 4 of the ten were epileptic; 4 were either problem children or delinquent.

Of the 6 discharbes, 4 were returned to parents or guardians and 2 went out to work. Of the 2 transfers, 1, a male patient of thirtyfive, after 11 years in the Training School, was transferred to Ponoka, psychotic and dangerous; the other, a boy of 10, was transferred to the Manitoba School for the Deaf, and reports of his progress so far are quite gratifying. The deaths included 1 from general debility in a very low grade and deteriorated patient and 1 from status epiltpticus, in a child of 7, suffering from Congenital Slphilis.

In addition to 42 reported defectives (20 of these were summaries of defectives seen at Mental Hygiene Clinics), 46 applications for admission were received, bringing the numbers on the waiting list to 217.

Six cases (3 male, 3 female) were eugenically sterilized. At the end of the year, 50 (16 males, 34 females) or 23.35% of the 215 patients in residence had been sterilized. One sterilized patient who had been working out and adjusting well was married from the Training School, having returned at her own request for a week before her marriage to visit her friends and complete her preparations. Rather a unique occurrence. Table XIII gives the Eugenic summary for the past ten years.

Three boys and 4 girls were sent out on trial to various homes. Two of the girls were finally discharged.

#### HEALTH OF PATIENTS AND STAFF.

The health of the patients and of the staff in residence was very satisfactory. There was a complete absence of serious epidemics.

The usual inoculations against Typhoid, etc., were completed.

We had two visits from Dr. H. Ross, dental surgeon, during the year. Ninety-one patients were treated during the first visit and 74 during the second; 91 prophylactics, 96 fillings and 63 extractions (4 under general anaesthesia) were listed.

#### PATIENT ACTIVICIES

As far as circumstances permitted, all the various activities have been maintained which make for health, comfort and happiness, or build character and increase the ability and usefulness of patients in a way that has been a credit to the staff.

In the Infirmary, the almost complete absences of bedsores amongst the many bedridden, totally helpless patients speaks for itself. A few of these patients attended the sense training class.

Some 55 patients (28 males, 27 females) of the low grade, custodial type attended the gym or playground daily, according to season or weather.

Fourteen patients (8 males, 6 females) attended the sense training classes, and 16 (9 males, 7 females) the grade school. Three of the grade school pupils were made "full time workers" in June.

Fifty-one girls, divided into 3 groups, attended the occupational classes (sewing and embroidery) from 3:00 to 4:00 p.m. daily, except for the months of July and August.

Thirty-eight boys attended carpentry classes, from 1:30 to 4:00 p.m. daily during the Spring. These classes were omitted, however, during the Fall on account of the very open season, the demand for boys on the farm and lack of time on the part of the carpented.

Exhibits of work done by all groups were on display at the Edmonton Exhibition and Red Deer Fair, and a couple of very successful sales of work were held at the Training School.

Fifteen girls, divided into two groups, attended cooking classes on Monday nights from 7:00 to 8:00 p.m. during the Spring. This class, however, was not held during the Fall owing to frequent changes in the dining-room staff.

On the workers lists were 69 "full time workers" (30 males, 39 females), 20 "full time helpers" (14 males, 6 females), and 16 (6 males, 10 females) "school-boy" and "school-girl helpers," who, of course, helped only part time. The ability of the "full time helpers" is very limited indeed, but even though they do little or no work, they are at least interested, deterioration is prevented, and many do in time improve in temperament and sociability, if not in usefulness.

The usual rotation of workers was maintained, and monthly reports submitted on each and all of these workers and helpers. This involves a great deal of work for the heads of departments, but is a very valuable contribution to the understanding of each patient, and often leads to better adjustment.

The usual day-to-day recreational activities were followed according to season. Special events were the afternoon parties for the children and evening dances for the workers on New Year, St. Patrick's Day and Hollowe'en (the latter in masquerade), the Christmas concert (afternoon and evening) and the Christmas trees. For these activities the gymnasium (so called), our only recreation room, is very crowded and becomingly increasingly inadequate for our needs. At New Year the total number of patients taking part was 138, at Hallowe'en 150, for the Christmas concert 180 were present in addition to visitors, and about 190 enjoyed the Christmas trees. Over 100 attended the 16 mm. silent film shown on Friday evenings during the winter months. Fifty-eight patients attended the Red Deer Fair in July without charge, being given free rides by courtesy of the management, and admitted free to the grandstand. Some 30 had a most enjoyable afternoon as the guests of the Mother Superior and Sisters of St. Joseph's Convent.

Practically all groups contributed to the Christmas concert both schoolrooms, the Sunday School, the Scouts, the high grade girls, the physical training class, etc.—but having to repeat the concert both afternoon and evening because of the lack of accommodation in the "gym" is quite a strain on the younger children, and keeps them up long past their usual bedtime.

Healthful as well as recreational were the summer camp, the physical training classes both Spring and Fall, hockey between the Ward III and the Cottage boys and between the Training School and outside groups. There were also the usual walks, hikes, games and other year-round outdoor activities. Twenty-two boys and 16 girls took the physical training classes (one hour, two afternoons a week) in the Spring; fundamental exercises, tumbling, pyramids, etc. The instructors were two of our own staff fully trained under the Dominion-Provincial Youth Training Scheme. In the Fall, the boys' class was discontinued, but an outside instructress was secured for the girls.

A total of 114 (61 boys, 53 girls) attended summer camp, in eight groups, for a week, with another 16 cripples attending odd days. The freedom from institutional routine, the outdoor life and games, the evening bonfire and Friday evening picnic and weiner roast make camp one of the highlights of the year for those who go. Owing to the weather our Sports Day, after a number of tentative attempts, had finally to be abandoned.

On the moral and character building side, 85 children (37 boys, 38 girls) attended the five Sunday School classes each Sunday except for the summer months. Scouts and Cubs, Guides and Brownies, have been temporarily suspended since Fall owing to staff changes and shortage of suitable leaders; but whilst they continued, these activities made a valuable contribution to the welfare of the patients. The Brownies, in February, attended a rally in Red Deer, and had a most enjoyable time.

At various times a total of 42 patients were out for holidays for varying periods, with parents or friends.

I can hardly close this section without reference to the visit of the King and Queen during May and June and the delcaration of war in September. At all times the grade school children and the larger boys and girls get great pleasure from their radios, the boys particularly so in listening to the broadcasts of hockey matches and prize fights, but the interest and enthusiasm of all at the time of the Royal Visit was astonishing, and their interest in the events of the war is really surprising.

#### STAFF CHANGES AND ACTIVITIES

There were many staff changes during the year. Thirteen of the female staff resigned, 2 male attendants transferred to the Provincial Mental Institute staff, and 1 other member of the male staff was dismissed. Five of the nursing staff who resigned did so to get married. As 2 were charge nurses, 1 a general graduate and 1 had amlost completed her final year of training, this left us short of seasoned staff. One second year student nurse left to enter Normal School. One mental deficiency graduate left to take up physical training under the Dominion-Provincial Youth Training Programme. One of the teachers left to be nearer home. One domestic resigned, dissatisfied at not being promoted. The others were employees who left soon after joining the staff, not caring for the work. One temporary employee on the farm left to join the Army.

For almost four months we were without the services of our senior attendant owing to illness.

Early in December Mr. Elgood, who has been Bursar for the past 19 years, was granted sick leave on account of an eye condition. It is possible we may lose his very valuable services.

In June, 3 nurses and 1 attendant qualified as mental deficiency graduates, 5 nurses passed into the senior class, and 3 nurses and 1 attendant into the intermediate class. One attendant failed, and is repeating his year along with 5 nurses and 2 attendants of the junior class.

The local branch of the C.S.A. of A. continues to look after the social activities of the staff, and many enjoyable evenings and outings were arranged, as well as farewell parties and banquets.

In the Spring and Fall a number of the female staff attended physical training classes held at the Training School, two nights a week.

Once again I have to record with deep appreciation the continued interest of the staff in the patients. Many voluntarily attended patients' picnics and cam-fires, took some of the patients for outings and special treats in their off-duty time, and in many other ways showed a kindly and friendly interest in them, apart from their regular duties.

In connection with the war effort, 8 of the staff have been taking the St. John Ambulance course in Red Deer, 1 for her medallion and 3 for their vouchers.

#### INSTITUTIONAL PROGRESS

#### Construction and Acquisitions.

Late in the year the J. J. Gaetz house and property immediately adjoining our own farm were acquired for the use of the Training School. This comprises a well built brick house, with splendid water supply, self-contained lighting and pumping units, and capable, when altered, of housing 18 patients and 2 staff; a large barn and other essential farm buildings, with three-quarters of a section of land, less 40 acres. Reorganization of the basement of the house to provide toilets, bathroom, showers, etc., is under way, the roof has been insulated, 2 of the bedrooms re-arranged, a hardwood veneer laid on the third floor, and many other minor changes are in course. The barn and outbuildings will be dealt with later. The land, which is leased, we do not take over until April, 1940. Much of i is covered with rough timber, and is of little use, but there is at least a quarter section of good farming land and considerable pasture. The acquisition of this property should eventually make us entirely self-supporting for all farm produce, will keep many of the larger boys happily occupied, speed up their training, and should lead to a larger discharge rate.

In July the erection of a new unit was begun, designed to accommodate 30 to 40 patients of the infirmary type on the ground floor and about 32 girls of sense training and grade school age on the upper floor. By the end of the year the exterior of the building had been completed and the ground floor practically completed, as planned, leaving the upper floor unfinished.

To provide a more efficient water suuply for all the older units of the institution, as well as the new unit, and at the same time to centralize the boiler room operations, a new 6" water line was led from the city system to the power-house, where a new pumpingroom has been built to replace the old pump-house at the foot of Fifth Street hill.

A new lighting and power line was run from the boiler room to the barns to enable us to do our own grinding. Patients did most of the heavy spade work and shovel work.

An additional fire hydrant was installed between the new unit and the boys' cottage.

#### Maintenance.

One of the old boilers in the power house having been condemned, it was replaced by a new Vickers-Keeler water-tube boiler of 100 h.p. and 150 lbs. w.p. This involved considerable remodelling and some extension of the plant.

Increased radiation was installed in the patients scullery and staff dining-room in the main building and in the laundry checkroom.

Owing to water from the bathroom showers in the boys' cottage getting behind the tiles and rotting the studding, the tiles were removed, the studdings refooted and reinforced with concrete, part of the floor relaid, and an additional drain installed.

Another 100 feet of cement sidewalk was laid between the main building and the boys' cottage, completing the replacement of the old wooden one.

The usual painting and replastering, retarring of roofs, repairing of furniture and general maintenance work was attended to throughout the year.

#### Grounds.

The approach to the main building was greatly improved in appearance by taking down the wolf-willow hedge at the entrance, fencing in about half an acre of rough ground, and turning it into lawn and flower beds.

#### Vegetable Garden.

Table 17 gives the comparative yields for the past three years. With the exception of potatoes and cauliflower, the yields were all very satisfactory. The potato failure was general all through this part of the Province. Five hundred bushels had to be brought in during the Fall to supplement our own crop.

#### Farm.

In June Mr. Farrow, an experienced farmer, took over the management of the farm and the training of the boys in practical farm work has been greatly speeded up. Acreages and yields are given in Table 17. With the exception of one lot of barley, which was sown late on rented ground and caught by frost in the Fall, splendid crops were harvested. One 10-acre plot of Garnet yielded 353 bushels of wheat; 10 acres of Red Bobs yielded 351 bushels, and another 6 acres of Garnet, 322, or 53.6 bushels to the acres, and all of these of a very high grade.

Hog production was very successful. In addition to our meeting all our own needs, we sold 18 (7 selects) during June, October and November, and netted \$291.26. Our 5 cows produced 46,673 lbs. of milk. Egg production totalled 1,670 dozen. Rather more than three-quarters of a mile of fencing was done, and kept 3 boys busy helping. The proposed pig pens were not built in anticipation of taking over the J. J. Gaetz farm next year. Owing to the open Fall, gravel hauling continued until well into December, and kept a number of boys busy.

#### Laundry and Sewing Room.

Tables 15 and 16 show the work done in these sections. The laundry has always been hard to keep cool in the hot summer weather. Since the installation of the new mechanical drier the excessive heat has had a prostrating effect on those working there, more especially the younger, less-enured patients. A really efficient exhaust fan in the ceiling is urgently needed.

#### Kitchen and Pantry.

The work of the kitchen has been very satisfactory. Table 18 indicates some of their special activities. The berry-picking and making of preserves provides an outlet for many groups of female patients.

#### Extra-Institutional Activities.

A number of psychiatric cases were seen during the year in conjunction with outside doctors. All cases of mental deficiency requesting or brought to the Training School for examination were referred to the Mental Hygiene Clinic, now held every two months in Red Deer. Phenobarbital has been sent to 5 cases of epilepsy to prevent mental deficiency, where the cost of treatment has been beyond the parents.

Addresses on various aspects of psychiatry or mental hygiene have been given during the year to Women's Institute meetings at Lacombe, Sylvan Lake, Balmoral, to the Red Deer Junior Board of Trade, Red Deer Rotary Club, and at the Child and Family Welfare Council's "Children's Week" in Calgary.

Prof. H. Smith's Psychology Class from the University visited the Training School early in the year. They were shown through, various phases of the work were explained, and cases shown to them.

The class of post-graduate nurses from Ponoka visited the Training School in June, got a general impression of the institution, and a number of clinical cases were presented.

Miss Ruth Hughes, Social Service worker for the Mental Hygiene Clinic along with Miss I. Munroe and Miss M. Frost spent several days at the Training School in July and did many useful practice psychometrics.

Amongst the many visitors to the Training School (apart from relatives of the patients), were Dr. Griffin, Acting Chairman of the National Committee for Mental Hygiene for Canada; Mr. McKinnon, a Social Service worker from Nova Scotia; Mr. P. L. F. Riches, Principal of the High School and Superintendent of the Public Schools at Medicine Hat; who visited the schoolrooms; and Miss Limback, teacher of the mental defectives at Weyburn Mental Hospital, Saskatchewan. Mr. R. R. Moore, Deputy Superintendent of Insurance and an insurance agent made a very thorough and careful inspection of all buildings and premises in April, witnessed a fire drill and submitted a report with recommendations to the Provincial Secretary.

The Visiting Board, at the request of the Minister of Public Health, made a tour of inspection in December.

Mr. W. D. Stacey, Superintendent of Buildings and Dr. M. R. Bow, Deputy Minister of Public Health, also visited a number of times, officially.

#### Recommendations.

The erection of the new unit gives point and urgency to a number of problems that have gradually been obtruding themselves for some time past.

We can only just accommodate our present nursing staff on the fourth floor of the main building. To make room for the additional staff needed for the new unit, we shall have to take over space now occupied by patients, to that extent nullifying the advantages of the new unit. A nurses' home where the staff can get right away from the proximity of patients when off duty is one of our most urgent needs.

The laundry will need more washroom space, another mechanical drier and an additional maid to cope with the increasing work.

A combined roothouse, carpenter shop and paint shop would simultaneously solve several problems. Our present roothouse is old, is barely adequate for our present needs and will not house the yields we are planning for our increased population. If built where the boys' allotments are now, it would be a quarter of a mile nearer the main building, much time would be saved going to and fro, the boys working there would be under much better supervision and there would be less tendency to wandering and mischief. The carpenter shop takes up room in the power house needed for the new generator, the engineers workshop and the Chief Engineer's office. These latter two are still in the sub-basement of the main building-not only inconvenient and disadvantageous but a fire hazard strongly objected to by the Fire Insurance Inspectors in their report. The work of the carpenter shop (especially the boys' classes) is greatly hampered for lack of room. The senior and junior boys' classrooms ought to be in the one building and distinct from the carpenter's own shop. If this were done, it would release a much needed schoolroom in the boys' cottage.

A proper recreation building is another very urgent need. Our present room ("The Gym") is proving increasingly inadequate for many of our activities, as I have indicated in the body of this report. It is also only a question of time until it will have to be taken over by the kitchen, and the "gym annex" by the stores, which need more space, better ventilation and additional refrigeration.

All these and other needs I have submitted in detail elswhere a milk-house and pasteurizer, an addition to the greenhouse, another tubular fire escape for the main building (also recommended by the Fire Insurance Inspectors), a small mortuary, etc.

#### Thanks.

I would like again to record my gratitude to the doctors in Red Deer who have all given freely of their time and effort to lecturing the nurses; to the Red Deer Fair Board for their generosity to the patients; to the Red Deer Rotary for substantial gifts of toys at Christmas.

I would also like to record my appreciation of the helpful cooperation received at all times from Mr. W. D. Stacey, Superintendent of Buildings, Mr. E. J. Kibblewhite, and the various Mental Hygiene Clinics and, as always, the helpful advice and support of Dr. M. R. Bow, Deputy Minister of Public Health.

#### TABLE No. 1

#### MOVEMENT OF FEEBLE-MINDED POPULATION

Defectives on books of Institution at January 1st, 1939:

In the Provincial Training School, Red Dee	r. Alb	oerta		Male 111	Female 103	e Total 214
ADIMISSIONS:	Male	Female	Total			
First admissions—voluntary     Re-admissions     Transfers	8	2 1	10 1			
Total number of admissions	-	-	-	8	3	11
Total number of defectives on the bo	oks d	uring 19	39	119	106	225
OUTGOING:	Male	Female	Total			
1. Paroles 2. Transfers—P.M.H., Ponoka 3. Deaths	5	2	7			
3. Deaths Total number of outgoing	-	-	-	7	3	10
Defectives on books of the institution at Dece	mber	31st, 193	9	112	103	215

#### TABLE No. 2

#### RESPONSIBILITY FOR MAINTENANCE OF PATIENTS IN RESIDENCE AT DECEMBER 31, 1939

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 Wards of Department of Pensions and Health, Ottawa Wards of the Dominion Government	$     \begin{array}{r}       146 \\       31 \\       2 \\       2     \end{array} $	Percentage 14.42 67.91 14.42 .93 .93 .93
Wards of the Dominion Government Wards of the Official Guardian, Provincial Government		.93 .46
Total	215	

#### TABLE No. 3

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

Mental Status	Adn M.	First nissi F.	ons T.	Re-ad M.	mise F.	sions T.	Tr. M.	ansf F.	ers T.	M.	F.	T.
Idiot	3		3							3	-	3
Imbecile	1	2	3							1	2	3
Moron	2		2		A					2	-	2
Borderline	1		1		1	1				1	1	2
Dull	1		1							1		1
Totals		2	10		1	1			_	8	3	11

#### TABLE No. 4

#### NATIVITY OF ADMISSIONS AND OF PARENTS OF ADMISSIONS

Nativity	Male	Patients Female	Total		arents of e Patien Mothers	ts	Fem	arents o ale Pati Mother	ents
Alberta	6	3	9						
Other Provinces	1		1	2	2	3			
England					1	1	1		1
Scotland							1	1	2
United States				1	1	2	1	1	2
Austria				1	1	2			
Denmark				1	1	2			
Poland	1		1	2	2	4			
Unascertained				1		1		1	1
Totals	8	3	11	8	8	16	3	3	6

#### DEPARTMENT OF PUBLIC HEALTH

		1	Idio	t	Im	bec	ile	M	ore	m	Bor	der	line	]	Du	11	To	tal	s
	Age Group	M.	F.	Т.	M.	F.	T.	M.	F.	Τ.	M.	F.	Т.	M.	F.	T.	M.	F.	1
-9		1		1	. 1		1	1		1							3		
-14				1		2	2	Same.	-	ange I	C. 444.4		and .				1	2	
19		1		1				1		1	1		1	1		1	4		
-24												1	1					1	
		3	-	3	1	2	3		_	2			2		-			-	-

TABLE No. 5b

#### AGE OF POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS Totals F. T. Idiot Imbecile Moran Borderline Dull M. F. T. M. F. T. M. F. T. M. F. T. M. F. Age Group $\begin{array}{ccc} 2 & 5 \\ 5 & 15 \end{array}$ 4 14 3 5 -9 10-14 15-19 20-24 10 25-29 30-34 35-39 13 18 1 1 32 3 40-44 1

#### TABLE No. 6 ENVIRONMENT OF ADMISSIONS

3 1 4 112 103 215

		I	dio	t	Im	bec	ile	Mo	oro	n	Borg	ler	line	D	Dull	
	Environment	$\mathbb{M}$ .	F.	Τ.	M.	F.	Т.	M.	F.	Т.	M.	F.	T.	M.	F.	Τ.
Urban		1		1	1		1				1	1	2			
	Totals	3		3	1	2	3	2		2	1	1	2	1		1

#### TABLE No. 7 RELIGION OF ADMISSIONS

	I	dio	t	Iml	bec	ile	Mo	ror	1	Bord	lerl	ine	D	ull	
Denominations	M.	F.	Т.	M	.F.	Т.	M.	F.	Т.	M.	F.	T.	M.	F.	Т.
United Church					2	2				1100					
Church of England			11.11		****					1	1	2			
Roman Catholic	1	our	1										· ·····		
Greek Catholic													1		1
Presbyterian		-	1011	1		1		-	·						
Lutheran	1		1				1		1						++++
Pentecostal	1		1				max.							má	100
Unascertained							1		1						

#### TABLE No. 8

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

	I	dio	t			ile		oro		Borg			D	Jull	
Economic Condition	M.	F.	Т.	M.	F.	Τ.	M.	F.	Т.	M.	F.	Τ.	M.	F.	Т.
Comfortable Marginal Dependent	2		2		1	12	2		2						1
Totals	-	-		-	- 0			-	-	-		-		-	

#### TABLE No. 9

#### OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

A-PAROLES

					2 m	C 2311/	OTTEN						
		diot			ibec			More			derl		Years in
Age Group	M.	F.	T.	M.	F.	Т.	M.	F.	T.	M.	F.	T.	Residence
5-9							1		1				0/2
10-14			8100	1		1	1000			1000		1111	1/0
							1		1				3/3
20-24			****				1	-	1	10.0		ain.	5/7
										1		1	3/6
								1	1				6/1
									****		1	1	6/1-25/8
				в	-T	RANS	SFER	s					
35-39	1		1										10/9-10/9
					C-	DEA	THS						
Causes of Death													
General Debility		1	1										13/2
Status Epilepticus				1		1							7/10-21/0
	-		-		-	-		-			-	-	
Totals	1	1	2	2		2	3	1	4	1	1	2	57/5

#### TABLE No. 10

SOME OF	THE	TYPES	IN	RESIDENCE	
---------	-----	-------	----	-----------	--

	I	diot	t.		bec			oran		Tot:		
Classification	M.	F.	T.	M.	F.	Т.	M. 1	F. T	. M.	F.	T.	Percentage
Infirmary Type: (a) Physically Helpless (b) Mentally Helpless M.D. and Epileptic M.D. and Psychopathic M.D. and Psychotic Mongols and Mongoloid	23 14	26	49 25	4852 8	354214	$7 \\ 13 \\ 9 \\ 4 \\ 1 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\$	3	6 2 2	31 9 22 2 2	10 31 21 4 5 5	$27 \\ 62 \\ 43 \\ 6 \\ 5 \\ 16 \\ 16 \\ 16 \\ 16 \\ 10 \\ 10 \\ 10 \\ 10$	$12.55 \\ 28.84 \\ 20.00 \\ 2.8 \\ 2.32 \\ 7.44$
Totals	52	47	99	27	19	46	4	10 1	1 83	76	159	73.95

TABLE No. 11 APPLICATIONS AWAITING ADMISSION Male Female Total

Male Female Total

11	ture r	cunture					
Applications dated prior to 1931	7	9	16	Applications dated: 1936	16	15	31 29
Applications dated: 1931 1932	21	32	53	1937 1938 1939	. 19	13 23	32 46
1933 1934 1935	2 6 19	2 11 15	4 17 34		115	102	217

#### TABLE No. 12

#### KNOWN DEFECTIVES

Male Female Total

Male	Femal	e Total		Male I	Female	Total
Reported prior to 1929           Reported during:           1929         23           1930         17           1931         18           1932         5	16 18 5 6	269 39 36 24 11	Reported during: 1935 1936 1937 1938 1939	19 19 24	7 5 17 14 21	$     \begin{array}{r}       18 \\       24 \\       36 \\       40 \\       42     \end{array} $
1933 <u>6</u> 1934 5	11 11	$\frac{17}{20}$	Total			576

#### TABLE No. 13

#### EUGENICS SUMMARY

EUGENICS SUMMART	Male	Female	Total
A.—Training School Cases: Presented and approved (P.T.S.) Presented and approved (Out-Patients)	$50 \\ 1$	61 1	111 2
Totals	51	62	113
Operations Paroled, Transferred, etc.	$39 \\ 24$	55 35	94 59
In Residence B.—Sterilized before Admission Paroled, Transferred, etc.	15 1	20 29 15	35 30 15
In Residence C.—Total in Residence Percentage of Population—23.25.	$\frac{1}{16}$	14 34	15 50

#### TABLE No. 14

#### STAFF, DECEMBER 31, 1939

	Male	Female	Tatal
Medical Superintendents	1		1
Medical Superintendents Social Workers-Voluntary	1		1
Dentists—Part time	1		1
Dentists-Part time		1	1
Teachers, Grade		2	2
Teachers, Special Subjects (both P.T.S. Grads.)	1		1
Bursars		2	2
Stenographers	2		2
Clerks		3	3
Kitchen Staff		2	2
Dining Room Staff		3	3
Laundry Staff		2	2
Sewing Room Staff	1111	-	1
Gardeners	1		1
Farmers	1		1
Matrons		1	1
Assistant Matrons and Surgery Nurses		1	1
Night Supervisors		1	1
Night Supervisors			
Other Registered Nurses	1	3	4
P.T.S. Graduate Nurses	4	13	17
Student Nurses		2	2
Ward Maids	6		2 6 3
Boiler Room Staff, D.P.W.	3		3
Maintenance Staff, D.P.W.	_	-	
	22	36	58
Totals		50	

TADLE No. 15

	ABLE		
SEWING ROOM-SUMMARY OF	ARTI	CLES MADE AND REPAIRED IN 1	939
Articles Q	uantity	Articles	Quantity
Aprons: White, Gingham, Denim,		Hospital Gowns	
Burlap	234	Kneelers	
Bags. Laundry	22	Mats, Bath	22
Bandages	5	Napkins	
Bed Jackets	119	Nightgowns	
Binders	5	Pillow Cases	
Bibs	74	Rompers	
Bloomers	272	Scarves. dresser	
Blouses	16	Serviettes	
Brassieres	60	Sheets	
Caps, Isolation	18	Shorts	
Chemise	142	Slips	10.0
Cloths: Dish 29. Face 195, Tray 10.	234	Suits (Canvas) 2. Sleeves 29. Ti-	
Coats, Barber	3	Strings 24	
Coveralls	77	Table: Cloths 22. Centres 18. Run	
Collars and Cuffs	13	ners 2, Ends 22	. 64
Covers: Bedpan 44, Couch Mattress		Towels: Huck 170, Linen 85, Te	a
4. Dressing 12, hot-water bottle		132	387
2, Pillow 12, Cushion 5, Press 22	101	Uniforms: Nurses	. 140
Curtains	69	Caps	40
Dresses	279	Dining Room	3
Garters	36	Miscellaneous	. 28
Garter Waist	9 8		
Gym Suits	8	Total number of articles manufac-	
Halters	7	tured	3.764
Handkerchiefs	72		53,399
Manufactured		1934 1935 1936 1937	1938
Demaland		42,495 43,272 52,597 56,491	57,569
Repaired		3.204 2.958 2,771 3,725	4.006

TT A	DT	12	Ma	30
112	DI	a Ea	No.	10

LAUNDRY 1935 1936 1937 1938 1939 326.911 339.790 360.881 362.222 351.923

	a marked	1.00	and and	Torrest	1 mar 1	
- 20	4 T L	IC I	ENS .	Laund	ered	

#### TABLE No. 17

#### FARM AND GARDEN PRODUCE FOR HOME CONSUMPTION

FARM AND GARDEN PR	ODUCI	E FOR HOME (	ONSUMPTION	
Product		1937	1938	1939
Beans	lbs.	1.295	720	655
Beets		5.885	4.500	5.373
Barley	bus.	242	455	729
Cabbage	lbs.	7.630	5,500	6.674
Carrots	lbs.	11,425	11.000	12,456
Cauliflowers	lbs.	1.155	1.024	
Celery	lbs.	725	810	895
Cucumbers	lbs.	295	341	483
Calves, raised			5	4
Eggs	doz.	989	937	1.670
Greenfeed		6.000	4,500	16,000
Hay, Timothy	tons	28	19	9
Lettuce		2.585	2,255	1.705
Milk	Ibs.	3.085.7	27,752.1	46.673
Oats	bus.	1.471	975	360
Onions	Ibs.	865	760	935
Parsnips	lbs.	6,060	5.130	4.891
Peas. green	lbs.	855	2.326	1,123
Pigs, raised			52	31
Pork, dressed	lbs.	6.597	3.924	5.233
Potatoes		92.220	106,170	32.840
Poultry, dressed	lbs.	109	10616	200
Radish	Ibs.	280	555	337
Rhubarb	Ibs.	1.515	3.143	1.868
Spinach		1.481	1.430	1.330
Swiss Chard	lbs.	1.460	2.045	1.110
Sugar beets	lbs.		10.800	
Tomatoes	lbs.	670	316	
Turnips	lbs.	18.745	21.665	20,300
Veal	lbs.			260
Vegetable Marrow	lbs.	1.015	959	
Wheat	bus.	356	195	1.026
		0.00		
and the second	ACREA	GES		
Barley	40	Potatoes		
Greenfeed	15	Vegetables		
Hay	13			
Oats	40	Camp and Barn	S	
Pasture, tame	20	Gardens and La	wn	10
Pasture, wild	55			

#### TABLE No. 18 HOME CANNING

Varieties Vegetables: Beans Pickles Fruits: Pears Rhubarb Jams

Quantity 140 qts. 52 qts. 200 qts. 138 qts. 66 qts.

# Division of Tuberculosis Control

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

The Division of Tuberculosis has carried on its work along the same lines as last year. It is recognized that in this report which aims to present a record of anti-tuberculosis work of the year, much credit is due to various agencies other than those of the Health Department. The medical profession, the hospitals and the nursing profession, as well as numerous non-professional groups have all assisted in the diagnosis of new cases of disease and in spreading valuable information.

The work undertaken comprises the institutional treatment of the sick, the treatment of certain out-patients at pneumothorax clinics, the operation of diagnostic clinics, a follow-up of discharged patients and contacts, the maintenance of a central registry of tuberculosis for the Province, the supplying of tuberculin to physicians and hospitals, the interpretation of X-ray films submitted, educational work through talks, prepared papers, and lectures to medical students in the University.

#### Patient Days in Sanatoria.

The total patient days numbered 139,909, which is an increase of 5,854 or 4.3% over 1938. The average daily patient strength was 383. The average length of treatment of patients discharged was 440 days.

#### **Out-Patient** Department.

Ninety former sanatorium patients received 1,283 pneumothorax treatments at four different centres. In numerous instances these patients are quite well and working, while they continue with this specific type of treatment.

#### Diagnostic Clinics.

The discovery of those suffering from this infectious disease is an essential step in its control. Stationary clinics have been maintained at 13 points, and 261 sessions conducted. The Travelling Clinic visited 55 other points and conducted 1,002 examinations. These clinics discovered 276 new cases of tuberculosis, or 62.6% of the new cases reported during the year. Definite planned effort does yield results in the discovery of those sick.

One in 13, or 7.6%, of those examined for the first time were found to have tuberculosis. Forty-two per cent. of the new examinations gave a history of contact with tuberculosis. If Treaty Indians be omitted, the rate of the number of new cases diagnosed to the number of deaths in the Province is as 2.8 to 1.

SOURCES OF DISCOVERY OF NEW CASES OF TUBERCULOSIS

Clinics Referred to Sanatoria by Physicians Provincial Laboratory Provincial Board of Health School Surveys Others	1938 290 109 24 18 10	% 64.3 24.1 5.3 4.0 2.2	$     \begin{array}{r}       1939 \\       276 \\       107 \\       29 \\       13 \\       9 \\       7     \end{array} $	% 62.6 24.3 6.6 2.9 2.0 1.6
	451		441	

These 441 cases were classified as follows:

Active Pulmonary Tuberculosis	
Inactive Pulmonary Tuberculosis	
Non-Pulmonary Tuberculosis	

Sixty-nine per cent. of those with active pulmonary tuberculosis had been admitted to sanatorium for treatment up to December 31st.

STAGE OF DISEASE OF 405 NEW CASES OF PULMONARY TUBERCULOSIS

151	Approximately 37%
114	Approximately 28%
116	Approximately 29%
24	Approximately 6%
	114 116

#### School Surveys.

Normal, Technical and High School students numbering 1,269 were tuberculin tested, and the reactors X-rayed and examined where indicated. Reactors to tuberculin were 15.2%, and 9 new cases of minimal tuberculosis were found. Of these 9, 3 were considered to have active disease requiring treatment.

#### Indian School Surveys.

There were 1,233 children, comprising 12 schools, checked over and X-rayed. Twelve new cases of tuberculosis were found.

SUMMARY OF CLINICS AND SURVEYS	
Clinic Examinations	4,486
School Surveys Indian School Surveys	1,269 1,233
Others	44
Total Examinations	7.032

There were 2,590 new patients at the clinics, the remainder being review cases.

#### Treatment of Indians.

It has been the policy of the Department of Indian Affairs to keep the Residential Schools surveyed free from gross tuberculosis by transferring all such to sanatorium or hospital beds. During the year this Division gave institutional treatment to 32 Indians, of whom 15 were still in sanatorium on December 31st. It is found that these children respond to treatment very satisfactorily.

There is still much to be desired in the Indian tuberculosis problem, since very little is being done for those of pre-school and post-school ages. It appears that no great reduction can be expected in the present Provincial tuberculosis death rate until competent therapeutic and preventive measures are made available to the Indian population. It has been well demonstrated that established preventive measures are effective among the Indians just as they are among the non-Indian population.

#### Tuberculosis Registry.

This department serves a very useful purpose in recording all those with tuberculosis, and in keeping such records that reexaminations are carried out at the proper time.

#### Supply of Tuberculin.

Tuberculin in proper dilution has been supplied periodically to nursing training schools, to a number of hospitals, to Health Units, and to private physicians.

#### Dental Service.

Dr. H. Ross, Provincial Dentist, examined 691 patients, of whom 473 were given treatment.

#### Mortality Rate.

The total reported deaths from tuberculosis numbere 283; of these, 162, or 57%, were among Treaty Indians and Metis, while 121 deaths, or 43%, were among those of other racial origin. If we exclude Treaty Indians from the statistics, we find that the tuberculosis death rate in Alberta was approximately 15 per 100,000 of population. This is the lowest rate yet recorded in this Province. The gross tuberculosis death rate was 35.9 per 100,000 of population.

#### Educational Work.

Dr. G. R. Davidson, physician in charge of the Edmonton Branch, gave a course of lectures and clinics to Fifth Year Medical students.

#### Formation of the Alberta Tuberculosis Association.

A forward step was taken in June when representatives of various organizations which undertake the sale of Christmas seals, met at the Sanatorium to consider plans for greater anti-tuberculosis work. It was decided to study the situation further, and to meet again in September. At this latter meeting in Calgary, an Alberta Tuberculosis Association was formed. Mr. E. C. Shaughnessy of Edmonton was elected President and Mr. D. A. Chertkow of Drumheller Secretary. The Association plans to continue, through its component club members, the annual seal sale, and with the funds made available to engage in definite anti-tuberculosis work.

The organizations taking part in the seal sale were as follows: The Kinsmen Club of Edmonton, The Kinsmen Club of Calgary (which has taken over the work of the Calgary Tuberculosis Society), The Lethbridge Nursing Mission, The Kinsmen Club of Drumheller, The Rotary Club of Red Deer, The Rotary Club of High River, The Rotary Club of Cardston, The Seal Sale Committee of Medicine Hat.

#### Appreciation.

In conclusion may I express my appreciation of the valuable help given by the Hon. Dr. W. W. Cross, Minister of Health, and Dr. M. R. Bow, Deputy Minister. Grateful acknowledgement is also made of the loyal and conscientious service rendered by the staff of the Division, both in Calgary and Edmonton. It is a pleasure also to express the thanks of the Division to the Superintendents and staffs of the three Edmonton hospitals for the kindly and efficient care rendered our patients.

#### CENTRAL ALBERTA SANATORIUM

The medical services have been enlarged, chiefly by the establishment of a surgical section. Additional operating room equipment was installed. This work is pregressing favourably.

#### Nursing Services.

The additional surgical work has put greater demands on the nursing service, and a slight increase in staff has been necessary.

#### Military Service.

Five members of the staff enlisted in the C.A.S.F. These men are now overseas.

#### Administration.

Total patient days numbered 75,424, which is an increase of 799

over last year. The per diem cost for the fiscal year ending March 31st, 1940, was \$2.418.

It is submitted that owing to increased work, the laundry equipment is inadequate. An urgent need is felt for an additional extractor, for while the washing capacity is 300 lbs. per hour, only 150 lbs. can be put through the extractor.

#### Dietary Department.

Meals served numbered 324,376, at a food cost per meal of \$0.125.

#### School.

The Sanatorium School has served an average number of 40 patients. Public school children, high school students and adults following individual courses have all been served.

#### Educational.

Radio and other talks on tuberculosis were given during the year.

On March 14th the Sanatorium was the scene of the regular meeting of the Calgary Medical Society. Some 50 were in attendance. The programme consisted of talks and demonstrations by the staff, on the diagnosis and treatment of tuberculosis. Pathological and X-ray exhibits were on view.

#### Divine Services.

Regular services have been held, and grateful acknowledgment is made of the valuable contribution made by Rev. Father Mac-Donald, Rev. Father Clancy, Rev. J. M. Roe, Very Rev. H. Ragg, Dr. A. R. Aldridge, and Rev. P. Unterschults.

#### Entertainment.

It is a pleasure to acknowledge the many kind services rendered by the numerous friends of the Sanatorium.

#### DONATIONS AND ENTERTAINMENTS

- CONCERTS—Young Peoples' Alumnae, Play; Hi Ho Club from CJCJ; Excelsior Glee Club; Elks Band; Salvation Army Band; Pro-Cathedral Choir; Red Society, Christmas Concert; Entertainers: Alice Murdoch School of Dancing, Mrs. Naylor, Mrs. Nickle, Mrs. Cane, Mrs. Gammie, and Peter Kirkpatrick.
- PARTIES, Etc.—Picnic for Royal Visit; Garden Party; Hallowe'en Party; Farewell Party for Miss Mills; Military Chapter I.O.D.E., Whist Drive; Recrea-

tion Committee, Whist Drives, Bridge Parties. STAFF ENTERTAINMENTS—Staff Dance, Feb. 27th; Supper Party for Miss Fairley, President C.N.A.; Supper Bridge, Home Economic Club; Staff Picnic,

- TOURNAMENTS—Cribbage Tournament, Billiard Tournament, Croquet Tournament.
- PASSES—The Various Moving Picture Houses; Calgary Exhibition and Stampede; Mr. L. Turner, to hockey matches at Arena.
- DRIVES-Rotary Club.

PICTURE SHOWS-Moving picture shows were given twice a month.

- XMAS, 1939—Ontario Laundry Company, Cigarettes and Candy; Junior Samaritan Club, Cheque; Miss F. Huxley, Cheque; Hon. Lt.-Col. J. H. Woods, Cheque; Canadian Legion, Claresholm, Cheque; Union Milk Company, Ice Cream; Masonic Lodge, Candy; CJCJ, Toys for Children; Red Cross, Gifts for all Patients; Children's Hospital Aid, Gifts for Children; Junior Catholic Women's League, Gifts; Catholic Women's League, Gifts; Military Chapter I.O.D.E., Gifts; Miss C. E. Hawkins, Gifts; Rotary Club, Magazines; Sisters of Ste. Famille, Gifts; Mr. Thomas Elar, Books.
- MISCELLANEOUS—Herald Library, Books; Union Milk Company, Souvenir Mugs for Children; Jeanne Mance Chapter I.O.D.E., Candy.

#### EDMONTON SANATORIA

#### (DR. G. R. DAVIDSON)

The Northern Alberta Section of the Tuberculosis Division wishes to report that the work of caring for the tuberculous sick and the preventive programme for the protection of the well has been maintained throughout the year. The complement of 189 beds of the various Sanatorium sections remained the same throughout the year. The provisions of the Free Treatment for Tuberculosis Act were adhered to, and it was necessary to turn away many cases of non-pulmonary disease.

As was pointed out in last year's report, these sections were built as parts of general hospitals, and do not lend themselves to the best in sanatorium treatment.

The preventive programme consists chiefly of the examination of familial contacts of known cases of disease. Indiscriminate examination of the population is considered time consuming, costly, unsatisfactory and unnecessary. The number of people examined at the various clinics was about the same as the previous year. I think, however, that a larger number of definite contacts were examined.

I wish to thank the various voluntary organizations who so kindly contributed to the welfare of the patients.

My thanks are also due to the Sisters of Charity of Montreal, who operate the General Hospital; Dr. A. F. Anderson, Superintendent of the Royal Alexandra Hospital, and Dr. R. T. Washburn, Superintendent of the University Hospital, for their co-operation in the organization and maintenance of their respective sections.

I also wish to thank the medical staff for their help, the general office staff and the Kinsmen Club nurse for her help with the Central Clinic; also the nurses, especially the graduates, for the interest shown in the patients' welfare throughout the year.

#### DONATIONS AND ENTERTAINMENTS

UNIVERSITY HOSPITAL—Entertainments were given and parties arranged by the Women's Auxiliary of the University Hospital.

ROYAL ALEXANDRA HOSPITAL—Hallowe'en, Valentine, Christmas and Garden Parties were held.

GENERAL HOSPITAL:

Movies and Concerts—Mr. Blythe, 4 in 1 Club with Dr. Bulyea, Rosebud Entertainers, Joyeux Noel Club, Sister Garceau and Hospital Sub-Staff. Play—Dr. Dickie and Normal School Students.

Minstrel Show-Men's Guild of St. Stephen's Church.

Christmas and Hallowe'en Parties were held, also a Carnival and Bingo Party.

Refreshment Donations-Madame Dow.

Donations of Cash, Commodities and Prizes—Campbell, Wilson and Horne; Mike's News Stand; Sun Specialty; Northern Alberta Dairy Pool; Army and Navy Stores; Alberta National Drug Co.; Western Grocers, Ltd.; Gaults, Ltd.; Wilson's Stationery; H. H. Cooper, Ltd.; Ashdown Hardware; Dower Bros., Ltd.; Samuels & Co., Ltd.; 7 Up Bottling Works; Calgary Brewing & Malting Co.; Hudson's Bay Co.; Crescent Furniture Store; National Home Furnishers; The T. Eaton Co.

#### DEPARTMENT OF PUBLIC HEALTH

#### STATISTICAL SECTION

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
Patients under treatment Jan. 1, 1939 Patients admitted in 1939	207 147	$\begin{array}{c} 121\\ 164 \end{array}$	35 18	22 4	385 333
Patients treated 1939 Patients discharged in 1939	146	156	23	15	718 340
Patients remaining in Hospital, Dec. 31, 1939	203	121	35	19	378
Patient days NOTE.—21 patients were transferred from o	75,424 ne institu	44,101 tion to a	12,610 nother.	7,774	139,909

#### CLASSIFICATION ON ADMISSIONS OF 333 PATIENTS WHO ENTERED SANATORIA IN 1939

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
No disease	1	4	5
Undiagnosed	1	3	4
Non-Tuberculous	13	15	28
Tuberculosis, Inactive Non-Pulmonary Tuberculosis	5	25	75
Tuberculosis Pleurisy	5	6	11
Tuberculosis. Childhood Type Pulmonary Tuberculosis:	6	9	15
Minimal	19	14	33
Moderately advanced	40	40	80
Far advanced	57	88	145
	147	186	333
Re-admissions (included above) were (17%)	30	28	58
Sputum positive on admission (51.4%)	78	93	171
Sputum negative on admission (48.6%)	69	93	162
Becoming positive later	1	4	5

#### LABORATORY REPORTS

alay start for these heads and a start of the second of th	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
Sputum: Number of positive examinations Number of negative examinations Urinalysis: Number of examinations Blood Examinations:	$912 \\ 1.877 \\ 2.238$	792 937 2,226	169 263 608	$\substack{110\\135\\21}$	$1,983 \\ 3,212 \\ 5,093$
Blood Counts Sedimentations Guinea Pig Inoculations Other examinations Wassermanns:	$312 \\ 762 \\ 84 \\ 480$	$     \begin{array}{r}       195 \\       559 \\       1 \\       47     \end{array} $	$     \begin{array}{r}       43 \\       52 \\       1 \\       10     \end{array} $	3 52 8	553 1.425 86 545
Positive	177	257			454 
HELIOTHE	RAPY				
Number of patients treated	2,256 	46 544	7 7	8 122	97 3,029
DENTAL R	EPORT				
Number of patients examined Number of patients treated Number of Prophylactic treatments Number of fillings Number of extractions Number of new dentures made Number of dentures repaired Number of denture adjustments	288 200 96 212 107 6 1 14	$230 \\ 195 \\ 106 \\ 203 \\ 104 \\ 5 \\ 6$	108 53 34 52 33 4 6	65 25 19 34 6 	$691 \\ 473 \\ 255 \\ 501 \\ 250 \\ 15 \\ 1 \\ 28$
Number of dentures repaired	1 14				1

#### OPERATING ROOM REPORT

a a b

	Central Alberta Sanatoriun	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
Collapse Treatment:	0 A M	HOM	HAR	рщ	F
1. Pneumothorax: Under treatment Jan. 1, 1939 New cases begun in 1939	90 41	47 36	18 9	9	164 86
Cases under treatment admitted and carried on	8	5	3		16
Number treated during year Number discontinued	139 40	88 38	30 7	9 3	266 88
Under treatment at end of year Number unsuccessfully attempted	99 18	50 10	23	62	178
Pneumothorax refills in 1939 2. Pneumolysis	3.699 12	2.073	481	181	6,434 12
3. Oleothorax refills Intravenous Injections:	15				15
Calcium Chloride	662	248	0.07		910
Calcium Gluconate Glucose and Saline	55	8	367 19	2	367 84
Sanocrysin Neo Salvarsan	332 3				332
Mercupurin			4		4
Aminophyllin Other Treatments:			12		12
Chest aspiration and irrigation Other aspirations	480	80 3		8	568 3
Cystoscopic examinations Injection of Lipiodol in trachea	2 6	1			36
Spinal puncture	4	2	1	1	8
Basal metabolism Drainage of abscess	14 8	17	1		32 8
Pelvic examination	64			2	6 6
Phrenicopraxis	26				26
Orchidopexy (1st and 2nd stages) Removal of gland	2				2
Bronchoscopy Paracentesis of ear drum	7	1			8
Thyroidectomy	î				1
Sinus irrigation Phrenicotomy		2 5		****	2 5
Blood transfusions Appendectomy		3	****		3
Electrocardiagram			1	1	28
Staphylococci toxoid Radium insertion			8 1		1
Tonsillectomy Confinement			1		1
Inductotherm				4	4
Biopsy of lupus Excision of anal fistula				1	1
Hibbs fusion		****			1
X-RAY RE Radiographs Made:	PORT				
Thorax Sinuses	1.805 20	564 2	153	48	2,570 22
Pelvis and hips	15	1	2		18
Leg	22 3	10	4	3	39 3
Shoulder	56	1 2		1	6 9
Foot and ankle	7	ī			8
Skull	$\frac{1}{2}$	****			1 2 5
Hand Thumb	5				5
Wrist	3				3
TeethAbdomen	15 1	2		1	1
Finger Oesophagus	2				21
G.I. tract	34		1		35
G.U. tract	11		2		13 1
	1,960	583	162	53	2,758
Fluoroscopic Examinations				Teres	-
Gas cases	3,541 86	2,220	522 2	265 9	
G.I. tract Chest (Lipiodol)	10		6		
Treatments given	13				

#### DEPARTMENT OF PUBLIC HEALTH

CLINIC FILMS MADE A	AND INTERPRE	TED	
	Calgary	Edmonton	Total
Stationary Clinics	1.662	1.070	2.732
Travelling Clinics	227	361	588
Surveys:			
Technical students	109		109
Normal students	31	62	93
Crescent Heights High School	10		10
Drumheller School Survey	78		78
Indian Schools:			
Blood Reserve Schools (2)	246		246
Peigan School	108		108
Blackfoot Schools (2)	210		210 31 99
Sarcee School	31 99		31
Morley School	99		99
Hobbema School	148		148
Youville School		157	157
Edmonton School		116	116
Blue Quill School, St. Paul		167	167
	2,959	1,933	4,892
Films referred for interpretation	604	368	972

#### CLINIC REPORT, 1939

STATIONARY CLINICS:

New Cases of T.B.

Contacts

Place Bonnyville Calgary Camrose Central Alberta Sanatorium Drumheller Edmonton Hanna Lethbridge Medicine Hat Red Deer Stettler St. Paul Vegreville	261 201 201 201 201 201 201 201 201 201 20	20 37 89 77 11 34 1 143	63   15 1 9 5 2 4 2 6 5 2 1 Juactive	1 21 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Merica Markov Ma	M = N 157 377 1277 388 2994 355 344 269 233 13 18 756	.volumetric variable	surex 102 102 102 102 104 105 106 106 106 106 106 106 106 106
TRAVELLING CLINICS:							11-10-1		
Athabasca	1				12		5		12
Barrhead	2				43	3	32	1	46
Beaverlodge	1		1		11		9		11
Bellevue	1	1111	+0.1		5	4	2	3	9
Berwyn	1				1	1	2		.2
Blairmore	1	****	+164		2	13	1	7	15
Claresholm	1	****	+ + + + +	****	7	3	3	1	10
Clyde	1	1111			7	4	3	2	11
Coleman	1	1			7	1	1		8
Daysland Edson	1				9	2	1		11
No. 1 199	1	1	1		5	16	2	8	21
	1				13	5	3	2	18
Elk Point	1	3	1		43	5	18	1	48
Fairview Faust			1	2	10	8		7	18
0-1-1-1	1	****		2	23	9	19		32
Galahad Grande Prairie	1		2		10	2 5	07	1	12
Hardisty	1	5	2		48 42	5	27		53
High Prairie	1	2	1		29	10	13 10	25	47 39
High River	1				13	21	8	6	39
Hillcrest	1		2		13	6	1	2	15
Innisfree	î				2	13	1	9	15
Irma	î				8	1	4	1	9
Islay	1				15	12	5	14	27
Jasper	î				5	16			5
Killam	î			1	5	1			6
Lac La Biche	î	2		3	26	7	23	5	33
Lamont	2	2		1	31	5	16	1	33
Macleod	ĩ		1		9	2 8	4	6	17
Mannville	î	****			2	2	4	0	4
Marwayne	1				12	2	8	8	14
Mundare	î			****	10	11	5	ŝ	21
Myrnam	î			****	19	3	6		22
McLennan	î	3		1	9	4	3		13
Peace River	1	0	2		33	8	7		41
Pincher Creek	1	1	1		8	11	5	5	19
Provost	1		*		2	1		-	3
	1	****	1413		5	T	1		5
Rocky Mountain House	1	****	1111		8	3	2		
Sevemith		1	1	1010					11
Sexsmith	1	1	1		11	4	6		15

N			New Cases of T.B.					Contacts				
Place	No. of Clinics	Active	Inactive	Non-Pul- monary	New Exams.	Review Exams.	New	Rev.	Total Exams.			
Slave Lake	1				11	11	5	9	22			
Smoky Lake	1				27	3	16	3	30			
Spirit River	1				4	4			8			
Strome	1				5				5			
Trochu	1				11	8	1	2	19			
Valley View	1				3	1			4			
Vermilion	1				1				1			
Viking	1	1			14	4	9	+	16			
Vilna	1	3	1		20	8	13	25	28 30			
Vulcan	1		2	****	15	15	6	5	30			
Wainwright	1				11	8	3	7	19			
Westlock	1	1			5	1	1		6			
Willingdon	1			****	18	11	8	9	29			
								-	-			
	55	27	17	8	714	288	316	137	1002			

#### SCHOOL SURVEYS

Edmonton Normal Calgary Normal Crescent Heights School Drumheller Technical Institute	Number 320 283 122 107 437	New Cases of T.B. Found 1 1 7
	1269	9

Percentage of positive reactors, 15.2%.

#### INDIAN SCHOOL SURVEYS

	Number	New Cases of T.B. Found
Blood Indian Schools (2). Cardston	234	2
Peigan Indian Schools (2), Brocket	108	
Blackfoot Indian Schools (2), Gleichen	177	
Ermineskin Indian School, Hobbema	148	
Sarcee Indian School, Calgary	31	3
Stoney Indian School, Morley	95	3
Blue Quill Indian School, St. Paul	167	3
Youville Indian School, St. Albert	157	1
Edmonton Residential Edmonton	116	1
		-
	1233	12

	SUM	MARY			
	No. of Clinics and Surveys.			of T.B. Found Non-Pulmonary.	Total Exam. & Surveyed
Stationary Travelling School Surveys Indian Surveys Staff, Central Alberta	55 5	$     \begin{array}{c}       143 \\       27 \\       3 \\       12     \end{array} $	63 17 6	18 8 	3484 1002 1269 1233
Sanatorium					44
	330	185	86	26	7032

TABLE I.			Desider			0	n D	ischar	one		
	On Adr	niesion	Resider			0	m D	ischai	Re		
	No.	%	31 days	31 days	Α.	AA.	Q.	I.	U.	D.	
I. No Disease			6						****		
II. Undiagnosed	. 1		1	10				10	5	- 1	
III. Non-Tuberculous			10 10	16				10	3		
IV. Tuberculosis Inactive	. 14		10	4							
			27	20				11	8	1	
	47	14%	-	_		-		-	-	-	
V. Childhood T.B.: Parenchymal											
Tracheo-Bronchial				3			1	2			
Combined	0		1	7			1	6			
	11	31/4%	1	10			2	8			
	-		-			-		_		-	
VI. Adult Type:	-										
(a) Pulmonary Clinical:			1	35		3	9	22	1		
Minimal Mod. Advanced		++++	6	46		2	22	38	4		
Far Advanced	00	++++	3	23	1			8	9	3	
	114	33.5%	10	104	1	5	13	68	14	3	
	114	33.370	10		-	_	_		-	-	
(b) Pulmonary Positive											
Minimal	. 1		1	00			4	17	4	4	
Mod. Advanced				29 106		2	19	44	5	36	
Far Advanced	9		11 3								
Terminal	3		-								
	150	44%	15	135		2	23	61	9	40	
		0.00	1	12		-	-	11	1		
VII. T.B. Pleurisy	. 13	3.8%							_		
VIII. Non-Pul. Tuberculosis .	5	1.4%	2	3				3			
Total Tuberculous	. 293	86%	29	264	1	7	38	151	24	34	
The second s	-			284	7	7	38	162	32	44	
Total "Treated" Patients					-	-			-	-	
"Untreated." not here ove 31 days			56	****				10	33	13	
Connel Total	340		56	284	1	7	38	172	65	57	
Grand Total		-			-	-		-	-	-	

THE FOLLOWING TABLES REFER TO 340 PATIENTS DISCHARGED DURING 1939 TABLE I.

Explanation of Abbreviations and Terms used: The standard of classification is that of the National Tuberculosis Association. "Minimal", "Moderately Advanced" and "Far Advanced" refer to anatomical extent of disease. "A" Arrested, "AA" Apparently Arrested, "Q" Quiescent, "I" Improved, "U" Unimproved, and "D" Died. NOTE.—Only those in residence over 31 days are classed as "Treated".

II.—CLASSIFICATION ON DISCHARGE OF 261 "TREATED" CASES OF PULMONARY TUBERCULOSIS:

TOBLICOBODIO.		On Di	scharge	-
On Admission	Number.	Improved.	Not Improved.	Died.
Tuberculous Pleurisy	12	11	1	
Childhood Type		10		
Adult Type: Minimal Moderately Advanced Far Advanced	35	34 63 76	1 8 14	4 39
	261	194	24	43

## III.-CLASSIFICATION ON ADMISSION OF 340 DISCHARGED PATIENTS:

No Disease	Central Alberta Sanatorium 1	Edmonton Sanatoria 5	Total 6
Undiagnosed Non-Tuberculous	13	1 13	26
Tuberculosis: Inactive Pulmonary—Active Non-Pulmonary	$\begin{smallmatrix}&12\\119\\1\end{smallmatrix}$	$\begin{smallmatrix}&2\\169\\&4\end{smallmatrix}$	$\begin{smallmatrix}&14\\288\\5\end{smallmatrix}$
Non's unionaly	146	194	340

172

.

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Bronchogenic Carcinoma		2	4
Bronchiectasis		3	3
Cystis Disease Duodenal Ulcer		1	1
Foreign Body in Lung Secondary Lung Malignancy		1	1
Pleural Empyema			2
Pulmonary Congestion		1	1
Pulmonary Abscess Pulmonary Fibrosis		1	1
Pleurisy			1
Pneumonokoniosis Pneumonia		1	2
Sarcoma of Prostate		1	1
Sarcoma of Thorax Gonorrhoea		1	1
	13	13	26
SEX:	15	10	20
	Central Alberta		
	Sanatorium	Sanatoria	Total
Male Female		79 115	151 189
remate			
L-SOCIAL:	146	194	340
ISOCIAL.	Central Alberta	Edmonton	
	Sanatorium	Sanatoria	Total
Single		102 79	176 138
Married Widowed		9	18
Separated or Divorced		4 .	8
	146	194	340
IIRELIGION:			
	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Baptist		11	15
Church of Christ			1
Church of England Evangelical		19	39 1
Greek Catholic		17	23
Greek Orthodox		7	10
International Bible Student		1	î
Hebrew	1	1	1
Latter Day Saint Lutheran	19	19	38
Methodist		2	4
Mennonite Nazarene		1	1
Pentecostal	17	2 9	26 26
Roman Catholic		56	87
Salvation Army		2 38	2 72
United Undenominational	4	9	13
Chachonna and	and the second se	194	340
III.—AGE ON ADMISSION:	146	154	010
m. nub on nonitoritor	Active T.B. N	on-T.B., Inactive	Total
From 1 to 9 years		3	14 22
From 10 to 14 years From 15 to 19 years	21 34	1 5	39
From 20 to 29 years	115	7	122 56
From 30 to 39 years	43	13 5	48
From 40 to 49 years From 50 to 59 years	20	7	27
From 60 to 69 years	3	5	8 4
From 70 to 80 years			
A A A A A A A A A A A A A A A A A A A	293	47	340
XOCCUPATIONS-WOMEN:	Active T.B. N	on-T.B., Inactive	Total
Housewife		11	99
Housework		2	14 9
Nurse Nurse-in-Training			5
Religious			1
Stenographer	4	3	2 26
Student Seamstress			1
Saleslady			1 4
Teacher			1
Waitress			
Waitress No Occupation (at home)		8	26

Accountant	Active T.B.	Non-T.B., Inactive	Tota 2
Advertising Solicitor			2
Blacksmith	. 1		1
Carpenter	. 2		2
Carton Maker			1
Clerical Worker		****	1
Chemical Engineer Conductor			1
Farmer		11	47
Fireman			1
Gardener			1
Janitor			1
Labourer		2	22
Mechanic		1	2 2
Painter Porter			1
Printer			î
Priest			î
Physician	. 2		2
Miner (Coal)	. 2	2	4
Road Supervisor		- 1	1
Salesman (In Store)	. 3	1	4
Salesman (Outside)			29
Student		1	20
Steamfitter Teacher			3
Frapper			3
Truck Driver			2
Waiter		****	2
Yardman		1	1
No Occupation (Children)		2	2
NATIVITY	128	23	151
-NATIVITY	Active T.B.	Non-T.B., Inactive	Tota
Alberto	129	16	145
Alberta Canada (Other Provinces)		16 11	$     \begin{array}{r}       145 \\       59     \end{array} $
Alberta Canada (Other Provinces) Austria	. 48		
Canada (Other Provinces)	. 48 . 2	11	59
Canada (Other Provinces) Austria Belgium China	48 2 1	11	59 2 1 1
Canada (Other Provinces) Austria Belgium China Denmark	48 2 1 3	11 	59 2 1 1 4
Canada (Other Provinces) Austria Belgium China Denmark England	48 2 1 3 14	11 1 1 2	59 2 1 1 4 16
Canada (Other Provinces) Austria Belgium China Denmark England Ireland	48 2 1 3 14 4	11 	59 2 1 1 4 16 5
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy	48 2 1 3 14 4 1	11 1 1 2 1	59 2 1 4 16 5 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia	48 2 1 14 14 1	11 1 1 2	59 2 1 4 16 5 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany	48 2 1 14 4 1 1	11 1 1 2 1 1	59 2 1 1 4 16 5
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary	48 2 1 14 14 1 1 1 2 1	11 1 1 2 1 1 1 2	59 2 1 4 16 5 1 2 3 2 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland	48 2 1 14 14 1 1 2 1 1 14	11 1 1 2 1 1	59 2 1 4 16 5 1 2 3
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway	48 2 1 14 14 1 1 1 2 1 14 7	11 1 1 2 1 1 1 2	59 2 1 4 16 5 1 2 3 2 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania	48 2 1 14 4 1 1 1 1 2 1 14 7 1	11 1 1 2 1 1 2 5	59 2 1 4 16 5 1 2 3 2 1 9 7 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia	48 2 1 14 14 1 1 1 2 1 1 14 7 1 5	11 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	59 2 1 1 4 16 5 1 2 3 2 1 19 7 1 6
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland	48 2 1 14 14 1 1 1 2 1 1 14 7 1 5 5 15	11 1 1 2 1 1 2 5	59 2 1 4 16 5 1 2 3 2 1 9 7 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland	48 2 1 14 4 1 1 1 2 1 14 7 15 15	11 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	59 $2$ $1$ $4$ $16$ $5$ $1$ $2$ $3$ $2$ $1$ $19$ $7$ $1$ $6$
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland	48 2 1 14 14 1 1 1 2 1 1 1 5 15 15 1 3	11 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	$59 \\ 22 \\ 11 \\ 44 \\ 165 \\ 51 \\ 23 \\ 22 \\ 19 \\ 77 \\ 16 \\ 16 \\ 16 \\ 16 \\ 26$
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland Sweden United States	$ \begin{array}{c}     48 \\     2 \\     1 \\     1 \\     4 \\     1 \\     3 \\     3 \\     2 \\     2 \\   \end{array} $	11 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	$59 \\ 2 \\ 1 \\ 4 \\ 16 \\ 5 \\ 1 \\ 2 \\ 3 \\ 2 \\ 1 \\ 19 \\ 7 \\ 1 \\ 6 \\ 16 \\ 16 \\ 16 \\ 2 \\ 2 \\ 2 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ $
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland Switzerland Switzerland Switzerland Switzerland Switzerland	$ \begin{array}{c}       48 \\       2 \\       1 \\       14 \\       1 \\       3 \\       32 \\       2 \\       2 \\   \end{array} $	11 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	$59 \\ 22 \\ 11 \\ 44 \\ 165 \\ 51 \\ 23 \\ 22 \\ 19 \\ 77 \\ 16 \\ 16 \\ 16 \\ 16 \\ 26$
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Sweten Sweten United States Wales	$ \begin{array}{c}       48 \\       2 \\       1 \\       14 \\       1 \\       1 \\       1 \\       1 \\       1 \\       1 \\       1 \\       1 \\       1 \\       1 \\       1 \\       1 \\       3 \\       32 \\       2 \\       6 \\       \hline       \end{array} $	11 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	59 2 1 4 16 5 1 2 32 1 19 7 16 16 16 19 7 16 16 16 16 16 16 10 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland Switzerland Switzerland Switzerland Switzerland Switzerland Switzerland	$ \begin{array}{c} 48\\2\\1\\1\\1\\4\\1\\1\\1\\1\\1\\1\\1\\1\\5\\15\\15\\15\\1\\3\\2\\6\\-293\end{array}$	11 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	59 2 1 1 4 16 5 1 2 3 2 1 1 19 7 7 1 6 6 16 1 4 26 2 6
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland Switzerland Switzerland Switzerland Switzerland Switzerland Switzerland	48 2 1 3 14 4 1 1 1 2 1 1 1 2 1 1 1 5 15 1 5 15 1 5 15 1 3 32 2 6 293 8TA :	11 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	$     59     22     1     1     4     16     5     1     2     3     2     1     1     9     7     7     1     6     16     1     4     26     6     \overline{340}     340     340   $
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland Switzerland Switzerland Sweden United States Wales Ukrainia	48 2 1 1 1 4 1 1 1 2 1 1 1 4 7 1 1 5 15 15 15 15 15 15 15 15 15 15 15	11 1 1 2 1 1 2 1 1 2 5 5 1 1 1 1 4 4 47 Non-T.B., Inactive	59 2 1 4 16 5 1 2 3 2 1 1 9 7 7 1 6 16 16 1 4 3 20 7 7 1 1 9 7 7 1 1 3 2 2 1 1 1 1 9 7 7 7 1 1 1 9 7 7 1 1 1 1 9 7 1 1 1 1
Canada (Other Provinces) Austria Belgium China Denmark England Irreland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland	48 2 1 3 14 4 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	11 1 1 2 1 1 2 1 1 2 5 5 1 1 1 4 47 Non-T.B., Inactive 16	59 2 1 4 16 5 1 2 3 2 1 1 9 7 7 1 6 16 16 1 4 340 7 0 7 0 7 1 4 5 5 1 1 1 2 3 2 2 1 1 1 1 2 3 2 2 1 1 1 1 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Iitaly Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland Sweden United States Wales Ukrainia .—LENGTH OF RESIDENCE IN ALBEF Born in Alberta	48 2 1 3 14 4 1 1 1 2 1 1 1 2 1 1 1 5 15 15 15 15 15 15 15 15 15 15 1	11 1 1 2 1 1 2 1 1 2 	59 2 1 4 16 5 1 2 3 2 1 199 7 1 6 16 16 14 340 Tota 145
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland Switzerland Switzerland Sweden United States Wales Ukrainia LENGTH OF RESIDENCE IN ALBEF Born in Alberta In Alberta from 1 to 5 years In Alberta from 6 to 9 years	48 2 1 3 14 4 1 1 1 2 1 1 1 2 1 1 1 5 5 15 1 5 15 1 5 15 1 5 293 22 6 293 22 6 293 22 6 293 22 6 293 22 6 293 22 1 1 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1	11 1 1 2 1 1 2 1 1 2 	59 2 1 4 16 5 1 2 3 2 1 1 9 7 7 1 6 16 16 1 4 340 7 0 7 0 7 1 4 5 1 2 3 2 2 1 1 1 1 2 3 2 2 1 1 1 1 2 3 2 2 1 1 1 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland Switzerland Sweden United States Wales Ukrainia LENGTH OF RESIDENCE IN ALBEF Born in Alberta In Alberta from 1 to 5 years In Alberta from 10 to 14 years In Alberta from 15 to 19 years	48 2 1 3 14 4 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 1 1 2 1 1 2 1 1 2 	59 2 1 4 16 5 1 2 3 2 2 1 199 7 1 6 16 16 14 340 7 0 7 0 7 1 199 7 7 1 199 7 7 1 1 1 99 7 7 1 1 1 99 7 7 1 1 1 99 7 7 1 1 1 99 7 7 1 1 1 99 7 7 1 1 1 1
Canada (Other Provinces) Austria Belgium China Denmark England Ireland Ireland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Switzerland Switzerland Sweden United States Wales Ukrainia LENGTH OF RESIDENCE IN ALBEF Born in Alberta In Alberta from 1 to 5 years In Alberta from 10 to 14 years In Alberta from 15 to 19 years	48 2 1 3 14 4 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 1 1 2 1 1 2 5 5 5 1 1 1 4 4 4 47 Non-T.B., Inactive 16 1 3 7 8 9	59 2 1 4 16 5 1 2 3 2 1 19 7 1 6 16 16 14 340 7 10 5 340 7 10 5 7 1 7 1 7 1 5 7 1 1 1 2 3 2 2 1 1 1 1 2 3 2 2 1 1 1 1 2 3 2 2 1 1 1 1
Canada (Other Provinces) Austria Belgium China Denmark England Irreland Italy Jugo-Slavia Germany Hungary Newfoundland Poland Norway Roumania Russia Scotland Switzerland Swit	48 2 1 3 14 4 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 1 1 2 1 1 2 1 1 2 	59 2 1 1 4 16 5 1 2 3 2 1 19 7 7 1 6 16 14 340 7 0 7 0 7 1 1 9 7 7 1 1 9 7 7 1 1 9 7 7 1 1 9 7 7 1 1 1 1

XIII	-RA	CIAL	ORIG	IN:
			- ALLA CA.	

III.—RACIAL ORIGIN:	Active T.B.	Non-T.B., Inactive	Total
Austrian	. 4		4
Belgian	1	****	1
Bohemian	1		1
Danish	4	1	5
Dutch	5	2	6
Chinese	2	1	3
Esthonian	2	6	47
English	41	6	15
French	13	2	10
Finnish	10		17
German	12	5	11
Hebrew	1		3
Hungarian	3	5	43
Irish	38	3	17
Indian	14	9	
Italian	1	2	3
Jugo-Slav.	1	2	1
Lithuanian	23	5	28
Metis		1	25
Norwegian	24	2	13
Polish		2	1
Roumanian	2	****	2
Russian	13		13
Swedish	1		1
Swiss		7	57
Scottish	10	5	24
Ukrainian	4		-4
Welsh			-
	293	47	340

### XIV.-RESIDENCE OF DISCHARGED PATIENTS:

Lettnoridge         6         2         3           Wetaskiwin         1         2         3           ToWNS:         1         5         1           Carraton         1         5         1           Carranagay         1         1         1           Carmangay         1         1         1           Carmangay         1         1         1           Clareshoim         1         2         2           Carmangay         1         1         1           Clareshoim         1         2         2           Hanna         2         2         2           Hanna         2         2         2           Hanna         2         2         2           Hanna         1         1         1           Malceod         1         1         1           Maton         1         1         1           Naton         3         1         2           Peace River         3         1         2           VillAGES:         1         1         1           Bentley         1         1         1		Central Alberta Sanatorium	Edmonton Sanatoria	Total
Calgary       38       1       33         Drumheller       7       44       51         Lethbridge       6       6       6         Medicine Hat       6       2       33         TOWNS:       1       2       33         Cardston       1       2       33         TOWNS:       1       2       33         Carnangay       1       1       1         Carmose       1       1       1         Carmose       1       1       1         Claresholm       2       2       2         Hanna       2       2       2         Hanna       2       2       2         Hanna       2       2       2         Hanna ton       1       1       1         Mocleod       1       1       1         Macleod       1       1       1         Morinville       1       1       1         Nanton       1       1       1         St. Albert       1       1       1         Vegreville       2       2       2         Chauvin       1	CITIES:			20
Drumheller         2         44         51           Edmonton         6         6         6         6           Medicine Hat         6         2         6           Medicine Hat         6         2         3           TOWNS:         1         2         3           Cardston         1         5         5           Carmose         1         1         1           Caresholm         1         1         1           Coleman         1         1         1           Didsbury         1         2         2           Edson         2         2         2           Hanna         2         2         2           Hanna         1         1         1         1           Macleod         1         1         1         1           Markleod         1         1         1         1         1           Nonton         1         1         1         1         1           Macleod         1         1         1         1         1           Macleod         1         1         1         1         1	Calgary			
Lethbridge         6         6         6           Medicine Hat         1         2         3           TOWNS:         1         2         3           Cardiston         1         5         5           Cardiston         1         1         1           Carangay         1         1         1           Claresholm         1         1         1           Coleman         1         1         1           Grande Prairie         2         2         2           Hanna         2         2         2           Hanna         2         2         2           Hanna         2         2         2           Hanna         1         1         1           Morinville         1         1         1           Marital         1         1         1           Natton         3         1         4           Ponoka         1         1         1           Redcliff         1         1         1           VILLAGES:         1         1         1           Benter La Biche         1         1         1 <td>Drumheller</td> <td>27</td> <td></td> <td></td>	Drumheller	27		
LethDridge         6         2         3           Wetaskiwin         1         2         3           TOWNS:         1         5         1           Cardiston         1         5         1           Carnangay         1         1         1           Claresholm         1         1         1           Coleman         1         2         2           Hanna         2         2         2           Hanna         2         2         2           Hanna         2         2         2           Hanna         1         1         1           Maleeod         1         1         1           Matioth         1         1         1           Nanton         1         1         1           Nanton         1         1         1           Netter         3         1         2           Vegreville         1         1         1           Vegreville         1         1         1           Wetastietter         1         1         1           Bentley         1         1         1         1	Edmonton			6
Medicine nat         1         2         3           Wetaskiwin         1	Lethbridge		1111	6
Wetaskiwin       1       1         TOWNS:       1       5         Cardiston       1       5         Carmangay       1       1         Claresholm       1       1         Coleman       1       1         Didsbury       1       2         Edison       2       2         Hanna       2       2         Hanna       2       2         Hanna       2       2         Hardisty       1       1         Innisfall       1       1         Macleod       1       1         Nanton       3       1         Peace River       3       1         Ponoka       1       1         Redcliff       1       4         St. Albert       1       1         Bentley       1       1         Innisfree       1<	Medicine Hat	1	2	3
Cardiston       1       5       5         Carmangay       1       1       1         Claresholin       1       1       1         Claresholin       1       1       1         Claresholin       1       1       1         Claresholin       1       2       2         Handisty       1       2       2         Hanna       2       2       2         Hanna       2       2       2         Hanna       2       2       2         Hanna       1       1       1         Macleod       1       1       1         Macleod       1       1       1         Marton       1       1       1         Nanton       1       1       1         Ponoka       1       1       1         Redcliff       1       1       1         Vegreville       2       2       2         Vegreville       1       2       2         Vegreville       1       1       1         Bonnyville       1       1       1         Delia       1       1	Wetaskiwin	1	-	
Carmose       1       3       1         Carmangay       1       1       1         Claresholm       1       1       1         Carmangay       1       2       3         Carmangay       1       2       3         Carmode Prairie       1       2       2         Grande Prairie       1       2       2         Hanna       2       2       2         Hardisty       1       2       2         Hardisty       1       1       1         Macleod       1       1       1         Macleod       1       1       1         Macleod       1       1       1         Nation       1       1       1         Nation       1       1       1         Nation       1       1       1         Nation       1       1       1       <				1
Carmose       1       1         Carresholm       1       1         Cleman       1       1         Didsbury       1       2         Grande Prairie       2       2         Edson       2       2         Hanna       2       2         Hardisty       1       2         Innisfail       1       1         Macleod       1       1         Morinville       1       1         Nanton       1       1         Neace River       3       1         Ponoka       1       1         Ponoka       1       1         VilLAGES:       1       1         Bentley       1       1         Ibittern Lake       1       1         Black Diamond       1       2         Chauvin       1       1         Innisfree       3       2         Chauvin       1       1         Innisfree       3       2         Stettler       1       1         Innisfree       3       2         Stettler       1       1         Inni	Cardston	1		5
Claresholm       1       1       1         Coleman       1       2       2         Didsbury       1       2       2         Grande Prairie       1       2       2         Hanna       2       2       2         Hanna       2       2       2         Hanna       1       2       2         Hanna       2       2       2         Hanna       2       2       1         Macleod       1       1       1         Macleod       1       1       1         Martin       1       1       1         Nanton       1       1       1         Neace River       3       1       1         Ponoka       1       1       1         Redcliff       1       1       1         Stattler       1       1       1         Tofield       2       2       2         Vermilion       1       2       2         Vermilion       1       1       1         Bittern Lake       1       1       1         Bonnyville       2       2	Camrose			1
Claresholm       1       1       1       1         Didsbury       1       2       2         Grande Prairie       1       2       2         Harna       2       2       2         Harna       2       2       2         Hardisty       1       -       1         Innisfail       1       -       1       1         Macleod       1       -       1       1         Morinville       1       1       1       1         Nanton       1       1       1       1         Ponoka       1       1       1       1         Redcliff       1       4       4       4         St. Albert       1       1       1       1         Vereville       -       2       2       2         Vermilion       1       1       1       1         Bittern Lake       1       1       1       1         Bonnyville       2       2       2       2         Chauvin       1       1       1       1         Minburn       1       1       1       1       1<	Carmangay	1		î
Didsbury         1         2         3           Grande Prairie         1         2         2           Hanna         2         2         2           Hanna         2         2         2           Hardisty         1         1         1           Macleod         1         1         1           Marched         1         1         1           Macleod         1         1         1           Marched         1         1         1           Macleod         1         1         1           Marched         1         1         1           Ponoka         1         1         1           Ponoka         1         1         1           Redcliff         1         4         1           Stettler         1         1         1           Verreville         1         1         1           Verreville         1         2         2           Verreville         1         1         1           Bonnyville         2         2         2           Chauvin         1         1         1 <tr< td=""><td>Claresholm</td><td>1</td><td></td><td>1</td></tr<>	Claresholm	1		1
Didsbury       1       2       2         Edson       2       2       2         Hanna       2       2       2         Hanna       2       2       2         Hanna       1       1       1         Macleod       1       1       1         Markeleod       1       1       1         Morinville       1       1       1         Nanton       1       1       1         Peace River       3       1       1         Ponoka       1       1       1         Redcliff       1       4       4         St. Albert       1       1       1         Vereville       2       2       2         Vermilion       1       2       2         Vermilion       1       2       2         Chauvin       2       2       2         Chauvin       2       2       2         Chauvin       2       2       2         Delia       1       1       1         Innisfree       2       1       1         Idamot       1       1	Coleman	1	1 .	ĩ
Hardisty       1       1         Innisfall       1       1         Macleod       1       1         Morinville       1       1         Nanton       3       1         Pence River       3       1         Ponoka       1       1         Redcliff       1       4         St. Albert       1       1         Tofield       -       2       2         Vegreville       -       2       2         Vermilion       1       1       1         Bittern Lake       1       1       1         Bonnyville       -       2       2         Chauvin       1       1       1         Bonnyville       -       2       2         Chauvin       1       1       1         Innisfree       1       1       1         Lac La Biche       3       3       3         Lawont       1       1       1         Minburn       1       1       1         Minotror       2       1       1         St. Faul       2       1       1		1		3
Hardisty       1       1         Innisfall       1       1         Macleod       1       1         Morinville       1       1         Nanton       3       1         Pence River       3       1         Ponoka       1       1         Redcliff       1       4         St. Albert       1       1         Tofield       -       2       2         Vegreville       -       2       2         Vermilion       1       1       1         Bittern Lake       1       1       1         Bonnyville       -       2       2         Chauvin       1       1       1         Bonnyville       -       2       2         Chauvin       1       1       1         Innisfree       1       1       1         Lac La Biche       3       3       3         Lawont       1       1       1         Minburn       1       1       1         Minotror       2       1       1         St. Faul       2       1       1				2
Hardisty       1       1         Innisfall       1       1         Macleod       1       1         Morinville       1       1         Nanton       3       1         Pence River       3       1         Ponoka       1       1         Redcliff       1       4         St. Albert       1       1         Tofield       -       2       2         Vegreville       -       2       2         Vermilion       1       1       1         Bittern Lake       1       1       1         Bonnyville       -       2       2         Chauvin       1       1       1         Bonnyville       -       2       2         Chauvin       1       1       1         Innisfree       1       1       1         Lac La Biche       3       3       3         Lawont       1       1       1         Minburn       1       1       1         Minotror       2       1       1         St. Faul       2       1       1	Edson	2		2
Inmisfail       1       1         Macleod       1       1         Morinville       1       1         Nanton       1       1         Pencee River       3       1         Ponoka       1       1         Redeliff       1       4         St. Albert       1       4         Stettler       1       1         Tofield       1       2         Vegreville       1       1         Vegreville       1       1         Vegreville       1       1         Vegreville       1       2         Vermilion       1       2         Bonnyville       2       2         Chauvin       1       1         Black Diamond       1       2         Delia       1       1         Lac La Biche       3       3         Lamont       1       1         Mindure       1       1         Mindure       2       1         Steree       2       1         Steree       2       1         Mindure       1       1         Min	Hanna		2	2
Macleod         1         1           Morinville         1         1           Nanton         3         1           Peace River         3         1           Ponoka         1         1           Redeliff         1         4           St. Albert         1         1           Tofield         2         2           Vegreville         2         2           Vermilion         1         1           Bittern Lake         1         1           Bittern Lake         1         1           Back Diamond         1         2           Chauvin         2         2           Chauvin         2         2           Chauvin         1         1           Innisfree         3         3           Lac La Biche         3         3           Lamont         1         1           Minburn         1         1           Mindare         2         1           St. Paul         2         1           Sexsmith         2         1           Smoky Lake         1         1           Spirit River <td>Hardisty</td> <td>1</td> <td></td> <td>1</td>	Hardisty	1		1
Morinville         1         1           Nanton         3         1           Peace River         3         1           Ponoka         1         1           Redcliff         1         4           St. Albert         1         4           St. Albert         1         1           Tofield         1         1           Vegreville         1         1           Vegreville         1         1           Vegreville         1         1           VILLAGES:         1         1           Bentley         1         1           Biatern Lake         1         1           Bonnyville         2         2           Chauvin         2         2           Delia         1         1           Lamont         1         1           Minburn         1         1           Mindare         2         1           Provost         2         1           Rimbey         1         2           St. Paul         2         2           Sexsmith         1         1           Spirit River		ĩ		1
Nanton         1         1         1           Peace River         1         1         1         1           Ponoka         1         1         1         1         1           Redcliff         1         1         1         1         1           St. Albert         1         1         1         1         1           St. Albert         1         1         1         1         1           Tofield         1         1         1         1         1           Vegreville         1         1         1         1         1           Vegreville         1         2         2         2         2         2           Vermilion         1         2		1		1
Peace River       3       1       2         Ponoka       1       1       1         Redcliff       1       4       4         St. Albert       1       1       1         St. Albert       1       1       1         Stettler       1       1       1         Vegreville       2       2       2         Vermilion       1       1       1         Bittern Lake       1       1       1         Bonnyville       2       2       2         Chauvin       2       2       2         Chauvin       2       2       2         Delia       1       1       1         Imisfree       1       1       1         Lac La Biche       3       3       1         Lamont       1       1       1       1         Millet       1       1       1       1         Mindare       2       1       1       1         Provost       2       1       1       1         Mundare       2       1       1       1         Sexsmith       2       1 </td <td></td> <td>1</td> <td></td> <td>1</td>		1		1
Ponoka       1       1       1         Redcliff       1       4       4         St. Albert       1       1       1         Stettler       1       1       1       1         Tofield       2       2       2       2         Vegreville       1       1       1       1         VILLAGES:       1       1       1       1         Bentley       1       1       1       1         Bittern Lake       1       2       2       2         Chauvin       2       2       2       2         Chauvin       2       2       2       2         Delia       1       1       1       1         Innisfree       3       3       3       3         Lac La Biche       3       3       3       3         Lamont       1       1       1       1       1         Minburn       1       1       1       1       1         Mindare       2       1       1       1       1         Rimbey       2       1       1       1       1         S	Peace River	3	1	4
Redcliff       1       4       4         St. Albert       1       1       1         Stettler       1       1       1         Tofield       2       2       2         Vegreville       1       1       1         VILLAGES:       1       1       1         Bentley       1       1       1         Black Diamond       1       2       2         Chauvin       2       2       2         Delia       1       1       1         Delia       1       1       1         Innisfree       3       3       3         Lac La Biche       1       1       1         Minburn       1       1       1         Minburn       1       1       1         Minburn       1       1       1         Mundare       2       1       1         Provost       2       1       1         St. Paul       2       1       1         Smoky Lake       1       1       1         Spirit River       2       2       2         Vilna       2	Ponoka	1	1	2
St. Albert     1     1       Stettler     1     1       Vegreville     1     2       Vermilion     1     1       Wermilion     1     1       Bentley     1     1       Bittern Lake     1     1       Black Diamond     1     2       Chauvin     2     2       Chauvin     1     1       Delia     1     1       Lac La Biche     3     3       Lamont     1     1       Minburn     1     1       Minburn     1     1       Mindre     2     1       Provost     2     1       St. Paul     2     2       Sexsmith     2     2       Smoky Lake     1     1       Spirit River     2     1       Vilha     2     2       Ermineskin Indian School, St. Albert     5	Redcliff	1		1
Stettler       1       1         Tofield       2       2         Vermilion       1       1         VILLAGES:       1       1         Bentley       1       1         Bittern Lake       1       1         Black Diamond       1       2         Bonnyville       2       2         Chauvin       2       2         Delia       1       1         Lac La Biche       3       3         Lamont       1       1         Minburn       1       1         Minber       2       1         St. Paul       2       1         Smoky Lake       1       2         Spirit River       2       1         Vilna       2       2         Vilna       2       2         Youville India	St. Albert		4	4
Tofield       1       1         Vegreville       1       1         VILLAGES:       1       1         Bentley       1       1         Bittern Lake       1       1         Black Diamond       1       2         Chauvin       2       2         Chauvin       2       2         Chauvin       2       2         Lac La Biche       1       1         Lamont       1       1         Millet       1       1         Minburn       1       1         Mirror       2       1         Rimbey       2       1         St. Paul       2       2         Sexsmith       2       2         Smoky Lake       1       1         Spirit River       2       1         Vilna       2       2         Ermineskin Indian School, Hobbema       5       5         Youville Indian School, Edmonton       5       5	Stettler	1		1
Vegreville     1       Vermillion     1       Bentley     1       Bittern Lake     1       Black Diamond     1       Bonnyville     2       Chauvin     2       Delia     1       Innisfree     3       Lac La Biche     3       Lac La Biche     1       Minburn     1       Mirror     1       Minburn     1       Mirror     2       St. Paul     2       Sexsmith     2       Spirit River     1       Vilna     6       Ermineskin Indian School, St. Albert     5	Tofield			1
Vermilion       1       1         VILLAGES:       1       1         Bentley       1       1         Bittern Lake       1       1         Black Diamond       1       2         Bonnyville       2       2         Chauvin       2       2         Delia       1       1         Innisfree       3       3         Lac La Biche       3       3         Lamont       1       1         Millet       1       1         Minburn       1       1         Mindree       2       1         Provost       2       1         Rimbey       2       1         St. Paul       2       2         Sexsmith       2       2         Smoky Lake       1       1         Spirit River       2       1         Vilna       2       2         Ermineskin Indian School, Hobbema       5         Youville Indian School, Edmonton       5	Vegreville		2	1
Bentley     1       Bittern Lake     1       Bittern Lake     1       Black Diamond     1       Bonnyville     2       Chauvin     2       Delia     1       Innisfree     3       Lac La Biche     3       Lamont     1       Minburn     1       Minburn     1       Minburn     1       Mindare     2       Provost     2       St. Paul     2       Sexsmith     2       Smoky Lake     1       Spirit River     1       Vilna     2       Ermineskin Indian School, Hobbema     5       Youville Indian School, St. Albert     5		1		1
Bentley     1       Bittern Lake     1       Bittern Lake     1       Black Diamond     1       Bonnyville     2       Chauvin     2       Delia     1       Innisfree     3       Lac La Biche     3       Lamont     1       Minburn     1       Minburn     1       Minburn     1       Mindare     2       Provost     2       St. Paul     2       Sexsmith     2       Smoky Lake     1       Spirit River     1       Vilna     2       Ermineskin Indian School, Hobbema     5       Youville Indian School, St. Albert     5	VILLAGES:			
Bittern Lake     1       Black Diamond     1       Bonnyville     2       Chauvin     2       Delia     1       Innisfree     3       Lac La Biche     3       Lamont     1       Millet     1       Minburn     1       Mirror     1       Mindare     2       Provost     2       Ryley     2       St. Paul     2       Sexsmith     2       Smoky Lake     1       Spirit River     1       Vilna     2       Ermineskin Indian School, Hobbema     5       Youville Indian School, St. Albert     5				1
Black Diamond       2         Bonnyville       2         Chauvin       1         Delia       1         Innisfree       3         Lac La Biche       3         Lamont       1         Millet       1         Minburn       1         Mirror       1         Mindare       2         Provost       2         Ryley       2         St. Paul       2         Smoky Lake       1         Spirit River       1         Vilna       2         Ermineskin Indian School, Hobbema       5         Youville Indian School, St. Albert       5	Bittern Lake		1	1
Bonnyville     2       Chauvin     1       Delia     1       Innisfree     3       Lac La Biche     3       Lamont     1       Millet     1       Minburn     1       Minror     1       Mundare     2       Provost     2       Rimbey     1       Ryley     1       St. Paul     2       Sexsmith     2       Smoky Lake     1       Spirit River     2       Vilna     2       Ermineskin Indian School, Hobbema     5       Youville Indian School, St. Albert     5	Black Diamond	1	0	2
Delia       1         Innisfree       3         Lac La Biche       3         Lamont       1         Millet       1         Minburn       1         Mirror       1         Minburn       1         Minbey       2         Rimbey       2         St. Paul       2         Sexsmith       2         Smoky Lake       1         Spirit River       1         Vilna       6         Ermineskin Indian School, Hobbema       5         Youville Indian School, St. Albert       5	Bonnyville			5
Delia       1         Innisfree       3         Lac La Biche       3         Lamont       1         Millet       1         Minburn       1         Mirror       1         Minburn       1         Minbey       2         Rimbey       2         St. Paul       2         Sexsmith       2         Smoky Lake       1         Spirit River       1         Vilna       6         Ermineskin Indian School, Hobbema       5         Youville Indian School, St. Albert       5	Chauvin		6	ĩ
Innisfree       3         Lac La Biche       3         Lamont       1         Millet       1         Minburn       1         Mirror       1         Mundare       4         Provost       2         Rimbey       1         Ryley       1         St. Paul       2         Sexsmith       2         Smoky Lake       1         Spirit River       1         Vilna       2         Ermineskin Indian School, Hobbema       5         Youville Indian School, St. Albert       5         Fedmonton Undian School, Edmonton       5	Delia	1	1	1
Lac La Bicne       1         Lamont       1         Millet       1         Minburn       1         Mirror       1         Mundare       2         Provost       2         Rimbey       1         Ryley       1         St. Paul       2         Sexsmith       2         Spirit River       1         Vilna       2         Ermineskin Indian School, Hobbema       6         Youville Indian School, St. Albert       5         Fedmonton Undian School, Edmonton       5	Innisfree		2	3
Millet       1       1         Minburn       1       1         Mirror       1       1         Mirror       1       1         Mundare       2       1         Provost       2       1         Ryley       1       1         St. Paul       2       1         Smoky Lake       1       1         Spirit River       1       1         Vilna       2       1         Ermineskin Indian School, Hobbema       6       5         Youville Indian School, St. Albert       5       5	Lac La Biche		1	1
Minburn       1         Mirror       4         Mundare       4         Provost       2         Rimbey       1         Ryley       1         St. Paul       2         Sexsmith       2         Spirit River       1         Vilna       2         Ermineskin Indian School, Hobbema       6         Youville Indian School, St. Albert       5         Fedmonton Undian School, Edmonton       5	Lamont		î	î
Mirror       4         Mundare       4         Provost       2         Rimbey       1         Ryley       1         St. Paul       2         Sexsmith       2         Smoky Lake       1         Spirit River       1         Vilna       2         Ermineskin Indian School, Hobbema       6         Youville Indian School, St. Albert       5         Edmonton       5			î	1
Mundare       2       1         Provost       2       1         Rimbey       1       1         Ryley       2       1         St. Paul       2       2         Sexsmith       2       1         Smoky Lake       1       1         Spirit River       1       1         Vilna       2       2         Ermineskin Indian School, Hobbema       6       6         Youville Indian School, St. Albert       5       5         Edmonton       5       5			î	ĩ
Provost     2     1       Rimbey     1     1       Ryley     1     1       St. Paul     2       Sexsmith     2       Smoky Lake     1       Spirit River     1       Vilna     2       Ermineskin Indian School, Hobbema     6       Youville Indian School, St. Albert     5       Fdmonton Undian School, Edmonton     5	Mirror		4	4
Provost     1       Rimbey     1       Ryley     1       St. Paul     2       Sexsmith     2       Smoky Lake     1       Spirit River     1       Vilna     2       Ermineskin Indian School, Hobbema     6       Youville Indian School, St. Albert     5       Fdmonton Indian School, Edmonton     5	Mundare	2	i	3
Ryley     2       St. Paul     2       Sexsmith     2       Smoky Lake     1       Spirit River     2       Vilna     2       Ermineskin Indian School, Hobbema     6       Youville Indian School, St. Albert     5       Edmonton Indian School, Edmonton     5	Provost	-	1	1
St. Paul     2       Sexsmith     1       Smoky Lake     1       Spirit River     1       Vilna     2       Ermineskin Indian School, Hobbema     6       Youville Indian School, St. Albert     5       Edmonton Indian School, Edmonton     5	Rimbey		1	1
Smoky Lake     1       Spirit River     1       Vilna     2       Ermineskin Indian School, Hobbema     6       Youville Indian School, St. Albert     5       Fdmonton Indian School, Edmonton     5	Ryley		2	2
Smoky Lake     1       Spirit River     1       Vilna     2       Ermineskin Indian School, Hobbema     6       Youville Indian School, St. Albert     5       Fdmonton Indian School, Edmonton     5	St. Paul		2	2
Spirit River 2 Vilna 6 Ermineskin Indian School, Hobbema 6 Youville Indian School, St. Albert 5 Edmonton Indian School, Edmonton 5	Smoky Lake		1	
Vilna 6 Ermineskin Indian School, Hobbema 6 Youville Indian School, St. Albert 5 Edmonton Indian School, Edmonton 5	Snirit River		1	1
Youville Indian School, St. Albert. 5 Edmonton Indian School, Edmonton 5	Vilna			2
Youville Indian School, St. Albert	Freminoskin Indian School, Hobbema			6
	Vouville Indian School, St. Albert			5
And the second sec	Edmonton Indian School, Edmonton		5	
Blackfoot Indian School, Gleichen	Blackfoot Indian School, Gleichen	1		1

#### DEPARTMENT OF PUBLIC HEALTH

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
MUNICIPAL DISTRICTS: M.D. 33	1		1
M.D. 33 M.D. 36	î		î
M.D. 69	1		1
M.D. 98 M.D. 159	2		2
M.D. 159 M.D. 189	ī		1
M.D. 190	2		21
M.D. 219 M.D. 220	1		1
M.D. 221	â		4
M.D. 242	3	****	31
M.D. 248 M.D. 251	2		2
M.D. 275	ī		1
M.D. 277	2	****	21
M.D. 281 M.D. 336	1		î
M.D. 339	1	1	2
M.D. 340 M.D. 363	1	1	1
M.D. 363 M.D. 367	3		3
M.D. 371	1		1
M.D. 391 M.D. 397	1		1
M.D. 397 M.D. 398		1	î
M.D. 400	1		12
M.D. 401 M.D. 422		2	ĩ
M.D. 424		1	1
M.D. 426	2		2
M.D. 427 M.D. 457	1	2	2 2 2
M.D. 458		2	2
M.D. 460	****	2	2 1
M.D. 466 M.D. 473	1	1	î
M.D. 485		1	1
M.D. 486	1	1	1
M.D. 489 M.D. 512	i		1
M.D. 513	1	1	2
M.D. 514	1	1	1
M.D. 516 M.D. 519	î	1	2
M.D. 520		2	2 1
M.D. 522	****	1	1
M.D. 543 M.D. 548		Ĝ	6
M.D. 552		1	1
M.D. 572 M.D. 575		3	3
M.D. 578	1	2	3
M.D. 579		22	2 4
M.D. 580 M.D. 582	*	2	2
M.D. 605		1	1
M.D. 608		1	1
M.D. 609 M.D. 739		2	2 6
M.D. 740	3	3	6 3
M.D. 829	1	22	
M.D. 857 M.D. 858		2	2 2
LOCAL IMPROVEMENT DISTRICTS:			
L.I.D. 67	1		1
L.I.D. 68 L.I.D. 71	1		î
L.I.D. 155	1		1
L.I.D. 185	1 3		13
L.I.D. 276 L.I.D. 376	1		1
L.I.D. 461		1	1
L.I.D. 528		4	4
L.I.D. 541 L.I.D. 553		1	1
L.I.D. 602		1	1
L.I.D. 607 L.I.D. 631		1	î
L.I.D. 631 L.I.D. 636		1	1
L.I.D. 667		1	1
L.I.D. 695 L.I.D. 706		1	1
L1.D. 742	1		1
L.I.D. 765	1	1	1
L.I.D. 769 L.I.D. 796	1	1	2
L.I.D. 800		1	1
L.I.D. 826		1	1
L.I.D. 827 L.I.D. 887		2	2
L.I.D. 946		2	2
	146	194	340
	110		

# The Child Welfare and Mothers' Allowance Branch

#### (T. R. BLAINE, Superintendent)

Working within the provisions of The Child Welfare Act of Alberta, The Juvenile Courts Act of Alberta, The Dominion Delinquents Act, The Children of Unmarried Parents Act, and Part VII of The Domestic Relations Act.

The work of this Department is varied. The Government of the Province desires that every child in Alberta should be able to grow up so that he or she shall be a desirable citizen, and able to discharge creditably the responsible duties of citizenship.

The commonest source of difficulty is the home. If parents would do as they should, the children would be a pleasure to them and no trouble to anyone else. Remembering this, every effort is put forth to bring parents to a consciousness of their duty. It is greatly to the credit of our Inspectors and Probation Officers that many homes which otherwise would be wrecked, are kept together, and by similar means, many children that would otherwise be on our hands remain in improved homes, with parents made happy again in a re-united household.

It has been learned that the misconduct of children is not always criminal, but often the result of irrepressible and irresponsible childhood. Some of the worst boys make the best of men. For this reason the probation system has been very largely adopted, and is proving satisfactory. Our aim is not to punish, but to correct, if possible. Out of the 811 cases of delinquency dealt with, no child was committed to a Reform School during the past year.

Our Inspectors and interested neighbours have brought to the attention of the Department many cases of blindness, deafness, deformity, cruelty, truancy, etc. Because we are not charged with the care of some of these classes, we send them to the proper authorities, and deal with the others ourselves. We, therefore, desire to thank the other Departments of the Government for their kindly co-operation with us in our work.

The task facing us is very large, intricate and quite varied, but the best endeavours of this Branch will be given to the work at all times.

#### THE CHILD WELFARE ACT

EXPENDITURES FOR YEAR ENDING MARCH 31, 1940

Salaries	\$15,650.00
Evponese'	35.000.00
Board	7,480.00
Clothing Hospital and Medical Supplies	650.00
Madian Comines	0,000.00
Deleting Stationery and Office Supplies	
Telegrams and Telephones	5.500.00
Travelling Expenses Unclassified	1,655.00
Unclassified	\$70.435.00

### DEPARTMENT OF PUBLIC HEALTH

CHILDREN MADE WARDS OF T										
Age 1 years and under	1930 132	1931 157	1932	1933	1934	1935	1936	1937 229	1938	1939
2 years	41	13	5	13	8	8	9	7	11	12
3 years		9 7	5	54	84	55	10	12 5	48	6 12
4 years 5 years		2	3	3	7	10	5	5	5	9
6 years	12	4	4	5	5	7	9	12	5	16
7 years 8 years		3 9	36	5	45	10	55	7 10	6	13 16
9 years		3	3	3	8	6	7	10	4	15
10 years	12	8	5	10	8	15	5	7	5	16
11 years 12 years		6 5	4	4	83	9 10	67	85	8	9 11
13 years		8	10	6	6	9	8	4	10	9
14 years	12	9	7	7	4	5	9	7	7	12
15 years 16 years		93	11	6	4 8	7 12	4 8	43	5 9	10 8
17 years		4	3	4	1	5		2	ĩ	3
Total	334	259	242	246	258	278	298	337	306	432
NEGLECTE	D CHI 1930			CAUS 1933		1935	1936	1937	1938	1939
Neglected		80	45	51	49	85	52	53	71	50
Mother unable to support Abandoned		161	157	152	168	176	213	247	204 10	237
Immoral conduct	2	1	1						3	1
Morals of parent or parents	2	10	24	15	30	7	9	10	5	35
Orphans Cruelty of parents		5	1	54	5	4		73	42	39
Inadequate parental control					1		4	1	ĩ	6
Father dead, mother insane							4			····
Mother in gaol Incorrigible		1	2	3	1		1			4
Mother in Mental Hospital							1	3		10
Mother not capable			19	4	1	·····				19
Mother dead Mother deserted			12	1			****	1		19
Mother drinking								2		
Home conditions No proper guardianship			****						5	19
									-	****
NEGLECTED		DREN				1000	1000	1007	1000	1000
Anglican	1930 34	1931 57	1932 19	1933 49	1934 34	1935 38	1936 33	1937 42	1938 51	1939 52
Presbyterian	35	25	26	25	13	15	21	13	21	20
Presbyterian Roman Catholic	35 93	50	52	64	74	15 68	66	82	48	106
Presbyterian Roman Catholic United	35 93 28	50 31				15 68 32				
Presbyterian Roman Catholic	35 93 28 21 55	50	52 26 10 73	64 37 19 27	74 38 9 41	15 68 32 3 46	66 20 18 78	82 49 10 70	48 61 7 56	106 97 10 59
Presbyterian Roman Catholic United Baptist Protestant Salvation Army	35 93 28 21 55 13	50 31 8 34	52 26 10 73 5	64 37 19 27 2	74 38 9 41 1	15 68 32 3 46 5	66 20 18 78 8	82 49 10 70 7	48 61 7 56 2	106 97 10 59 8
Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran	35 93 28 21 55 13 17	50 31 8	52 26 10 73	64 37 19 27 2 9 2	74 38 9 41	15 68 32 3 46	66 20 18 78	82 49 10 70	48 61 7 56	106 97 10 59
Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints	35 93 28 21 55 13 17 15	50 31 8 34 15	52 26 10 73 5 11 11 6	64 37 19 27 2 9 2 2	74 38 9 41 18 5 8	15 68 32 3 46 5 12 23	66 20 18 78 8 18 20	82 49 10 70 7 31 15 2	48 61 7 56 2 27 13 3	$     \begin{array}{r}       106 \\       97 \\       10 \\       59 \\       8 \\       23 \\       24 \\       1     \end{array} $
Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic	35 93 28 21 55 13 17 15 3	50 31 8 34 15 20	$52 \\ 26 \\ 10 \\ 73 \\ 5 \\ 11 \\ 11 \\ 6 \\ 3$	64 37 19 27 2 9 2 2 8	74 38 9 41 18 5 8 9	15 68 32 3 46 5 12 23 30	66 20 18 78 8 18 20 16	82 49 10 70 7 31 15		106 97 10 59 8 23 24
Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic Mohammedan	35 93 28 21 55 13 17 15 3	50 31 8 34 15 20	52 26 10 73 5 11 11 6	64 37 19 27 2 9 2 2	74 38 9 41 18 5 8 9	15 68 32 3 46 5 12 23	66 20 18 78 8 18 20	82 49 10 70 7 31 15 2	48 61 7 56 2 27 13 3	$     \begin{array}{r}       106 \\       97 \\       10 \\       59 \\       8 \\       23 \\       24 \\       1     \end{array} $
Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic Mohammedan Nazarene Pentecostal	35 93 28 21 55 13 17 15 3 17	50 31 8 34 15 20	52 26 10 73 5 11 11 6 3	64 37 19 27 2 9 2 2 8	74 38 9 41 18 5 8 9	15 68 32 3 46 5 12 23 30 5	66 20 18 78 8 18 20 16	82 49 10 70 7 31 15 2 3 2	48 61 7 56 27 13 3 9	106 97 10 59 8 23 24 1 12
Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic Mohammedan Nazarene Pentecostal Reformed	35 93 28 21 55 13 17 15 3 1 15	50 31 8 34 15 20	52 26 10 73 5 11 11 6 3 	64 37 19 27 2 9 2 2 8 2 2 8 2	74 38 9 41 18 5 8 9 13	15 68 32 3 46 5 12 23 30 5 1	66 20 18 78 8 18 20 16	82 49 10 70 7 31 15 2 3 2	48 61 7 56 2 27 13 3 9	106 97 10 59 8 23 24 1 12 2 4
Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic Mohammedan Nazarene Pentecostal Reformed Christian	35 93 28 21 55 13 17 15 3 17 15 4	50 31 8 34 15 20	52 26 10 73 5 11 11 6 3 	64 37 19 27 2 9 2 2 8 2 2 8 2	74 38 9 41 18 5 8 9 13	15 68 32 346 5 12 23 30 5 1	66 20 18 78 8 18 20 16	82 49 10 70 7 31 15 2 3 2	48 61 7 56 2 27 13 3 9	106 97 10 59 8 23 24 1 12 2
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Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic Mohammedan Nazarene Pentecostal Reformed Christian Science Evangelical Gospel Hall Four Square Gospel Mennonite Seventh Day Adventist Church of Christ Free Baptist NEGLECTED C Canadian American Polish Scotch French Russian English German Irish Half-breed Ukrainian Welsh	35 933 28 21 55 13 17 15 3 1 15 4 15 15 123 3 7 15 18 40 31 57 2 6	50 31 8 34 15 20 2 2 17 17 1931 167 7 26 27 19 2 2 2 17 1932 2 2 17 1931 167 7 26 27 19 2 2 2 17 17 18 15 20 17 17 17 17 17 17 17 17 17 17	52 266 100 73 5 11 11 11 6 3 	64 37 199 227 2 8 2 2 8 2 2 8 2 2 3 5 5 5 3 1 2	74 38 9 9 1 1 1 8 5 8 9 1 1 1 2 1 1 2 1 1 9 41 1 1 2 2 1 1 2 1 1 2 1 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1	15 688 32 3 46 5 12 23 30 5 1 1 30 5 1 1 30 5 1 2 3 30 5 5 12 2 3 30 5 5 12 2 3 30 5 5 12 2 3 30 5 5 12 2 3 3 0 5 5 12 2 3 3 3 0 5 5 12 3 3 3 0 5 5 12 2 3 3 3 0 5 5 12 2 3 3 3 0 5 5 12 2 3 3 3 0 5 5 12 2 3 3 3 0 5 5 12 2 3 3 3 0 5 5 12 3 3 3 0 5 5 12 2 3 3 3 0 5 5 11 2 3 3 3 0 5 5 11 2 3 3 3 0 5 5 11 2 3 3 3 0 5 5 11 2 3 3 3 0 5 5 11 2 3 3 5 11 2 3 3 5 5 11 2 3 3 5 5 11 2 3 3 5 5 11 2 3 3 5 5 11 2 3 3 5 5 11 2 3 3 5 11 2 3 3 5 11 2 3 3 1 2 3 3 5 1 2 3 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 3 5 5 11 2 3 3 5 5 11 2 3 3 5 5 11 2 3 3 5 5 11 2 3 3 5 5 11 2 3 3 5 5 2 2 3 3 5 5 2 2 3 3 5 5 2 2 3 3 5 5 2 2 3 5 2 2 3 5 2 2 3 5 2 2 3 3 5 2 2 3 5 2 2 2 3 5 2 2 2 3 5 2 2 2 3 5 2 2 2 3 5 2 2 2 2	666 200 188 8 8 18 200 16  16  19366 268 2 1 1 2 199 1 4 4 	82 49 10 70 7 31 15 2 3 2 2 1 1 1 1 937 569 3 8 5	48 61 7 56 2 277 13 3 9 1 1 2 1 1 2 1 1 3 303 1 2 2 2 1 3 0 3 1 2 2 2 1 1 3 9 1 1 2 2 1 3 9 9 1 1 2 2 2 7 1 3 9 9 1 1 3 9 9 1 1 2 2 2 1 1 3 9 9 1 1 2 2 2 1 1 3 9 9 1 1 2 2 2 1 1 3 9 9 1 1 2 2 2 1 1 3 9 9 1 1 2 2 2 1 1 3 9 9 1 1 2 2 1 1 3 9 9 1 1 1 2 2 2 1 1 3 9 9 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 2 2 1 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 2 1 1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 2 2 1 1 1 2 1 1 2 1 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 2 2 2 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 2 2 1	106 97 100 59 8 23 24 1 12 2 4 1 12 2 4 1 12 2 4 1 12 19 3 1 1 19 39 426 1 3 1 1 9 3 1 1 1 2
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Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic Mohammedan Nazarene Pentecostal Reformed Christian Science Evangelical Gospel Hall Four Square Gospel Mennonite Seventh Day Adventist Church of Christ Free Baptist NEGLECTED C Canadian American Polish Scotch French Russian English German Irish Half-breed Ukrainian Welsh Syrian Italian Chinese	35 933 28 21 55 13 17 15 3 11 15 4 15 15 15 15 15 123 3 7 15 18 8 40 31 57 2 6 6	50 31 8 34 15 20 2 17 17 19 167 7 7 4 7 2 27 19 2 2 17 19 2 19 2 19 2 19 2 19 2 19 2 19 2 19 2 19 19 19 19 19 19 19 19 19 19	52 266 100 73 5 11 11 11 6 3 3  NAT 1932 114 2 113 113 1 13 1 13 2 7 6 6 2 2 7 4 4	64 37 199 227 2 8 2 2 8 2 2 8 2 2 10NA 1933 219 22 3 5 5 5 3 3 1 2 2 2 2 3 5 5 5 3 3 1 2 2 2 2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2	74 38 9 9 1 1 1 8 5 8 9 1 1 1 2 1 1 2 1 3 3 1 1 2 2 1 3 1 2 2 1 3 3 1 1 2 2 1 3 3 1 1 1 1	15 688 32 23 346 5 5 1 223 30 5 1 1 30 5 1 1 1 935 248 2 2 10 1 5 4 4 5 5 1	666 200 188 8 8 18 200 16  19366 268 2 1 1 2 19 14 4  1	82 49 100 70 7 31 15 2 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5 6 9 3 8 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	48 61 756 227 133 9 11 12 1 3 303 1 22 2 1 303 1 22 2	106 97 100 59 8 23 24 1 12 2 4 1 12 2 4 1 12 2 4 1 12 19 39 426 1 3 1 1 19 39 426 1 3 1 1 1 2 4 4 1 1 1 2 2 4 1 1 2 2 4 1 1 2 2 4 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 4 4 1 1 2 2 3 2 2 4 4 1 1 2 2 4 1 1 2 3 2 4 4 1 1 1 2 3 1 1 1 1 1 2 1 1 1 1 1 2 2 4 1 1 1 1 1 2 2 4 1 1 1 1
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Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic Mohammedan Nazarene Pentecostal Reformed Christian Science Evangelical Gospel Hall Four Square Gospel Mennonite Seventh Day Adventist Church of Christ Free Baptist NEGLECTED C Canadian American Polish Scotch French Russian English German Irish Half-breed Ukrainian Welsh Syrian Italian Chinese Swedish	35 933 28 21 55 13 17 15 3 17 15 4 4 11 155 23 3 7 15 18 40 31 5 7 2 6 6	50 31 8 34 15 20 2 17 17 19 167 7 7 4 7 2 27 19 2 2 17 19 2 19 2 19 2 19 2 19 2 19 2 19 2 19 2 19 19 19 19 19 19 19 19 19 19	52 266 100 73 5 11 11 11 16 3 3  11 16 3  11 11 1932 1114 2 1 1 133 1 24 36 27 6 2 2 4 4  1 1	64 377 199 27 2 8 8 2 2 2 8 8 2 2 2 3 5 5 5 5 5 5 5 5 5 3 1 1 2 2 2 2 3 5 5 5 5 5 5 5 5 3 1 1 9 2 2 2 2 2 8 8 1 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	74 38 9 9 1 1 1 1 1 2 2 3 1 1 1 2 2 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 3 1 2 3 1 2 3 1 2 3 1 2 3 2 3	15 68 32 3 46 5 1 23 30 5 1 	666 200 188 8 8 18 200 16 	82 49 10 70 7 31 15 2 3 2 2 1 1 1 1 1 1937 569 3 8 5	48 61 7 56 22 27 13 3 9 1 1 2 2 1 1 3 3 1 2 2 2 1 1 3 3 9 1 1 2 2 2 1 3 3 9 1 1 2 2 1 3 3 9 1 1 3 9 1 1 2 2 2 7 5 6 2 2 2 7 3 9 1 1 3 9 9 1 1 2 2 2 7 1 3 3 9 1 1 1 2 2 2 2 7 1 3 3 9 1 1 1 2 2 2 2 7 1 3 3 9 9 1 1 1 2 2 2 2 7 1 3 3 9 1 1 1 2 2 2 2 7 1 3 3 9 1 1 1 2 2 2 2 7 1 3 3 9 1 1 1 2 2 2 2 1 3 3 9 1 1 1 1 2 2 2 1 1 3 1 2 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 3 1 2 2 2 2	106 97 100 59 8 23 24 1 12 2 4 1 12 2 4 1 12 2 4 1 12 2 4 1 12 2 4 1 12 2 4 1 12 2 4 1 12 2 4 1 12 2 4 1 12 2 4 1 12 2 4 11 2 2 4 1 2 2 4 1 12 2 4 1 2 2 4 1 12 2 1 2 2 4 1 12 2 1 12 2 1 2 2 4 1 12 2 12 2 1 12 2 1 12 2 1 12 1 12 1 12 11 2 1 12 11 2 1 12 11 2 1 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 12
Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic Mohammedan Nazarene Pentecostal Reformed Christian Science Evangelical Gospel Hall Four Square Gospel Mennonite Seventh Day Adventist Church of Christ Free Baptist NEGLECTED C Canadian American Polish Scotch French Russian English German Irish Half-breed Ukrainian Welsh Syrian Italian Chinese Swedish Danish Austrian	35 933 28 21 55 13 17 15 3 1 15 4 15 15 123 3 7 15 18 40 31 5 7 7 15 18 40 31 5 7 7 15 13 17 15 13 15 13 17 17 15 13 17 15 13 17 17 15 13 17 17 15 13 17 17 15 13 17 17 15 13 17 17 15 13 17 17 15 13 17 17 15 13 17 17 15 13 17 15 13 17 15 15 13 17 15 15 13 17 15 15 13 17 15 15 15 15 13 17 15 15 15 15 15 15 15 15 15 15 15 15 15	50 31 8 34 15 20 2 17 19 1931 167 7 26 27 19 2 27 19 2 2 19 2 19 2 19 2 19 2 19 2 19 2 19 2 19 19 19 19 19 19 19 19 19 19	52 266 100 73 5 11 11 11 16 3 3 	64 37 19 27 2 2 8 2 2 8 2 2 2 8 3 2 2 2 8 3 2 2 3 5 5 5 3 3 1 2 2 2 2 8 3 5 5 5 3 3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	74 38 9 9 1 1 1 1 8 5 8 9 9 1 1 1 1 2 2 1 3 3 1 1 2 2 1 3 1 2 2 1 3 3 1 2 2 1 2 1	15 68 32 3 46 5 12 23 30 5 1 	666 200 188 8 8 18 200 16  16  19366 268 2 1 1 2 1936 268 2 1 1 4 4  1 1 	82 499 100 70 7 315 2 3 2 2 1 1 1 1 937 569 3 8 5 1 1 937 569 3 8 5	48 61 7 56 2 27 13 3 9 1 1 2 2 1 1 2 2 1 1 3 3 1 9 3 0 3 0 3 1 2 2 2 1 3 9 9 1 1 2 2 1 3 9 9 1 1 3 9 9 1 1 3 9 9 1 1 3 9 9 1 1 2 2 2 7 1 3 9 9 1 1 3 9 9 1 1 1 3 9 9 1 1 1 2 2 2 2 7 1 1 3 9 9 1 1 1 2 2 2 2 7 1 1 3 9 9 1 1 1 2 2 2 2 7 1 1 3 9 9 1 1 1 2 2 2 2 7 1 1 3 9 9 1 1 1 2 2 2 2 7 1 1 3 9 9 1 1 1 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 1 2 2 2 2 1 1 1 2 2 1 1 1 2 2 2 1 1 1 1 2 2 1 1 1 2 2 2 1 1 1 2 2 1 1 1 1 2 2 2 1 1 1 3 1 1 2 2 1 1 1 1	106 97 100 59 8 23 24 1 12 2 4 1 12 2 4 1 12 2 4 1 12 12 12 2 4 1 12 2 4 1 12 2 4 1 12 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 2 4 1 12 2 1 2 2 4 1 12 2 1 2 2 1 12 2 1 12 2 1 12 2 1 12 1 12 2 1 12 1 12 1 12 1 12 1 12 1 12 1 12 11 12 12
Presbyterian Roman Catholic United Baptist Protestant Salvation Army Lutheran Greek Orthodox Latter Day Saints Greek Catholic Mohammedan Nazarene Pentecostal Reformed Christian Science Evangelical Gospel Hall Four Square Gospel Mennonite Seventh Day Adventist Church of Christ Free Baptist NEGLECTED C Canadian American Polish Scotch French Russian English German Irish Half-breed Ukrainian Weish Syrian Italian Chinese Swedish Danish	35 93 28 21 55 13 17 15 3 17 15 13 4 4 11 155 23 3 7 15 18 40 31 5 7 26 6 1 22 180	50 31 8 34 15 20 2 2 17 17 19 19 19 19 2 2 17 19 19 2 2 17 19 19 2 2 17 19 19 2 19 2 19 19 19 19 19 19 19 19 19 19	52 266 10 73 5 11 11 11 16 3  11 11 11 19 32 11 4 24 36 6 22 4 4 1 1 10	64 377 1992 228 8 22 28 8 22 2 8 10 10 10 1933 219 219 223 5 555 555 331 222 2 4	74 38 9 9 9 1 1 1 1 1 2 2 3 1 1 2 2 3 1 2 2 1 3 2 1 2 1	15 68 32 3 46 5 12 23 30 5 1 	666 200 188 8 8 18 200 16 16 16 16 19 268 21 1 2 199 1 4 4 	82 499 100 70 7 311 15 2 3 2 2 1 1 1 1 1 937 569 3 8 5	48 61 7 56 22 27 13 3 9 1 1 2 2 1 1 3 3 1 9 3 3 3 9 1 1 2 2 2 1 3 3 9 1 1 2 2 2 1 3 3 9 1 1 3 3 9 1 1 3 9 1 1 2 2 2 7 3 9 9 1 1 3 9 9 1 1 3 9 9 1 1 1 3 9 9 1 1 1 3 9 9 1 1 1 2 2 2 2 7 1 3 3 9 9 1 1 1 2 2 2 2 7 1 3 3 9 9 1 1 1 2 2 2 2 7 1 3 3 9 9 1 1 1 2 2 2 2 7 1 1 3 3 9 9 1 1 1 2 2 2 2 7 1 1 3 9 1 1 1 2 2 2 2 1 1 1 2 2 2 2 1 1 1 2 2 2 2 1 1 1 2 2 2 2 1 1 1 2 2 2 2 1 1 1 2 2 2 2 1 1 1 2 2 2 2 1 1 1 2 2 2 2 2 2 2 1 1 2 2 2 1 1 2 2 2 2 2 1 1 3 3 1 2 2 1 1 1 2 2 2 1 1 1 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 1 1 2 1 1 1 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 2 2 2 2 2 1 1 1 2 2 2 2 2 2 1 1 1 2 2 2 2 2 2 1 1 1 2	106 97 100 59 8 23 24 1 12 2 1 12 2 1 12 2 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 11 12 11 12 11 12 11 12 11 12 11 11

### RETURN OF CHILDREN PLACED UNDER CHILD WELFARE ACT AND LEGAL ADOPTIONS UNDER DOMESTIC RELATIONS ACT

at a subtract in factor		1931	1932	1933	1934	1935	1936	1937	1938	1323	
Number of children placed in foster homes Number legally adopted (Wards of	499	457	433	441	366	372	391	490	593	690	
Superintendent)	152	147	158	133	197	160	183	220	198	238	
Number of private adoptions (not Wards of Superintendent)	inie	23	18	23	52	40	48	48	51	65	

DELINQUENTS-AGES

			1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
7 y	ears							· ····				3
8 y	ears		12	14	15	6	10	5	3	6	7	7
9 v	ears		26	20	20	6	8	18	14	18	6	6
10 v	ears		30	29	23	26	34	30	19	27	18	17
11 v	ears		42	55	39	38	68	47	37	27	39	36
12 2	ears		88	76	42	48	54	68	58	69	52	53
	ears		148	95	60	65	69	78	80	63	88	65
14 2	ears		40	121	66	93	94	123	129	85	114	105
15 2	Gare		166	127	70	97	97	149	151	123	160	139
16 2	ears		42	57	24	41	57	83	125		164	180
17 1	cars							9	26	86	144	200
11.2	ears	Some second s										
		Total	594	594	350	420	491	610	642	606	795	811
		10tal	001	001	000	200	-101	010				
35.3			575	567	347	391	467	585	615	576	750	774
Male	es		19	27	19	29	24	25	27	20	45	27
Fem	ale		19	21	12	29	24	20	21	50	40	51

### DELINQUENTS-RELIGION

Dubing	C and a	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	CALLE CO.							
	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Anglican	74	48	32	69	75	55	64	61	91	88
Roman Catholic	132	191	111	99	121	144	192	129	229	187
United	79	48	23	89	74	102	86	64	87	107
Lutheran	116	22	26	18	45	80	67	25	34	60
Greek Orthodox	45	39	23	15	27	35	30	32	30	18
Greek Catholic	12	29	15	13	18	31	24	29	23	15
Protestant	27	153	88	65	95	113	114	204	184	218
Seventh Day Adventist					1	3	2			4
Mohammedan						1				
Brethren				2						
Christian	2							1	3	1
Baptist	19	24	15	13	15	21	23	10	24	17
Pentecostal							4	3	2	7
Presbyterian		24	14	16	12	19	27	25	39	37
Doukobour									1	
Latter Day Saints		4	3					1	14	17
Hebrew	7	7	3	2			3	6	12	10
Spiritualist									. 1	
Beulah Tabernacle					2	4			3	
Gospel Hall									2	
Christian Science		1			1		3		1	3
Four Square Gospel								11.1.0	1	1
Salvation Army	13	4	6	19	4	2	3	14		2
Church of Christ									2	1
Bible Student										
Church of God									2	1
Nazarene									7	4
Mennonite								1	1	1
German Baptist									2	2
German Dalyest										

DELINQUENTS-NATIONALITY

L'ELLING CE		A	******							
	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Canadian	502	581	320	166	326	380	558	569	668	101
English	21	24	3	53	30	57	10	5	12	10
Scotch	1	20	4	34	8	21	3	5	9	11
Irish	6	3	1	20	16	7	4	1	7	6
Italian		10			2	2	3		5	1
Russian	40	76	12	45	30	53	18		2	1010
Welsh		4		1		1	1		1	4
Roumanian				3	2	3	4		4	3
American	18	7	10	5	47	12	10	3	20	16
		11		3	6	7	8	8	25	23
	3	17	3	26	5	25	11	11	4	3
		13	1	47	10	16			1	1
				17			3	2	5	3
Hungarian	2		2			1		1	4	11
Halfbreed						14	3			1
Norwegian		2	3.014		1	2				and a
Finnish		10	2		2		4			
French		10			ĩ					
South African			****		-	1		1	4	5
Czecho-Slovakian	****		1			-		-	i	
Danish	4148	44.4.4	+		9				î	****
Chinese	****	1.1.1.0			3	8			*	2
Swedish	****					0		-		
Jewish	1	1				****	0	1018		1
Ukrainian		9			1111	****	41111			1
Mexican						****	****	1010	1	1
Dutch	10.00					****	4.4.8.0		1	2
Yugo-Slavian		****		101.8					T	4

DELINQU	DEINT:	S-OF	L FUA	CES						
Theft	1930 362	1931 247	1932 189	1933 131	1934 270	1935 283	1936 294	1937 428	1938 516	1939 437
Damage to property	87	82	59	108	72	62	86	62	67	54
Break and enter	58	88	36	81	103	89	76		178	206
Assault	7	10	5	2	9	20	17	11	15	16
Liquor Act						2		3	2	4
Vagrancy	1	1	3		3	6	2		10	7
Traffic Act	9	3	3		4	2	18		23	24
Fraud	1			100		10 100	1		8	
Forgery	Î	3		2			2	1	3	9
By-laws	83	113	31	17	18	65	41	90	260	262
Incorrigible	5	16	24	-	4	3	17	1	3	5
Fishery and Games Act					4		2		10	11
Domestic Animal Act					3	1	1	3	3	3
	10			5	4	2	â	2	1	9
Indecent assault	10			9	4	4	0	1	3	3
Creating disturbance	1	4	2	77		4	00	17	10	5
Railway Act	5	3	2	44	6		38			10
Immorality	3	10	2	6	8	32	10	7	14	19
False pretences	2	1		13			****		1	2
Trespassing			1						2	
In possession stolen property		3	8		13	3	16	4	40	23
Receiving stolen property	55	3		29	13	11	4	- 4	2	
Carnal knowledge				3	4	4	10			5
Obscene language	8	4		3	4	2	2		1	1
Arson	· · · · ·		3	3	1			9		
Incest			1		2				3	
Billiard Room Act							12			
Indecent conduct	1						23		3	
Truancy			7	3						
Contributing to delinquency				30	10	12	12		- 1	
In possession of firearms						2	4	1		6
		19		4	4		8			
Delinquency Beisening settle		19			1.50		2			
Poisoning cattle							-			
Molesting children					2		****			

DELINQUENTS-OFFENCES

DELINQUENTS-	-SENTENCES
warned a surrest	

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	
Attempted theft							3		8	18	
Buggery	1	1		1						2	
Libel	1										
Unlawfully wounding				3	2		13			3	
Public Health Act	1						13		****		
Robbery				3			1		15	10	
Mischief	****				1,111				10	11	
Attempt B. and E.		****							4	11	
Perjury Desinis Pine Act						****			1	4	
Prairie Fire Act						****			*	.4	

### MOTHERS' ALLOWANCE ACT

Suspended sentence	1930 181	1931 76	1932 70	1933 103	1934 79	1935 105	1936 164	1937 94	1938 108	1939 139	
Probation	200	187	112	194	161	207	227	149	207	213	
Made Wards	16	14	20	4	42	32	35	49	55	78	
To be strapped	9	2	1		1	3	4	11	35	13	
Adjourned sine die		7	6	39	19	8	22	34	56	32	
Fined	118	61	6	8	27	59	32	151	15	23	
Costs	175	137	37	51	69	116	128		202	247	
Restitution	93	71	52	38	38	19	4	62	129	86	
Reprimanded	21	6	43	58	30	25	48	49	29	39	
Warned	90	88	22	32	54	73	52	39	93	117	
Industrial School including suspended											
sentences		16	15	15	10	1	14	13	12	2	
Remanded to Police Court				4			2	12	38	37	
Cautioned		70						9	13		
School for Mental Defectives				1							
Returned to parents		9					6	6	4		
Dismissed	8	5	13	12		51	10				
Remanded	23	13	36	39	61	15	21				
Supervision	10	14	4	27							
Application for deportation		1									
Driver's license suspended									1	5	
Bicycle surrendered for period									48	30	
Rifle confiscated									2	4	
Write charge a number of times									32	64	
Write summons a number of times										17	

### THE CHILDREN OF UNMARRIED PARENTS ACT EXPENDITURES FOR YEAR ENDING MARCH 31, 1940

Expenses: Fees and Commissions Travelling Expenses Unclassified									8	00.00 00.00 45.00
									4	45.00
	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Number illegitimate births registered.	520	545	487	497	496	548	481	561	668	583
Number cases dealt with	214	224	200	244	221	177	159	248	377	388
Number cases closed	306	321	287	253	275	371	322	313	291	195

AMOUNTS RECEIVED FROM PUTATIVE FATHERS

	\$ 9,032.61 7,871.01		
1932	7,603.78	1937	8,701.70
$1933 \\ 1934$	5,526.93 6,746.00		

### APPRECIATION

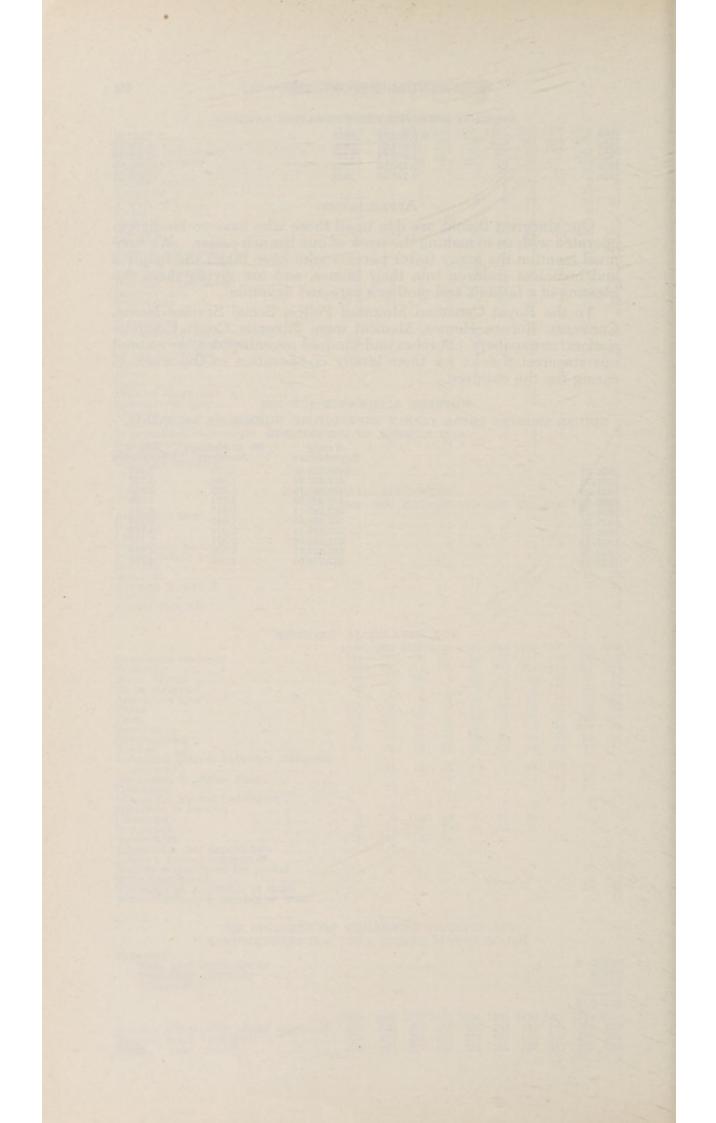
Our sincerest thanks are due to all those who have so kindly cooperated with us in making the work of our Branch easier. We here must mention the many foster parents who have taken the helpless and homeless children into their homes, and are giving them the blessing of a father's and mother's care and devotion.

To the Royal Canadian Mounted Police, Social Service Home, Convents, Refuge Homes, Medical men, Juvenile Court Commissioners, newspapers, churches and kindred organizations, we extend our sincerest thanks for their kindly co-operation in the work of caring for the children.

### MOTHERS' ALLOWANCE ACT, 1919

### RETURN SHOWING TOTAL YEARLY EXPENDITURE. NUMBER OF RECIPIENTS. AND NUMBER OF DEPENDENTS

	Yearly Expenditure	No. of Mothers Assisted	No. of Dedepdents
1930-31	\$466,536.00	1.270	3,409
1931-32	479.607.04	1,499	3.747
1932-33	439.195.75	1.675	3,882
1933-34	120 022 00	1,724	4.060
1934-35	469 202 11	1,812	4,274
1935-36	 507 501 69	2,088	4.764
1936-37	 575,508.41	2.319	5,172
1937-38	613.564.00	2,317	5,177
1938-39	699 836 71	2,304	4,970
1939-40	633,710.60	2,262	4,673

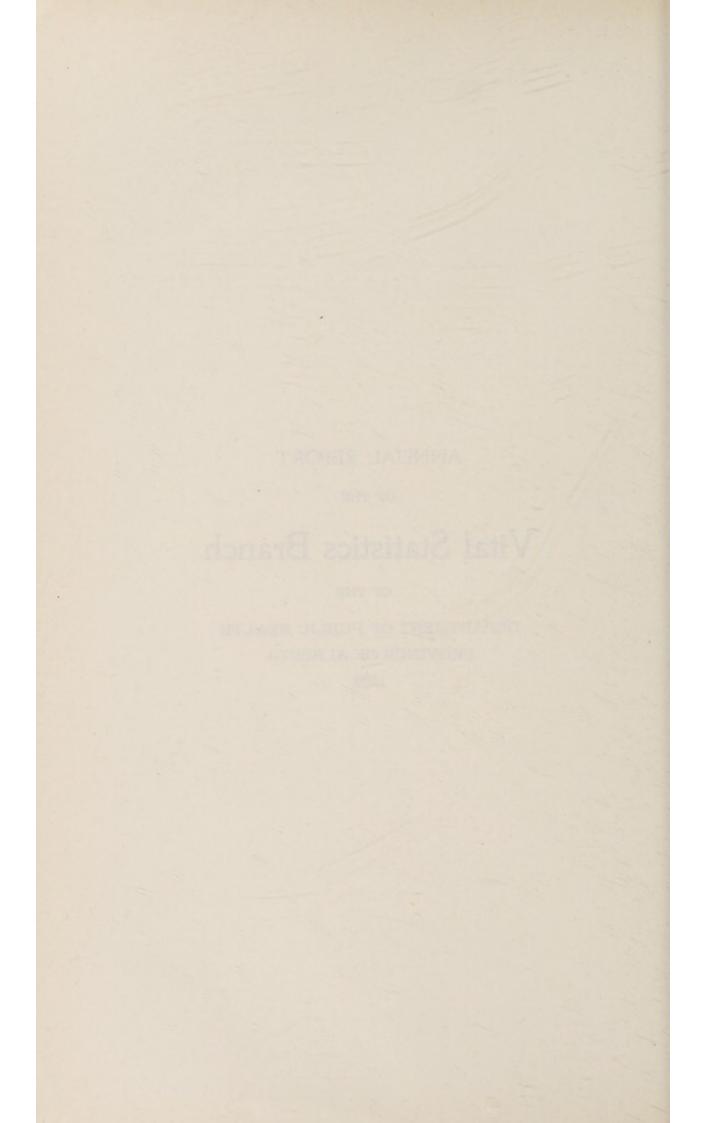


### OF THE

# Vital Statistics Branch

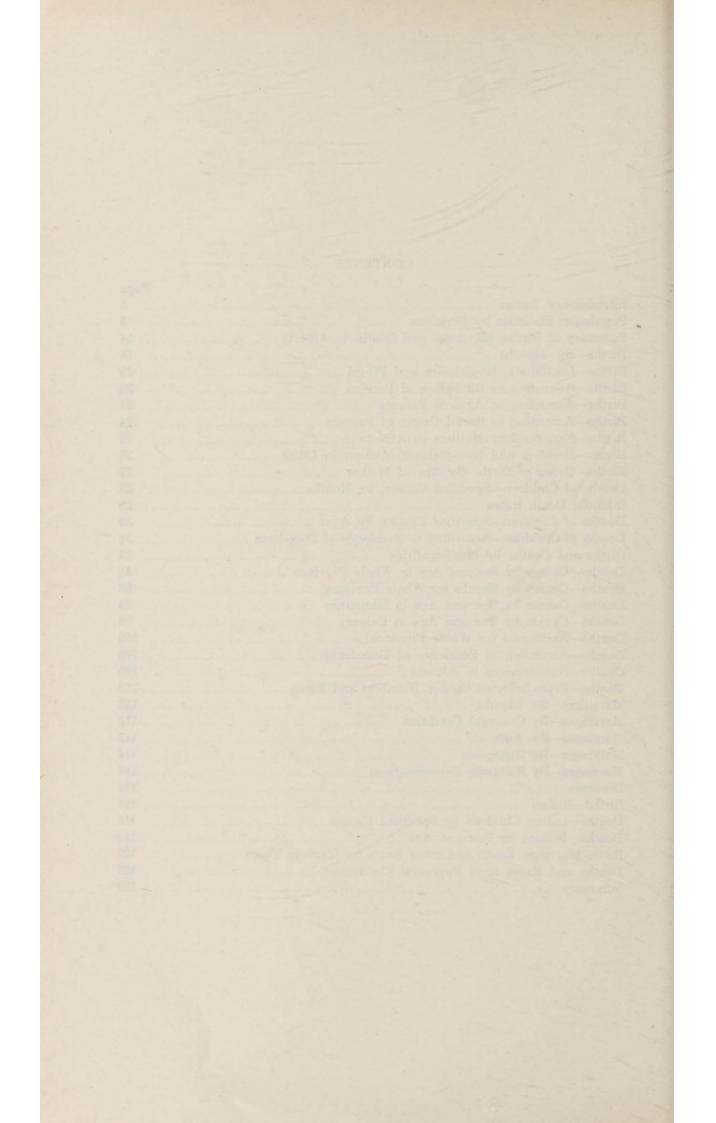
OF THE

DEPARTMENT OF PUBLIC HEALTH PROVINCE OF ALBERTA 1939



### CONTENTS

	Fage
Introductory Letter	5
Population Statistics by Divisions	
Summary of Births, Marriages and Deaths in Alberta	
Births—By Months	
Births-Legitimate, Illegitimate and Plural	
Births-According to Birthplace of Parents	20
Births-According to Ages of Parents	22
Births-According to Racial Origin of Parents	24
Births-Non-resident Mothers in Alberta	
Births-Resident and Non-resident Mothers in Cities	
Births-Order of Birth-By Age of Mother	27
Deaths of Children-Specified Causes, by Months	28
Infantile Death Rates	
Deaths of Children-Specified Causes, by Ages	30
Deaths of Children-According to Residence of Decedents	32
	33
Deaths-Causes by Sex and Age in Whole Province	48
Deaths-Causes by Months for Whole Province	
Deaths-Causes by Sex and Age in Edmonton	
Deaths-Causes by Sex and Age in Calgary	
Deaths-Accidental for Whole Province	108
Deaths-According to Residence of Decedents	109
Deaths-Non-resident in Alberta	109
Deaths-From Selected Causes, Numbers and Rates	
Marriages-By Months	112
Marriages—By Conjugal Condition	112
Marriages—By Ages	
Marriages-By Birthplace	
Marriages—By Religious Denominations	
Divorces	117
Births—Indian	
Deaths-Indian Children by Specified Causes	118
Deaths—Indians by Sex and Age	119
Birth, Marriage, Death and other Rates for Various Years	127
Deaths and Rates from Puerperal Conditions	
Summary	128



# VITAL STATISTICS BRANCH

(DONALD MACKIE, Deputy Registrar General)

The Vital Statistics for the Province of Alberta for the year 1939 reveal an increase in the birth rate, a decrease in the death rate, and a considerable increase in the marriage rate. There are decreases in the infant mortality and maternal death rates.

The birth rate, after having steadily declined for a number of years, is now moving upwards. This trend, however, may be only temporary, as it has not taken place in Canada as a whole. Alberta has the highest birth rate of all the provinces west of Quebec.

The large increase in the marriage rate applies to all Canadian provinces, and is doubtless due to the war, many men marrying on enlisting.

The death rate from epidemic and contagious diseases is somewhat lower than that of the previous year, although there was a slight increase in the number of deaths from Influenza, the previous year being exceptionally low. A considerable decrease is shown for pneumonia, being the lowest for a number of years. Scarlet Fever, Diphtheria, Typhoid, Measles and Poliomyelitis are also considerably lower, the four last mentioned diseases being less than half of the number recorded for the preceding year. Whooping Cough is slightly higher, but well under the average for the last ten years. The rate from Cancer is lower than the previous year, which was a high record; the general trend is still upwards. Heart Disease again accounts for the largest number of deaths, and is steadily increasing year by year. Deaths by violence are practically the same as in the previous year. There is, however, a considerable increase in the number of drownings.

The population of the Province for the year 1939 has been estimated by the Dominion Bureau of the Census at 789,000. All rates in this report have therefore been based on that figure.

### BIRTHS

The number of living children born and registered during the year amounted to 16,470, constituting a birth rate of 20.9 per 1,000 population. This is 579 more than the number for the previous year, and is an increase of .6 in the rate. Comprising the 16,470 births were 8,420 males and 8,050 females, being a ratio of 1,046 males to 1,000 females, which is the same ratio as the previous year and exactly the average for the preceding eleven years. There were 460 twins (230 sets) and 6 triplets (2 sets) born during the year. Illegitimate births numbered 617, being 66 fewer than the number for the previous year, and constituting a rate of 3.7 per 100 births.

Of the total births registered 8,321 occurred in cities and towns of over 1,000 population, 7,268 in the rural districts, and 881 on Indian reservations. In the four large cities the births were as follows: Edmonton 2,841, Calgary 1,746, Lethbridge 660, and Medicine Hat 355. For purposes of comparison, the following are the birth rates for Canada and the Provinces for the year 1939:

	BIRTH	RATES	
Canada Dalacea Ridareada Valenda		Ontario	$17.1 \\ 18.7$
Prince Edward Island Nova Scotia		Manitoba Saskatchewan	19.0
New Brunswick	25.0	ALBERTA British Columbia	20.9
Quebec	24.0	British Columbia	10.0

### MARRIAGES

There were 7,838 marriages registered during the year. This is 865 more than the number for the previous year, and is 1,558 more than the average for the five preceding years. This is the largest number of marriages in the history of the Province, although the rate has been exceeded twice. The rate for the present year is 9.9 per 1,000 population.

Of the 7,838 marriages, 150 are brides of 16 years of age and under, 1,636 are between the ages of 17 and 19, and 3,627 are between the ages of 20 and 24. There\_were 77 grooms and 37 brides over 60 years of age, 15 of these grooms and 8 of the brides being over 70 years of age. The number of marriages in the four largest cities are as follows: Edmonton 1,910, Calgary 1,528, Lethbridge 348, and Medicine Hat 249.

For purposes of comparison, the following are the marriage rates per 1,000 population for Canada and the Provinces for the year 1939:

IVI	ARRIAGE	RATES	
Canada Prince Edward Island Nova Scotia New Brunswick Quebec	6.7 9.0 8.3	Ontario Manitoba Saskatchewan ALBERTA British Columbia	9.2 10.6 7.7 9.9 10.2

### DIVORCES

There were 267 divorces granted by decre absolute during the year, which is the same number as the previous year, and is 47 more than the average of the preceding five years; 104 were granted to husbands and 163 to wives. In addition to the divorces, 5 decrees of nullity were issued.

### DEATHS

The deaths of 5,789 persons (including Indians) were registered during the year, of whom 3,468 were males and 2,321 were females. This number is 82 less than in the previous year, and constitutes a death rate of 7.3 or .2 less than in the preceding year. There were 374 males and 282 females 80 years of age or over at the time of death, whilst 2 males and 3 females were centenarians.

For purposes of comparison, the following are the death rates per 1,000 population for Canada and the Provinces for the year 1939:

DEATH RATES

Canada	11.8	Ontario	10.0
Prince Edward Island		Manitoba	8.5
Nova Scotia New Brunswick Quebec	11.3	Saskatchewan ALBERTA British Columbia	6.3 7.3

Heart Disease is still the most frequent cause of death, the rate being 126 per 100,000 population compared with 114 for the previous year. The Cancer death rate decreased from 87 for the previous year to 82 for the present year.

There was a considerable decrease in the deaths from Pneumonia, the number being 362 as against 488 for the previous year, the respective rates being 46 and 62. There was an increase in the number of deaths from diseases of the arteries, the number for the present year being 550 compared with 455 for the previous year, and the rate being 70 as against 58. There was a small increase in the number of deaths from Influenza, but as the rate from this disease was exceptionally low for the previous year, the rate for the present year is well below the average; the number of deaths were 216, the rate being 27. Deaths by violence (excluding suicide) numbered 364, being a rate of 46, as compared with 357 and a rate of 46 for the previous year. The death rate from Pulmonary Tuberculosis was slightly higher than the previous year, which was a record low. The year under review is therefore the second lowest in the history of the Province. The number of deaths is 217 compared with 206 for the previous year, the corresponding rates being 27 and 26.

Deaths from contagious diseases were all considerably lower, with the exception of Whooping Cough, which had the same rate as the previous year, namely, 4 per 100,000 population. Deaths from Scarlet Fever, Diphtheria, Typhoid, Measles and Poliomyelitis together numbered 44, compared with 100 for the previous year. There was again no deaths from Smallpox. Deaths resulting from pregnancy and childbirth numbered 59, being 9 less than in the previous year, and constituting a death rate of 7 per 100,000 population, or 3.5 per 1,000 live births.

The following table shows certain principal causes of death during the year. Both the actual number and the rate per 100,000 population of each is given, together with the figures for the four preceding years:

	19	39	193	38	19	937	19		19	935
Causes of Death	Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000
Diseases of the Heart Cancer Diseases of the Arteries Violent Deaths (Suicides ex- cepted) Pneumonia (all forms) Pulmonary Tuberculosis Influenza Nephritis Appendicitis Suicides Cerebral Haemorrhage Diabetes Mellitus Diarrhoea and Enteritis Puerperal Causes Whooping Cough Scarlet Fever Diphtheria Typhoid and Paratyphoid Measles Poliomyelitis	$\begin{array}{c} 997\\ 647\\ 550\\ 364\\ 362\\ 217\\ 216\\ 214\\ 109\\ 103\\ 96\\ 90\\ 90\\ 90\\ 590\\ 333\\ 19\\ 7\\ 7\\ 7\\ 6\\ 5\end{array}$	$126\\82\\70\\46\\46\\27\\27\\27\\14\\13\\12\\11\\11\\8\\4\\2\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1$	$\begin{array}{r} 895\\ 682\\ 455\\ 357\\ 488\\ 206\\ 174\\ 243\\ 146\\ 100\\ 102\\ 85\\ 118\\ 68\\ 30\\ 25\\ 118\\ 12\\ 30\\ 15\\ \end{array}$	$114\\87\\58\\462\\226\\222\\311\\12\\13\\11\\15\\8\\4\\3\\2\\2\\4\\2\\2\\4\\2$	$\begin{array}{r} 849\\ 598\\ 453\\ 372\\ 464\\ 266\\ 473\\ 240\\ 108\\ 101\\ 104\\ 101\\ 104\\ 70\\ 115\\ 77\\ 49\\ 24\\ 10\\ 6\\ 123\\ 13\end{array}$	$109 \\ 77 \\ 58 \\ 48 \\ 59 \\ 34 \\ 61 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 15 \\ 10 \\ 6 \\ 3 \\ 1 \\ 16 \\ 2$	801 640 427 419 294 340 190 155 87 105 87 105 87 105 70 124 91 73 23 9 200 225 4	$\begin{array}{c} 103\\82\\55\\57\\38\\44\\20\\11\\13\\9\\16\\11\\9\\3\\1\\2\\3\\1\\2\\3\end{array}$	$\begin{array}{c} 826\\ 622\\ 404\\ 393\\ 450\\ 266\\ 194\\ 156\\ 844\\ 113\\ 71\\ 88\\ 69\\ 43\\ 8\\ 8\\ 11\\ 27\\ 15\\ \end{array}$	$105 \\ 791 \\ 50 \\ 577 \\ 34 \\ 244 \\ 20 \\ 111 \\ 144 \\ 91 \\ 111 \\ 14 \\ 91 \\ 51 \\ 11 \\ 13 \\ 22 \\ 12 \\ 12 \\ 13 \\ 22 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$

The foregoing list comprises 4,191 deaths, and amounts to 72.4 of the total deaths for the year.

### INFANT DEATHS

The deaths of children under one year of age numbered 763 as against 812 for the previous year, the corresponding rates per 1,000 births being 46 and 51, a reduction of 5 in the rate and 49 in the number of deaths. The present infant death rate is 11 less than the average of the preceding 5 years, and is the lowest in the history of the Province. It is satisfactory to note that the infant death rate continues to progressively decline.

For purposes of comparison, the following are the infantile mortality rates per 1,000 births for Canada and the Provinces for the year 1939:

### INFANT MORTALITY RATES PER 1,000 BIRTHS

Canada Prince Edward Island	61 79	Ontario Manitoba	47 55
Nova Scotia New Brunswick		Saskatchewan ALBERTA	51
Quebec		British Columbia	

The number of deaths by suicide is 10.3, an increase of 3 from the previous year, whilst the deaths from murder and manslaughter were 13, being a decrease of 2.

Stillbirths numbered 335, being 16 less than the number for the year 1938.

### DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTICS PURPOSES

As the Province of Alberta is not divided into Counties, and the political divisions are not permanently fixed, it has been found advisable to use as smaller areas, the Dominion Census Divisions.

These Divisions are fixed, and as the population increases, may be subdivided without destroying their value for purposes of Vital Statistic comparison with preceding years.

The following table shows these Census areas divided into Municipalities, Local Improvement Districts, Cities, Towns and Villages with the 1936 and 1931 official Division population figures.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931

Gamma Divisions and	Popu	lation	Census Divisions and	Population		
Census Divisions and Municipalities	1936	1931	Municipalities	1936	1931	
Province	772,782	731,605	Division No. 2—Continued: Towns—Continued:	p int		
Division No. 1: Medicine Hat	29,699	28,849	Coleman	2.129	1.70	
1 L.I.D.	0.9	90	Diamond City	143	11	
2 L.I.D.	162	128	Granum	255	32	
3 L.I.D.	172	152	Macleod	1,365	1,44	
4 L.I.D.	555	526	Magrath	1,217	1.22	
5 L.I.D.	1.251	1,097	Pincher Creek	999	1,02	
6 L.I.D.		678	Raymond	2,094	1,84	
31 L.I.D.		38	Villages: Coaldale	255	25	
32 L.I.D.		580	Coalhurst		95	
33 Flowery Plains	533		Cowley	141	15	
34 Burlington 35 L.I.D.	1000		Frank	070	26	
36 Warner			Monarch	103	11	
61 L.I.D.	821	808	Pincher City	. 38	4	
62 L.I.D.			Stirling	392	37	
63 L.I.D.	625					
64 Forty Mile	1,148		Division No. 3: Bow	14,710	15,06	
65 Eureka	1,190		96 McLean		71	
66 L.I.D.	2,549		121 L.I.D.			
91 L.I.D.	1,170		122 L.I.D. Pt. Jubilee	2 2 2 2 2 2	20	
92 Excelsior	974		123 Pt. Bow Slope	4 45 101	7	
93 L.I.D.	890 614		125 L.I.D. 127 Pt. Clifton	914		
94 Bow Island	014	000	Towns:			
Cities: Medicine Hat	9,592	10,300	Bassano	574	61	
Towns:	0,000	10,000	Brooks	. 697	70	
Bow Island	308	314	Redcliffe		1,19	
Irvine		234	Villages:	11 1122		
Taber	1,341	1,279	Duchess	150	11	
Villages:		101	Empress	303	31	
Burdett		0.00	Enchant		i	
Milk River			Jenner Retlaw		2	
Warner	-LINTERS	342				
Division No. 2: Macleod	57,499		Division No. 4: Nanton 97 L.I.D.	28,285	29,00	
7 L.I.D.	1.394		98 Little Bow		1,5	
8 L.I.D. 9 L.I.D.			127 Clifton Pt.	867		
9 L.I.D. 10 Cochrane			128 Harmony	1,052	1,1	
37 Sugar City	2,192	1,993	129 Clear Lake	2,021	2.2	
38 L.I.D.	1,110	1,276	130 L.I.D.	348	3	
39 Kerr	1,830	2,007		38	1.9	
40 Castle River	. 606	540	157 Marquis	1,773	1.7	
67 L.I.D.	4,635		158 Royal	A (0.0 4)	1.9	
68 L.I.D.	2,467		159 Riley 160 L.I.D.		3	
69 Bright	1,198		160 L.I.D. 161 L.I.D.			
70 Livingstone	1,466		189 Dinton		1.9	
71 L.I.D.			190 Sheep Creek		1.9	
99 Argyle			191 Stockland	2,957	2,9	
100 L.I.D. 101 L.I.D.	173		192 L.L.D.	. 9		
Indian Reserves				4		
Cities:			Towns:	11111111111		
Lethbridge	. 13,523	13,489	High River	1,359	1.4	
Towns:	182.20		Nanton	709	7	
Blairmore	1,682		Okotoks	301	3	
Cardston Claresholm				0.00		

### VITAL STATISTICS BRANCH

### POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and	Popu	lation	Census Divisions and	Population		
Municipalities	1936	1931	Municipalities	1936	1931	
Division No. 4—Continued:			Division No. 6-Continued:			
Villages:	1.000		Olds	1.197	1,05	
Arrowwood			Strathmore		52	
Barons		284	Three Hills	. 659	58	
Black Diamond		683 251	Villages: Acme	291	23	
Blackie Carmangay		279	Airdrie		19	
Cayley	105	127	Albert Park			
Champion			Beiseker		23	
Lomond	127	176	Carbon		35	
Milo			Carstairs		38	
Nobleford		143	Cluny		13	
Turner Valley	475	656	Cochrane Crossfield		29 32	
Division No. 5: Acadia	21,391	26,651	Forest Lawn		04	
22 Pt. Jubilee			Hussar		15	
14 Berry Creek		581	Irricana		16	
41 Acadia	826		Langdon	101	8	
42 Cereal			Newcastle		30	
43 Collholme			Rockyford	211	19	
71 Bertawan 72 Golden Centre			Rosebud Standard		10 21	
72 Golden Centre 73 Sounding Creek			Swalwell		21	
74 Richdale			Trochu		50	
75 Hand Hills		1,189		Lun Calles	have the	
76 Pt. L.I.D.			Division No. 7: Battle River	37,647	38,10	
77 Michichi			305 Pt. Dowling Lake			
01 Canmer			331 L.I.D. 332 L.I.D.		1.18	
02 Stewart 03 Wiste		1.199	332 L.I.D. 333 L.I.D.		1,01	
04 Hiram			334 Coronation		2.02	
05 Dowling Lake			361 Rosenheim	1.470	1.74	
06 Lambton			362 Hillcrest	1.176	1.20	
07 Starland	1,297	1,446	363 Stocks		1,18	
Towns:			364 Flagstaff	1,796	1.68	
Hanna			365 Progress		1.99	
Youngstown	. 187	372	391 Sifton 392 Vale		1,47	
Villages: Cereal	131	185	392 Vale 393 Huamha		1.23	
Chinook	134	176	394 Asquith		1.20	
Craigmyle			395 Wheatland		1.81	
Delia			421 Ribstone	1.644	1.45	
Morrin			422 Gilt Edge	1.767	1.67	
Munson			423 Battle River		1.46	
Oyen Blabdala			424 Kinsella 425 Stirling		1.23	
Richdale Rumsey	0.1	83	455 Iron Creek		2,12	
			Towns:	2,210		
ivision No. 6: Calgary	141,806	140,624	Castor	. 592	63	
23 Pt. Bow Slope	. 547		Coronation		73	
17 L.I.D.		1 500	Hardisty		42	
18 Blackfoot		1,590	Wainwright	1,048	1,14	
19 Bow Valley		3.048	Villages: Alliance	263	20	
20 Shepard 21 Springbank			Cadogan		12	
22 L.I.D.	4 100 10	438	Chauvin		26	
47 L.I.D.	. 958	1,073	Compeer	88		
18 Grasswold		1.448	Consort	1	29	
19 Keoma		1.525	Czar		14	
50 Beddington		2,272	Edgerton		18	
51 L.I.D. 52 L.I.D.			Galahad	and the second second	15	
76 L.I.D. Pt.			Hughenden		19	
78 Carbon			Irma		19	
79 Norquay		2,170	Killam		32	
30 Rosebud			Lougheed		21	
81 Beaver Dam		1,926	Monitor		13	
32 L.I.D. 08 Ghost Pine			Provost Sedgewick		53	
09 Stauffer		2.027	Strome		17	
10 Mountain View		2.506	Veteran		18	
11 Westerdale	0.000	2,420	Viking		49	
Unorganized Parts	1.752	2,238			1. 1. 1.	
Indian Reserves			Division No. 8: Red Deer		61,01	
Banff	2,037	2,519	336 Success		1.70	
Cities:	82 407	83,761	337 Vimy 338 Hays		1.07	
Calgary Drumheller			338 Hays 339 Pine Lake		2.36	
Towns:	2,016	2,001	340 Arthur		2.17	
Didsbury	846	801			1.42	
Gleichen		514	367 Waverly	2,061	1,99	

### POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and	Popul	ation	Census Divisions and	Population		
Municipalities	1936	1931	Municipalities	1936	1931	
Division No. 8—Continued:			Division No. 10: Vistoria	C1 250		
96 Haig	1.572	1,486	Division No. 10: Victoria 451 Merton	- C	58,04 1.79	
97 Lakeside	1.615	1,622	452 Grizzly Bear		1.39	
98 Lamerton	2,600	2,205	453 Buffalo Coulee	1,554	1,29	
99 Crown	4,105	3,689	454 Lakeview		1.52	
26 Melrose	2.874 2.788	2,537 2,592	481 Wellington	2.124	1.88	
27 Evergreen 28 Waterglen	1.510	1.386	482 Vermilion Valley 483 Melberta		1.84	
29 Fertile Valley	4.512	3.856	484 Birch Lake	2,478	2.31	
56 Parkland	2,858	2,971	485 Patricia		2.11	
57 Lloyd George	2,973	2,791	486 Beaver Lake		3,02	
58 Montgomery	3.553	3,329	511 Streamstown		2,2	
59 Bigstone	3,452	2,807	512 Ethelwyn		3.03	
Indian Reserves Cities:	1,199	1,141	513 Ukrainia 514 Sobor		3,24	
Red Deer	2.384	2.344	515 Norma		3,32	
Wetaskiwin	2,058	2,125				
Towns:			545 Eagle		4.10	
Big Valley	359	455	546 Wostok		4.58	
Camrose	2,263	2,258	547 Leslie	3,666	3,71	
Daysland	366	404	Towns:	100		
Innisfail Lacombe	1.124	1,024 1,259	Lloydminster Pt. Vegreville		5:	
Ponoka	1.045	836	Vermilion		1.2	
Stettler	1.202	1,219	Villages:	1.001	*	
Villages:			Andrew	137	1	
Alix	333	241	Bruderheim		2	
Bashaw	423	385	Chipman		2	
Bawlf	236	183	Derwent		10	
Bittern Lake Blackfalds	32	47 84	Holden Innisfree	273 245	23	
Botha	98	107	Islay		1	
Clive	242	215			2	
Delburne	236	193			5	
Donalda	182	169	Lavoy		1	
Edbérg		131	Mannville		3	
Elnora	149	153	Minburn		1	
Erskine	164	174 161	Mundare		8	
Ferintosh Gadsby	120	144	Myrnam Ranfurly		11	
Halkirk	139	160		0.00	2	
Heisler	156	125				
Millet		300			2	
Mirror	585	534		1.000	1	
New Norway	177	142	Division No. 11: Edmonton			
Ohaton Penhold	46	69	487 Cornhill			
Penhold	94	125	FOR APTECON OFFICE		3,7	
ivision No. 9: Rocky Moun-		1	489 Liberty 490 Pioneer			
tain House	29.859	24,503	491 L.I.D.			
2 Waterloo	1.343	1.008	517 Clover Bar		2,7	
1 Poplar Grove	3.003	2,540	518 Strathcona	3,871	3,5	
2 Raven	2,242		519 Spruce Grove		3,4	
13 Prairie Creek	846	610	520 Inga	3,096	2.8	
14 L.I.D.	2.526	2.266	521 Tomahawk	1.705	1,4	
1 Golden West 00 Lorne	2,526	2,284			3,5	
11 Lochearn	2,913	2,221	550 Woodford	0.000		
13 L.I.D.	363	347	551 Morthen			
30 Blindman	1.599	1.376	Indian Reserves		3	
31 Last West	1,736	1.074	Cities:		-	
32 L.I.D.	53	17	Edmonton	85,774	79,1	
33 L.I.D.	164 287	24 366	a o mano .	998	1.1	
34 L.I.D. 30 Columbia	1.646	1.104	Beverly Fort Saskatchewan			
1 L.I.D.	1.127	712				
52 L.I.D.	307	101	Morinville		5	
33 L.I.D.	90		St. Albert	811	8	
6 L.I.D.	1,790	1919	Stoney Plain	499		
Unorganized Parts	1.094	2.895	Tofield	544	4	
Indian Reserves	1 222	1 220		57	1	
Jasper Villages	1,322	1,230	Alberta Beach		1	
Villages: Bentley	250	233	Hay Lakes Onoway			
Bowden	270	233				
Eckville	159	169				
	359	318		1 martine		
North Red Deer						
North Red Deer Rimbey Rocky Mountain House	313 652	304	Division No. 12: Edson 466 L.I.D. pt.			

### POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931-Continued

Census Divisions and	Popu	lation		Census Divisions and	Population		
Municipalities	1936	1931		Municipalities		1931	
Division No. 12—Continued:			Div	vision No. 14—Continued:	-	NO 23	
522 Rocky Rapids 523 L.I.D.	1,728	1,148	726		396 86	27	
525 L.I.D.	24	24		T. 71-74, R. 22-24, W. 4,	00		
26 L.I.D.	136 490	116 244		N. of Athabasca R. L.I.D.	26	12	
527 L.I.D. 552 Pembina	2.431	2,041	123	L.I.D. Indian Reserves	21	10	
53 L.I.D.	1.037	728		Towns:	000	=7	
54 L.I.D. 55 L.I.D.	870 733	685 655		Athabasca Villages:	608	57	
56 L.I.D.	240	274		Barrhead	307	22	
58 L.I.D. 82 Kitchener	2,478	57 2,340		Clyde Lac La Biche	153 410	18 31	
83 L.I.D.	759	654		Legal	394	35	
84 L.I.D. 12 L.I.D.	574 472	543 341		Smoky Lake Westlock	428	36 53	
Territorial Units 615, 585	18	12 1.133		Waskatenau	241		
Unorganized Parts	199	1	Div	ision No. 15: Clearwater	15,739	13,66	
Edson	1,600	1,547		L.I.D. L.I.D.	182	5	
Villages: Entwistle	150	189			804 22	54	
Mayerthorpe	209	159	705	L.I.D. L.I.D.	24	2	
Division No. 13: Beaver R.	30,602	24,936		L.I.D.	292 209	27 14	
41 L.I.D.	910	745 933		L.I.D. L.I.D.	84	2	
42 Lincoln 43 Laurier	1,249	2.646	1000	L.I.D. L.I.D.	31 82	47	
44 Champlain	2,399	2,257	730	L.I.D.	156	17	
71 L.I.D. 72 Bonnyville	267	65 1.419		L.I.D. L.I.D.	431 670	36 57	
73 St. Vincent	2,951	2,554	733	L.I.D.	678	50	
74 St. Lina 75 Vilna	1,146 3,903	817 3.756		L.I.D. L.I.D.	112 164	14 14	
01 L.I.D.	1,195	760	736	L.I.D.	56	4	
02 L.I.D. 03 L.I.D.	1,567	1,105 615	10.000	L.I.D. L.I.D.	61 621	2 41	
04 L.I.D.	640	497	764	L.I.D.	1,420	1,33	
05 Ashmont 31 L.I.D.	1,814 951	1,616 677	765	L.I.D. L.I.D.	1,176 534	1,10 50	
33 L.I.D.	44	82	767	L.I.D. L.I.D.	84	2	
34 L.I.D. 35 L.I.D.	255 915	186 568		L.I.D. L.I.D.	180 802	14 64	
63 L.I.D.	17		796		2,791	2.40	
64 L.I.D. 66 L.I.D.	22 545	13 320		L.I.D. L.I.D.	18 251	1 21	
95 L.I.D.	308	218	826	L.I.D.	764	89	
Territorial Units 632, 661 Indian Reserves	1.720	5 1.514		L.I.D. Territorial Units 622, 670.	577	47	
Villages:				676, 677, 678, 679 and un-			
Bellis Bonnyville	127 433	117 362		organized parts Indian Reserves	148 963	4 90	
St. Paul	950	938	1.0	Towns:	1		
Vilna	253	151		Grouard Peace River	185 883	26 86	
Division No. 14: Sturgeon	45,790	39,508	perc	Villages:			
76 Smoky Lake 77 Unity	4,319 4,871	4,268 4,919		Falher	284	25	
78 Opal	3.318	3.286	Div	ision No. 16: Peace River	29,204	27,94	
79 Hazelwood 80 Lockerbie	3.627	$3,438 \\ 2,444$	740	Grande Prairie Bear Lake	2.388	2.38	
81 Pershing	2,158	1,664	741	L.I.D.	1,599	1,56	
06 L.I.D. 07 L.I.D.	148	131 887		L.I.D. L.I.D.	466 661	46	
08 Tawatinaw	2.223	8,147	770	L.I.D.	981	87	
09 Pibroch 10 Shoal Creek	2,380 2,553	2,210 2,095	I THE O	L.I.D. L.I.D.	1,850	1.73	
11 L.I.D.	909	406	797	L.I.D.	658	54	
36 L.I.D. 37 Cartier	540	217 1.273		L.I.D. L.I.D.	336 173	29 16	
38 Nelson	1,701	1,486	827	L.I.D.	126	16	
39 L.I.D. 40 L.I.D.	848 953	757 687		L.I.D. Spirit River	633 1.890	38 1.80	
65 L.I.D.	1.151	1.130	830	L.I.D.	878	73	
67 L.I.D. 68 Grosmont	1,622 805	1,342 886		L.I.D. Peace	2 155	48	
69 L.I.D.	506	79	858	Fairview	2,155 2,443	2,26	
96 L.I.D. 97 L.I.D.	212 572			L.L.D.	705	51	
98 L.I.D.	34	40	887	L.I.D.	497 744	50 52	
99 L.I.D.	459	357	1888	L.I.D.	597	58	

### POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1936 AND 1931-Continued

Census Divisions and	Popul	ation	Census Divisions and	Population		
Municipalities	1936	1931	Municipalities	1936	1931	
Division No. 16-Continued:			Division No. 16-Continued:			
889 L.I.D. 890 L.I.D.	574 58	425 34	Fairview Grimshaw	393	260 137	
COLT T T D	114	77	Trutho	129 260	278	
916 L.I.D.	237	231	Sexsmith	298	304	
917 L.I.D.	338	298	Spirit River	234	232	
Unorganized Parts	220	72	Wembley	173	183	
Indian Reserves	83	1,068		1.1.1.1.1		
Towns:			Division No. 17: Athabasca	8,713	5,788	
Grande Prairie	1,478	1,464				
Villages:			comprising northern parts	5,465	4,312	
Beaver Lodge	203	211	Indian Reserves	3,248	1,476	
Clairmont	104	110		0000		

TABLE 1.—GENERAL SUMMARY OF BIRTHS, DEATHS AND MARRIAGES IN THE PROVINCE OF ALBERTA BY DIVISIONS, CITIES TOWNS AND VILLAGES OF 1,000 POPULATION AND OVER, 1939

			VITAL STATISTICS BRAN	СН	
	səğei	Mar	$\begin{array}{c} 7838\\ 7238\\ 7238\\ 728\\ 811\\ 1913\\ 811\\ 1913\\ 2655\\ 5398\\ 11913\\ 2642\\ 2642\\ 1913\\ 2642\\ 1338\\ 1338\\ 2330\\ 1338\\ 2330\\ 1338\\ 2330\\ 2$	1528 97 1910 348 249 99 73	54 202 2102 212 212 212 212 212 212 212 21
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	ars over	F.	1872 688 159 222 51 230 430 246 105 406 105 406 105 79 79 79 79 79 79 79 79	317 29 349 74 246 246 15	20 20 20 20 20 20 20 20 20 20 20 20 20 2
1	5 years and over	M.	2933 241 241 241 241 242 352 667 667 667 667 667 80 2667 80 2667 80 2667 80 2667 80 2667 80 2667 80 2667 80 2667 80 2682 80 2488 852 852 852 852 852 852 852 852 852 8	471 39 33 33 33 23 23 23	7 255 13 13 13 13 13 13 13 13 13 13 13 13 13
	years	F.	11 132 132 132 132 132 132 132 132 132 1	*******	- 0-0
	1-4 3	M.	100 110 120 120 120 120 120 120 120 120	13 5 1	
DEATHS	Under 1 year	F.	$ \begin{array}{c}     333 \\     132 \\     132 \\     136 \\     6 \\     6 \\     13 \\     16 \\     16 \\     16 \\     16 \\     16 \\     16 \\     16 \\     17 \\     10 \\   $	8040000	-00 -01-
DF	Uno 1 y	M.	430 66 77 75 75 75 75 75 75 75 75 75 75 75 75	21 21 11 8 33 4 11 8	-001-044
		F.	2321 201 201 201 201 205 205 205 205 205 204 205 201 204 202 202 202 202 202 202 202 202 202	332 332 332 332 332 332 332 332 332 332	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	All Ages	M.	3468 1068 522 532 533 141 141 153 1988 1744 198 1744 155 1988 151 151 151 151 151 151 151 151 151 1	506 415 109 719 719 719 719	28 158 120 120 120 120 120 120 120 120 120 120
	A	Total	5789 1885 1877 181 151 151 153 1243 1243 1243 1243 1243 1243 1243 124	861 75 195 132 52 52	882233453
	Still-	F.	8050 2050 2050 1119 175 175 175 175 175 175 175 175 175 175	922 110 1404 302 175 81 106	10.10 258 258 258 258 258 258 258 258 258 258
Births	irths)	M.	8420 242 842 800 133 133 133 133 133 133 133 133 133 1	824 1437 358 180 69 69	101 85 33 34 30 101
I	(Exclusive of 5 births)	Total	16,470 1507 1507 1507 252 372 168 2691 1542 5329 3329 3329 3329 535 1094 1094 1094 1094 1094 3311 3311	1746 232 2841 660 355 150 213	111 213 171 59 56 85 182 182
	Divisions, Cities, Towns and Villages		TOTAL FOR THE PROVINCE Division No. 2 Division No. 3 Division No. 3 Division No. 5 Division No. 6 Division No. 6 Division No. 10 Division No. 11 Division No. 11 Division No. 12 Division No. 13 Division No. 13 Division No. 13 Division No. 14 Division No. 15 Division No. 16 Division No. 16 Division No. 16 Division No. 16 Division No. 17 Division No. 18 Division No.	CITIES: Calgary Drumheller Edmonton Lethbridge Medicine Hat Red Deer Wetaskiwin	TOWNS: Blairmore Camrose Cardston Claresholm Coleman Edson Grande Prairie

TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS IN ALBERTA, 1939

							MONTHS	SH					
	Total	January	February	March	lingA	May	əunr		tsuguA	September	Осторет	November	December
ALBERTA Rural Urban	16470 8149 8321	1283 658 625	1251 632 619	1447 717 730	1405 699 706	1443 715 728	1340 619 721	1384 678 706	1506 767	1399 663 736	1474 727 747	1304 659 645	1234 643 591
DIVISION No. 1-MEDICINE HAT Rural Urban City of Medicine Hat Town of Taber	485 114 371 355 16	89821	24421	46 23 23 46 23 46	35 64 35 66 35 66	5254	38128 2822 2822	8-22	196 8 7 ° °	36 36 36 1	49855 co	46 37 37	12112
DIVISION No. 2-MACLEOD Rural Urban City of Lethbridge Town of Blairmore Cardston Cardston Cardston Cardston Macleod Magrath Rawmond	1507 463 660 1044 171 56 56 56 15 15 15	116 335 531 532 533 533 533 533 533 533 533 533 533	10 10 10 10 10 10 10 10 10 10 10 10 10 1	144 106 106 106 107 106 106 106 106	115 37 47 47 114 88 88 88	146 1042 1042 1042 1042	118 84 00 00 10 10 10 10 10 10 10 10 10 10 10	148 108 117 108 117 108 117 108 108 108 108 108 108 108 108 108 108	24600 1 8 9 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	125 88 88 88 88 88 88 88 88 88 88 88 88 88	111 111 111 111 111 111	851 129 161 141 141 141 141 141 141 141 141 141	112864000x40
DIVISION No. 3-BOW Rural	222	19	16	19	212	24	24	32	88	13.51	38.8	1 22	18
DIVISION No. 4–NANTON Rural Urban Town of High River	372 223 149 149	21 88 88 88	33	111 ES3	12 12	8666	37 16 21	<b>8</b> 8⊒⊒	32 14 14 14	8889	12190	20212	21 66 66
DIVISION No. 5-ACADIA Rural Urban Town of Hanna	168 76 92 92	14 40	1460	10 10 10	11 6 6 6	111.56	14 8 6 6	21-1010	111.78	I 91010	16.5103	50 E E	12 2 2 4

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				N HOUSE					
DIVISION No. 6-CALGARY Rural	Urban City of Calgary Drumheller Town of Olds Village of Newcastle	DIVISION No. 7-BATTLE RIVER Rural Urban Town of Wainwright	DIVISION No. 8RED DEER Rural Urban City of Red Deer Wetaskiwin Town of Canrose Innisfail Lacombe	DIVISION No. 9-ROCKY MOUNTAIN Rural	DIVISION No. 10-VICTORIA Rural Urban Town of Vegreville Vermilion	DIVISION No. 11-EDMONTON Rural Urban City of Edmonton	DIVISION No. 12-EDSON Rural Urban Town of Edson	DIVISION No. 13-BEAVER RIVER Rural	DIVISION No. 14-STURGEON Rural

ANNUAL REPORT, 1939

# TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS/RURAL AND URBAN, BY DIVISIONS, IN ALBERTA, 1939—Continued

							MONTHS	CHS					
	Total	January	February	Матећ	April	May	əunr	July	1suguA	September	Octoper	November	Decemper
DIVISION No. 15-CLEARWATER Rural	437	88	<b>6</b> 6	88	42	45	55	ងន	88	33	88	45	22
DIVISION No. 16-PEACE RIVER Rural Urban Town of Grande Prairie	670 488 182 182	12 2 4	33 16 16	60 44 16	55 12 12 12	11 138	31 31 10	59 18 18	61 15 15	58 12 12	38 38 16	73 49 24 24	57 14 14
DIVISION No. 17-ATHABASCA Rural	311	88	22	88	34	88	16	លល	23	22	19	1313	19

	Tot	al Bir	ths	Le	gitima	ate	Ille	gitima	ite
Province and Cities	Total	Male	Female	Total	Male	Female	Total	Male	Female
	16470	8420	8050	15853	8123	7730	617	297	320
CITIES:					1				
Calgary	1746	824	922	1622	771	851	124	53	71
Edmonton	2841	1437	1404	2624	1341	1283	217	96	121
Lethbridge	660	358	302	650	353	297	10	5	5
Medicine Hat	355	180	175	348	175	173	7	5	2

### TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE FOR THE PROVINCE AND IN CITIES OF 5,000 POPULATION AND OVER, 1939

### TABLE 4.—PLURAL BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDREN BORN ALIVE AND STILLBORN BY SEX. IN ALBERTA, 1939

Classification of Births	Total
CASES OF TWINS Two males (both living) One male and one female (both living) Two females (both living) One male living and one male stillborn One male living and one female stillborn One female living and one female living One female living and one female stillborn Two females (both stillborn)	69 72 74 5 1 3 5
CASES OF TRIPLETS Two males and one female (all living) One male and two females (all living)	
Total Multiple confinements Num M Fem	Iale 227
Total single live birthsN M Fem	lale 8201
Total single stillbirthsN M Fen	Iale 180
Total confinements	16571

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		Italy	1 1 1 1 1 1 1			8
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othe		Denmark	10		111	4 40
100		Belgium	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		111	1 1 9 1 9 P
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	0	Ontario	$103 \\ 103 $	26.129	0 0	8004 101
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		Brunswick	10 01403401400	F= 44 0.0	1.1.1	FILLER
		sitood svolia	48 66 44 44 44 44 44 44	10 69	1	4
		P.E. Island	10 0001 4	00H	111	
		Total	8370 8370 125 125 333 383 997 510 510 5422 510 5422 510 5422 510	1702 958 183 471 85 85 85	28 oo 38	3543 262 352 357 267 267 267 267 247 247 247 247 247 247 247 247 247 24
		Birthplace of Father	CANADA Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan 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
	Birthplace of Mother	Birthplace of Mother       Canada     British Isles     East       Europe     Europe	Various       Various       Various       Various       Other       Mantoba       Mantoba       Other       Martio       Martio       Other       Brithpace       Other       Brithpace       Mantoba       Martio       Martio       Martio       Martio       Martio       Martio       Martia       Martia       Martia       Martia       Martia       Martia       Martia       Morway       Morway       Morway       Morway       Morway       Moree       Morway       Moree       Martia       Morway       Moree       Martia       Morway       Moree	Birthplace         Of PEL         Various           Canadr         Birthplace         Various         Various           Birthplace         Of Father         United States         Various           Birthplace         Of Father         United States         Asion           Birthplace         Of Father         Birthplace         Other           Birthplace         Officer         Birthplace         Asion           Birthplace         Maritoba         Birthplace         Asion           Birthplace         Maritoba         Birthplace         Asion           Birthplace         Birthplace         Birthplace         Asion           Birthplace         Birthplace         Birthplace         Anattia           Birthplace         Birthplace         Birthplace         Birthplace           Birthplace </td <td>Extribute         Dirthplace         of Mathem                <ul></ul></td> <td>Birthplace         Antaria         Total           28,8,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,7,7,12,9,</td>	Extribute         Dirthplace         of Mathem <ul></ul>	Birthplace         Antaria         Total           28,8,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,5,5,7,12,8,7,7,12,9,

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BIRTHS IN I	RESIDENT
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	All Liv	All Live Births	In In	In Institutions
	Total	Mothers Non-resident in Province	Total	Mothers Non-resident in Province
Total for the Province	16,470	138	11,553	127

TABLE 9.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) TO RESIDENT AND NON-RESIDENT MOTHERS AND BIRTHS IN INSTITUTIONS, IN CITIES OF 5,000 POPULATION AND OVER, IN ALBERTA, 1939

STIC	1	Non-resi- dent in Province	
n in Institut	To mothers non- resident in city or town where birth occurred and	Resident Nor in de Province Pro	15 11
Births elsewhere than in Institutions	To		23 11 9
Births e	Total		30 2011 201
	ers non- in city i where urred and	Non-resi- dent in Province	29 29 10 29 29 10
Births in Institutions	To mothers non- resident in city or town where birth occurred and	Resident in Province	507 1187 426 194
Births in	To resident	mothers	1199 1581 221 112
	Total		1716 2797 649 335
	ers non- in city where urred and	Non-resi- dent in Province	38 <sup>-3</sup> 311
All Births	To mothers non- resident in city or town where birth occurred and	Resident in Province	513 1202 426 205
III	To resident	mothers	1222 1609 232 121
	Total		1746 2841 660 355
	Cities		Calgary Edmonton Lethbridge Medicine Hat

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TABLE 10.-ORDER OF BIRTH OF LEGITIMATE CHILDREN BORN IN 1939 (INCLUDING STILLBORN CHILDREN).

TABLE 11.—DEATHS OF CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE BY SEX AND CALENDAR MONTH OF DEATH. IN ALBERTA, 1939

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l und year	a	Male	<b>430</b> <b>430</b> <b>430</b> <b>440</b> <b>440</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441</b> <b>441441</b> <b>441</b> <b>441</b> <b>441</b> <b>441441</b> <b>441</b> <b>441</b> <b>441441</b> <b>441</b> <b>44144441</b> <b>441</b> <b>441441</b> <b>4414444444444444</b>
Total under 1 year	I	Tota	763 233 233 233 233 233 233 233 233 233 331 331
	CAUSES OF DEATH		AUSES         7       Measles         8       Scarlet fever         9       Whooping cough         11       Intuerra         11       Intuerra         12       Erystpelas         13       Erystpelas         14       Erystpelas         15       Pictulent         16       Erystpelas         17       Uberculosis of the respiratory system         17       Tuberculosis of the respiratory system         17       Tuberculosis of the meningitis         18       Purtulent infection, septicaemia         19       Styphils         10       Purtuent         11       Diseases of the tymus gland         11       Styphils         12       Coup         13       Styphils         14       Styphils         15       Diseases of the tymus gland         16       Stophoneumonia         16       <
			ALL CA 7 8 8 10 11 15 15 16 23 25 24 25 24 25 24 105 105 105 106 106 106 106 106 106 106 106

5 0101   01			ANNO	AL REPORT, 1959
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Rates of still-born children to 1.000 live births	Rate per 1000 live births	20.1 25.7 25.7 25.7 25.7 25.7 25.4 25.4 25.4 25.4 26.4 26.7 27.2 26.4 26.7 27.2 26.6 27.2 26.6 27.2 26.6 27.2 26.6 27.5 26.6 27.5 26.6 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 26.7 27.5 27.5 26.7 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27
1 2004 01		Rates of childrer live	Number of stillbirths	33596624476559139221492288 33596624476591392241492288 335966244766524476
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000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		physician in attendance	Without physician	$\begin{array}{c} 77\\ 36\\ 36\\ 36\\ 19\\ 146\\ 167\\ 167\\ 167\\ 226\\ 134\\ 473\\ 228\\ 134\\ 473\\ 228\\ 193\\ 193\\ 228\\ 233\\ 228\\ 233\\ 228\\ 233\\ 228\\ 233\\ 228\\ 233\\ 228\\ 233\\ 233$
11 11 3 3 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	CITIES, 1939	Births with physician i	With physician	2119 2119 2116 2116 2116 2114 2113 2114 2114 2114 2114 2114 2114
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4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DIVISIONS	te of children ar of age to 1.000 births	Number of deaths	44 94 11 38 33 33 53 53 51 105 51 105 51 105 51 105 51 105 51 105 51 105 51 105 51 105 51 105 51 105 51 51 51 51 51 51 51 51 51 51 51 51 51
84 14 12 2 21 1 1 1 18 1 1 1 18 1 1 1 3 3 1 2 3 3 1 2 2 6 3 1 1 1 1 2 6 3 1 1 1 2 3 2 6 3 2 1 1 1 1 2 2 6 3 2 1 1 1 1 2 3 2 1 1 1 1 1 2 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RATES, BY	Death rate of one year of 1,000	Rate per 1000 births	82288888888888888888888888888888888888
192 108 372 200 533 322 44 26 9 6 16 8 8 5	DEATH			pted) excepted)
<ul> <li>159 Premature birth</li> <li>160 Injury at birth</li> <li>161 Other diseases peculiar to early infancy (under 3 months)</li> <li>(a-e) Specified diseases</li> <li>(f) No cause given, no doctor in attendance</li> <li>173-175 Homicide</li> <li>176-198 Other external causes</li> <li>199, 200 Unspecified or ill-defined causes</li> </ul>	TABLE 12INFANTILE		Divisions and Cities	Division No.       1-Medicine Hat (City of Medicine Hat excepted)         Division No.       2-Macleod (City of Lethbridge excepted)         Division No.       2-Bow         Division No.       4-Nanton         Division No.       1-Battle River         Division No.       10-Victoria         Division No.       11-Edmonton (City of Edmonton excepted)         Division No.       11-Edmonton excepted)         Division No.       11-Edmonton excepted)         Division No.       11-Edmonton excepted)         Division No.       11-Edmonton excepted)         Division No.       1

TABLE 13.—DEATHS OF CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE, BY SEX AND AGE AT DEATH, IN ALBERTA, 1939

		VIT.	AL	STATI	STIC	S BRAD	NCH			
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	10 months and som II mos.	1 14	1.			-		1	01	0
	under 10 mos.	.F. M	8	1 2	01			11	1 1	
	bns shinom 6	FM	9 10	1 1	1 1	60		T	010	
12 1	bns antnom 8	I.M.	6 11	10 11	-		-		61	
	7 months and	M.F	12		1 1				363	0
	nuder 7 mos.	M. F.	11 11		1 2				100	10
	sour g Japun		14	-	-	01	11111	-	101	02
	pue sutuom č	M	3 21	1 10	2		F III	11	10.4	10
DEATH	4 months and	M.F	18 23		9				0	4-
	3 months and	M.F.	27 19		4 3	-		1	201	11 5
E AT	2 months and under 3 mos.	E.	32	1 5	.02		1	1	10.01	1 6
AGE	under 2 mos.	.F. M	39 34		1	F	T T		[~ =	3 1
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al under year		Male	430	1	34	60.44	- 00-	4.00	42 31	1 38 38
Total 1 y		etoT	763	4000	47	5 14 2	61 10 61	9	54 7.3 54 5	69-02
				111					the	1111
	CAUSES OF DEATH		ALL CAUSES	7 Measles 8 Scarlet fever 9 Whooping cough 10 Dinhiberia				-	Bronchifts Bronchopneumonia Pneumonia Diseases of the buccal cavity and annexa and of	<ul> <li>pharynx and tonsils (including adenoid vegetations)</li> <li>Biseases of the stomach</li> <li>Diarrhoea and enteritis</li> <li>Hernia, intestinal obstruction</li> <li>Nephritis</li> </ul>
			TIV			16 18 23 24 25-32		2 A B	107 107 108, 109 115	116-118 119 122 130

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$ \begin{array}{c} \mbox{Malformations} \\ \mbox{Malformations} \\ \mbox{(a) Congenital hydrocephaus} \\ \mbox{(b) drow autor this title} \\ \mbox{(c) drow autor this title} \\ \mbox{(d) drow autor this title} \\ \mbox{(d) drow autor this thick} \\ (d) drow aut$
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<ul> <li>Malfor</li> <li>Malfor</li> <li>(a) Co</li> <li>(b, d, c)</li> <li>(b, d, d)</li> <li>(b, d, d)</li> <li>(c) Co</li> <li>(c)</li></ul>
<ul> <li>157 Malformations</li> <li>157 Malformations</li> <li>(a) Congenital</li> <li>(b, d, e) Others</li> <li>(b, d, e) Others</li> <li>(b, d, e) Others</li> <li>(c) Congenital debit</li> <li>159 Premature birth</li> <li>160 Injury at birth</li> <li>161 Other diseases</li> <li>175 Homicide</li> <li>175 Homicide</li> <li>175 Homicide</li> <li>175 Other external</li> <li>000 Unspecified or</li> </ul>
157       Malformations         157       Malformations         (a) Congenital hydrocephalus       (c) Congenital malformation of the heart         (b) d. e) Others under this title       (b) d. e) Others under this title         158       Congenital debility         159       Premature birth         160       Injury at birth         161       Injury at birth         162       Injury at birth         163       Coustes given, no doctor in attendance         173-175       Homicide         176-198       Other external causes         00ther specified or ill-defined causes         010       Unspecified or ill-defined causes

ACCORDING TO RESIDENTS OF DECEDENTS, IN	NI 'SLN		OF 5,00	DO POPU	5,000 POPULATION	CITIES OF 5,000 POPULATION AND OVER, IN	ER, IN		1939			
	UIV 1	Deaths u	All Deaths under one year	year	D	Deaths in Institutions	nstitutio	128	Deaths	s elsewhere Institutions	ere than ions	i in
			Non- in wher occ	Non-resident in city where death occurred and			Non-r in where occu	Non-resident in city where death occurred and			Non-reside in city where dea occurred and	Non-resident in city where death occurred and
Cities	IstoT	Residents	Resident in Province	Non-resident in Province	IstoT	Residents	Resident in Province	Non-resident in Province	IstoT	Residents	Resident in Province	Von-resident in Province
	Total Male	Female Total	Female Male Male	Female Male Male	Total 91aM	Female Total Female	Female Male Female	Total Male Female	Total Male Female	Total Male Male	Total Male Total	Total Male
Calgary Edmonton Lethbridge Medicine Hat	51 21 105 71 20 11 10 4	30 40 16 34 56 37 9 7 1 6 4 1	24 9 4 6 13 10 3 6 3	33 2 1 1 33 33 33 33 33 33 33 33 33 33 33 33	1 41 18 100 67 7 3	23 32 14 33 52 34 9 7 1 4 3 1	18 8 34 4 18 48 33 15 6 13 10 3 2 4 2 2		10 3 1 4 4 1	2 1 2 1 1 1		<b>F</b>
TABLE 15TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AN THE NUMBER		DEATH ON-RESI	AND DEATHS IN INSTITUTIONS R NON-RESIDENT IN ALBERTA.	STITUTIONS N ALBERTA.		OF CHILDREN UNDER ONE YEAR OF 1939	IUND N	R ONE	YEAR OF	AGE,	SHOWING	0
		AILD	Deaths ur	under one	year				In Institutions	utions		
		Total		Non-re	Non-resident in Province	Province		Total	-	Non-resident in Province	ent in F	rovince
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	763	430	333	6	60	9	397	227	170	63	1	12

(EXCLUDING RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES -POPULATION, BIRTHS, DEATHS, TABLE 16.

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No. 1-MEDICINE HAT

DIVISION

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Puerperal State

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Violent Deaths (auicides and homicides excepted)

> Vephritis (acute and chronic)

(over 2 years of age)

Under 2 years of age)

(amonia (all forms)

Diseases of the Arteries

Heart Diseases (all forms)

Apoplexy, Cerebral Haemorrhage & Thrombosis

Tuberculosis (other forms)

Pulmonary Tuberculosis

Meningococcic Meningitis

Typhoid and Paratyphoid

ates typication metality for the formation of the formati

(under I year) Number of Deaths

Number of Deaths

Number of Births

Population, 1939

Municipality No.

Population Population

Birth Rate per 1.000 Population

Acute Poliomyelitis

Whooping Cough

Scarlet Fever

Measles

Pernicious Anaemia

Cancer (all forms)

Diabetes

Ezuanlini

Diphtheria

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	VITAL STATIS	STICS BRANCH	
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	shibibnaqqA		11
	Diarrhoea and Enteritis (over 2 years of age)		
	Diarrhoea and Enteritis (under 2 years of age)	· · · · · · · · · · · · · · · · · · ·	
	Pneumonia (all forms)	140 1 1 000 83	
	Diseases of the Arteries		_
	Heart Diseases (all forms)		1
	Apoplexy, Cerebral Haemorrhage & Thrombosis		-
Dan	Pernicious Anaemia		
Continued	Disbetes		-
	Cancer (all forms)	8 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1998	Tuberculosis (other forms)		
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-MACLEOD	Acute Poliomyelitis		39
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No.	Diphtheria		
NOIS	Whooping Cough		
DIVISION	Scarlet Fever		63
2	Measles		
SNA	Typhoid and Paratyphoid		
	Number of Stillbirths		
LILES), IKANSFE	(under I year) Infant Mortality Rate (per 1,000 births)	1         1         42           1         4         400         40           6         33         49         33           3         49         33         49           1         1         1         18         18           1         1         1         190         40           40         453         3         49         453	
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	Birth Rate per 1,000 Population	20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	ndod
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	.oN yilisqiəinuM		th Rate
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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

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Death Rate per 100.000 population 

	VITAL STATE	STICS BRANCH		
	Violent Deaths (suicides and homicides excepted)	<b>1</b> 5	6	41
	Puerperal State		4	18
	vephytits (acute and		10	23
	Appendicitis		1	10
	Diarrhoea and Enteritis (over 2 years of age)			
	Diarrhoea and Enteritis (under 2 years of age)			
	Pneumonia (all forms)		12	54
	Diseases of the Arteries		II	50
1	Heart Diseases (all forms)		32	145
	Apoplexy, Cerebral Haemorrhage & Thrombosis		3	14
	Pernicious Anaemia		61	6
	Disbetes	111111111111	1	10
	Cancer (all forms)	01-10       10-1 - H-H	17	77
	Tuberculosis (other forms)		-	10
	Pulmonary Tuberculosis		2	6
DIA	Meningococcic Meningitis			- Nor
5-ACADIA	Acute Poliomyelitis			
	ezuenlini		6	41
N No.	Diphtheria		-	r0
NOISIVIG	Whooping Cough		1111	
DIV	Scarlet Fever		67	6
	Measles			100
	Typhoid and Paratyphoid		100	
	Number of Stillbirths		6	
	Infant Mortality Rate (per 1.000 births)	167 167 23 45 14 167 123 28 28		
	Number of Deaths		6	
	Population Population	in the second	6.5	
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	Birth Rate per 1,000 Population	11 13 15 15 15 15 15 15 15 15 15 15 15 15 15	14.8	opula
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TABLE 16.—POPULATION, BIRTHS. DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

ANNUAL REPORT, 1939

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# VITAL STATISTICS BRANCH

	Violent Deaths (suicides ( and homicides excepted)		14	36
	Puerperal State		01	10
	Nephritis (acute and chronic)	N 191	13	34
	Appendicitis	1	6	23
	Distribution and Enteritie (over 2 years of age)	11111		- United
	(under 2 years of age)		0	10
	Pneumonia (all forms)	1	12	31
	Diseases of the Arteries	0.02	28	72
	Heart Diseases (all forms)	4-4 01-	21	132
	Apoplexy, Cerebral Haemorrhage & Thrombosis		1	18
	Pernicious Ansemia	1.7.11	1	3
	Diabetes		6	16
	Cancer (all forms)	H4 H0	33	85
panu	Tuberculosis (other forms)		2	01
Contir	Pulmonary Tuberculosis		10	13
1	Meningococcic Meningitis		-	3
IVE	Acute Poliomyelitis		2	10
7-BATTLE RIVER-Continued	sznsultul	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6	23
ATT	Diphtheria		-	
7—B.	Whooping Cough	THUT		
No.	Scarlet Fever	11111		1000
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DIVIS	Typhoid and Paratyphoid	111111	1100	
-	Number of Stillbirths	01 01 01 00	18	
	Infant Mortality Rate (per 1,000 births)	32	26.9	
	Number of Deaths (under I year)	5111	18	
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	Number of Deaths	18 23 33 33	264	ation
	Birth Rate per 1,000 Population	117	17.2	Indo
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	Population, 1939	2038 2878 1831 1273 2694 2853 2853	38668	r 100
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TABLE 16.—POPULATION. BIRTHS. DEATHS. RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

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ANNUAL REPORT, 1939

# VITAL STATISTICS BRANCH

13	1	Violent Deaths (suicides   and homicides excepted)		18	30
DIN		Puerperal State		4	7
(EXCLUDING		Mephritis (acute and chronic)		1	12
		Appendicitis		9	15
TIES		Distributes and Enteritis (over 2 years of age)			
MUNICIPALITIES		Districes and Enteritis (under 2 years of age)		6	15
NICIF		Pneumonia (all forms)	H H400 0 HH 000	21	35
		Diseases of the Arteries	010 H400HH0000 00 0	43	72
вү		Heart Diseases (all forms)	H 110 0 0 0 00001	60	101
EXCLUDING INDIANS), E, 1939—Continued		Apoplexy. Cerebral Apoplexy. Cerebral		7	12
NDI/		Pernicious Anaemia		3	10
CCLUDING INDI 1939—Continued		Diabetes		10	80
Ind	5	Cancer (all forms)		26	44
KCL1		Tuberculosis (other forms)		63	3
H (E)	_	Pulmonary Tuberculosis		10	00
EATH	ORIA	Meningococcic Meningitis			
OF DEATH R RESIDEN	10-VICTORIA	Acute Pollomyelitis			
	10-1	szneultal		1	12
CAUSES	No.	Diphtheria		-	
-		Whooping Cough		00	10
	DIVISION	Scarlet Fever		100	
SEL	DI	Measles		2	0
AND		Typhoid and Paratyphoid		_	
TR		Number of Stillbirths	H H H 4 00 40H00	22	
HS, RATES AND SELECT CITIES), TRANSFERRED		Infant Mortslity Rate (per 1.000 births)	19 440 440 440 440 440 440 440 440 440 44	43.9	
CITI		(under I year) Number of Deaths	HHH 40H01 0H4000004	58	
DEAT		Population Population	044498804408999999999999	5.7	111111
HS, I		Number of Deaths	198833333333333333333333333333333333333	339	ation
BIRT		Birth Rate per 1.000 Population	284 193 211 233 212 234 235 255 255 255 255 255 255 255 255 255	22.1	Indod
ION.		Number of Births	254 254 255 255 255 255 255 255 255 255	1320	0,000
ILATI		Population, 1939	2037 1617 1617 1617 1608 3011 33011 33011 33706 33879 33879 33879 33879 33879 33879 33879 4590 4590 4590	59468	er 10
TABLE 16.—POPULATION. BIRTHS, DEATHS, RATES AND CITIES), TRANS		oN viikqisinuM	451 455 455 454 485 484 488 488 488 488 488	Total 5	Death Rate per 100,000 population

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		Total	Death Rate per 100,000 population		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
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42 TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

	VITAL ST	TATISTICS BRANCH	
	Violent Deaths (suicides and homicides excepted)		16
	Puerperal State		4
	Nephritis (acute and Vephritis (acute and		36
	Appendicitis		20
	Diarrhoea and Enteritis (over 2 years of age)		- 00
	Diarrhoea and Enteritis (under 2 years of age)		20
	Pneumonia (all forms)	2	59
	Diseases of the Arteries		81
	Heart Diseases (all forms)		4 1-
	Apoplexy, Cerebral Apoplexy, Cerebral		
	Pernicious Anaemia	<u> </u>	
	Disbetes		13
	Cancer (all forms)		22
	Tuberculosis (other forms)		
ER	Pulmonary Tuberculosis	S	26
RIVER	Meningococcic Meningitis		0.0
VER	Acute Poliomyelitis		3
13-BEAVER	sznaultal		10
	Diphtheria		T
No.	Whooping Cough		36
DIVISION	Scarlet Fever		10
DIVI	Measles		and a second
-	Typhoid and Paratyphoid		
	Number of Stillbirths	1 000 H 0000 H 11 1 1 1 1 1 1 1 1 1 1 1	I
	Infant Mortality Rate (per 1,000 births)	226 226 226 226 226 226 226 226 226 226	10.50
	(under I year) Number of Deaths	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Population Population	400044148080648594 44 00	iere
	Number of Deaths	125566666666666666666666666666666666666	tion
	Population	27 11 28 28 28 28 28 28 28 28 28 28 28 28 28	pulat
	Birth Rate per 1,000	1114 1114 1114 1114 1114 1114 1114 111	00 po
	Number of Births	×	100,00
	Population, 1939	2514 2514 2514 2514 2514 2514 2514 2514	per
	Municipality No.		Total 300.10 044 21.4 103 Death Rate per 100.000 population
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	ANNUAL REPORT, 193	9			43
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DIVISION No. 14-STURGEON

		TIOTIOD DIGHTON	VITAL S
27	12		Violent Deaths (suicides and homicides excepted)
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a	T		Nephritis (acute and chronic)
96	4		Appendicitis
-	1111		Distriboes and Enteritis
	-		(under 2 years of age)
66	10		Pneumonia (all forms)
66	10		Diseases of the Arterles
AF	1		Heart Diseases (all forms)
10	0	PP	Apoplexy, Cerebral Haemorrhage & Thrombosis
-	-		Pernicious Anaemia
	-		Diabetes
6.4	10		Cancer (all forms)
			Tuberculosis (other forms)
19	10		Pulmonary Tuberculosis
	1000		Meningococcic Meningitis
	100		Acute Poliomyelitis
9	1		Influenza
	1 mil		Diphtheria
_	- Inter	n'a manana ana ana ana ana ana ana ana ana	Whooping Cough
-	111		Scarlet Fever
	- the		səlseəM
_	10.00		Typhoid and Paratyphoid
-	1.0	N	Number of Stillbirths
	37.1	250 250 250 250 250 250 250 250 250 250	Intent Mortality Rate (per 1,000 births)
	13		Number of Deaths (under I year)
	5.2	6 1 1 0 9 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Population Population
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Death Rate new 100 000 monulation	22.5	2312 2325 233 34 37 34 37 37 37 37 37 37 37 37 37 37 37 37 37	Population
~ 00	350	224 225 225 225 225 225 225 225 225 225	Birth Rate per 1,000
100.0		8424058558555286855558	Number of Births
nor	15521	448 704 1670 58 58 551 58 1650 58 1655 551 58 845 531 8845 531 531 531 531 531 531 531 531 531 53	Population, 1939
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unth.	Total	731 732 733 734 735 737 736 765 766 766 766 766 766 766 766 766 76	Municipality No.
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TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

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						801																	Unorganized Parts		Total	Death Rate per 100,000 population	

DIVISION No. 16-PEACE RIVER

DIVISION No. 17-ATHABASCA

Remainder of Province, comprising northern parts (including Indians):

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ANNUAL REPORT, 1939

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Violent Deaths (suicides and homicides excepted)	33	37	1	40	46	1	9	43	1	1 10	51
Puerperal State	00	6		10	9		63	14			
chronic) Nephritis (acute and	23	26		31	36		C1	14		1	72
Appendicitis	11	12		00	6		0	22		1	10
(over 2 years of age)	63	01		- 10	9	1				1000	i
Diarrhoea and Enteritis (under 2 years of age)	10	9		61	63		- and	- Construction		-	-
Pneumonia (all forms)	28	31		26	30		4	29			10
Diseases of the Arteries	67	74		99	76		16	115		14	143
Heart Diseases (all forms)	144	160		177	205		16	115		20	205
Apoplexy, Cerebral Haemorrhage & Thrombosi	18	20		17	20		1	7		3	31
Pernicious Anaemia	63	63		9	7	1		1			10
Disbetes	- 00	- 6		13	15		10	36			-
Cancer (all forms)	95	105		88	102		14	101	-	12	72
Tuberculosis (other forms	4	4		61	01		1111	case	-		
Pulmonary Tuberculosis	4	4		19	22		5	14			10
Meningococcic Meningitis	1	1					1	2			
Acute Poliomyelitis		-									
ezuənltul	10	11		19	22		10	72		2	72
Diphtheria		1		-	1						
Whooping Cough	3	-07			1			1000		61	20
Scarlet Fever				- C3	53						
Measles					1						
Typhoid and Paratyphoid											
Number of Stillbirths	26			31	In		10			1	
(per 1,000 births)	34.3			31.7			16.8			12	
(under 1 year) Infant Mortality Rate	55 34			39 31			4 16			4 32.	
Population	6.4			7.5			8.2			7.8	
Death Rate per 1,000	581 6	uc	1	654	u		115 8	u		17	u
Number of Deaths		ulatio			ulatic			ulatic			ulatic
Birth Rate per 1,000	17.6	popr		14.2	dod		17.0	popt		12.6	ldod
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VITAL STATISTICS BRANCH

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY CITIES, 1939—TRANSFERRED TO REGULAR RESIDENCE

CITIES

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	-			
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-	-	63	65	
	and a			
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11.4	1111	14.6	1	
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24.4	Indo	25.4	Indo	
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2453 60 24.4 28 11.4 5 83.3	Death Rate per 100,000 population	3065 78 25.4 45 14.6 1 12.8	Death Rate per 100,000 population	
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VITAL STATISTICS BRANCH

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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1939

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TABLE 17-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE. 1939-Continued

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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1939-Continued

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	CAUSES OF DEATH	Total Male Female Female	the uterus		d gland e gland mspecified sites	or unspecified sites, nature	ISEASES OF ENDOCRINE DISEASES	heumatic fever
	CAUSES OF DEATH	Total Male Female Female	Of the uterus	other remain genital organs the brain	Of the thyroid gland Of the prostate gland Of other or unspecified sites	Of the brain Tumours of other or unspecified sites, nature not specified	- RHEUMATIC DISEASES, DISEASES OF TRITION AND OF THE ENDOCRINE ANDS AND OTHER GENERAL DISEASES	heumatic fever
	CAUSES OF DEATH	Non-malignant tumours (a) Of the ovary Female Female	Of the uterus	Of the brain	Of the thyroid gland Of the prostate gland Of other or unspecified sites	<ul> <li>(d) Of the brain</li> <li>(g) Tumours of other or unspecified sites, nature not specified</li> </ul>	III. — RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES	Acute rheumatic fever
	CAUSES OF DEATH	Total Male Female Female	Of the uterus	Of the brain	Of the thyroid gland Of the prostate gland Of other or unspecified sites	Of the brain Tumours of other or unspecified sites, nature not specified	- RHEUMATIC DISEASES, DISEASES OF TRITION AND OF THE ENDOCRINE ANDS AND OTHER GENERAL DISEASES	heumatic fever

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II	CAUSES OF DEATH	blood and blood-forming Male	POISONINGS AND INTOXI	<ul><li>(a) Delirium tremens</li><li>(b) Other alcoholic intoxications</li><li>Chronic poisoning, by other organic substances</li></ul>	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND Total OF THE ORGANS OF SPECIAL SENSE Male Fema	Encephalitis (non-epidemic) Simple meningitis Progressive locomotor ataxia (tabes dorsalis) Other diseases of the spinal cord Other diseases of the spinal cord Cerebral haemorrhage, cerebral embolism and thrombosis (a) Cerebral haemorrhage (a) Cerebral memorrhage (b) Cerebral embolism and thrombosis (c) Softening of the brain (d) Hemiplegia and other paralysis, cause not specified

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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE. 1939-Continued

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Dise	VIII.—DISEASES OF THE RESPIRATORY SYSTEM	Diseases of the nasal fossae and annexa (a) Croup		(a)	(b) Bronch	(c)	(a)		Pneumonia, unspecified	) Pleurisy	( (a) Pulmonary embolism and thrombosis	(b) Conge lung.	2 Asthma	3 Pulmonary emphysema	(a)	(b) Gangre	(c) Other diseases of the respiratory system
<ul><li>101 Diseases of the etc.)</li><li>102 Idiopathic abnor</li><li>103 Other diseases of</li></ul>		104 Diseases of th 105 (a) Croup	1000	106 (a) Bronch		(c)	(b) Capilla	108 Lobar pne	109 Pneumonia	110 Pleurisy	111 (a) Pulmo		112 Asthma	113 Pulmonary			(c) Other
	CLASS VIII.—DISEASE SYSTEM		1000	(a)		(c)									(a)		(c) Other

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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1939-Continued

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Yellow atrophy of the liver Other diseases of the liver ary calculi er diseases of the gall-bl passages ases of the pancreas tonitis, cause not specified	SE	Acute nephritis (including unspecified, unde years of age)
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Yel Oth Ary Pas Pas ase ase ton	DIS	onli phri bhri er culi er culi ease asse asse asse asse asse asse ass
<ul> <li>(a) Yellow atrophy of the liver</li> <li>(b) Other diseases of the liver</li> <li>Biliary calculi</li> <li>Other diseases of the gall-bladder and biliary passages</li> <li>Diseases of the pancreas</li> <li>Peritonitis, cause not specified</li> </ul>	XDISEASES SYSTEM	Acute nephritis (including unspecified, under 10 years of age)
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125 126 127 128 128	CLASS	130 131 132 133 135 135 135 137 138 138

# VITAL STATISTICS BRANCH

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-	20-24 Years	1	1	:	1	1		1	1	1	1	1	į	1	1	1	Ĩ
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	Under 1 year	1	10		I		142 (a) Ectopic gestation (with septic conditions) Female 1	(b) Ectopic gestation (without mention of septic conditions)	143 Other accidents of pregnancy (haemorrhage Female 1 - 1	144 (a) Placenta praevia 14 1		145 Puerperal septicaemia and pyaemia (not specified Female 7		10	148 (a) Phlegmasia alba dolens and thrombosis Female		(c) Sudden death [Female] 4

TABLE 17.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1939-Continued

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						AN	INUAL	REP	ORT.	1939				61
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H	4	And and the other designs of t	E .	H		ENH ENH	SERE	of F	ENH SN			successive in the local division of the loca	PEH	N PRI PRI PRI
9 (a) Caesarean operation	(b) Dystocia	(c) Other surgical operations and instrumental delivery	(d) Rupture of uterus in parturition	(e) Other accidents of childbirth	150 (b) Other or unspecified condition of the puer- peral state	S XII.—DISEASES OF THE SKIN AND CELLULAR Total TISSUE Rema	<ul><li>151 Carbuncle</li><li>152 Cellulitis, acute abscess</li></ul>	153 Other diseases of the skin and annexa and the cellular tissue	S XIII.—DISEASES OF THE BONES AND ORGANS Total OF LOCOMOTION Rale Fema	Osteomyelitis	Otho	<ul> <li>(a) Diseases of the joints (tuberculosis and rheumatism excepted)</li> <li>(b) Diseases of other organs of locomotion</li> </ul>	S XIVCONGENITAL MALFORMATIONS	<ul><li>(a) Congenital hydrocephalus</li><li>(b) Spina bifida and meningocele</li></ul>
149					11	CLASS	I I	H	CLASS	1	1	-	CLASS	-

# VITAL STATISTICS BRANCH

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	and over 100 years			111	111	11				11	11	11	111
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	90-94 years		111	111	111	11	11	-	11	11	11	11	
	82-89 Years	11111			111	11	11	1	11	11	11	11	
	80-84 Years		111						11		11	11	
	75-79 years		111	111	111	11		-	1.1	11	11	11	
	70-74 years		111	111	111				11	11	11	11	<u></u> .
	65-69 years		111	111	111		11			11	11	11	
	60-64 years			111	111				11	1.1			111
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S	20-24 Years			111	111				11	11	11	11	111
AGES	42-49 Years		111	111	111			1		11	11	11	111
-	40-44 Years				111	11	11		11	11	11	11	
	32-39 Years			111	111	11			1 1	11	11	11	
	30-34 Xests		111	111	111	11	11		1 1	1 1			
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	CAUSES OF DEATH	<ul><li>(c) Congenital malformation of the heart</li><li>(d) Monstrosities</li><li>(e) Others under this title</li></ul>	CLASS XVDISEASES OF EARLY INFANCY	8 Congenital debility 9 Premature birth	0 (a) Injury at birth, with mention of caesarean operation	(b) Injury at birth, without mention of caesarean operation	1 Other diseases peculiar to early infancy (under 3 months) Sub-total Male	(a) Atelectasis	(b) Icterus of the new-born	(c) Sclerema and oedema	(d) Athrepsia	(e) Others, including lack of care	(f) No cause given. no doctor in attendance
			CLASS	158	160		161						

TABLE 17.--CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE. 1939-Continued

#### ANNUAL REPORT, 1939

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Total Male Female	Male Female Male Female Female	Total Male Female	Male	Male	Male	Female Male	Male	Male	Female Male	Male	Male	Male	Male	Female	Male	Male	Female	Male Female
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SENILITY	ith senile deme ithout senile de emature senilit ars)	VIOLENT 0	cs	e by solid	e by pois	e by hang	e by drov	e by fire	e by cutti	e by jum	e by cru	e by othe	ides	ide by fi	ide by cu	ride by oth	violent d	t by veno
	With senile dementia (70 years and over) Without senile dementia (70 years and over) Premature senility (55 years but under 70 years)	IVIOLENT 0	cides	cide by solid tion of corre	cide by pois	cide by hang	cide by drov	cide by fire	cide by cutti	cide by jum	cide by cru	cide by othe	nicides	nicide by fi	nicide by cu	nicide by oth	ier violent d	ack by veno
XVI.—SENILITY	<ul><li>(a) With senile deme</li><li>(b) Without senile de</li><li>(c) Premature senili</li><li>(c) years)</li></ul>	XVIIVIOLENT 0	Suicides	by	Suicide by poisonous gas	Suicide by hang	Suicide by drowning	Suicide by firearms	Suicide by cutting or piercing instruments	Suicide by jumping from high places	Suicide by crushing	Suicide by other means	Homicides	Homicide by firearms	Homicide by cu	Homicide by other means	Other violent deaths	Attack by venomous animals
S XVI-SENILITY	(a) (b) (c)	SS XVIIVIOLENT OR ACCIDENTAL DEATHS				Suicide by									Homicide by			
CLASS XVISENILITY		CLASS XVIIVIOLENT 0	163-171 Suicides	163 Suicide by solid thon of corre	164 Suicide by pols	165 Suicide by hang	166 Suicide by drov	167 Suicide by fire	168 Suicide by cutti	169 Suicide by jum	170 Suicide by cru	171 Suicide by othe	173-175 Homicides	173 Homicide by fi	174 Homicide by cu	175 Homicide by ot	176-198 Other violent d	176 Attack by veno

CAUSES OF DEXIN       CAUSES OF DEXIN       Note sufficient absorption       Note sufficient absorption         111       Food poleoning       Market       111       Food poleoning       112       99-94 Yours       100, 45 Yours         113       Accidential absorption       010-64 Yours       111       100, 45 Yours			
CAUSES OF DEXTH         100 years           Food polynoming         Food polynoming         55-59 years           Food polynoming         Male         99-94 years           Food polynoming         Male         99-94 years           Male         Male         11         1         1         1         1         1           Male         Male         Male         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	1	Not stated	
CAUSES OF DEATH         CAUSES OF DEATH           CAUSES OF DEATH         Feed poincing           Feed poincing         Feed poincing           Feed poincing         Mole           Feed poincing         Constrained           Accidential absorption of toxic gases         Mole           Other actine acidential poincing (accept by gas)         Mole           Preside         Mole           Preside         Mole           Preside         Mole           Preside         Mole           Preside         Mole           Presidential prioriting         Mole           Presidential prioriting         Mole           Presidential prioriting         Mole           Presidential prioriting         Presidential pointing           Accidential prioriting         Presidential           Presidential			
CAUSES OF DEXTH       CAUSES OF DEXTH         CAUSES OF DEXTH       Food polyoning       Sec.69 years         Food polyoning       Accidential absorption of toxic gases       Mate       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1			
CAUSES OF DEATH       Causes of DEATH         Causes of DEATH       Food poisoning       S5-69 years         Food poisoning       Accidential absorption of toxic gases       Male       Journal         Reddential absorption of toxic gases       Name       Journal       S5-59 years         Reddential intrast contrasting       Conflagration excepted)       Male       Journal       S5-59 years         Reddential intrus (conflagration excepted)       Name       Journal       Journal       Journal       Journal         Reddential intrus (conflagration excepted)       Name       Journal       Journal       Journal       Journal       Journal         Reddential intrus by freemes       Name       Journal       Journal       Journal       Journal       Journal       Journal         Reddential intrus by freemes       Name       Journal       Journa       Journal       Journal			
CAUSES OF DEXTH       CAUSES OF DEXTH         CAUSES OF DEXTH       Food policoling         Food policoling       Accidential absorption of toxic gases         Food policoling       Accidential absorption of toxic gases         Provide contragration       Contragration excepted)         Provide contragration       Provide contragration         Provide contragratin <t< td=""><td></td><td></td><td>H H H H H H H H H H H H H H H H H H H</td></t<>			H H H H H H H H H H H H H H H H H H H
CAUSES OF DEXTH       CAUSES OF DEXTH         CAUSES OF DEXTH       Food policoling       Accidential absorption of toxic gases         Food policoling       Accidential absorption of toxic gases       Made         Accidential absorption of toxic gases       Made       Accidential absorption of toxic gases         Made       Other acute accidential policoling       Accidential absorption of toxic gases       Accidential absorption of toxic gases         Made       Other acute accidential burst conflagration excepted)       Made       A       Accidential absorption of toxic gases         Made       Made       Accidential burst conflagration excepted)       Made       A       Accidential absorption of toxic gases         Made       Made       Accidential burst conflagration excepted)       Made       A       Accidential burst conflagration excepted)       Accidential burst conflagration excepted)         Made       Made       Accidential burst conflagration excepted)       Made       A       Accidential burst condition       Accidential burst conflagration excepted)         Made       Accidential burst conflagration excepted)       Made       Accidential burst conflagration excepted)       Accidential burst conflagration excepted)       Accidential burst conflagration excepted)         Made       Accidential burst conflagration excepted)       Accidential burst conflagration excepted)			H
CAUSES OF DEATH CAUSES OF DEATH         CAUSES OF DEATH           Food poisoning         Food poisoning         Accidential absorption of toxic gases         Accidential absorption of toxic gases         Accidential absorption of toxic gases           Food poisoning         Accidential absorption of toxic gases         Male         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1			······································
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CAUSES OF DEATH       CAUSES OF DEATH         CAUSES OF DEATH       Food polsening         Food polsening       Accidental absorption of toxic gases         Male       Accidental absorption of toxic gases         Male       Other acute accidental polsenings (exceept by gas)         Male       Other acute accidental polsenings (exceept by gas)         Male       Accidental absorption of toxic gases         Male       Male         Accidental injury by fail.       Male         Accide		T0-74 vears	Стата и
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CAUSES OF DEATH       CAUSES OF DEATH         CAUSES OF DEATH       Food poisoning         Food poisoning       Accidental absorption of toxic gases         Accidental absorption of toxic gases       Mate         Accidental burns (conflagration excepted)       Mate         Mate       Other acute accidental poisoning       Accidental poisoning         Accidental mechanical automation of toxic gases       Mate         Mate       Other acute accidental poisoning       Accidental poisoning         Accidental mechanical automation       Mate       Dialogration         Accidental mechanical automating       Exercise to accord acute accidental poisoning       Accidental poisoning         Accidental mechanical automating       Accidental mechanical automating       Dialogration         Accidental mechanical automating       Accidental mechanical automatical automa		60-64 years	
CAUSES OF DEATH         CAUSES OF DEATH           Food poisoning         Food poisoning         Food poisoning         60-54 yeans         Accidental absorption of toxic gases           Accidental absorption of toxic gases         Male         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		22-23 AGBLS	
CAUSES OF DEATH         CAUSES OF DEATH           Food poisoning         Food poisoning         Food poisoning         Food poisoning         35-39 years           Food poisoning         Accidental absorption of toxic gases         Male         1         1         1         2         35-39 years           Accidental absorption of toxic gases         Male         1         1         1         1         2         30-34 years           Accidental burns (conflagration excepted)         Penale         1         1         1         1         1         1         2         30-34 years           Accidental injury by finance         Penale         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		20-24 Aests	<b>1 1 1 1 1 1 1 1 1 1</b>
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CAUSES OF DEATH       CAUSES OF DEATH         Food poisoning       Food poisoning         Food poisoning       Accidental absorption of toxic gases         Accidental absorption of toxic gases       Other accidental poisonings (except by gas)         Mate       Other accidental poisonings (except by gas)         Accidental injury by firearms       Mate         Bin		30-34 Aests	1 I I 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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CAUSES OF DEATH     CAUSES OF DEATH       Food poisoning     Food poisoning       Food poisoning     Food poisoning       Food poisoning     Food poisoning       Food poisoning     Food       Accidental absorption of toxic gases     Male       Other acute accidental poisonings (except by gas)     Fernale       Male     10       Accidental burns (conflagration     Fernale		2-3 Å69LS	H H0 00H 04
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CAUSES OF DEATH     CAUSES OF DEATH       Food poisoning     Food poisoning       Food poisoning     Food       Accidental absorption of toxic gases     Male       Accidental absorption of toxic gases     Male       Accidental burns (conflagration excepted)     Permale       Accidental minury by firearms     Permale       Accidental injury by frame     Male       Accidental injury by frame     Male       Permale     1       Male     1       Permale     1       Accidental injury by frame     Male       Permale     1       Male     1       Permale     1       Male     1       Permale     1       Accidental injury by cutting or plercing instru- ments     Male       Male     1       Male     1       Permale     1       Accidental injury by cutting or plercing instru- ments     1       Male     1       Male     1       Permale     1       Accidental injury by fault. crushing or landslide       Permale     1       Male     1       Male     1       Male     1       Male     1       Male     1       Male <td></td> <td></td> <td></td>			
CAUSES OF DEATH     CAUSES OF DEATH       Food poisoning     Food poisoning       Food poisoning     Male       Accidental absorption of toxic gases     Permale       Accidental burns (conflagration excepted)     Permale       Accidental burns (conflagration excepted)     Permale       Accidental injury by freearms     Permale			
CAUSES OF DEATH     CAUSES OF DEATH       Food poisoning     Food poisoning       Food poisoning     Food poisoning       Food poisoning     Male       Accidental absorption of toxic gases     Male       Conflagration     Male       Other acute accidental poisonings (except by gas)     Male       Conflagration     Male       Accidental burns (conflagration excepted)     Male       Accidental injury by firearms     Male       Accidental injury by fail, crushing or landstide     Male       Penale     Male       Accidental injury by fail, crushing or landstide     Male       Male     Male       Accidental injury by fail, crushing or landstide     Male       Male     Male       Accidental injury by fail, crushing or landstide     Male       Male     Male       Accidental injury by fail, crushing or landstide     Male       Male     Male       Accidental injury by fail, crushing or landstide     Male       Male     Male       Accidental injury by fail, crushing or landstide     Male       Male     Male       Accidental injury by fail, crushing or landstide     Male       Male     Male       Male     Male       Male     Male       Male			
CAUSES OF DEATH         Food poisoning       Mate         Food poisoning       Food         Food poisoning       Mate         Accidental absorption of toxic gases       Mate         Conflagration       Female         Conflagration       Mate         Accidental burns (conflagration excepted)       Mate         Accidental injury by firearms       Female         Accidental injury by firearms       Female         Accidental injury by fall, crushing or landslide       Female         Mate       Female         Accidental injury by fall, crushing or landslide       Female         Mate       Female         Accidental injury by fall, crushing or landslide       Female         Mate       Female			1 1000000000000000000000000000000000000
CAUSES OF DEATH         Food poisoning         Food poisoning         Food poisoning         Food poisoning         Food poisoning         Accidental absorption of toxic gases         Other acute accidental poisonings (except by gas)         Conflagration         Accidental burns (conflagration excepted)         Accidental mechanical suffocation         Accidental injury by firearms         Accidental injury by cutting or plercing instruments         Accidental injury by fall, crushing or landslide         Injuries by animals         Hunger or thirst         Excessive heat         Lightning         Accidents         Other accidents         Other accidents         Other accidents	-	Into T	
CAUSES OF DEATH         Food poisoning         Food poisoning         Food poisoning         Food poisoning         Food poisoning         Accidental absorption of toxic gases         Other acute accidental poisonings (except by gas)         Conflagration         Accidental burns (conflagration excepted)         Accidental mechanical suffocation         Accidental injury by firearms         Accidental injury by cutting or plercing instruments         Accidental injury by fall, crushing or landslide         Injuries by animals         Hunger or thirst         Excessive heat         Lightning         Accidents         Other accidents         Other accidents         Other accidents			ale emale ale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale emale
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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1939-Continued

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<ul> <li>(b) Others under this title</li> <li>Violent deaths of which the nature (accident, suicide, homicide) is unknown</li> <li>Capital punishment</li> <li>Capital punishment</li> <li>Sudden death</li> <li>Cause of death not specified or ill-defined</li> </ul>	ider ider way weight weight we
n	SPECIAL CL Accidents in mines and quarries Accidents caused by machines Railway accidents Street-car accidents Automobile and motorcycle accidents Other land transportation Water transportation Air transportation
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# VITAL STATISTICS BRANCH

	CAUSES OF DEATH	DEATHS-ALL CAUSES	CLASS L-INFECTIOUS AND PARASITIC DISEASES	Typhoid fever	Paratyphoid fever	Small-pox	Measles	Scarlet fever	Whooping-cough	Diphtheria	Influenza	(a) Sole cause	(b) With bronchitis	(c) With pneumonia	(d) With other diseases of the respiratory system	(e) With intestinal complications	(f) With other causes
		Total Male Female	Total Male Female	Male	Male Female	Male	Male	Male	Male	Male	Total Male	Female Male	Female Male	Female	Female	Female Male	Female Male
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-	October	500 301 199	1216	1	11			0		- 10	10	69	01	6.0	.01		11
-	November	449 259 190	16	-	11		11		1	-	-1-	10	1	4	4		01

TABLE 18.-CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1939

Erysipelas         Poliomyelitis and polioencephalitis (acute)         Lethargic or epidemic encephalitis (acute)         Epidemic cerebrospinal meningitis         Therrulosis of the respiratory system         Tuberculosis of the meninges and central nervous system         Tuberculosis of the vertebral column         (a) Tuberculosis of the bones         (b) Tuberculosis of the bones         (a) Tuberculosis of the bones         (b) Tuberculosis of the bones         (b) Tuberculosis of the skin and sub-cutaneous cellular tissue         Tuberculosis of the skin and sub-cutaneous	7	Female Male Female Female Male Female Male Female Male Female Male Female Male Female Male Female Female Female Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<u></u>		
Purulent infection. septicaemia (non-puerperal) Malaria		Female Male Male Male	- 62			1111			

# TABLE 18.--CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1939--Continued

		VITAL STATISTICS BRANCH
1	Decempet	1 1 1 1 1 1 2 4 9 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	November	2888 281 0-0-0-401 000 001
	October	
	September	1 1 2 2 2 2 2 1 1 6 1 1 1 C 1 1 C 2 1 1 C 2 1 1 C 2 1 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 1 C 2
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	April	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Магећ	2222 282 2111 122 222 282 282 282 282 28
	February	282 288 288 288 288 288 288 288 288 288
	January	<b>H H H H H H H H H H</b>
-	Total	244 233 235 2285 235 235 235 235 235 24 11 11 11 11 11 11 11 11 11 11 11 11 11
		Male Female Female Female Female Female Female Female Female Female Male Female Female Female Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female
	CAUSES OF DEATH	42       Other diseases caused by helminths         43       Mycoses         44       (a) Chicken-pox         45       (b) German measles         (c) Other infectious or parasitic diseases         (e) Other infectious or parasitic diseases         45-53       Cancer and other malignant tumours         45-53       Cancer and other malignant tumours         45-53       Cancer and other malignant tumours         45       (a) Of the buccal cavity and pharynx         46       (a) Of the vecophagus         (b) Of the stomach and duodenum       (b)         (c) Of the rectum       (c)         (d) Of the parcreas       (d)         (f) Of the parcreas       (f)         (f) Of the liver and biliary ducts       (f)         (f) Of the parcreas       (f)         (f) Of the liver organs       (h)         (g) Of other organs       (h)         (f) Of the lung       (h) Of the lung         (h) Of the lung       (h)

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Male Female Female Female	Female	Female	Male Female Male	Male	Male	Male	Male	Male	Male	Male	Male	Female	Male	Male	Male	Male	Male	Female Male	Male	remaie Male Female Total Male
	Female	Female	Male Female Male	Male	Male	Male	Male	Male	Male	Male Female	Male	Female	Male	Male	Male	Male	Male	Male	Male	remale Male Female Total Male
	Female	Female	Male Female Male	Male	Male	Male	Male	Male	Male	Male Female	Male	Female	Male	Male	Male	Male	Male	Male	Female Male	Temale Male Female
	Female	Female	Male Female Male	Male	Male	Male		Male	Male	Male Male	Male	Female	Male	Male	Male	Male	Female Male	Male	Male	Total
	Female		Male Female Male	Male	Male	Male		Male	Femare	Male	Menue Female		Male	Male		Male	Male	Female	Male	Total
	Female		Male Female Male	Male	Male			Male	Male					Male		Male	Female Male		Female	Total
the respiratory system			Male Female Male	Male	and the second			Male						Male		Male	Male		Male	Total
the respiratory system					and the second									Male		Male				Total
the respiratory system					and the second															Total
the respiratory system					and the second						glandular system		the bones and joints							Total
Of the mediastinum Of other organs of the respiratory system Of the uterus			cer of the breast Of the bladder	Of the kidney	Of the prostate gland	Of the testicles and annexa				Of the circulatory system	Of the glandular system	Of the female urinary organs	Of the bones and joints	Of the brain	Of the spine and spinal cord	Of the neck	Of the abdomen	Of other specified organs	Multiple cancer	Total
the mediastinum other organs of the respiratory system the uterus	(b) Of the cervix uteri Female	49 Cancer of other female genital organs Female	84	(b) Of the kidney	and the second		(e) Of other male genito-urinary organsMale	52 Cancer of the skin Male	53 (a) Of the eye and orbit		glandular system		the bones and joints							(m) Of unspecified or unknown location Male Female 74 Non-malignant tumours Total Male

		_					MOI	MONTHS					
CAUSES OF DEATH		IstoT	January	February	Warch	April	June	tint	\$su3nA	September	October	November.	Decemper
(a) Of the ovary	Female	00	61	c1		1	1			1		-	-
(b) Of the uterus	Female	9	1			1	1		1	-	-		.1
(c) Of other female genital organs	Female					-	-	1			-		1
(d) Of the brain	Male					1	-	-		-		-	
(e) Of the thyroid gland	Male		-	N				1		1		11	1
(f) Of the prostate gland	Female Male	4.01			-	11		11		11		11	11
(g) Of other or unspecified sites	Male Female	40	11	~		11					-		11
55 (d) Tumours of the brain, nature not specified	Male	63	1	-	-	1	1	-		-		-	_
(g) Tumours of other or unspecified sites, nature specified	not		1 []		1 11	1 []			1 1 1		-		
CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES	HER Total Male Female	179 90 89	961-	11 6 11	51 <del>4</del> 8	11-4	10 10			17 8 9 10 6 6		00 10 00	
56 Acute rheumatic fever	Male	21	1	-		eo 6			c1 .		40		c4.
57 Chronic rheumatism, osteo-arthritis	Female Male	21-1	1		11	N	1.			*		- 03	
58 Gout	Male	•		-	11		-	1 1		1		11	-
59 Diabetes mellitus	Female Male	48	4	10	4	01	4	-	4	9	6		-
	Female Male	42	eo ::	-	-	c1	~		en :			64	
	Female Male		1 1	1 1				1 1					
	Female	2		1000		Contraction of the second	1				1		

	and the second mate summer of and		sthword glands Male 7	Female 17 3 2 1 2 2 4 4	Male moments of the second of	6 1 2	e	and and and and and and and and and	Female amount on an	Female and a set of the set of th	Wate was a set of a s	Male 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2	Total Male 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Female 2	Remain Male Times I I T	Female with the second se	Female	LOOD AND BLOOD-FORMING Total         63         6         1         9         7         6         7         3         6         4         5         3           Male         39         4         1         6         3         3         5         3         6         4         5         3         2         4         5         3         2         4         5         3         2         4         5         3         2         4         5         3         2         4         5         3         2         1         5         3         4         5         3         4         2         1         1         6         3         4         4         3         2         1         1         5         3         4         4         3         2         1         1         5         3         4         4         3         2         1         1         5         3         4         3         2         1         1         5         1         1         5         3         4         4         2         1         1         5         3         4         4         2         1	Male 2 1 1 1 1 1		14 2	Male, 1	Female         3         1         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>	Female         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th>Female</th>	Female
64 65 65 66 68 69 69 70 71 71 71 71 71		Diseases of the pituitary gland							and others under this title	(c) Others under uns sure	Diseases of the thymus gland	Diseases of the adrenals (Addison's disease)	Other general diseases		(a) Fatty or amyloid degeneration	(c) Others under this title		ASES OF THE BLOOD AND BLOOI	70 (a) Simple purpura	(b) Haemophilia	71 (a) Pernicious anaemia	(b) Others under this title	72 (a) Leukaemia	(b) Aleukaemia (Hodgkin's disease)	

TABLE 18.-CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1939-Continued

1	Ianuaaan			1128	<b>-</b>	1 1 101	4.9	-10 M		117	• 1	61
-	December	1	<del>-</del>	19 8 11		1111	0110	0110	111	11	1	
	November		नान गाग	117		10 01	901	10 01		1 1		
	October						-				-	
	September	:		12 66	17	111		0.01	<b>-</b> 1 1	11		
	1su3nA	111	111111	91 01-	1- 1-	-	- 10 -	4	111		•	-0
CHS	1 nj k	C1 C1	01	41-1-			44	44	111		1 1	
MONTHS	əunr			14.	- i ;-		-91	10.1		-	1	
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	February	111	11111	9 11 9	-	1111	46	10.4	1		11	
	January	111		12 23	111		- 64 10	60	-			
-	IntoT	00 00	1 <u>1</u>	263 152 111	10441		88°	44	4 01	- 00 0	99-	12
		Total Male Female	Male Female Male Female Female	Total Male Female	Male Female Male	Female Male Male Male	Female Male Female	Male Female	Male Female Male	Female Male	Male	remaie Male Female
	CAUSES OF DEATH	CLASS VCHRONIC POISONINGS AND INTOXICATIONS	<ul> <li>75 (a) Delirium tremens</li> <li>(b) Other alcoholic intoxications</li> <li>76 Chronic poisoning, by other organic substances</li> </ul>	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE Total ORGANS OF SPECIAL SENSE Male Female	78 Encephalitis (non-epidemic) 79 Simple meningitis	<ul><li>80 Progressive locomotor ataxia (tabes dorsalis)</li><li>81 Other diseases of the spinal cord</li></ul>	82 Cerebral haemorrhage, cerebral embolism and thrombosis Total	(a) Cerebral haemorrhage	<ul><li>(b) Cerebral embolism and thrombosis</li><li>(c) Softening of the brain</li></ul>	(d) Hemiplegia and other paralysis, cause not specified	83 General paralysis of the insane	84 (a) Dementia praecox

VITAL STATISTICS BRANCH

	-	49			00	61	-		64	154 102 52	74	-	1	1	+	00 04	00 64		12
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1 61	1 6	0 - 01		1	11		-	1.5		141 93 48	18 22	1		1	1	69	00 00	-	12
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1	11		1		-		-	1 15	111	1111 655 466	41	-		-		00 10	0110	-	10
		-	11	11	11	1		1		133 87 46	59			1	n	60	100		81 6
	-	- 61	1		1	-	1	1 1	01-1	115 132	48	-	-	1		40	40	1	81
	C1	-	1	1		-	11	11-		134 83 51	51 28	-	C1 C1	010	1	1- CV	1901	1	14
	-1 01 -	- 63 61			-1			-		139 60	32	-	1	1		10.47	10.47	i	1622
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242	Female Male	Male Male	Male	Mal	Mal	Male	Male	Female	Female Male Female	Total Male Femi	Male	Male	Male Female	Male	Male	Female Male	Male	Male	Male Female Male
NH5	Fema		Male	Mal	Male	Male	Fem	Fema	Femal Femal Femal	Total Male Female	Fotal Male	Male	2000	Male	Male		a part of the second	Male	
NHS	Fen	Total Male	Male	Mal	Mal	Mal	Male	Fem	Fema Fema		Total Male Femi	Male	Sub-total Male	Male		Sub-total Male	valvular		Sub-total Male Fem Male
2HZ	Fem		Male	Mal	Mal		Male	Fem	Fem Fem Male Fem	EM	Total Male	Male		Male	of age)		valvular		Sub-total Male Fem Male
2 <u>HZ</u>	Fen		Male	Mal	Mal		Male	Fem	Fem Fem	EM	Total Male Femi	Male		Male	of age)		valvular		Sub-total Male Fem Male
NH2		Total	Male	Mai	Mai		Male	Fem		EM	Total Male Fem:	Male			of age)	Sub-total	valvular		Sub-total Male Fern Male
NEA		Total	Male	Mai	Mai		Mak			EM	Total Male Fem:	Male			of age)	Sub-total	valvular		Sub-total Male Fem Male
E N		Total	Male		Mai					EM	Total Male Fem:	Male			of age)	Sub-total	valvular		Sub-total
F		Total	Mak		Mai					EM	Total Male Fem	Male			of age)	Sub-total	valvular		Sub-total
		Total	Mak							EM	Total	Male	Sub-total		of age)	Sub-total	valvular		Sub-total
		Total	Mak							EM	Total	Male	Sub-total		of age)	Sub-total	valvular		Sub-total
		Total								EM	Total		Sub-total		of age)	Sub-total	valvular		Sub-total
r psychoses	ons (under 5 years of age)	Total								EM	Total		Sub-total		of age)	Sub-total	valvular		Sub-total
r psychoses	ons (under 5 years of age)	Total		Neuralgia and neuritis	Paralysis agitans	Sclerosis (other than of the spinal cord)	Others under this title	ases of the organs of vision	Diseases of the mastoid process	EM	Total		Sub-total		of age)	Sub-total	valvular	Endocarditis, unspecified (45 years and over)	Sub-total
(b) Other psychoses Entimese	Convulsions (under 5 years of age)	Other diseases of the nervous system Total	(a) Chorea					Diseases of the organs of vision	<ul><li>(a) Ottus</li><li>(b) Diseases of the mastoid process</li></ul>	EM	Diseases of the heart Total	Pericarditis	Acute endocarditis Sub-total	(a) Endocarditis, specified as acute	age)	Chronic endocarditis, valvular diseasesSub-total	litis specified as chronic and other valvular		Diseases of the myocardiumSub-total (a) Acute myocarditis
r psychoses	Convulsions (under 5 years of age)	Total		Neuralgia and neuritis	Paralysis agitans	Sclerosis (other than of the spinal cord)	Others under this title	Diseases of the organs of vision	Diseases of the mastoid process		Total		Sub-total		of age)	Sub-total	valvular	Endocarditis, unspecified (45 years and over)	Sub-total

TABLE 18.--CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1939--Continued

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MONTHS

VITAL STATISTICS BRANCH

SS	CLASS VIIIDISEASES OF THE RESPIRATORY SYSTEM	Total Male Female	478 292 186	33 33	366	23962	16 12 24 16 12 22 16 12 22 12 22 12 22 12 22 12 22 22 12 22 2	36 33 22 22 22 14 11	24 18 6	12	20 16 4	34 15	29 15 14	44 28 16	
104	Diseases of the nasal fossae and annexa $\frac{1}{1}$	Male	10.01		61	-	1			1			1		
105	(a) Croup	Male			1						1				
	(b) Other diseases of the larynx	remaie Male Female	- 10 -	61		• •	-			11	111	[]]	1	1	
106	(a) Bronchitis (acute)	Male	< CU 1	1 1	- 1-			-	11	1 4	1				
	(b) Bronchitis (chronic)	Male	- 90		4 63	C1 -	1			11	11	C1			
	(c) Bronchitis (unspecified)	remale Male Venolo	4 6	11		- 17	F 4					•			
107	(a) Bronchopneumonia	Male	110	18	16	12	6.4	100 0	94	10.4	6 -		10 4	11	
	(b) Capillary bronchitis	Male	-	10	• 1	•	-			•	•			•	
108	Lobar pneumonia	Male	62	14	12	12	00	6	9	62	63	6.3 64	60 M	40	
109	Pneumonia, unspecified	remale Male	121	n 00 -	04.	0 77 0	0100		e.5 +		°	0 4F C			
110	Pleurisv	Female Male	12	4		10	N			* *	211	4	u i	a .	
III	nonary embolism and thrombosis	Female Male	1- 01	CN	1	-		61	11	11	1		-	- 1	
E.	of the lung, etc.	Female Male		1 1	1.1*	11		6.4 4	11	11	1		11	0.4	
112	Asthma	Female Male	21×	-		19	:00		-	1	1	- 00 -		9	
113	ary emphysema	Female Male	12	63	CN		1 1			-	11	- 61			
114	pneumonia including occupational	Female Malo	- 13	1	1	1 1	01		-		1	1	-	-	
		Female Male	-	11	11	TT			11		11	11	11	-	
	(c) Other diseases of the respiratory system	Female Male Female	10 01	C1		61	111					-	111		
ŝ	CLASS IXDISEASES OF THE DIGESTIVE SYSTEM	Total Male Female	479 285 194	44 27 17	30 12 12	1246	NNO	51 44 25 28 26 16	16 288	1225	46 27 19	38 11 18 12	39 27 12	12 18	
115	<ul><li>(a) Diseases of the buccal cavity and annexa</li><li>(b) Diseases of the tonsils</li><li>(e) Other diseases of the pharynx</li></ul>	Male Female Male Female	St-440	- i n i		00         -			87 11	01	11111	∞∺		111-	
		Female	0			T	1	41	-			- Leves	ī		

# TABLE 18.--CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1939--Continued

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	CAUSES OF DEATH	116       Diseases of the oesophagus         117       (a) Ulcer of the stomach         (b) Ulcer of the duodenum         118       Other diseases of the stomach         119       Diarrhoea and enteritis (under 2 years of age)         120       (a) Diarrhoea and enteritis (under 2 years of age)         121       Appendicits         122       (a) Diarrhoea and enteritis         123       Appendicits         124       (b) Intestinal obstruction         125       (a) Cirrhosis of the intestines         126       (a) Cirrhosis of the liver, specified as alcoholic         127       (b) Cirrhosis of the liver, not specified as alcoholic         126       (a) Vellow atrophy of the liver         127       (b) Others under this title         128       Diary calculi         129       Other diseases of the gall-bladder and billary passages         129       Diseases of the gall-bladder and billary passages         129       Peritonitis, cause not specified

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ears of	fied (10 years and over)		ie urethra, etc., under this title	the male genital organs (not specified as	(not			AND THE				septic con-		ions	-
ears of	fied (10 years and over)		ie urethra, etc., under this title	the male genital organs (not specified as	(not			AND THE				septic con-		ions	-
ears of	fied (10 years and over)	ases of the bladder (tumours excepted)	ie urethra, etc., under this title	the male genital organs (not specified as	Of the ovary, Fallopian tube and parametrium (not specified as venereal)			AND THE		Self-induced abortion (with septic conditions)	Abortion (without mention of septic conditions)	Self-induced abortion (without mention of septic con- ditions)	Ectopic gestation, with septic conditions	ions	-
ears of	Nephritis, unspecified (10 years and over) Other diseases of the kidneys and ureters Calculi of the urinary passages	Diseases of the bladder (tumours excepted) (a) Stricture of the urethra	(b) Other diseases of the urethra, etc., under this title Diseases of the prostate	Diseases of the male genital organs (not specified as venereal)	<ul> <li>(a) Of the ovary, Fallopian tube and parametrium (not specified as venereal)</li> </ul>	(not specified as venereal)	(c) Others under this title (not specified as venereal) Female	AND THE	(a) Abortion (with septic conditions)		(a) Abortion (without mention of septic conditions)	septic con-	(a) Ectopic gestation, with septic conditions	ions	Other accidents of pregnancy (haemorrhage excluded)
STEM 10 years of	Nephritis, unspecified (10 years and over) Other diseases of the kidneys and ureters Calculi of the urinary passages	ases of the bladder (tumours excepted)	ie urethra, etc., under this title	the male genital organs (not specified as	Of the ovary, Fallopian tube and parametrium (not specified as venereal)			EGNANCY, CHILDBIRTH AND THE		Self-induced abortion (with septic conditions)	Abortion (without mention of septic conditions)	Self-induced abortion (without mention of septic con- ditions)	Ectopic gestation, with septic conditions	ions	-

149       (a) Caesarean operation       Femu         (b) Dystocia       Femu         (c) Other surgical operations and instrumental delivery       Femu         (d) Rupture of uterus in parturition       Femu         (e) Other accidents of childbirth       Femu         (a) (b) Other or unspecified condition of the puerperal state       Femu         150       (b) Other or unspecified condition of the puerperal state       Femu         CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE       Male	(b) Other puerperal haemorrhages       Female         Puerperal septicaemia and pyraemia (not specified as due to abortion)       Female         Puerperal albuminuria and eclampsia       Female         Other tavaemias of pregnancy       Female         Other tavaemias of pregnancy       Female         (a) Philegmasia alba dolens and thrombosis       Female         (b) Embolism       Female         (c) Sudden death       Female         (c) Sudden death       Female         (d) Dystocia       Female         (d) Rupture of uterus in parturition       Female         (d) Rupture of uterus in parturition       Female         (e) Other accidents of childbirth       Female         (b) Other or unspecified condition of the puerperal state       Female         (b) Other or unspecified condition of the puerperal state       Female         (fmale       Female         (fmale       Female         (fmale       Female         (fmale       Female         (fmale       Female         (fmale       Female         <	IntoT 1 0 2 2 2 4 2 2 2 1 1 1 2002	Viennet	EFF	March		1	August	September	October	
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	e bones (tuberculosis excepted) joints (tuberculosis and rheumatisn	r organs of locomotion	rocephalus 1 meningocele ormations of the heart is title	EARLY INFANCY		
	of the bones (tuberculosis excepted) f the joints (tuberculosis and rheumatisn	f other organs of locomotion TAL MALFORMATIONS	hydrocephalus ia and meningocele malformations of the heart ies der this title	S OF EARLY INFANCY	with mention of caeserean o without mention af caesarean iliar to early infancy (under new-born	
	s of the bones (tuberculosis except of the joints (tuberculosis and	uses of other organs of locomotion	enital hydrocephalus a bifida and meningocele enital malformations of the heart trosities s under this title	EASES OF EARLY INFANCY	with mention of caeserean o without mention af caesarean iliar to early infancy (under new-born	
	omyelitis er diseases of the bones (tuberculosis except Diseases of the joints (tuberculosis and excepted)	Diseases of other organs of locomotion	Congenital hydrocephalus Spina bifida and meningocele Congenital malformations of the heart Monstrosities Others under this title	-DISEASES OF EARLY INFANCY	with mention of caeserean o without mention af caesarean iliar to early infancy (under new-born	
XIIIDISEASES OF THE BONES AND ORGANS OF LOCOMOTION	Osteomyelitis Other diseases of the bones (tuberculosis except (a) Diseases of the joints (tuberculosis and excepted)	(b) Diseases of other organs of locomotion	(a) (b) (c) (d) (e)	XVDISEASES OF EARLY INFANCY	Congenital debility Premature birth (a) Injury at birth, with mention of caeserean o (b) Injury at birth, without mention af caesarean Other diseases peculiar to early infancy (under months) (a) Atelectasis (b) Icterus of the new-born (c) Scierema and oedema	
	omyelitis er diseases of the bones (tuberculosis except Diseases of the joints (tuberculosis and excepted)	(b) Diseases of other organs of locomotion	<ul> <li>157 (a) Congenital hydrocephalus</li> <li>(b) Spina bifida and meningocele</li> <li>(c) Congenital malformations of the heart</li> <li>(d) Monstrosities</li> <li>(e) Others under this title</li> </ul>	CLASS XVDISEASES OF EARLY INFANCY	with mention of caeserean o without mention af caesarean iliar to early infancy (under new-born	

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TABLE 18CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1939-Continued		CAUSES OF DEATH	(d) Athrepsia     Male       (e) Others, including lack of care     Male       (f) No cause given, no doctor in attendance     Male	CLASS XVI.—SENILITY Total Male Female	<ul> <li>(a) With senile dementia (70 years and over)</li> <li>(b) Without senile dementia (70 years and over)</li> <li>(c) Premature senility (55 years but under 70 years)</li> </ul>	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS Total Male Female	SuicidesTotalSuicide by solid or liquid poisons or by absorption of corrosive substancesMaleSuicide by poisonous gasMaleSuicide by hanging or strangulationMaleSuicide by freezeMaleSuicide by trearmsMaleSuicide by tumping from high placesMaleFemaleMale
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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 Attack by venomous animals Food poisoning Accidental absorption of toxic gases	Other acute accidental poisonings (except by Conflagration Accidental burns (conflagration excepted) Accidental mechanical suffocation Accidental drowning	Accidental injury by firearms Accidental injury by cutting or piercing instruments Accidental injury by fall, crushing or landslide Injuries by animals Hunger or thirst Excessive cold Excessive heat Lightning Accidents due to electric currents	
Suicide by crushing	Other violent deaths Attack by venomous animals Food poisoning Accidental absorption of toxic	Other acute accidental poisonings Conflagration Accidental burns (conflagration es Accidental mechanical suffocation Accidental drowning	Accidental injury by firearms Accidental injury by cutting or p Accidental injury by fall, crushing Injuries by animals Hunger or thirst Excessive cold Excessive heat Lightning Accidents due to electric currents	dy
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Suicide by crushing	Other violent deaths Attack by venomous Food poisoning Accidental absorption	Other acute accident Conflagration Accidental burns (co Accidental mechanics Accidental drowning	Accidental injury by Accidental injury by Accidental injury by Injuries by animals Hunger or thirst Excessive cold Excessive heat Lightning Arcidents due to ele	Other accidents
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TABLE 18.—CAUSES OF DEATH			(acc	HI	pa	SPECIAL CLASSES OF ACCID	
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			<ul> <li>(b) Others under this title</li> <li>Violent deaths of which the nature (accident, homicide) is unknown</li> <li>Capital punishment</li> </ul>	TIL	Sudden death		Accidents in mines and quarries Accidents caused by machines Railway accidents Street-car accidents Automobile and motor-cycle accidents Other land transportation Water transportation Air transportation
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## TABLE 19--CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1939

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: infection, septicaemia (non-puerperal) ken-pox man measles er infectious or parasitic diseases		Total Inx	le genital organs
Purulent infection, septicaemia (non-puerperal) Mycoses (a) Chicken-pox (b) German measles (c) Other infectious or parasitic diseases		Cancer and other malignant tumours <b>Total</b> Cancer of the buccal cavity and pharynx	Cancer of other female genital organs
: infection, septicaemia (non-puerperal) ken-pox man measles er infectious or parasitic diseases	CLASS II.—CANCER AND OTHER TUMOURS Female	Total Inx	le genital organs

TABLE 19.-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1939-Continued

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	CAUSES OF DEATH	(a) Of the bladder	) Of the kidney	) Of the prostate gland	) Of the testicles and annexa	) Of other male genito-urinary organs	Cancer of the skin	) Of the eye and orbit .	) Of the circulatory system	Of the glandular system	) Of the female urinary organs	Of the bones and joints	Of the brain	) Of the spine and spinal cord	Of the abdomen	Of other specified organs	Multiple cancer	Non-malignant tumours	Of the ovary	(b) Of the uterus
	A 6 8 3	(a)	(q)	(c)	(p)	(e)	Ca	(a)	(q)	(c)	(p)	(e)	(f)	(g)	(i)	(i)	(k)	Not	(a)	(q)
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Of the brain	(g) Of other or unspecified sites	III. — RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS Total 37 AND OTHER GENERAL DISEASES [Female 23]	Acute rheumatic fever       Mate       7         Chronic rheumatism, osteo-arthritis       Female       2         Diabetes mellitus       Mate       2         Rickets       Female       8         Nale       Female       1         Diseases of the thymus gland       Female       1         Other general diseases       Female       1         Diseases of the thymus gland       Female       1         Premate       Female       1         Rate       Female       1	Female
Of the brain	Of other or unspecified sites Female 1 Female 1 Tumours of the brain, nature not specified Male 1	III. — RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS Total 37 AND OTHER GENERAL DISEASES [Female 23]	Acute rheumatic fever       Mate       7         Chronic rheumatism, osteo-arthritis       Female       2         Diabetes mellitus       Mate       2         Rickets       Female       8         Nale       Female       1         Diseases of the thymus gland       Female       1         Other general diseases       Female       1         Diseases of the thymus gland       Female       1         Premate       Female       1         Rate       Female       1	Female
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TABLE 19CAUSES OF DEA		CAUSES OF DEATH	74 Other diseases of the blood and blood-forming h	VCHRONIC POISONINGS AND INTOXICA- THONS	75 Alcoholism	VIDISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	78 Encephalitis (non-epidemic)	79 Simple meningitis	81 Other diseases of the spinal cord	82 (a) Cerebral haemorrhage	(b) Cerebral embolism and thrombosis	(c) Softening of the brain	(d) Hemiplegia and other paralysis, cause not specified	84 Dementia praecox and other psychoses	85 Epilepsy	86 Convulsions (under 5 years of age)	87 (d) Sclerosis (other than of the spinal cord) $\frac{1}{F}$
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s system		Total ified as acute	chronic and other Male Female	ocarditis, unspecified (45 years and over) Male Female carditis, unspecified (under 45 years of Male Female	and myocardial de-Male Female	ocarditis, unspecified (45 years and over) Male eases of the coronary arteries Male bolism and thrombosis of the coronary Male ries	ia pectoris
s system		Total ified as acute	chronic and other Male Female	ocarditis, unspecified (45 years and over) Male Female carditis, unspecified (under 45 years of Male Female	and myocardial de-Male Female	Myocarditis, unspecified (45 years and over) Male Diseases of the coronary arteries Male Embolism and thrombosis of the coronary Male reteries	ia pectoris
s system		Total ified as acute	Endocarditis specified as chronic and other Male valvular diseases Female	Endocarditis, unspecified (45 years and over) Male Myocarditis, unspecified (under 45 years of Male age) Female	Chronic myocarditis and myocardial de-Male Female	Myocarditis, unspecified (45 years and over) Diseases of the coronary arteries Embolism and thrombosis of the coronary arteries	ia pectoris
<ul> <li>(e) Other diseases of the nervous system</li> <li>Diseases of the organs of vision</li> <li>(a) Otitis</li> <li>(b) Diseases of the mastoid process</li> </ul>	VIL-DISEASES OF THE CIRCULATORY SYSTEM	Diseases of the heart Total Pericarditis (a) Endocarditis, specified as acute (b) Endocarditis, unspecified (under 45 years of age)	(a) Endocarditis specified as chronic and other Male valvular diseases Female	<ul> <li>(b) Endocarditis, unspecified (45 years and over) Male</li> <li>(b) Myocarditis, unspecified (under 45 years of Male age)</li> </ul>	and myocardial de-Male Female	<ul> <li>(d) Myocarditis, unspecified (45 years and over)</li> <li>(a) Diseases of the coronary arteries</li> <li>(b) Embolism and thrombosis of the coronary arteries</li> </ul>	<ul> <li>(c) Angina pectoris</li> <li>(a) Functional diseases of the heart</li> <li>(b) Other and unspecified</li> <li>Aneurysm (except of the heart)</li> <li>Arteriosclerosis (of coronary arteries excepted)</li> <li>Gangrene</li> </ul>
s system	VIL-DISEASES OF THE CIRCULATORY SYSTEM	Diseases of the heart Total Pericarditis (a) Endocarditis, specified as acute (b) Endocarditis, unspecified (under 45 years of age)	Endocarditis specified as chronic and other Male valvular diseases Female	Endocarditis, unspecified (45 years and over) Male Myocarditis, unspecified (under 45 years of Male age) Female	Chronic myocarditis and myocardial de-Male Female	Myocarditis, unspecified (45 years and over) Diseases of the coronary arteries Embolism and thrombosis of the coronary arteries	ia pectoris
<ul> <li>(e) Other diseases of the nervous system</li> <li>Diseases of the organs of vision</li> <li>(a) Otitis</li> <li>(b) Diseases of the mastoid process</li> </ul>		Diseases of the heart Total Pericarditis (a) Endocarditis, specified as acute (b) Endocarditis, unspecified (under 45 years of age)	(a) Endocarditis specified as chronic and other Male valvular diseases Female	<ul> <li>(b) Endocarditis, unspecified (45 years and over) Male</li> <li>(b) Myocarditis, unspecified (under 45 years of Male age)</li> </ul>	Chronic myocarditis and myocardial de-Male Female	<ul> <li>(d) Myocarditis, unspecified (45 years and over)</li> <li>(a) Diseases of the coronary arteries</li> <li>(b) Embolism and thrombosis of the coronary arteries</li> </ul>	<ul> <li>(c) Angina pectoris</li> <li>(a) Functional diseases of the heart</li> <li>(b) Other and unspecified</li> <li>Aneurysm (except of the heart)</li> <li>Arteriosclerosis (of coronary arteries excepted)</li> <li>Gangrene</li> </ul>

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		and over 100 years		111		
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TABLE 19CAUSES OF DEA		CAUSES OF DEATH	99 Other diseases of the arteries M 100 Diseases of the veins (varices, haemorrhoids, philebitis, etc.) M 102 Idiopathic abnormalities of blood pressure M	CLASS VIIL—DISEASES OF THE RESPIRATORY SYSTEM F	104       Diseases of the nasal fossae and annexa       M         105       (b) Diseases of the larynx       M         106       (a) Bronchitis (acute)       M         107       (a) Bronchitis (chronic)       M         107       (a) Bronchitis (chronic)       M         107       (a) Bronchopneumonia       M         108       Lobar pneumonia       M         109       Pneumonia, unspecified       M         110       Pleurisy       M         110       Pleurisy       M         111       (a) Pulmonary embolism and thrombosis       M         111       (b) Congestion and haemorrhagic infarct of the hundle       M	112 Asthma M F 113 Pulmonary emphysema F 114 Other diseases of the respiratory system (tuber- R Culosis excepted) F
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J	(a) I	(q) I	(c) (	Diseases of the oesophagus	(a) I	(b) Ulcer of the duodenum	Other diseases of the stomach	Diarrhoea and enteritis (under 2 years of age)	(a) I	(q)	Appendicitis	(a) Hernia	[ (q)	Other diseases of the intestines	(a) (	(q)	Other diseases of the liver	Biliary calculi	Other diseases passages	Diseases of the pancreas	Peritonitis, cause not specified	XDISEASES OF THE GENITO-URINARY SYSTEM	Acute nephritis (including unspecified, under years of age)
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	CAUSES OF DEATH	Chronic nephritis Nephritis, unspecified (10 years and over) Other diseases of the kidneys and ureters	Calculi of the urinary passages Diseases of the bladder (tumours excepted)	<ul> <li>(a) Diseases of the urethra, urinary abscess, etc.</li> <li>Diseases of the prostate</li> </ul>	(a) Of the ovary, Fallopian tube and para metrium, not specified as venereal	(b) Of the uterus, not specified as venereal	XL-DISEASES OF PREGNANCY, CHILD AND THE PUERPERAL STATE	(a) Abortion (with septic conditions)	(b) Self-induced abortion (with septic conditions) Female	(a) Abortion (without mention of septic condi- tions)	(b) Self-induced abortion (without mention of septic conditions)	(b) Ectopic gestation (without mention of septic conditions)	Other accidents of pregnancy (haemorrhage ex- cluded)	(b) Puerperal haemorrhage
	CAUSES OF DEATH	<ul><li>131 Chronic nephritis</li><li>132 Nephritis, unspecified (10 years and ov</li><li>133 Other diseases of the kidneys and urete</li></ul>	-	<ul><li>136 (a) Diseases of the urethra, urinary abs( 137 Diseases of the prostate</li></ul>	139 (a) Of the ovary, Fallopian tube and metrium, not specified as venereal		CLASS XL-DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE				Self-induced septic conditi	142 (b) Ectopic gestation (without mention conditions)	143 Other accidents of pregnancy (haemori cluded)	144 (b) Puerperal haemorrhage

TABLE 19.-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1939-Continued

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Puerperal septicaemia (not specified as due to abortion)	id eclampsia	SKIN AND CELLULAR	2.0	din and annexa and of	BONES AND ORGANS	and other second of	other organs	FORMATIONS	ele	tions of the heart	le	LY INFANCY	ut mention of caesarean
(a)	5 Puerperal albuminuria and eclampsia	S XIL-DISEASES OF THE SKIN AND CELLULAR Total TISSUE Male		3 Other diseases of the skin and annexa and the cellular tissue	S XIII.—DISEASES OF THE BONES AND ORGANS Total OF LOCOMOTION Male Fema	Osteomyelitis	Diseases of the joints locomotion	CLASS XIVCONGENITAL MALFORMATIONS	<ul> <li>7 (a) Congenital hydrocephalus</li> <li>(b) Spina bifida and meningocele</li> </ul>	<ul><li>(c) Congenital malformations of the heart</li><li>(d) Abnormalities</li></ul>	(e) Others under this title	CLASS XVDISEASES OF EARLY INFANCY	<ul> <li>8 Congenital debility</li> <li>9 Premature birth</li> <li>0 (b) Injury at birth without mention of caesarean operation</li> </ul>
145	146	CLASS	152	153	CLASS	154	Det	CLASS	157			CLASS	158 159 160

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TABLE 20.--CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1939

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18 Epidemic cerebrospinal m	23-32 Tuberculosis	23 Tuberculosis of the respir	24 Tuberculosis of the meni system	25 Tuberculosis of the inte	26 Tuberculosis of the ver	27 Tuberculosis of the bo column excepted)	34 Syphilis	CLASS IL-CANCER AND OTHER TUMOURS	45-53 Cancer and other mai	45 Cancer of the buccal			of	of	Of the	of	of	of	of		48 (a) Of the uterus
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### VITAL STATISTICS BRANCH

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TABLE 20.-CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1939-Continued

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<ul><li>(e) Of the thyroid gland</li><li>(f) Of the prostate gland</li></ul>	<ul><li>(g) Of other or unspecified sites</li><li>5 Tumours of the brain. nature not specified</li></ul>	- KA		<ul> <li>(D) Exoprination goine</li> <li>Diseases of the thymus gland</li> <li>3 Diseases of the adrenals (Addison's disease)</li> <li>) Other general diseases</li> </ul>	FOF FOF	<ul> <li>(b) Haemophilia</li> <li>(c) Pernicious anaemla</li> <li>(b) Others under this title</li> <li>(c) Aleukaemia</li> <li>(d) Aleukaemia</li> <li>(Hodgkin's disease)</li> <li>(f) Diseases of the spleen</li> </ul>	
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TABLE 20.-CAUSES OF DEATH BY SEX AND AGE IN CALGARY, 1939-Continued

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Otitis Otitis Diseases of the mastoid process	S OF THE CIRCULATORY	ified as acute	Endocarditis, unspecified (under 45 years of age) Endocarditis specified as chronic and other valvular diseases	Endocarditis, unspecified (45 years and over) Acute myocarditis	yocartums and myocartum s, unspecified (45 years and t the coronary arteries	and thrombosis of cetoris diseases of the hea unspecified diseases cept of the heart) s (of coronary arter of the arteries	Idiopathic abnormalities of blood pressure
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TABLE 20CAUSES OF DEA		CAUSES OF DEATH	CLASS VIIIDISEASES OF THE RESPIRATORY SYSTEM	104 Diseases of the nasal fossae and annexa		(b) Bronchitis (chronic)	107 Bronchopneumonia	108 Lobar pneumonia	110 Pleurisy	111 Congestion and haemorrhagic infarct of the lung	112 Asthma	114 (a) Chronic interstitial pneumonia including occupational diseases of the respiratory system	(c) Other diseases of the respiratory system (tuberculosis excepted)	CLASS IXDISEASES OF THE DIGESTIVE SYSTEM	<ul> <li>115 (a) Diseases of the buccal cavity and annexa</li> <li>(b) Diseases of the tonsils</li> </ul>
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<ul> <li>(c) Others under this title</li> <li>(a) Ulcer of the stomach</li> <li>(b) Ulcer of the duodenum</li> <li>Other diseases of the stomach</li> <li>Diarrhoea and enteritis (under 2 years of age)</li> <li>(a) Diarrhoea and enteritis (2 years and over)</li> <li>(b) Ulceration of the intestines (2 years an over)</li> </ul>	Appendicitis (a) Hernia (b) Intestinal obstruction Other diseases of the intestines (a) Cirrhosis of the liver, specif (b) Cirrhosis of the liver, m	alcoholic	X.—DISEASES OF THE GENITO-URINAI SYSTEM Chronic nephritis Chronic nephritis Nephritis, inspecified (10 years and over) Other diseases of the kidneys and ureters
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(c) (b) (b) (b) (b) (b)	<ul> <li>121 Appendicitis</li> <li>122 (a) Hernia</li> <li>(b) Intestinal obstruction</li> <li>123 Other diseases of the intestin</li> <li>124 (a) Cirrhosis of the liver, sp</li> <li>(b) Cirrhosis of the liver.</li> </ul>	alcoholic alcoholic [b] (b) Other diseases of the liv 126 Biliary calculi [b]	XDISEASES OF SYSTEM Chronic nephritis Nephritis, unspecifi Other diseases of th

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		80-84 Years			11	1	1	1	1	1		1	11	
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TABLE 20CAUSES OF DEATH		CAUSES OF DEATH	<ul> <li>134 Calculi of the urinary passages</li> <li>135 Diseases of the bladder (tumours excepted)</li> <li>136 Diseases of the urethra, urinary abscess, etc.</li> <li>137 Diseases of the prostate</li> </ul>	139 (a) Of the ovary, Fallopian tube and p metrium, not specified as venereal CLASS XIDISFASES OF PREGNANCY CHILDRI	AND THE PUERPERAL STATE 140 (a) Abortion with septic conditions	(q)	142 (b) Ectopic gestation without mention of septic conditions	144 Puerperal haemorrhage	146 Puerperal albuminuria and eclampsia	147 Other toxaemias of pregnancy	148 Puerperal phlegmasia alba dolens, embolism o sudden death (not specified as septic)	149 (b) Dystocia	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR Total TISSUE	152 Cellulitis, acute abscess
	11			5	3								C	

X AND AGE IN CALGARY. 1939-Continued

ANNUAL REPORT, 1939	
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OF LOCOMOTI OF LOCOMOTI Osteomyelitis Other diseases cepted)	IV.—CONGENITAL MALFOR (a) Congenital hydrocephalus		IQ	Congenital debil Premature birth (b) Injury at bir operation	Ato Iacl	S	W
OF Ost	(a)	(c) (d)	N.	Congenital debility Premature birth (b) Injury at birth operation	(a) Atelectasis	XVISENILITY	<ul> <li>(a) Without senile dementia (70 years and over) Male Fema</li> </ul>
CLASS XIII.—DISEASES OF OF LOCOMOTION 154 Osteomyelitis 155 Other diseases of t cepted)	CLASS XIV.—CONGENITAL MALFORMATIONS 157 (a) Congenital hydrocephalus		n	158 159 160	161 (e) C		162
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	90-94 Years				11				11	11	11	11	11	11	11	11	11	11
	85-89 years				11			11		11	11	11	11	11	11		11	11
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			Total Male				Total	Total										
		CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS	L			tts	L	F			0							
		EA				Suicide by cutting or piercing instruments Suicide by crushing					Accidental burns (conflagration excepted)							
		TI	-		-	stru			es.		xce				guing			
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	CAUSES OF DEATH	LNE	ang	Irow	lirea	utti		de	Disor		urns	ech	IMO.	Jury	jury	at .	cpoo	
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		- H	Suicides Suicide by hanging or strangulation	Suicide by drowning	Suicide by firearms	Suicide by cutting or pie Suicide by crushing	Homicides	Other violent deaths	Accidental absorption of toxic gases	Conflagration	cide	Accidental mechanical suffocation	Accidental drowning	Accidental injury by firearms	Accidental injury by fall or crushing	Excessive heat	(a) Foreign body	
	8	XV					Ho				Ac	Ac	Ac	Ac	Ac	Ex		
		ASS	163-171	166	167	168	175	198	178	180	181	182	183	184	186	191	194	
		CL	163-				173-175	176-198									-	
								-										

TABLE 20.-CAUSES OF DEATH BY SEX AND AGE IN CALGARY. 1939-Conti

106

# VITAL STATISTICS BRANCH

(b) Other accidents	Female	=	11	11	11	11	11	11	11		11			<b>1</b>		11	11	11		11	11	TI	11	11	11
CLASS XVIIIILL-DEFINED CAUSES OF DEATH	Total Male Female	-			111	111	111	111			111		111	111	111	111	111		111		111	111	111	111	111
200 Cause of death not specified or ill-defined	Female	-	11			11		11	-	TT					11	11	11		11		11	11	11	11	11
SPECIAL CLASSES OF ACCIDENTAL DEATHS	ENTAL DEA	SHI	(INC	TUD	ED	ALS	0 1	(INCLUDED ALSO IN THE	IE	PRI	ECE	DIN	E D	ABL	E), (	CALO	PRECEDING TABLE), CALGARY, 1939	7, 190	68	-					1

	SPECIAL CLASSES OF ACCIDENTAL DEATHS	ENTAL D	- with											10								1					
4	A Antidante in minae and muarriae	Male		-	-	1.00	-	-	-	-		-		_		_		-		-		-	_	-	_		
4	CONTRACT CONTRACT MID CONTRACT IN CONCOURSE	Female																									
В	B Accidents caused by machines	Male		1	_		1		1	1	1				1				1	1						1	
U	C Railway accidents	Female	-	10			11			11		-	1		1	11	11	-	-	1 1	11		-		11	1	
A	Street-car accidents	Female					11			11	1					11	_	11	1	1				_			
E	Automobile and motorcycle accidents	Female .	11				1			1	1	-					-		1	-						1	
	Other land transportation	Female .					11		1	11			1			-	11	-		11	-				12.1.1		11
0	Water transportation	Female					11				11					_		11	11							1000	
H	H Air transportation	Female			11	11	11	11	11	11	11	11		11	11	11	11	11	11	11	11			11	11	11	1.1
		Female		-	-		-	-	-		- mark	-	and and				-	-		-	-	-			-	-	-

Int. list No.	CAUSES OF DEATH	Male	Female
	A.—Accidents in mines and quarries	17	
178 186 194	Accidental absorption of toxic gases Accidental injury by fall, crushing or landslide Other accidents	13 $13$ $1$	
86	B.—Accidents caused by machines Accidental absorption of toxic gases	14 12	
94	Accidental injury by fall, crushing or landslide C.—Railway accidents	2	
178	Accidental absorption of toxic gases Accidental injury by fall, crushing or slandslide	1 10	
86	D.—Street car accidents Accidental injury by fall, crushing or landslide	1	
78	E.—Automobile and motorcycle accidents Accidental absorption of toxic gases	69 1	12
.81 .83 .86	Accidental burns (conflagration excepted) Accidental drowning Accidental injury by fall, crushing or landslide	1 1 66	12
	F.—Other land transportation	17	12
83 86 94	Accidental drowning Accidental injury by fall, crushing or landslide Other accidents	$ \begin{array}{c} 2 \\ 14 \\ 1 \end{array} $	1
	G.—Water transportation	14	
.80 .83	Conflagration Accidental drowning	4 10	
1	H.—Air transportation		

## TABLE 21.—SPECIAL CLASSES OF ACCIDENTAL DEATHS, ALBERTA, 1939, SUBDIVIDED ACCORDING TO NATURE OF ACCIDENT

TABLE 22.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, CLASSIFIED ACCORDING TO RESIDENCE OF DECEDENTS IN CITIES OF 5,000 POPULATION AND OVER, IN ALBERTA, 1939

				All Deaths	Dea	aths								De	aths	ni s	Int	Deaths in Institutions	tion	62				De	aths	e els	sew	Deaths elsewhere than in Institutions	th	an I	n II	nstit	utio	su
						Non-resident in city or town where death occurred and	ion-resident in or town where death occurred a	wn wn ecur	t in whe red	re	1 20	-						Non-resident in city or town where death occurred and	r to	fon-resident in cit or town where death occurred and	t in whe	re and								Non-resident in city or town where death occurred and	-res r to	von-resident in c or town where death occurred an	who wred	an ci
Cities	Total		Res	Residents	its	Res	Resident in Province		dent dent	Non-resi- dent in Province		Total	tal	-	Resi	Residents	ts	Res	Resident in Province		den- den	Non-resi- dent in Province	1	Ĕ	Total		Re	Residents	nts	Rei	Resident in Province	THE STATISTICS	Non-resi dent in Province	-resi it in vince
	Total Male	Female	Total	Male	Female	Total	Male	Female	Total Male	Female	1	IstoT	9leM	Female	Total	Male	Female	Total	Male	Female Total	Male	Female	appunaz	IntoT	Male	Female	letoT	Male	Female	TetoT	Male	Female	Total	Female
Calgary Edmonton Lethbridge Medicine Hat	861 506 3 1007 615 3 195 109 132 79	355 6 392 6 386 1 53	120021	378 358 2	275 187 242 399 48 95 31 52	399 2 359 2 52	115 251 57 34	148 388 388 18	21 1 28	3 613	00 01 44	545 776 153 90	343 202 476 300 88 65 60 30	300 300 300 300 300 300 300 300 300 300	374 587 60 36	232 1 233 1 32 24	142 1 154 3 28 28 12	162 1 383 2 93 49	104 56 33	58 144 37 16	0.0 10	1-4 m	0101 01	316 231 42 42	163 139 21 19	153 92 21 23	279 213 37	146 1 20 18	133 88 20 19	25 25 32 33	11211	14	SI 63	

TABLE 23.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, SHOWING THE NUMBER NON-RESIDENT IN ALBERTA, 1939

		Total	d IIA	All Deaths	IS Non-resident in Province	e in		Total	In Institutions	tutions Non	ons Non-resident in Province	u p	
	Total	Male	Female	Total	Male	Total Male Female Total Male Female Total Male Female Total Male Female	Total	Male	Female	Total	Male	Female	
Total for the Province	5789	3468	2321	60	34	26	2995	1845	1150	31	21	10	

ANNUAL REPORT, 1939

TABLE 24.—RATE PER 100.000 POPULATION AND NUMBER OF DEATHS BY AGE PERIODS FROM CERTAIN SPECIFIED CAUSES, FOR THE WHOLE PROVINCE, 1939

	and over 80 years	1 128 33 36 31 31 31 31 31 14 15 17 17 17 17 17 17 17 17 17 17
	70-79 years	141         147           19         133           19         133           19         133           133         333           133         333           133         133           133         133           133         133           133         133           133         133           133         133           133         133           133         133           133         133           133         133           133         133           133         133           134         134           135         134           136         136
	60-69 years	1 111111111111111111111111111111111111
	20-29 Aests	11128 158 158 158 158 158 158 158 158 158 15
	40-49 Years	a 33 160 2 2 6 3 3 3 1 1 1 2 8 9 9 1 1 1 7 5 7 5 9 9 1 1 1 7 5 7 5 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Deaths	30-39 Years	
Number of Deaths	50-59 Xests	1 1 1 1 6 1 1 9 9 1 1 1 1 1 1 1 1 1 1 1
lumbe	12-13 Xests	
A	10-14 Xests	
	2-9 Years	
	I-4 Years	1 1864 <u>861188118118841841884188</u>
	Under I year	233 142 128 128 128 128
	sagA IIA	$\begin{smallmatrix} & & & & & & & & & & & & & & & & & & &$
00	Death Rate per 100.0 Population	0.9 0.9 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3
	CAUSES OF DEATH	1.2       Typhold and paratyphold fever         6       Smallpox         7       Measles         7       Measles         8       Scarlet fever         9       Uphtheia         10       Uphtheia         11       Influenza         12       Eryspielas         13       Eryspielas         14       Eryspielas         15       Foliomyelitis and polioencephalitis (acute)         16       Poliomyelitis and polioencephalitis (acute)         17       Eryspielas         7       Uberculosis, other forms         22       Tuberculosis, other forms         23       Purulent infection, septicaemia         24       Erulent infection, septicaemia         25       Cuncurs         26       Diabetes mellitus         27       Uncurs         28       Diabetes mellitus         27       Leukaemia         27       Leukaemia         28       Diabetes mellitus         27       Leukaemia         28       Diabetes mellitus         27       Leukaemia         27       Leukaemia         28       Diabetes melli
		$\begin{array}{c} 1.2\\ 7\\ 1.2\\ 1.2\\ 1.2\\ 1.2\\ 1.2\\ 1.2\\ 1.2\\ 1.2$

VITAL STATISTICS BRANCH

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$ \begin{array}{c} \mbox{Diseases of buccal cavity and annexa and of the pharynx} \\ \mbox{and torsils} \\ \mbox{and the stomach} \\ \mbox{and the stomach} \\ \mbox{Diseases of the liver and gall-bladder} \\ Diseases of the liver and gall and moore and and and and and and and and and and$	69	F	00 00	1- 78	16	-		60	19	•			1	1	-	16	31	604	N	656	
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	272	60 KG	14	53	15		1		41	3	1		1	9		17	49	1981	-	988	
$ \begin{array}{c cccc} \mbox{Diseases of the storach and entertity and annexa and of the pharynx} \\ \mbox{Diseases of the storach and entertits} \\ \mbox{Diseases of the storach and entertits} \\ \mbox{Diseases of the storach and entertits} \\ \mbox{Diseases of the lyter and gall-bladder} \\ \mbox{Diseases of the lyter} \\ \mbox{Diseases of early infancy} \\ $	30 4	10	00 1/7	36	300		1 1		28	1	1	40	1	12	1	18	44	111		784	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	25	10	1- 4	10	1	00	1 1		63.6					00	1	14	26	423		427	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	4	11	1	41-		24	-		69	3	10	*-	•	17	60	19	26	310	-	311	
Diseases of buccal cavity and annexa and of the pharynx and totals $4.3$ and totals $3.4$ and totals $2.5$ and $2.$	00	13	4	e e	-	24	4		121	.9	14	000	1	16	4	23	38	2882	-	289	
Diseases of buccal cavity and annexa and of the pharynx and tonsitsHard and the controlHard and the pharynx and tonsitsHard and the controlHard and the control	11	14	-			3	11	1	80	•	13	1		10	64	10	18	123	-	130	-
Diseases of buccal cavity and annexa and of the pharynx and onsits133 and consits234 and and consits23 and and consits23 and and and consits23 and and and and and and anteritts23 and and and and and and and and onsits23 and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and and <td>61</td> <td>15</td> <td>01-</td> <td></td> <td>1</td> <td></td> <td>-</td> <td>1</td> <td>12</td> <td>-</td> <td>3</td> <td></td> <td></td> <td>00</td> <td>1</td> <td>4</td> <td>16</td> <td></td> <td>-</td> <td>83</td> <td>-</td>	61	15	01-		1		-	1	12	-	3			00	1	4	16		-	83	-
Diseases of buccal cavity and annexa and of the pharynx and tonalis113 and tonalis234 and 	60	14	-	61		1.	-		17		4		I	4	-	1	19	911	-	117	
Diseases of buccal cavity and annexa and of the pharynxUseases of the stomachand tonsilsand tonsilsand tonsilsand tonsilsand entertitsbisarchoea and entertits11.399Diseases of the stomachbisarchoeaand entertits11.399Appendicitsfremia, intestinal obstruction252025Cirrhosis of the liverand gall-bladder2520Cirrhosis of the liver and gall-bladder252024Cirrhosis of the liverand guartes2520Cirrhosis of the prostate11.3727324Diseases of the prostate25202324Diseases of the prostate10.1202323Congenital malformations313313313313Diseases of early infancy314211172Diseases of early infancy3142311323SuicidesAccidentsand quarries10.180Accidents in mines and quarries10.1802111Accidents in other land transportation21.9112111Accidents in other land transportation21.91110.311Accidents in other land transportation21.91702440Accidents in other land transportation21.91702440Accidents in other land transportation21.917021.9170Accidents in other land transportation21.9	61	10	3	4	-		0		12		10	1		10	0	17	37	514	-	166	-
Diseases of buccal cavity and annexa and of the pharynx and tonsils       43         and tonsils       111.3         Diseases of the stomach       111.3         Diseases of the stomach       111.3         Appendicits       111.3         Appendicits       113.3         Currionsis of the liver and gall-bladder       27.1         Diseases of the liver       27.1         Diseases of the liver       27.1         Diseases of the liver       27.1         Diseases of early infancy       27.1         Stoldes <td>13</td> <td>1</td> <td>1</td> <td>0</td> <td>1</td> <td>1</td> <td>313</td> <td>-</td> <td>=</td> <td>01</td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td>1-</td> <td>287</td> <td>ee!</td> <td>0</td> <td>763</td> <td></td>	13	1	1	0	1	1	313	-	=	01	1			1		1-	287	ee!	0	763	
Diseases of buccal cavity and annexa and of the pharynx and tonsils Diseases of the stomach Diseases of the stomach Diarrhoea and enteritis Appendicits Appendicits Appendicits Appendicits Appendicits Appendicits Appendicits Appendicits Appendicits Appendicits Cirrhosis of the liver and gall-bladder Cirrhosis of the liver and gall-bladder Diseases of the prostate Puerperal causes Congenital malformations Diseases of the prostate Puerperal causes Congenital malformations Diseases of early infancy Senility Scientes Homicides Homicides Homicides Accidents in duarries Accidents in air transportation Accidents in ain air transportation	-	060	12 8	77	21	6	22	80	190	322	22	11		81	18	10	44	20	96	08	-
Diseases of buccal cavity and annexa and of the and tonsils Diarrhoea and enteritis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Appendicitis Accidental malformations Compeniate Diseases of the liver and gall-bladder Diseases of the liver Parton and gall-bladder Parton and motor-cycle accidents Accidents in air transportation Accidents in air transportation Accident accident accident accident accident accident accident accident accident acci	122	T	(act				~ ~~	1	4.	-						-	41	6		12	
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MO	yune May	87 161 61 130 19 231 5 8 231 5 8 8 3 333 143 303	332 671
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	September	236 236 236 236 37 236 37 37 37 37 37 37 37 37 37 37 37 37 37	2 993
	November October	245 545 575 583 48 48 33 48 33 48 33 48 33 48 33 48 33 583 629 629	1135 1212
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TABLE 26.-MARRIAGES-CONJUGAL CONDITION OF CONTRACTING PARTIES IN ALBERTA, 1939

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93.1

26

23

143

31

123

195

136

174

6987

7838

Total for the Province

TABLE 25.-MARRIAGES IN ALBERTA BY MONTHS, 1939

Ages         of         Brtides           Ages         of         Brtides           Ages         of         Brtides           Ages         of         Brtides           11         1         1         1           13         3         31         32         33         34         35         36         37           11         11         11         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Ages         of         Brides         All	Ages         of         Brides         Addition         Additi
Ages         of         Brides           Ages         of         Brides           3         2         30         31         32         33         35         37           3         2         3         3         3         32         33         35         37           3         3         3         3         3         3         35         36         37           3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         <	Ages       of       Brides         Ages       of       Brides         Ages       of       Brides         3       3       3       3       3       3       3       3       40       41         28       29       30       31       32       33       34       35       36       37       38       39       40       41         12       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3 <th>Ages       of       Brides         Ages       of       Brides         <math>331323334353343533435334353343533343533343533343533343533343533343533343533343533343533343533343533343533334353333435333343533334353333435333343533334353333343533334353333435333334353333435333343533334353333435333343533334353333435333343533343533343533343533343533343533343533343533343533343533343533343533343533343533321121111121112211222211122         <math>111</math> <math>11</math> </math></th>	Ages       of       Brides         Ages       of       Brides $331323334353343533435334353343533343533343533343533343533343533343533343533343533343533343533343533343533334353333435333343533334353333435333343533334353333343533334353333435333334353333435333343533334353333435333343533334353333435333343533343533343533343533343533343533343533343533343533343533343533343533343533343533321121111121112211222211122         111 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 $
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30         11         14         14         14         14         14         16         36         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< td=""><td></td><td></td></th1<>		
	39 40 41 11 22 23 23 40 41 11 25 25 25 25 25 25 25 25 25 25	39 40 41 11 22 23 23 40 41 11 25 25 25 25 25 25 25 25 25 25

# TABLE 28.-MARRIAGES-BIRTHPLACES OF BRIDEGROOMS AND BRIDES, IN ALBERTA, 1939

		VIIAL	SIMISING DAM			
1		Not Specified				
		Various			1111	
		United States	241 1 22 38 38 38 38 38 20 26 134 8 134	160126	co co 10	01
		Other	N N	11111	1111	TITT
	Asia	repen		TITT	III	TITT
	A	China		11111		
		Ofper	12 2	00		
		Sweden	0 1 121			2 2
		Russia	23			
		Roumania	21	111111	1 1 1 1	
		Poland	37 1 26 26 26	01 1	1 1 23	4
	Europe	Notway	4	11111	4	2
		Italy	4	11111	1 0	11111
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	Ч	Holland	4		1 1 10	1 1 1 1 1
		Germany	2 12 1 12 1 8	00	1	
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ace	Posses-	Newfoundland	0 H 01		111	
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-		Wales	1 1 2112	232 (D)	111 7	
	sh	Scotland	76 33 88 88 88 1 1	54 19 22 22		
	iriti	Ireland	10 10 110	004H01H		
	щ	England	176 119 19 19 19 105 6	200 200 200	1 1 1	100
		Prov. not specified		TITT	111	
			0 0 480009	- 10 01 - 100		
		British Columbia	A			
		Alberta	3711 10 37 37 10 37 21 197 197 197 103 309 309 309 309 309 309 309 309 309 3	385 216 36 116 17	12 10 373	22 28 21 4
		Saskatchewan	584 5 3 6 6 6 1 1 172 202 202	44 49 199		1 10 2
	Canada	Manitoba	164 5 164 5 271 2 271 2 24 1 8 8	10 333		01 01
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	1.1.1	New Brunswick	0 0100	01 01	111 -	
		Ritool Scotia	233 233 233	00-101		
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		State of the second second	5486 17 65 34 94 418 295 616 616 176	793 74 74 37 37 1	20 16 16	39 39 11
		Total Grooms	336.24	1-4 01		0
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			E D		22	
		4	NADA Prince Edward Island Nova Scotia New Brunswick Ouebec Ontario Manitoba Saskatchewan Alberta British Columbia British Columbia		BRITISH POSSESSIONS Newfoundland Other	
		smo	Isl k bia pec		SSI	
		groc	wic wic in t s	ES	nd	
		deg	A Edwa Scotia Brunsv c o ba tchewa i Colu	ISL	dla	
		Birthplaces of Bridegrooms	VNADA Prince Edward Nova Scotia New Brunswick Quebec Ontario Alberta Saskatchewan Alberta British Columbi Province not sp	pupp	Newfoundland Other	edan
		щ	ANADA Prince Prince Nova S Nova S Quebec Ontario Manitols Saskatcl British Provinc	England England Ireland Scotland Wales Other	wfo	Austria Belgium Denmark Finland France
			CANADA Prince Nova S New B Quebec Ontario Manitol Saskatc Alberta British Provinc	BRITISH ISLES England Ireland Scotland Wales Other	BRITISH Newfor Other	Fir
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VITAL STATISTICS BRANCH

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Germany Holland Hungary Italy Norway Poland Roumania Russia Sweden	ASIA China Japan Other	United States Various Not specified	Total Brides

	Not stated	· · · · · · · · · · · · · · · · · · ·	- 1
	Ofher sects	111 1332 001 1 1 1 33 1 1 3 3 3 1 1 3 3 3 3 3 3	105
	No religion	113 53 88 1 1 33 53 1 1 33 53 53 53 53 53 53 53 53 53 53 53 53	38 1
	Oriental religions		
	United Church	270 64 44 64 11 8 8 8 8 127 15 11 127 152 117 117 117 117 117 117 117 117 117 11	2244
	United Brethren		17
	Unitarians		1
	Salvation Army		18
	Roman Catholics	988 117 117 117 117 117 1126 111 1126 1116 1126	247 1332
	Protestants	11 11 6 6 11 11 11 11 9 9 9 2	247
	Presbyterians	$\begin{smallmatrix} & & & & \\ & & & & \\ & & & & \\ & & & & $	60 567
	Pentecostal	40 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60
es	Mormons	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	79 171
Brides	Mennonites		79
of 1	Lutherans	355 138 158 158 128 361 351 351 351 351 137 137 137 137 55 55 55 55 55 55 55 55 55 55 55 55 55	743
	swat	30	33
Denominations	Movement		2
nin	Greek Orthodox	335	300
ious	Greek Catholics	22 10 11 11 11 11	289
Ă	Friends		1
	Evangelicals	44 1 4 11 41 11 10	49
	Disciples	1	63
	Church of Christ	H   0	20
	Christian Science	10101 4 1 1 1 1 0 1 0 1 0	17
	Christians	<b>6 6 1 1 1 1 1 1 1 1 1 1</b>	34
	Brethren	PRO 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17
	Baptists	$\begin{smallmatrix} & 4 \\ & 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3$	351
	Anglicans	456 411 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	53 1044
	steitinevbA	9 9 1 3 3 3 7 5 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7	53 ]
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TABLE 29.-MARRIAGES-DENOMINATIONS OF CONTRACTING PARTIES, ALBERTA, 1939

116

# VITAL STATISTICS BRANCH

		Divorce	s	1	Nullities	
Judicial Districts	Number of Divorces	Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife
Edmonton Calgary Lethbridge Medicine Hat Drumheller Peace River Red Deer Grande Prairle Macleod Vegreville Wetaskiwin Hanna	$     \begin{array}{r}       116 \\       108 \\       15 \\       6 \\       3 \\       4 \\       6 \\       1 \\       4 \\       2 \\       2     \end{array} $	47 35 8 3 3 2 2 3 1	69 73 7 3 2 4 1 1 1 2	5	2	3
Total	267	104	163	5	2	3

## TABLE 30.—DIVORCES AND NULLITIES BY JUDICIAL DISTRICTS FOR THE YEAR 1939

### DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

	Year	Granted to Husband	Granted to Wife	Tota
919		3	3	6
920		74	26	100
921		53	37	90
922		80	49	129
923		57	32	89
924		66	53	119
925		59	42	101
926		79	75	154
927		83	66	149
928		91	84	175
929		77	71	149
930	International Contraction of Contrac	64	87	151
931	here a second se	04	87	150
		69	81	130
932		68	81	149
933		56	19	135
934	- management of the second sec	62	106	168
935		74	135	209
936		74	135	209
37		102	139	241
938		105	162	267
939		104	163	267

### TABLE 31.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, ALBERTA, 1939

Canal Section 1		Months											
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province	881	85	74	95	94	70	58	53	80	69	70	71	62

### TABLE 32.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE, ALBERTA, 1939

	To	tal Bin	ths	Leg	itim	ate	Illeg	gitim	ate
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	881	437	444	769	382	387	112	55	57

### TABLE 33.—DEATHS OF INDIAN CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE FOR EACH SEX, ALBERTA, 1939

Int. list No.	Causes of Death	Total	Male	Female
	ALL CAUSES	135	65	70
7	Measles			
8	Scarlet fever	22		22
9	Whooping-cough	2		2
10	Diphtheria	14	9	5
11 13	Influenza Dysentery	1	1	2
15	Erysipelas	*		
16	Poliomyelitis and polioencephalitis (acute)			1
18	Epidemic cerebrospinal meningitis	1		1
23	Tuberculosis of the respiratory system			1
24	Tuberculosis of the meninges and central ner-	14	3	11
	vous system	3	2	1
25-32	Tuberculosis, other forms			
34	Syphilis	2	1	1
67	Diseases of the thymus gland			
86	Convulsions	3	2	1
89	Diseases of the ear and mastoid process	12	1	9
106 107	Bronchitis Bronchopneumonia	19	12	7
8, 109	Pneumonia	23	11	12
6-118	Diseases of the stomach			
119	Diarrhoea and enteritis	8	4	4
122	Hernia, intestinal obstruction	2		2
130	Nephritis	1		1
157	Malformations	5	3	2
	(a) Congenital hydrocephalus			
	(c) Congenital malformations of the heart	23	2	
150	(b, d, e) Others under this title	5	3	22
158 159	Congenital debility Premature birth	7	4	3
160	Injury at birth	5	2	3
161	Other diseases peculiar to early infancy		-	
101	(under 3 months)	9	5	4
	(a-e) Specified diseases	4	2	2
	(f) No cause given, no doctor in attendance	5	3	2
3-175	Homicide	1		1
6-198	Other external causes			
	Other specified causes	4	1	3
99, 200	Unspecified or ill-defined causes	1	T	

IABLE 39-CAUSES OF		CAUSES OF DEATH	DEATHS-ALL CAUSES Total Male Female	CLASS       IINFECTIOUS AND PARASITIC DISEASES       Total         1       Typhold fever       Pennale         7       Measles       Pennale         8       Scarlet fever       Pennale         9       Whooping-cough       Pennale         11       Influenza       Pennale         12       Sole cause       Pennale         11       Influenza       Pennale         12       Uvith bronchitis       Pennale         (a)       Sole cause       Pennale         (b)       With bronchitis       Pennale         (c)       With other diseases of the respiratory system       Penale         (f)       With other causes       Penale         (f)       Polomyelitis and polioencephalitis (acute)       Penale
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TABLE 34.--CAUSES OF DEATHS OF INDIANS BY SEX AND AGE, ALBERTA, 1939

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	CAUSES OF DEATH	Epidemic cerebrospinal meningitis         Tuberculosis of the respiratory system         Tuberculosis of the meninges and central nersystem         Tuberculosis of the intestines and peritoneu         Tuberculosis of the vertebral column         Tuberculosis of the vertebral column         (a) Of bones         (b) Of joints         Tuberculosis of the genito-urinary system         (b) Of joints         (c) Disseminated tuberculosis (acute)         (c) Disseminated tuberculosis (not specified         Syphilis         Mycoses         II -CANCER AND OTHER TUMOURS	
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TABLE 34CAUSES	CAUSES OF DEATH	Simple meningitis Cerebral haemorrhage, cerebral embolism Epilepsy Epilepsy Convulsions (under 5 years of age) Convulsions (under 5 years of age) Other diseases of the nervous system (a) Otitis (b) Diseases of the mastoid process (b) Diseases of the mastoid process <b>VIL-DISEASES OF THE CIRCULATORY</b> SYSTEM (a) Endocarditis, specified as acute (a) Endocarditis, specified as acute (a) Endocarditis, specified as chronic and valvular diseases (d) Myocarditis, unspecified (45 years and (b) Embolism and thrombosis of the cord arteries Other diseases of the heart Arteriosclerosis (of coronary arteries excep Idiopathic abnormalities of blood pressure
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TABLE 34.—CAUSES OF DEATHS		CAUSES OF DEATH	CLASS XDISEASES OF THE GENITO-URINARY SYSTEM	130 Acute nephritis (including unspecified, under 10 years of age)	131 Chronic nephritis	137 Diseases of the prostate	138 Diseases of the male genital organs (not specified as venereal)	139 (d) Others under this title	CLASS XI,—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	140 (a) Abortion with septic conditions	141 Abortion without mention of septic conditions (haemorrhage included)	142 (b) Ectopic gestation without mention of sepic conditions	145 Puerperal septicaemia (not specified as due to abortion)	148 (b) Puerperal embolism	(c) Puerperal sudden death	150 Other or unspecified condition of the puerperal state	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR Total TISSUE	151 Carbuncle
OF DEAT			Total Male	0 Female	Female Male	Female	d Male	Female	H Total	Female	Female	c Female	o Female	. Female	Female	I Female	R Total Male Female	Male Female
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BY		3 Years	11		111	11		1	1	1	1	1	1	1	1	1	111	11
SEX		2-9 Aests		10		11									-		111	
AND		10-14 Years					:			-			:	:	-	:		
AGE,		12-19 years																
		20-24 Years	1	1		11		1	-	1	1	1	1	1	1	-	11	
ALBERTA.		25-29 years	T	1		11	1	1	1	1	1	1	1	1	1	1	11	
RTA		30-34 Aests				11							1					
	AGES	40-44 A6912 32-33 A6912				11		1									111	
	23	42-49 Years		-													111	
Cont		20-24 Years				11		1	1	1	1	1		1	1	1		
-Continued		22-23 Aests			111	11	1	1	1	1	1		1	1	:	1	11	
		60-64 Years		1		11	1	]	1		1	1	1	1	1	1	11	
-		62-69 years												:	:		11	
		12-13 Xests			-													
		80-84 Years	11			-		1	1	1			1			1	11	
		85-89 years	1		111	11		1	1	1	1	1	1	1	1	1	11	
		90-94 Years		1		-	1	:	1	1	1	1	1	1	1	1	11	
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THE BONES AND ORGANS Total Male Fema				genital debility	Lean				1		Total
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73	9	<ul> <li>(c) Congenital malformation</li> <li>(d) Abnormalities</li> <li>(e) Others under this title</li> </ul>	IQ-	gen nati	operation Atelectasis	Icterus of the new-born	No cause given, no doctor in attendance	S	With senile dementia (70 years and over) Without senile dementia (70 years and over)	A	ides ide
OF	XIV CONGENITAL MALFORMATIONS	<ul> <li>(c) Congenital malformations of the heart</li> <li>(d) Abnormalities</li> <li>(e) Others under this title</li> </ul>	-'AD	Congenital debility Premature birth		(e)	(1)	XVISENILLIY	(a)	XVIIVIOLENT OR ACCIDENTAL DEATHS	Suicides Suicide by firearms Homicides
CLASS XIII.—DISEASES OF OF LOCOMOTION		157	CLASS XVDISEASES OF EARLY INFANCY	158 ( 159 1					162	SS X	
TA	CLASS	н	TAS		1			CLASS	Ĥ	CLASS	163-171 167 173-175
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TABLE 34.-CAUSES OF DEATHS OF INDIANS BY SEX AND AGE, ALBERTA, 1939-Continued

# VITAL STATISTICS BRANCH

12	26	VITAL STATISTICS BRANCH	
	Not stated		
	and over 100 years		
	62-66 Xests		
	90-94 years		
	85-89 years	, , , , , , , , , , , , , , , , , , ,	
	80-84 Years	1939	
	75-79 years	TA.	
	70-74 years		
	65-69 years	ALBERTA.	
	60-64 years	[]	
	22-23 years	TABLE)	
	20-24 <i>hears</i>		
102	42-49 Xears	FIF IIIIII III III II	
AGES	40-44 years		
	32-33 Xests	<b>1 1 1 1 1 1 1 1 1 1</b>	
	30-34 Years		
	25-29 years		
	20-24 years		
	12-19 Years	ALSO	
	10-14 years		
	2-9 Aests		
	4 years	NC	
	3 years		
	2 years	1 2 2 1 1 2 2 2 1 1 2 2 1 1 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 1 2 2 2 2 1 1 1 1 2 2 2 2 1 1 1 1 2 2 2 2 1 1 1 1 2 2 2 2 1 1 1 1 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	1 year	NDI NDI	
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		Male Female Male Female Male Female Male Female Male Female Female Male Female Female Male Female Male Female Male Female Male Female	Male Female Female Male Female Male Female Female Female Male Female Female Female Female
	CAUSES OF DEATH	173       Homicide by firearms       Male         175       Homicide by other means       Female         176-198       Other violent deaths       Female         180       Conflagration       Fortal         181       Accidental burns (conflagration excepted)       Female         183       Accidental drowning       Female         184       Accidental injury by fall, crushing or landslide       Female         189       Hunger or thirst       Male         189       Hunger or thirst       Female         189       Hunger or thirst       Male         189       Hunger or thirst       Male         180       Course of thirst       Male         183       Subjected       Female         184       Female       Male         189       Hunger or thirst       Male         189       Guase of thirst       Male         189       Subjected       Male         180       Course of death not specified or ill-defined       Male	<ul> <li>A Accidents in mines and quarries</li> <li>B Accidents caused by machines</li> <li>C Railway accidents</li> <li>D Street-car accidents</li> <li>D Street-car accidents</li> <li>C Automobile and motorcycle accidents</li> <li>F Other land transportation</li> <li>G Water transportation</li> <li>H Air transportation</li> </ul>
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1939	20.9 9.9 13.6 46.0 3.5
1938	20.3 8.9 7.5 51.0 4.3
1937	20.4 8.2 8.0 12.4 63.0 4.9
1936	20.4 7.8 8.0 12.5 60.0 5.8
1935	21.0 7.7 7.3 14.0 57.8 4.2
1934	$\begin{array}{c} 21.10\\ 7.87\\ 6.93\\ 14.01\\ 54.89\\ 4.99\end{array}$
1933	21.33 7.10 14.24 59.90 4.43
1932	22.96 6.83 7.46 15.50 58.68 3.76
1931	23.57 7.02 7.24 16.32 69.38 5.04
1930	26.74 8.08 8.33 8.33 8.33 18.41 63.57 6.46
1929	26.19 9.29 9.29 9.65 16.54 77.40 7.26
1928	$\begin{array}{c} 24.79\\ 9.12\\ 9.12\\ 9.00\\ 15.79\\ 76.50\\ 6.75\\ 6.75\end{array}$
1927	24.03 7.58 8.16 15.87 74.51 6.38
1926	23.79 7.40 7.40 81.63 5.82 5.82
1825	25.02 7.27 7.26 7.86 16.16 72.90 5.76
1924	24.74 7.50 8.30 16.42 82.40 6.18
	Birth Rate Marriage Rate Death Rate Rate of Natural increase Infantile Death Rate (per 1,000 births) Puerperal Death Rate (per 1,000 births)

Death Rate per 1,000 Births 3.5 Deaths from Puerperal Conditions 59 Births 164.70 Whole Province

TABLE 36.-DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1939

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City of Edmonton City of Calgary Smal Cities Rural Districts

# ANNUAL REPORT, 1939

	Year	Population	Births	Marriages	Deaths	Excess of Births over Deaths
905			421	187	114	307
906		185,000	3.003	927	1.091	1.912
907		236,000	4.732	1.907	1.578	3,154
908		266,000	5,973	2.032	2.188	3.785
909		301,000	6.897	2.384	2,662	4.235
910		336,000	8.321	3.086	3,526	4,705
911		374,000	8.813	36.30	3.618	5.195
912		400,000	10.284	4.429	4.232	6.052
913		429,000	11.871	5.053	4.432	7,439
914		459,000	13.685	4.623	4.147	9.538
915		480,000	13,452	4,202	3.588	9,864
916		496,000	13.331	4,230	4.058	9.273
917		508.000	13,576	4.270		9,529
918		522,000	14.890		4,047	
919		541,000	14,130	4,048	7,924	6,966
920		565,000		4,718	5,507	8,623
921			16,565	5,110	5,675	10,890
922		588,000	16,414	4,661	4,940	11,474
		592,000	16,163	4,272	5,281	10,882
923		593,000	15,153	4,117	4,843	10,320
924		597,000	14,598	4,160	4,907	9,691
925		602,000	15,014	4,363	4.717	10.297
926		608,000	14,455	4,498	5,156	9,299
927		633,000	14,897	4.707	5,059	9,838
928		658,000	15,692	5.776	5,699	9,993
929		684,000	16,924	6.004	62,39	10,685
930		708 000	17,649	5,334	5,396	12,153
931		732,000	17,252	5,142	5,302	11,950
932		740,000	16,990	5.054	5.521	11.469
933		748,000	16,123	5,389	5.346	11.093
934		756,000	16,236	6.053	5.337	10,899
935		770.000	16,183	6.010	5,729	10,454
936		772,782	15.786	6.020	6.147	9,639
937		778,000	15,903	6.345	6.261	9,642
938		783,000	15.891	6.973	5.871	10.020
939						

## TABLE 37 .- VITAL STATISTICS, 1905 TO 1939 INCLUSIVE

### POPULATION, BIRTH, MARRIAGE AND DEATH RATES, 1939

Population	789,000
Birth Rate per 1,000	20.9
Marriage Rate per 1,000	9.9
Death Rate per 1,000	7.3

# 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	$\begin{array}{c} 1,059\\ 1,094\\ 1,075\\ 1,077\\ 1,086\\ 1,065\\ 1,103\\ 1,084\\ 1,053\\ 1,084\\ 1,053\\ 1,081\\ 1,100\\ 1,063\\ 1,061\\ 1,069\\ 1,074\\ 1,055\\ 1,055\\ 1,934\\ \end{array}$	$\begin{array}{c} 3.11\\ 2.07\\ 2.96\\ 2.73\\ 2.59\\ 2.69\\ 2.43\\ 2.43\\ 2.43\\ 2.67\\ 3.30\\ 3.47\\ 3.29\\ 3.25\\ 1.88\\ 2.56\\ 2.92\\ 3.32\\ 3.32\\ 3.06\end{array}$	1923           1924           1925           1926           1927           1928           1929           1930           1931           1932           1933           1934           1935           1936           1937           1938           1939	$\begin{array}{c} 1,072\\ 1.036\\ 1.042\\ 1.053\\ 1.065\\ 1.064\\ 1.042\\ 1.027\\ 1.075\\ 1.052\\ 1.053\\ 1.032\\ 1.055\\ 1.049\\ 1.019\\ 1.046\\ 1.046\\ 1.046\end{array}$	$\begin{array}{r} 3.13\\ 2.97\\ 3.18\\ 2.80\\ 2.94\\ 2.75\\ 2.71\\ 3.25\\ 3.08\\ 3.01\\ 3.04\\ 2.81\\ 2.57\\ 2.38\\ 2.70\\ 2.85\end{array}$

