

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

### **Contributors**

Alberta. Department of Public Health.

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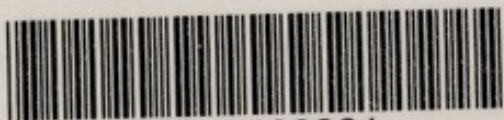
ANNUAL REPORT  
OF THE  
**Department of Public Health**  
PROVINCE OF ALBERTA  
INCLUDING  
**Vital Statistics Branch**  
**1939**

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PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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



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1941

Edmonton, December 15, 1940.

Mr. H. H. Brown

111 - 10th Avenue

Edmonton, Alberta

I have the honor to transmit herewith the Annual Report of the  
Department of Public Health for the year 1939.

I have the honor to be, Sir,

Yours obedient servant,

Walter Stewart Cross

Minister of Health

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.*



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

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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 31a 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

## REVENUE AND EXPENDITURE FOR THE FISCAL YEAR ENDED MARCH 31, 1940

DIV. Vote.	Salaries.	Expenses.	Revenue.
1. 605. Communicable Diseases .....	\$ 2,873.87	\$ 19,942.26	\$ 1,508.22
2. 605. Public Health Education .....	2,000.00	1,832.25	
3. 603. Hospital Inspection .....	2,887.64	765.64	274.00
Grants .....		471,907.05	
4. 626. Laboratory .....		4,750.00	
5. 606. Public Health Nursing .....	39,881.42	16,472.85	4,899.11
6. 608. Municipal Hospitals .....	2,617.40	1,040.51	
7. 610. Social Hygiene .....	8,677.34	7,637.32	
8. 605. Sanitary Engineering and Sanitation .....	7,001.39	5,263.65	1,353.44
9. 621. Dental Hygiene .....			
10. 622. Mental Hygiene .....	5,876.85	7,579.53	
Institutions:			
11. 614-15. Prov. Mental Hosp., Ponoka .....	287,381.94	154,450.00	145,774.48
623. Prov. Aux. Hosp., Claresholm .....	15,436.68	10,569.29	6,229.91
632. Prov. Aux. Hosp., Raymond .....	17,313.66	11,670.43	6,566.05
612-25. Prov. Mental Institute, Oliver .....	123,731.92	58,541.53	60,563.89
613. Prov. Training School, Red Deer .....	53,561.76	24,052.96	41,762.50
604. Central Alberta Sanatorium .....	132,627.99	240,281.08	56,109.40
619. University of Alberta Hospital .....		53,000.00	
12. 607. Vital Statistics .....	16,047.38	4,743.32	55,163.05
609. Insulin .....		11,617.22	
611. Grants to Homes .....		3,950.00	
605. Full Time Health Districts .....		20,227.67	
631. Poliomyelitis .....	600.00	18,249.25	
Administration .....	18,637.40	4,261.17	883.23
	\$ 737,154.64	\$1,152,804.98	\$ 381,087.28
627-28. Child Welfare .....	14,136.64	59,401.36	23,510.62
629. Mothers' Allowance .....	2,367.93	634,905.70	157,010.75
	\$ 753,659.21	\$1,847,112.04	\$ 561,608.65
Total Expenditure: Public Health Department .....	\$2,600,771.25		
Less: Expenditure Child Welfare and Mothers' Allowance Branches .....	710,811.63		
	\$1,889,959.62		
Less: Public Health Revenue .....	381,087.28		
	\$1,508,872.34		

## 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	21.10	6,053	7.86	5,337	6.93
1935 .....	16,183	21.00	6,010	7.80	5,729	7.40
1936 .....	15,786	20.40	6,020	7.80	6,147	8.00
1937 .....	15,903	20.40	6,345	8.20	6,261	8.00
1938 .....	15,891	20.30	6,973	8.90	5,871	7.50
1939 .....	16,470	20.90	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:

TABLE 1

Homicides .....	13	Accidental injuries from falling, crushing or landslides .....	182
Attack by venomous animals .....	1	Injuries inflicted by animals .....	11
Food poisoning .....	11	Hunger or thirst .....	2
Accidental absorption of toxic gases .....	5	Excessive heat .....	2
Other acute accidental poisoning (except by gas) .....	11	Excessive cold .....	2
Conflagration .....	18	Other accidents .....	20
Accidental burns (conflagration excepted) .....	6	Violent deaths (accidental, suicide or homicide), unknown .....	1
Accidental Mechanical suffocation .....	53	Lightning .....	5
Accidental drowning .....	14	Capital punishment .....	—
Accidental injuries by firearms .....	3	Total .....	367
Accidental injuries by cutting instruments .....			

TABLE 2

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

Accidents in mines and quarries .....	17	Automobile and motorcycle accidents .....	81
Accidents caused by machines .....	14	Other land transportation .....	18
Railway accidents .....	11	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 .....	7	Puerperal Haemorrhage .....	10
Abortion with septic condition .....	10	Puerperal Albuminaria and Eclampsia .....	7
Abortion without septic condition .....	1	Puerperal Embolism .....	2
Ectopic Gestation .....	1		

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 been 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 .....	4,261	Number of pre-natal consultations .....	1,136
Number of office visits .....	11,969	Number of child welfare visits .....	291
Number of dressings .....	2,459	Number of cases sent to hospital .....	375
Number of medical cases .....	5,697	Number of smallpox vaccinations .....	930
Number of surgical cases .....	1,152	Number of inoculations .....	1,577
Number of obstetrical cases .....	311	Number of communicable disease cases .....	141
Number of abortions .....	45		
Number of pre-natal visits .....	292		

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, Sunny-nook, 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

	On Books, Jan. 1, 1939		Admissions, 1939		Discharges, 1939		Deaths, 1939		On Books, Dec. 31, 1939	
	Psychotic	Mental Defectives	Psychotic	Mental Defectives	Psychotic	Mental Defectives	Psychotic	Mental Defectives	Psychotic	Mental Defectives
Oliver .....	691	78	54	2	22	1	32	1	691	78
Ponoka .....	1427	139	558	56	528	13	82	.....	1375	182
Red Deer .....	.....	214	.....	11	.....	8	.....	2	.....	215
Claresholm .....	91	6	18	.....	14	.....	2	.....	93	6
Raymond .....	.....	.....	103	13	11	.....	1	.....	91	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 Delinquents.*

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-

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 twenty-seven 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

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.

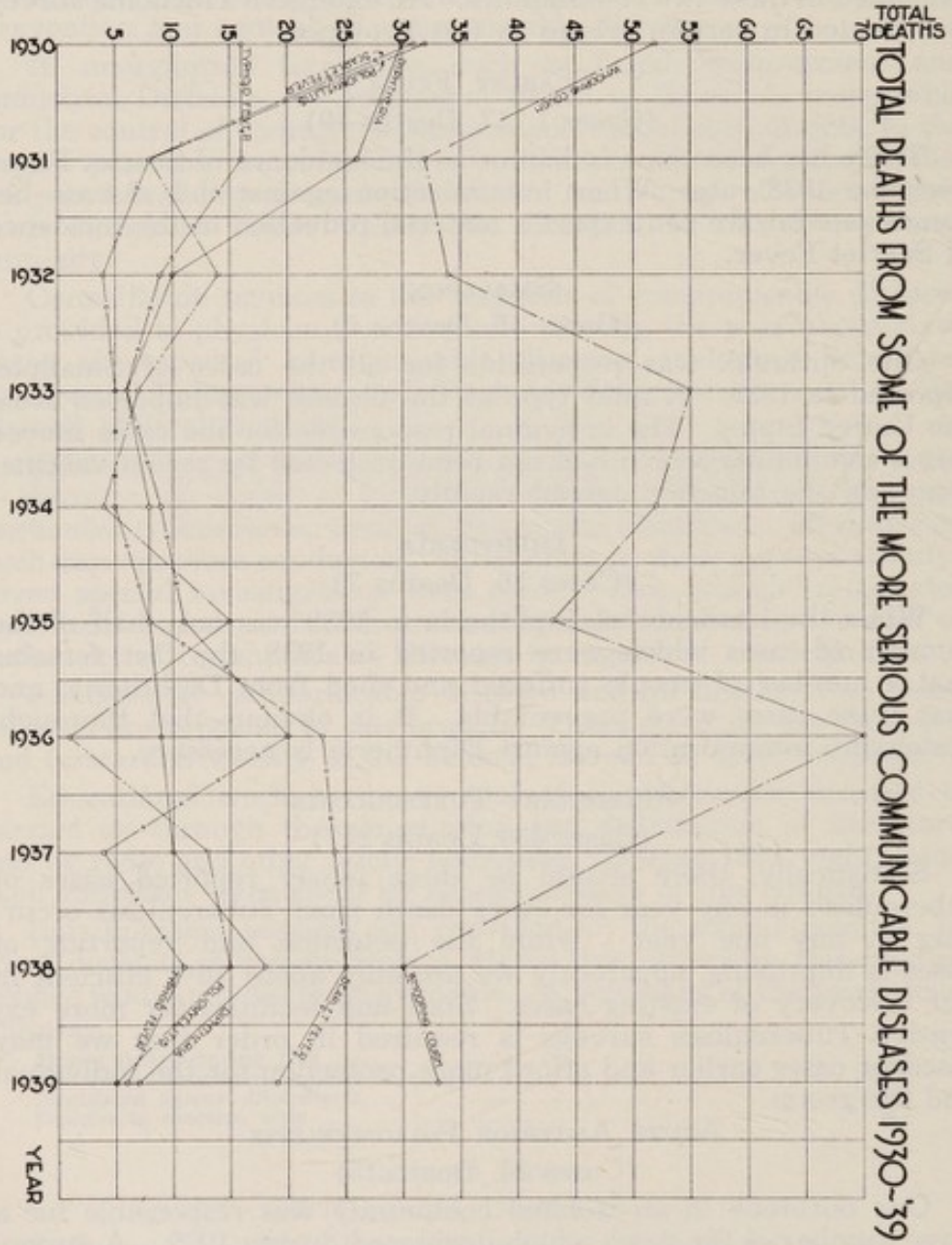


TABLE 1  
COMMUNICABLE DISEASES AS REPORTED FOR 1938 AND 1939

	1938	1939
Actinomycosis .....	1	0
Acute Anterior Poliomyelitis .....	105	24
Chickenpox .....	2,145	2,158
Diphtheria .....	74	36
Encephalitis Lethargica .....	1	1
Erysipelas .....	44	48
Infectious Mononucleosis .....	.....	.....
Measles .....	1,550	5,382
Meningococcic Meningitis .....	10	3
Mumps .....	6,675	494
Paratyphoid Fever .....	8	2
Typhoid Fever .....	77	44
Pulmonary Tuberculosis .....	89	450
Rubella .....	137	69
Scarlet Fever .....	1,452	1,113
Smallpox .....	34	45
Trachoma .....	.....	13
Uduulant .....	4	2
Whooping Cough .....	310	2,080

TABLE 2  
TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE  
OF ALBERTA FOR 1938 AND 1939

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

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
Pneumonia (all forms) .....	94	51	36	38
Influenza (all forms) .....	22	19	12	20
Pulmonary Tuberculosis .....	40	32	12	6
Tuberculosis (all other forms) .....	23	11	7	5
Diphtheria .....	6	1	.....	1
Whooping Cough .....	1	4	.....	1
Acute Anterior Poliomyelitis .....	3	1	4	.....
Meningococcic Meningitis .....	1	1	.....	1
Typhoid Fever .....	3	2	1	1
Paratyphoid Fever .....	.....	.....	.....	.....
Erysipelas .....	.....	1	2	1
Scarlet Fever .....	7	2	2	2
Encephalitis Lethargica .....	4	2	2	2
Measles .....	.....	.....	.....	1
Smallpox .....	.....	.....	.....	.....
Actinomycosis .....	2	.....	.....	.....



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 Cough .....	26	28
Acute Anterior Poliomyelitis .....	8	4
Meningococcic Meningitis .....	3	5
Erysipelas .....	5	.....
Typhoid Fever .....	7	4
Paratyphoid Fever .....	1	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
Tuberculosis (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)

	Total Cases	Total Deaths	Morbidity Rate	Mortality Rate	Case Fatality
Acute Anterior Poliomyelitis .....	24	5	3.0	0.6	20.8
Cerebro-Spinal Meningitis .....	3	7	N.R.	0.9	.....
Chickenpox .....	2,158	0	273.7	.....	.....
Diphtheria .....	36	7	4.5	0.9	19.4
Encephalitis Lethargica .....	N.R.	8	.....	1.0	.....
Erysipelas .....	48	2	6.1	0.3	4.2
Influenza (all forms) .....	N.R.	216	.....	27.3	.....
Mumps .....	494	.....	62.6	.....	.....
Measles .....	5,382	6	682.1	0.7	0.1
*Pulmonary Tuberculosis .....	450	217	N.R.	27.5	.....
†Pulmonary Tuberculosis, Indians Excepted .....	N.R.	91	.....	12.0	.....
Pneumonia (all forms) .....	N.R.	362	.....	45.8	.....
Smallpox .....	45	.....	5.7	.....	.....
Scarlet Fever .....	1,113	19	141	2.4	1.6
Typhoid Fever .....	44	6	5.6	0.7	13.6
Paratyphoid Fever .....	2	1	.....	0.1	50.0
Whooping Cough .....	2,080	33	263.6	4.2	1.6
Rubella .....	69	.....	8.7	.....	.....

\*See narrative report "Tuberculosis".

†Indian population—Treaty and otherwise estimated at 29,000.

N.R.—Not reported satisfactorily.

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

## DIPHTHERIA

Year	Population	Total Cases	Total Deaths	Morbidity Rate	Mortality Rate
1930	660,000	269	30	40	4.5
1931	731,605	151	26	20	3.5
1932	740,000	51	10	6.89	1.35
1933	757,000	32	6	4.23	.79
1934	769,000	31	8	4.00	1.00
1935	770,000	28	8	4.00	1.00
1936	772,782	47	9	6.00	1.00
1937	778,000	30	10	3.86	1.28
1938	783,000	74	18	9.4	2.3
1939	789,000	36	7	4.5	0.9

## TYPHOID FEVER

1930	660,000	69	16	10	2.4
1931	731,605	42	16	5	2
1932	740,000	52	9	7	1.21
1933	757,000	46	6	6	.79
1934	769,000	57	7	7.4	0.9
1935	770,000	55	11	7	1.0
1936	772,782	111	20	14.4	2.0
1937	778,000	34	4	4.37	0.51
1938	783,000	77	11	9.8	1.4
1939	789,000	44	6	5.6	0.7

## ACUTE ANTERIOR POLIOMYELITIS

1930	660,000	150	32	22.7	4.8
1931	731,605	23	8	3.2	1.1
1932	740,000	39	14	5.2	1.8
1933	757,000	31	7	4.1	0.9
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	1.67
1938	783,000	105	15	13.4	1.9
1939	789,000	24	5	3.0	0.6

## WHOOPIING 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	88.6	4.5
1933	757,000	1,830	55	241.7	7.2
1934	769,000	1,290	52	167.5	6.7
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	39.6	3.8
1939	789,000	2,080	33	263.6	4.2

## SCARLET FEVER

1930	660,000	1,028	31	155.8	4.7
1931	731,605	438	8	60.0	1.1
1932	740,000	202	4	26.9	0.5
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	1.0
1936	772,782	2,729	23	353.0	3.0
1937	778,000	2,123	24	272.9	3.08
1938	783,000	1,452	25	185.0	3.2
1939	789,000	1,113	19	141.0	2.4

## SMALLPOX

1930	660,000	81	.....	12.3	.....
1931	731,605	27	1	3.7	0.1
1932	740,000	1	.....	0.1	.....
1933	757,000	1	.....	0.1	.....
1934	769,000	4	1	0.5	0.1
1935	770,000	4	.....	0.5	.....
1936	772,782	56	1	7.0	0.1
1937	778,000	57	1	7.3	0.1
1938	783,000	34	.....	4.3	.....
1939	789,000	45	.....	5.7	.....

CLASS OF COMMUNICABLE DISEASES REPORTED IN 1939  
SCARLET FEVER

1937	Sex		MONTHS												AGES						TOTAL		
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59		60-over	Not Stated
			152	148	22	7	5	14	14	32	15	20	24	40	41	66	59	206	19	14		2	
Cities:																							
Calgary	3	5	2	4	1	1	1	8	7	11	14	15	22	37	1	5	1	1	1	1	1	1	8
Drumheller	149	162	34	59	54	23	27	1	1	1	1	5	3	3	52	121	96	33	9	9	9	9	311
Edmonton	4	8	1	1	1	1	1	1	1	1	1	1	1	1	3	6	1	2	2	2	2	2	12
Lethbridge	2	3	1	3	1	1	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	4
Medicine Hat	44	67	8	14	20	7	4	5	6	3	5	11	9	19	15	60	25	10	10	10	10	1	111
Wetaskiwin	170	193	74	68	69	23	18	11	7	7	15	13	25	33	56	207	54	23	3	3	3	19	363
Towns and Villages																							
Rural Districts																							
Totals	525	588	141	155	151	69	63	57	35	42	58	79	102	161	1	190	608	196	84	14	20	20	1113

CHICKENPOX

1937	Sex		MONTHS												AGES						TOTAL		
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59		60-over	Not Stated
			243	220	55	57	27	17	36	52	11	19	24	38	74	53	3	36	401	15		8	
Cities:																							
Calgary	1	3	2	4	1	1	1	7	34	21	25	34	77	99	16	184	368	26	13	1	1	1	608
Drumheller	25	21	19	3	4	1	1	1	1	2	4	12	66	24	1	7	33	2	2	2	2	2	46
Edmonton	60	55	4	4	2	2	2	1	27	2	4	12	66	24	1	12	94	5	3	3	3	3	115
Lethbridge	54	47	8	8	2	13	13	48	27	2	2	1	1	1	1	19	76	3	1	1	1	1	101
Medicine Hat	24	33	3	1	1	1	1	2	8	3	7	10	5	17	1	14	40	2	2	2	2	2	57
Red Deer	207	190	36	11	9	10	5	6	10	1	26	144	106	33	7	37	311	24	10	10	10	8	397
Wetaskiwin	176	191	54	70	25	19	7	42	17	7	30	36	22	38	10	35	275	26	9	1	11	11	367
Towns and Villages																							
Rural Districts																							
Totals	1089	1069	324	194	112	78	89	184	108	55	117	277	350	270	39	344	1601	103	47	2	1	21	2158

ACUTE ANTERIOR POLIOMYELITIS

1937	Sex		MONTHS												AGES						TOTAL		
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59		60-over	Not Stated
			1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <th>1<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td> </th>														1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>						
Cities:																							
Edmonton	1									1	1												1
Lethbridge	1																						1
Medicine Hat	2																						1
Wetaskiwin	4	5																					2
Towns and Villages	3	7																					9
Rural Districts																							10
Totals	12	12	3	4	2	2	2	1	3	5	2	2	2	2	2	4	12	4	2	2	2	21	24



DIPHTHERIA

1938	Sex		MONTHS												AGES						TOTAL			
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59		60-over	Not Stated	
			1	2	1	1	1	1	1	2	1	2	1	1	1	2	4	1	2	1		1		1
Cities:																								
Calgary	6	1	1	1	1	1	1	1	2	2	2	1	1	1	2	1	4	1	1	1	1	1	1	7
Edmonton	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
Lethbridge	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Medicine Hat	3	3	1	1	1	1	1	2	1	1	1	2	1	1	1	2	3	1	1	1	1	1	1	1
Towns and Villages	12	6	2	3	3	3	3	3	3	3	3	6	1	6	1	3	12	1	1	1	1	1	1	6
Rural Districts	18	18	3	3	2	2	2	2	4	4	5	7	4	4	4	7	22	3	3	3	3	1	1	18
Totals	18	18	3	3	2	2	2	2	4	4	5	7	4	4	4	7	22	3	3	3	3	1	1	36

MEASLES

1938	Sex		MONTHS												AGES						TOTAL			
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59		60-over	Not Stated	
			12	8	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		17		17
Cities:																								
Calgary	12	5	3	3	2	1	1	1	4	4	2	1	1	1	3	6	5	3	3	2	1	1	1	17
Edmonton	8	12	3	3	3	1	1	1	6	6	2	1	1	1	4	5	2	4	4	2	1	1	1	20
Lethbridge	67	63	2	14	33	39	35	4	3	3	1	1	1	1	4	21	88	12	4	3	2	1	1	130
Medicine Hat	17	17	2	2	2	2	1	26	3	3	1	1	1	1	1	9	23	1	1	1	1	1	1	34
Red Deer	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Wetaskiwin	3	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	4
Towns and Villages	35	25	1	2	2	2	15	24	4	4	2	2	4	6	4	4	46	5	3	2	2	2	2	60
Rural Districts	64	51	6	20	23	11	10	3	4	4	2	2	1	5	17	78	11	2	2	2	2	2	2	115
Totals	208	174	16	40	63	55	61	62	21	21	6	3	8	11	18	64	245	35	13	2	2	5	5	382

MUMPS

1938	Sex		MONTHS												AGES						TOTAL			
	Male	Female	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59		60-over	Not Stated	
			121	87	47	23	55	41	31	5	2	2	2	1	1	1	7	190	8	3		3 <td>2</td> <td>1</td> <td>1</td> <td>208</td>		2
Cities:																								
Calgary	121	87	47	23	55	41	31	5	2	2	2	1	1	1	7	190	8	3	3	2	1	1	1	208
Edmonton	67	51	18	21	22	11	3	7	8	3	3	4	4	10	12	68	28	6	6	2	1	1	1	118
Lethbridge	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wetaskiwin	5	1	2	1	2	1	1	1	1	1	1	1	1	1	1	5	5	1	1	1	1	1	1	6
Towns and Villages	19	9	6	4	2	1	6	2	2	2	4	3	2	2	1	16	8	2	2	2	1	1	1	28
Rural Districts	87	46	41	23	37	11	3	3	4	4	4	4	3	2	2	68	29	3	3	3	3	20	20	133
Totals	300	194	114	72	118	65	43	17	14	5	13	14	6	13	2	29	347	73	15	5	1	22	22	494



SEPTIC THROAT

1938	Sex		MONTHS												AGES						TOTAL		
	Male	Female	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59		60-over	Not Stated
			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	
Lethbridge	1	1								1							1						1
Wembley	1																						1
Totals	1	1								1							1						2

TRACHOMA

St. Albert Indian Residential School	1																						1
M.D. No. 37, Milford Hutterite Colony	10	2																					12
Totals	10	3																					13

UNDULANT FEVER

Calgary	1																						1
Delburne	1																						1
Totals	1	1																					2

PNEUMONIA

Edmonton	4	2																					6
Towns and Villages	1																						1
Rural Districts	4	2																					6
Totals	9	4																					13

PULMONARY TUBERCULOSIS

Calgary	32	34	7	8	6	6	5	5	10	2	6	2	3	6	2	4	17	33	7	3				66
Drumheller	6	7	5	2	4	4	4	4	4	4	12	8	3	6	6	1	2	7	1	1				13
Edmonton	29	39	5	6	6	8	6	6	3	12	8	2	6	6	2	4	16	39	4	2				68
Lethbridge	4	4	1	1	3	1	1	1	1	1	1	2	2	2	2	4	4	3	1	1				8
Medicine Hat	4	14	1	1	3	1	1	1	1	1	1	1	4	3	1	2	9	1	6	1				18
Red Deer	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				3
Wetaskiwin	5	5	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	3	2	1				10
Towns and Villages	62	85	7	13	6	14	17	11	28	12	10	10	9	10	6	20	38	52	28	2				147
Rural Districts	51	66	6	5	12	10	20	8	20	12	4	6	5	9	1	11	33	44	12	5				117
Totals	194	256	27	29	36	40	57	34	67	38	31	28	32	31	1	14	43	122	182	62				450

## 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:	
Catholic .....	36
Protestant .....	5
Municipals Hospitals .....	24
(Approved under The Municipal Hospitals Act)	
Hospitals supported or assisted municipally .....	15
Community (organized under special acts) .....	7
Industrially supported .....	4
Private, operated by Physicians .....	2
	<hr/>
	93

## PRIVATE HOSPITALS

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 .....	10
Medical, minor surgical, obstetrical .....	3
Chronic and convalescent .....	11
	<hr/>
	50

## 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 post-graduate 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 anaesthetist. 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:

	Approved Hospitals Exclusive of Municipal	Municipal Hospitals	Private Hospitals		Approved Hospitals Exclusive of Municipal	Municipal Hospitals	Private Hospitals
GENERAL:				Circumcision	378	87	9
Abscess	661	157	6	Colopexy	.....	.....	.....
Adenectomy	31	3	.....	Colostomy	39	3	.....
Adhesions	166	13	1	Craniotomy	19	.....	.....
Albees' Operation	.....	.....	.....	Curetting	61	7	.....
Amputation	333	74	1	Cyst	376	56	.....
Anus	8	.....	.....	Cystectomy	11	4	.....
Appendectomy	5136	1306	37	Cystoscopy	583	25	.....
Arthroclasis	.....	.....	.....	Cystotomy	131	7	.....
Arthrodesis	25	.....	.....	Decompresia	6	2	.....
Arthroplasty	.....	.....	.....	Dilatation	102	5	1
Aspiration	234	51	3	Dislocation	103	30	1
Bladder	11	.....	.....	Enterectomy	4	.....	.....
Bone Graft	14	1	.....	Epididymotomy	10	.....	.....
Bone Plating	5	3	.....	Evulsion Nail	89	44	.....
Bowel	27	8	.....	Examination	140	17	.....
Bronchoscopy	20	.....	.....	Excision	238	37	8
Bunionectomy	26	6	.....	Extraction Teeth	561	155	6
Burns	9	4	.....	Fasciotomy	14	1	.....
Cancer	225	21	.....	Fistula	53	8	.....
Carbuncle	43	6	.....	Foreign Body	88	11	.....
Cauterization	29	1	.....	Fracture	934	249	.....
Cecopexy	23	.....	.....	Fulguration	37	5	.....
Cholecystectomy	444	68	.....	Gastrectomy	20	2	.....

	Approved Hospitals Exclusive of Municipal	Municipal Hospitals	Private Hospitals		Approved Hospitals Exclusive of Municipal	Municipal Hospitals	Private Hospitals
Gastroenterostomy	87	8	1	Plastic	54	3	
Gastrostomy	8	1		Pneumothorax	6		
Hammer Toe	9	1		Proctoscopy	52	7	
Hare Lip	19	4		Prostatectomy	213	7	
Memorrhoidectomy	358	58		Puncture	46	37	
Herniotomy	950	163	14	Pyloroplasty	6		
Hydrocele	63	14		Removal	311	31	1
Illeocolostomy	4			Repair	425	115	1
Incision	283	83		Resection	190	26	
Injection	382	27		Sequestrectomy	32	3	
Jejunostomy	16	3		Skin Graft	70	13	
Laminectomy	16			Splenectomy	5		
Lapartomy	208	95		Suturing	503	114	
Ligation	175	20		Sympathectomy	1		
Lithotomy	49	7		Synovectomy	2		
Lobectomy	9			Tenoplasty	17		
Manipulation	292	46		Tenotomy	10	1	
Nephrectomy	135	6		Thoracotomy	5		
Nephrotomy	9	1		Thyroidectomy	331	24	
Neurectomy	11			Transfusion	2272	27	
Orchidectomy	25	9		Tumor	303	47	2
Osteoplasty	6			T.B.	27	2	
Osteotomy	47	3		Urethrotomy	13		
Paralysis	1			Variocele	18	3	
Phlebectomy	22	6		Vasectomy	63	4	
Plaster Cast	540	62		Wounds	117	39	
<b>OBSTETRICS:</b>							
Abortion	65	7		Induction Labor	1	28	
Adhesions	18			Insertion Radium	100		
Cervix	244	66		Oophorectomy	169	16	
Caesarean Section	105	6	1	Ovariectomy	8	3	1
Cauterization	53	13		Panhysterectomy	6		
Colporrhaphy	104	6		Perineorrhaphy	216	14	1
Colpotomy	4			Salpingectomy	288	27	
Curetage	1180	177	12	Salpingo-Oophorectomy	63	5	
Dilatation	597	79		Sterilization	45	8	
Examination	90	35		Trachelorrhaphy	23	3	
Hysterectomy	284	31		Uterus	398	46	1
<b>EYE, EAR, NOSE AND THROAT:</b>							
Abscess	2			Mastoidectomy	93	13	
Adenoidectomy	47	12	1	Myringotomy	24		
Antrum	38	3		Otitis Media	51	4	
Caratart	104		1	Plastic Eye	9		
Cautery	37			Polypi	97	9	1
Cyclodialysis				Pterygium	15	3	
Dacryocystectomy	4			Sclerotomy	1		
Dilatation	4			Sinus	43	1	
Enucleation Eye	53	4		Submucous Resection	72	2	1
Esophagoscopy	7			Suturing	5	2	
Ethmoidectomy	2			Synectomy	1		
Examination	13	1		Tenotomy	2		
Excision	2			Tonsillectomy	3696	992	75
Foreign Body	40	7		Turbinectomy	27		1
Glaucoma	7			Tracheotomy	5		
Iridectomy	39			Tonsils and Adenoids	3988	897	57
Laryngoscopy	2						
Total number of operations in hospitals					39,243		

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

Tonsils and Adenoids	723
Circumcisions	15
Strippings	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.

TABLE No. 1

## WORK PERFORMED IN THE PROVINCIAL LABORATORY DURING THE YEAR 1939

	Total 1938	Total 1939	Increase	Decrease
Sputum .....	858	829	.....	29
Diphtheria .....	2,226	2,045	.....	181
Typhoid Fever .....	627	448	.....	179
Milks .....	1,309	1,455	146	.....
Waters .....	2,060	1,912	.....	148
Miscellaneous Examinations .....	3,504	3,512	8	.....
Mothers' Milk .....	1	1	.....	.....
Urinalysis .....	112	127	15	.....
Medico-Legal Examinations (Blood, seminal, etc.) .....	25	8	.....	17
Bloods for the Wassermann Test .....	30,530	31,444	914	.....
Smears for the Gonococcus .....	4,877	5,245	368	.....
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
Chicken Blood Examinations .....	48,265	15,863	.....	32,402
Cattle Blood Examinations .....	2,384	2,209	.....	175
Typhoid Vaccine:				
25 c.c. quantity .....	390	294	.....	96
10 c.c. quantity .....	.....	164	164	.....
Autogenous Vaccine (25 c.c. quantity) .....	25	18	.....	7
Stock Vaccine (25 c.c. quantity) .....	.....	18	18	.....
B.C.G. Vaccine (10 c.c. quantity) .....	283	76	.....	207
Poliomyelitis Convalescent Serum (20 c.c.) .....	315	50	.....	265
Horse Vaccine (1 c.c. quantity) .....	17,959	.....	.....	17,959
Fox Vaccine (10 c.c. quantity) .....	300	893	593	.....
	132,957	82,686	2,426	52,697

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 .....	9,750 c.c.	8,990 c.c.
Autogenous Vaccine .....	625 c.c.	450 c.c.
Stock Vaccine .....		450 c.c.
B.C.G. Vaccine .....	2,830 c.c.	760 c.c.
Poliomyelitis Convalescent Serum .....	6,300 c.c.	1,000 c.c.
Horse Vaccine .....	17,959 c.c.	
Fox Vaccine .....	3,000 c.c.	8,930 c.c.
Total .....	40,464 c.c.	20,580 c.c.

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:

Diseases	No. of Specimens		No. of Post Offices	No. of Physicians	Month.	Sputum.	Diph.	Typhoid Fever.	Total.
	Posi-tives	Nega-tives							
Pulmonary Tuberculosts	79	750			Jan. ....	62	113	40	215
					Feb. ....	63	287	31	381
					Mar. ....	80	195	50	325
					April ....	81	101	29	211
					May ....	70	81	37	188
Diphtheria	53	1992			June ....	91	112	32	235
					July ....	94	157	36	287
Typhoid Fever	76	372			Aug. ....	59	517	37	613
					Sept. ....	41	78	33	152
					Oct. ....	65	121	39	225
					Nov. ....	75	186	48	309
					Dec. ....	48	97	36	181
Total .....			211	665		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 .....	16,823
Female Bloods examined .....	10,358

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

Male married .....	3,751
Male married positive .....	430
Male married negative .....	3,321
Male single .....	6,376
Male single positive .....	727
Male single negative .....	5,649
Female married .....	6,919
Female married positive .....	358
Female married negative .....	6,561
Female single .....	3,257
Female single positive .....	237
Female single negative .....	3,020

Bloods received from Calgary and South .....	6,541
Bloods received from North of Calgary .....	24,903
Number of Blood Examinations made in 1938 .....	30,530
Number of Blood Examinations made in 1939 .....	31,444
Increase in number of specimens examined .....	914
Increase in per cent. ....	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 chemically and found fit for human consumption .....	683	688
Number of samples of water examined bacteriologically and chemically and found unfit for 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 .....	24	15
Number of samples of ice examined bacteriologically and found 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:

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

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

	Pkgs.		Pkgs.
Smallpox Vaccine:		Scarlet Fever Toxin:	
10 points .....	3,848	30 persons "B" .....	32
2 points .....	205	30 persons "C" .....	13
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 units .....	217	Tetanus:	
Diphtheria Toxoid:		1,500 units .....	177
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 person, diluted .....	12	Pertussis: 1 person .....	1,441
Shick Test: 25 persons .....	423	Staphylococcus Toxoid: 2 c.c. Vial .....	381
Scarlet Fever Antitoxin:		Staphylococcus Antitoxin:	
6,000 units, Vial .....	347	10,000 units .....	11
6,000 units, Syringe .....	265	20,000 units .....	1
2,000 units, Syringe .....	1,020	Anti-Pneumococcus Serum:	
Scarlet Fever Toxin:		20,000 units .....	220
1 person .....	1,458	Gas Gangrene:	
6 persons .....	1,220	4,000 units .....	90
30 persons "A" .....	17	10,000 units .....	128

## 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:			
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
Stock Vaccine (25 c.c.) .....	18	5.00	90.00
B.C.G. Vaccine (10 c.c.) .....	76	3.00	228.00
Poliomyelitis Serum (20 c.c.) .....	50	2.50	125.00
Fox Vaccine (10 c.c.) .....	893	.50	446.50
<b>Total .....</b>			<b>\$211,683.29</b>

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 post-graduate 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. Sixty-seven 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 Child Welfare 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 .....	100
Number of babies in attendance .....	3,672
Number pre-school children .....	1,010
<hr/>	
Total attendance .....	4,682
Average attendance .....	47
Number weighing clinics (Wednesday afternoons) .....	48
Number of babies in attendance .....	635
Number of pre-school children in attendance .....	124
<hr/>	
Total attendance at weighing clinics .....	779
Average attendance .....	16
Total attendance at all clinics .....	5,461
Number of babies referred to family doctor .....	32
Number of pre-school children referred to family doctor .....	32
Deaths—Babies 5, pre-school children 4 .....	9
Number of home visits .....	2,653

## CALGARY

Number of clinics held (Dr. Roach) .....	103
Number of babies in attendance .....	2,564
Number of pre-school children in attendance .....	504
<hr/>	
Average attendance .....	3,068
Number of home visits .....	29.5
Nurses in attendance at clinic, 252 afternoons .....	2,947
Number of babies in attendance .....	3,050
Number of pre-school children in attendance .....	1,148
<hr/>	
Average attendance .....	4,198
Attending and speaking at meetings of outside organizations .....	17
Deaths—Babies 6, pre-school children 4 .....	4
Number of babies referred to family physician .....	10
Number pre-school children referred to family physician .....	19
Number pre-school children referred to family physician .....	66
<hr/>	
Number letters to out of town people .....	85
Inspections and interview—private hospitals and baby shelters .....	7
	122

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

	Pre-school		Pre-school	
	Babies.	school	Babies.	school
<b>Eyes:</b>				
Conjunctivitis .....	9	6	Rectal Fissure .....	1
Strabismus .....	1	3	Prolapse (Rectal) .....	1
Granulation of eyelids .....		1	<b>Congenital:</b>	
Sty .....		3	Club Feet .....	1
Infected Eyes .....	46	39	Harelip .....	1
<b>Ears:</b>			Mental Defective .....	3
Otitis Media .....	20	4	Mongolian Idiot .....	1
Silver in Ear .....		1	Flat Feet .....	1
Infected Ears .....	22	40	Congenital Hip Disease .....	1
<b>Throat:</b>			Congenital Malformation .....	2
Enlarged Glands .....	15	27	<b>Skin Diseases:</b>	
Enlarged Tonsils .....	10	353	Ammoniacal Dermatitis .....	3
Enlarged Adenoids .....	7	177	Burns .....	3
Tonsillitis .....	2	5	Dermatitis .....	2
Retro-Pharyngeal Abscess .....		1	Erythema .....	1
Other Conditions .....	1	6	Eczema .....	27
<b>Nose:</b>			Furunculosis .....	3
Epistaxis .....		1	Impetigo .....	20
Nasal Obstruction .....		2	Miliaria .....	3
Other Conditions .....		5	Nevus .....	3
<b>Mouth:</b>			Ringworm .....	4
Carious Teeth .....		661	Scabies .....	8
Thrush .....	10	1	Seborrhoea .....	1
Geographical Tongue .....		1	Urticaria .....	2
Tongue-tie .....	6		Shingles .....	1
Cleft Palate .....	3		Umbilical Granuloma .....	1
Other Conditions .....	2	6	Insect Bites .....	2
<b>Chest:</b>			Dog Bite .....	1
Colds .....	12	2	Abscesses .....	1
Flu .....		1	Intertrigo .....	15
Whooping Cough .....	10		Frost Bites .....	1
Chickenpox .....	1		Other Skin Conditions .....	19
Bronchitis .....	3	1	<b>Miscellaneous:</b>	
Pneumonia .....	1		Round Worms .....	1
Croup .....	1		Pin Worms .....	5
Pulmonary Disturbance .....		1	Infected Finger .....	4
<b>Digestive:</b>			Infected Toe .....	1
Intestinal Indigestion			Infected Penis .....	1
(Diarrhoea) .....	98	2	Mastitis .....	1
Malnutrition .....	16	79	Injury to Lip .....	1
Rickets .....	17	3	Scoliosis .....	1
Scurvy (both out of town			Fractured Forearm .....	1
cases) .....	2	1	Fractured Collarbone .....	1
Nutritional Anaemia .....	9	6	Convulsions .....	1
Stomatitis .....	12	6	Ulcers from Lye .....	1
Pyloric Stenosis .....	1		T.B. Suspects .....	2
Anorexia .....	1	8	Rheumatism .....	1
Celiac Disease .....		1	Rheumatic Fever .....	1
<b>Genito-Urinary:</b>			Lameness .....	1
Umbilical Hernia .....	113	13	Abrasion on Scalp .....	1
Inguinal Hernia .....	1	3	Paralysis .....	1
Infected Umbilicus .....	3		Appendicitis .....	1
Moist Umbilicus .....	3		Masturbation .....	1
Phimosis .....	136	33	Fallen Arches .....	1
Urethral Ulcer .....	3	1	Paralysis of Right Leg .....	1
Undescended Testicle .....	1	1	Eyes .....	9
Hydrocele .....	1	2	Nervous Disorders .....	3
Hypospadias .....	3	1	Orthopedic .....	12
Enuresis .....	1	7	Cardiac Disturbance .....	4
Ammoniacal Urine .....	4		Gonorrhoea .....	1
Rectal Abscess .....	1		Other Conditions .....	45

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:

## STATISTICAL REPORT

First inspection .....	3,821	With defective vision .....	402
Second inspection .....	246	With defective hearing .....	101
Classroom inspections .....	81	Requiring glasses .....	73
Number not vaccinated .....	731	With throat symptoms .....	510
Number with defects .....	2,023	With adenoid symptoms .....	136
Number vaccinations, Smallpox .....	539	With carious teeth .....	1,568
Diphtheria toxoid .....	1,063	With malnutrition .....	485
Scarlet fever sera .....	200	With faulty posture .....	43
Schoolroom talks .....	35	Glasses fitted .....	57
Home visits .....	412	Glasses refitted .....	19
Child Welfare Clinics .....	100	T. and A. operations .....	89
Attendance at clinics .....	1,035	Dental treatments .....	230
Interviews .....	134	Surgical and medical cases .....	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:

Number home visits .....	4,261	Number child welfare visits .....	291
Number office consultations .....	11,969	Number deaths (under 1 year) .....	18
Number dressings .....	2,459	Number deaths (over 1 year) .....	35
Number medical cases .....	5,697	Number cases sent to hospital .....	375
Number surgical cases .....	1,152	Visits to Indian Reserves .....	26
Number obstetrical cases .....	311	Number dental extractions .....	77
Number abortions .....	45	Number vaccinated .....	930
Number pre-natal visits .....	292	Number inoculated .....	1,577
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, Sunny-nook, 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:

## STATISTICAL REPORT

Number centres served .....	25	Number minor operations .....	10
Number children examined .....	4,034	Number referred to physician .....	289
Number recommended for T. & A. .....	1,325	Number prescribed for .....	236
Number recommended for circum- cision .....	37	Number referred to hospital .....	28
Number recommended for strip- pings .....	290	Number cardiac conditions .....	109
Number recommended for aden- oidectomy .....	2	Number anaesthetics .....	1,070
Number recommended for minor operation .....	18	Number anaesthetics for teeth only .....	259
Number T. & A. operations .....	723	Number thyroid cases .....	356
Number circumcisions .....	15	Number lung conditions .....	38
Number strippings .....	191	Number skin conditions .....	39
Number adenoidectomies .....	2	Number asthmatics .....	13
		Number rickets .....	3
		Number vaccinated .....	2,163
		Number Epileptics .....	2

## DENTIST'S REPORT (TRAVELLING CLINIC)

Number of children examined .....	4,097
Number recommended for treatment .....	1,709
Number of children given treatment .....	1,204
Number of fillings (number of teeth) .....	1,371
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:

1017 sets	"Pre-natal Letters"
3329 sets	"Post-natal Letters"
1613 sets	"Pre-school Letters"
407 sets	"School Age Letters"
335 sets	"In Between Years"
335 sets	"To Years of Discretion"

Total 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.

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.

TABLE No. 1

Hospitals	Bed Capacity		Bed Complement		Classification (Beds, Cribs)								Patients Under Care During Year				Total				
	Number		Number		Medicine and Surgery	Obstetrics	Children	Tuberculosis	Convalescent	Contagious Diseases	Incurables	Others	Bassinets	Adults and Children		Newborn		Total			
	Adult	Cribs	Adult	Cribs										M.	F.	M.		F.	M.	F.	
	Total	Total	Total	Total																	
Athabasca, Municipal	35	3	35	3	38	7	7	200	320	47	39	247	359	606							
Banff, Mineral Springs	64	2	64	2	64	6	4	209	188	15	7	224	195	419							
Barrhead, Barrhead	20	2	22	2	22	8	8	259	326	54	64	313	390	703							
Bassano, Municipal	28	2	30	2	28	8	2	171	310	49	48	220	358	578							
Bentley, Community	8	1	9	1	9	9	8	155	251	34	39	189	290	479							
Berwyn, Ratepayers' Association of Peace	11	1	12	2	15	4	5	118	140	18	21	136	161	297							
Bonnyville, K. H. Prettie	20	1	21	2	21	5	5	85	167	31	21	116	188	304							
Bonnyville, St. Louis	32	3	35	3	33	7	3	145	238	44	36	189	274	463							
Calgary, General	191	24	215	10	191	23	10	1,990	2,678	311	326	2,301	3,004	5,305							
Calgary, Isolation	72	17	89	17	89	36	27	151	161	151	161	302	302	312							
Calgary, Holy Cross	258	27	285	27	285	36	27	2,907	3,707	364	410	3,271	4,117	7,388							
Calgary, Junior Red Cross	29	21	50	21	46	31	33	50	60	50	60	110	110	110							
Calgary, Salvation Army Grace	33	33	33	33	33	11	11	415	625	154	172	154	527	681							
Camrose, St. Mary's	36	4	40	4	40	2	2	99	102	7	6	106	108	214							
Canmore, Canmore	11	1	12	1	12	8	2	57	953	88	77	645	1,030	1,675							
Cardston, Municipal	30	2	32	2	32	2	2	145	227	27	30	172	257	429							
Carbanga, Little Bow Municipal	16	7	23	7	16	16	16	136	217	27	24	163	241	404							
Castor, Our Lady of the Rosary	25	7	32	7	32	3	3	97	125	27	18	124	143	267							
Cereal, Esler	9	2	11	2	10	10	10	207	306	43	37	250	343	593							
Clareholm, Municipal	16	2	18	2	18	15	3	119	192	29	29	148	221	369							
Cold Lake, John Neil	23	3	26	3	26	6	6	196	163	192	29	196	163	359							
Coleman, Miners' Union	13	13	13	13	13	5	5	140	254	24	30	164	284	448							
Consort, Municipal	16	1	16	1	16	4	4	120	163	27	25	147	188	335							
Coronation, General	20	1	21	1	21	17	4	89	146	24	34	113	180	293							
Daysland, Providence	25	2	27	2	27	14	5	11	2	11	2	11	2	13							
Daysland (Incurables)	20	6	26	6	26	20	6	58	106	8	5	66	111	177							
Desmarais, St. Martin's	11	1	12	1	12	8	4	79	210	36	42	115	252	367							
Didsbury, General	69	5	74	5	74	57	10	15	1,209	1,245	128	117	1,337	1,362	2,699						
Drumheller, Municipal																					
Eckville, Medicine Valley Community			No Report																		
Edmonton, Beulah Rescue Home	38	37	75	37	75	6	33	17	158	64	69	64	227	291							
Edmonton General Hospital	218	12	230	12	230	100	130	1,264	1,169	102	117	1,264	1,169	2,433							
Edmonton General, T.B. Division								102	188			102	188	290							



TABLE No. 1—Continued

Hospitals	Bed Capacity		Bed Complement		Classification (Beds, Cribs)								Patients Under Care During Year						Total			
	Number		Number		Total	Medicine and Surgery	Obstetrics	Children	Tuberculosis	Convalescent	Contagious Diseases	Incurables	Others	Bassnets	Adults and Children		Newborn			Total		
	Adult	Cribs	Total	Cribs											Adult	M.	F.	M.		F.	M.	F.
Edmonton, Misericordia	195	10	205	178	10	188	153	35	60					33	1,713	2,951	416	378	2,129	3,329	5,458	
Edmonton, Royal Alexandra	320	60	380	320	60	380	285	55	60					55	4,136	5,700	733	736	4,869	6,436	11,305	
Edmonton, Isolation	82	20	102	82	20	102				65					321	331	321	321	321	331	652	
Edmonton, Isolation, T.B. Division	85	5	90	75	5	80	50		5						27	33	27	5	164	146	310	
Edmonton, St. Joseph's	321	14	335	321	14	335	166	17	52					17	2,038	2,265	282	226	2,320	2,491	4,811	
Edmonton, University, Civilian															865				856		856	
University, S.C.R.															77	51			77	51	128	
University, Orthopaedic															35				35		35	
University, T.B. Division															20				20		20	
Edson, St. John's	30	3	33	29	3	32	26	5			1				288	275	41	37	329	312	641	
Elk Point, Municipal	26	1	27	32	4	36	26	10						10	466	620	48	69	514	689	1,203	
Empress, Cottage	20	20	20	20	20	20	13	2			5			5	232	238	23	27	255	265	520	
Valrview, Community	21	3	24	12	1	13	12							5	72	127	23	27	95	154	249	
Fort McMurray, St. Gabriel's	17	2	19	14	2	16	13	2			1			2	75	78	9	8	84	86	170	
Fort Smith, General			No Report																			
Fort Vermilion, St. Theresa	10	2	12	10	2	12	7	2	2		1			2	50	64	5	11	55	75	130	
Galahad, St. Joseph's	20	4	24	19	3	22	17	5						4	200	303	27	32	227	335	562	
Grande Prairie, Municipal	46	4	50	46	4	50	35	10	4		1			16	389	576	127	98	516	674	1,190	
Grimshaw, Battle River			No Report																			
Hanna, Municipal	46	4	50	46	4	50	39	9			2			9	331	405	49	42	380	447	827	
Hardisty, St. Anne's	16	4	20	16	4	20	15	5						6	202	325	43	28	245	353	598	
High Prairie, Providence	26	5	31	26	5	31	22	4	5					4	338	297	35	29	373	326	699	
High River, Municipal	38	11	49	38	4	42	27	11	4					7	440	759	85	68	525	827	1,352	
Innisfail, Municipal	36	3	39	36	3	39	27	9	3					8	309	478	105	60	405	538	943	
Islay, Municipal	17	2	19	17	2	19	15	4						4	98	138	27	17	125	155	280	
Jasper, Seton	14	1	14	14		14	11	3						3	148	73	10	12	158	85	243	
Killam, General	13	1	14	13	1	14	8	5	1					3	108	169	37	29	145	198	343	
Lacombe & District Community	33	3	36	33	3	36	27	4	3		2			7	342	563	84	70	426	633	1,059	
Lac La Biche, St. Catherine's	40	5	45	23	2	25	15	8			2			8	127	184	19	29	146	213	359	
Lamont, Public	64	8	72	64	8	72	51	8	8					8	832	1,181	101	84	933	1,265	2,198	
Lethbridge, Galt	87	8	95	87	8	95	77	10	8					17	1,163	1,882	222	146	1,385	2,028	3,413	
Lethbridge, Isolation	14	14	14	14		14	14				14											28
Lethbridge, St. Michael's	102	15	117	102	12	114	84	26	4		4			21	1,300	1,709	166	157	1,465	1,866	3,332	
Lloydminster, Municipal	57	4	61	57	4	61	40	11	4		2			14	636	981	110	87	746	1,068	1,814	

Macleod, General	49	2	51	49	2	51	12	7	6	184	250	23	31	207	281	488					
Macleod General (Incurables)	18	4	22	18	4	22	15	7	4	166	224	30	27	196	251	29					
Mannville, Municipal	110	10	No Report	No Report	10	120	83	23	22	867	1,303	174	171	1,041	1,474	2,515					
Marwayne, Nursing Home	12	2	14	12	2	14	6	6	6	214	282	35	33	249	4	5					
Medicine Hat, General	22	2	24	22	2	24	12	6	5	170	256	34	36	204	315	564					
Medicine Hat, Isolation	29	3	32	29	3	32	19	6	5	222	300	40	29	262	329	496					
Mundare, General	20	5	25	18	1	19	14	5	5	222	300	40	29	262	329	591					
McLennan, Sacred Heart	12	1	13	12	1	13	10	2	1	87	61	6	4	93	65	158					
Myrnam, Municipal	10	3	10	10	3	10	6	4	4	107	232	41	32	148	264	412					
Nanton, General	27	3	30	27	3	30	22	5	3	170	234	25	29	195	263	458					
Nordeg, General	22	2	24	22	2	24	21	3	5	152	274	44	31	196	305	501					
Peace River, Municipal	24	2	26	24	2	26	21	5	8	181	270	33	43	214	313	527					
Pincher Creek, St. Vincent	20	7	27	20	7	27	15	4	7	320	587	66	47	386	634	1,020					
Probst, Municipal	33	1	34	33	1	34	30	11	9	286	473	62	72	348	545	893					
Radway, St. Joseph's	20	3	23	20	3	23	14	6	6	200	268	38	44	288	312	550					
Red Deer, Municipal	20	3	23	20	3	23	14	6	4	167	209	34	30	201	239	440					
Rimby, St. Paul's	9	1	10	9	1	10	4	4	4	167	209	34	30	201	239	440					
Rocky Mountain House	12	2	14	12	2	14	9	5	6	86	157	25	17	111	174	285					
Smoky Lake, George McDougall	39	6	45	39	6	45	25	6	6	400	482	74	83	474	565	1,039					
Spirit River, Community	32	2	34	32	2	34	28	6	10	414	578	75	59	489	637	1,126					
St. Paul, St. Theresa	19	2	21	18	2	20	14	6	6	109	144	29	22	138	166	304					
Stettler, Municipal	68	10	78	68	10	78	63	12	12	903	1,361	124	121	1,027	1,482	2,509					
Trochu, St. Mary's	26	2	28	26	2	28	20	8	8	285	473	81	62	366	535	901					
Vegreville, General	22	2	24	22	2	24	18	6	6	176	330	45	40	221	370	591					
Vermilion, Municipal	15	3	18	15	3	18	14	4	4	91	175	20	23	111	198	309					
Viking, Municipal	25	2	27	25	2	27	20	3	2	186	260	20	26	206	286	492					
Vilna, Our Lady's	21	2	23	21	2	23	19	4	4	290	318	29	39	319	357	676					
Vulcan, Municipal	23	2	25	23	2	25	20	3	3	319	216	28	17	347	233	580					
Wainwright, Municipal	30	2	32	27	2	29	23	4	6	316	354	55	27	371	381	752					
Wayne, General	35	5	40	35	5	40	25	7	9	494	739	112	114	606	853	1,459					
Westlock, Immaculata	23	5	28	21	3	24	18	6	6	213	348	35	34	248	382	630					
Westkiwin, Community																					
Willingdon, General																					
Total	4,020	483	4,503	3,938	452	4,390	2,814	640	297	210	255	65	109	695	36,780	49,521	6,046	5,675	42,826	55,196	†98,050

\*Orthopaedic.

†28 beds included for Lethbridge Isolation, but not shown in other columns for patients under care.

Less Isolation, St. Joseph's, T. B. Divisions, and Junior Red Cross ..... 2,828

95,222

TABLE No. 2

Hospitals	Deaths Within 48 Hours				Stillbirths	Patient Days				Aver. Stay of Patients Discharged and Died			Aver. No. Patients in Hospital Daily		
	Adults and Children		Newborn			Total		Total for Patients Discharged and Died		Adults and Children	Newborn	Total			
	M.	F.	M.	F.		M.	F.	Adults and Children	Newborn					Total	
Athabasca, Municipal	1	2	1	1	6	5,155	930	6,085	5,089	919	6,008	9.8	11.0	10.1	16.7
Banff, Mineral Springs	2	1	1	1	2	10,438	254	10,692	8,437	254	8,691	22.5	11.5	21.9	29.3
Barrhead, Barrhead	4	2	2	2	2	7,218	1,294	9,512	6,800	1,198	7,998	12.0	10.6	11.4	23.3
Bassano Municipal	4	1	1	1	1	4,541	889	5,430	4,097	885	4,982	8.7	9.2	8.9	14.9
Bentley, Community	1	1	1	1	1	2,049	635	2,684	2,035	633	2,668	5.0	8.8	6.0	7.4
Berwyn, Ratepayers' Association of Peace	2	2	2	2	2	2,195	275	2,470	2,176	255	2,431	8.6	7.1	8.4	6.8
Bonnyville, K. H. Frittie	2	1	2	2	2	2,334	618	2,952	2,278	601	2,879	9.3	12.0	9.8	8.1
Bonnyville, St. Louis	1	2	2	3	2	3,949	763	4,712	3,942	758	4,700	10.2	9.5	10.1	12.9
Calgary, General	Not given	18	2	1	18	64,374	7,138	71,512	63,049	6,513	69,562	13.8	10.3	13.4	195.9
Calgary, Isolation	2	1	2	2	2	7,708	7,708	7,708	6,778	26.5	6,778	26.5	11.0	26.5	21.1
Calgary, Holy Cross	71	31	4	5	16	75,466	8,319	83,785	70,225	8,213	78,438	11.0	11.0	11.0	229.5
Calgary, Junior Red Cross	12,929	11,844	12,929	11,844	11,844	12,929	11,844	12,929	11,844	11,844	11,844	160.0	160.0	160.0	35.4
Calgary, Salvation Army Grace	8	2	3	2	9	4,019	3,967	7,986	3,990	3,926	7,916	11.0	12.0	11.1	21.9
Canmore, St. Mary's	3	3	1	8	1	7,825	1,837	9,662	7,649	1,819	9,468	7.5	9.0	7.9	26.5
Canmore, Canmore	3	3	3	3	2	1,910	156	2,066	1,885	156	2,041	9.4	12.0	9.6	5.7
Cardston, Municipal	4	2	4	2	2	8,799	1,580	10,379	8,732	1,575	9,635	5.9	9.5	6.0	28.4
Carmanagay, Little Bow Municipal	2	2	4	4	2	3,697	471	4,168	3,697	471	4,168	10.2	8.4	9.9	11.4
Castor, Our Lady of the Rosary	2	2	2	2	1	2,859	518	3,377	2,798	516	3,314	7.9	10.0	8.2	9.3
Cereal, Esler	2	1	1	1	2	1,652	500	2,152	1,641	499	2,140	7.5	11.3	8.2	5.9
Clareholm, Municipal	2	1	1	1	2	4,068	850	4,918	3,962	845	4,897	7.8	10.7	8.6	13.5
Cold Lake, John Neil	1	1	1	1	1	3,686	686	4,372	3,559	676	4,235	12.5	12.6	12.5	11.9
Coleman, Miners' Union	2	2	2	2	2	3,032	594	3,626	2,953	592	3,545	8.5	8.5	8.5	8.3
Consort, Municipal	2	1	1	1	2	3,995	594	4,589	3,432	592	4,024	8.8	11.0	9.0	12.6
Coronation, General	1	1	1	1	2	2,918	555	3,473	2,867	555	3,422	11.0	10.5	10.3	9.5
Daysland, Providence	1	1	1	1	2	3,492	352	3,844	3,441	352	3,774	14.8	6.0	13.1	10.5
Daysland (Incurables)	3,800	807	3,800	807	807	3,800	807	3,800	807	807	807	345.5	345.5	345.5	10.4
Desmarais, St. Martin's	2	2	2	2	1	1,695	158	1,853	1,548	145	1,693	9.5	11.2	10.5	5.1
Didsbury, General	2	2	2	2	6	2,396	672	3,068	2,323	659	2,982	8.3	8.6	8.4	8.4
Drumheller, Municipal	8	3	1	8	6	24,904	2,698	27,602	24,191	2,650	26,841	10.0	10.9	10.1	75.6
Eckville, Medicine Valley Community	6	3	1	6	1	2,395	2,235	4,630	2,395	2,235	4,630	21.0	21.0	21.0	12.7
Edmonton, Beulah Rescue Home	17	13	9	4	26	44,104	7,785	51,889	33,242	7,615	33,242	197.0	197.0	197.0	65.5
Edmonton General Hospital	41	27	41	27	30	116,762	17,416	134,178	113,059	17,001	130,060	10.6	12.2	11.8	367.6
Edmonton, T.B. Division	4	2	4	4	2	13,031	13,031	13,031	11,697	11,697	11,697	21.8	21.8	21.8	35.7
Edmonton, Misericordia	17	13	9	4	26	44,104	7,785	51,889	33,242	7,615	33,242	197.0	197.0	197.0	65.5
Edmonton, Royal Alexandra	41	27	41	27	30	116,762	17,416	134,178	113,059	17,001	130,060	10.6	12.2	11.8	367.6
Edmonton, Isolation	4	2	4	4	2	13,031	13,031	13,031	11,697	11,697	11,697	21.8	21.8	21.8	35.7



TABLE No. 2—Continued

Hospitals	Deaths Within 48 Hours						Stillbirths	Patient Days				Aver. Stay of Patients Discharged and Died		Aver. No. Patients in Hospital Daily			
	Adults and Children		Newborn		Total			Total of all Patients Admitted		Total for Patients Discharged and Died		Adults and Children	Newborn		Total		
	M.	F.	M.	F.	M.	F.		Adults and Children	Newborn	Total	Adults and Children					Newborn	
Smoky Lake, George McDougall	1	.....	.....	.....	1	.....	3	2,428	263	2,691	2,193	263	2,456	9.1	6.2	8.6	7.4
Spirit River, Community	4	3	.....	.....	6	5	4	8,342	1,296	9,638	7,848	1,280	9,128	9.1	8.4	9.0	26.4
St. Paul, St. Theresa	2	1	.....	.....	2	1	1	9,483	1,464	10,947	8,947	1,450	10,397	9.1	11.0	10.3	29.9
Stettler, Municipal	2	1	.....	.....	3	1	.....	2,286	529	2,815	2,273	522	2,795	9.0	10.4	9.3	7.7
Trochu, St. Mary's	7	1	.....	.....	14	1	3	16,739	1,920	18,659	15,914	1,882	17,796	6.5	7.5	7.2	51.1
Vegreville, General	8	1	.....	.....	3	3	.....	8,245	1,692	9,937	8,080	1,668	9,748	11.0	12.0	11.3	27.2
Vermilion, Municipal	4	3	.....	.....	1	4	2	4,987	840	5,827	4,983	840	5,823	9.8	10.0	9.8	15.9
Viking, Municipal	4	3	.....	.....	4	4	2	1,817	308	2,125	1,781	307	2,088	6.9	7.3	6.9	5.8
Vilna, Our Lady's	4	6	.....	.....	3	4	9	3,672	483	4,155	3,550	478	4,028	8.1	10.6	8.4	11.4
Vulcan, Municipal	1	.....	.....	.....	1	.....	.....	5,734	728	6,462	5,689	690	6,379	9.6	11.1	9.9	17.7
Wainwright, Municipal	1	.....	.....	.....	.....	.....	.....	5,727	435	6,162	5,635	434	6,069	10.7	10.6	10.6	16.9
Wayne, General	1	.....	.....	.....	1	1	3	6,195	802	6,997	5,628	786	6,414	8.6	9.9	8.8	19.1
Westlock, Immaculata	2	2	.....	.....	2	1	4	8,305	1,895	10,200	8,074	1,895	9,969	6.6	8.4	6.9	27.9
Wetaskiwin, Community	9	7	.....	.....	1	10	8	4,175	710	4,885	3,817	630	4,447	7.0	9.6	7.2	13.4
Willington, General	1	.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total</b>	<b>392</b>	<b>199</b>	<b>85</b>	<b>75</b>	<b>477</b>	<b>274</b>	<b>247</b>	<b>1,037,597</b>	<b>121,020</b>	<b>1,158,617</b>	<b>942,734</b>	<b>117,315</b>	<b>1,059,103</b>	<b>11.2</b>	<b>10.2</b>	<b>11.1</b>	<b>3174.2</b>

Less Isolation, St. Joseph's Hospital, Junior Red Cross, T.B. Division, and S.C.R... 123,263  
 935,840

10.0

TABLE No. 3

Hospital	STAFF											Medical Staff	No. of Doctors	Training School	Affiliation with other Institutions	Graduated during the year	
	Salaried Doctors	Interns	Nurses			Dietitians		Orderlies	All other Employees	Total							
			Graduate	Student	Probationers	Affiliates	Graduate				Student						
Athabasca, Municipal												No					
Barrff, Mineral Springs												Yes					
Barrhead, Barrhead												No					
Bassano, Municipal												No					
Bentley, Community												No					
Berwyn, R.A.P.												No					
Bonnyville, K. H. Prittie												No					
Bonnyville, St. Louis												No					
Calgary, General	*3											Yes					35
Calgary, Isolation												Yes					
Calgary, Holy Cross	2	2										Yes					36
Calgary, Junior Red Cross												Yes					
Calgary, Salvation Army Grace	1											Yes					
Camrose, St. Mary's												Yes					
Canmore, Canmore	†1											No					
Cardston, Municipal												No					
Carmangay, Little Bow Municipal												No					
Castor, Our Lady of the Rosary												No					
Cereal, Esler												No					
Clareholm, Municipal												No					
Cold Lake, John Nell	†1											No					
Coleman, Miners' Union	†3											No					
Consort, Municipal												No					
Coronation, General												No					
Daysland, Providence												No					
Daysland (Incurables)												No					
Desmarais, St. Martin's												No					
Didsbury, General												Yes					
Drumheller, Municipal												No					
Eckville, Medicine Valley Community												No					
Edmonton, Beulah Rescue Home	2	4										Yes					20
Edmonton, General												Yes					
Edmonton, General, T.B. Division	6	4										Yes					20
Edmonton, Misericordia	5	14										Yes					44
Edmonton, Royal Alexandra												Yes					
Edmonton, Isolation												No					

TABLE No. 3—Continued

Hospital	STAFF											Medical Staff	No. of Doctors	Training School	Affiliation with other Institutions	Graduated during the year
	Salaried Doctors	Interns	Nurses			Dietitians		Orderlies	All other Employees	Total						
			Graduate	Student	Probationers	Affiliates	Graduate				Student					
Edmonton, Isolation, T.B. Division	5	12	7	68	19	4	2	7	1	18	26	No	72	Yes	37	
Edmonton, St. Joseph's		52							19	133	230	Yes				
Edmonton, University			4													
University, S.C.R.																
University, Orthopaedic																
University, T.B. Division																
Edson, St. John's			4							9	13	No				
Elk Point, Municipal			5							11	16	No				
Empress, Cottage			4							5	9	No				
Fairview, Community			3							4	7	No				
Fort McMurray, St. Gabriel's			2							7	9	No				
Fort Smith, General		No Report								4	9	No				
Fort Vermilion, St. Theresa			2						1	2	5	No				
Galahad, St. Joseph's			4							6	10	No				
Grande Prairie, Municipal			11							11	23	Yes	7			
Grimshaw, Battle River		No Report														
Hanna, Municipal			9							12	21	No				
Hardisty, St. Anne's			4							10	15	No				
High Prairie, Providence			6						1	10	16	No				
High River, Municipal			9							7	16	No				
Innisfail, Municipal			5							9	14	Yes	4			
Islay, Municipal			3							3	6	No				
Jasper, Seton			3							5	8	No				
Killam, General			4							4	8	No				
Lacombe and District, Community			7							5	12	No				
Lac La Biche, St. Catherine's			4							5	10	No				
Lamont, Public	*1	1	4	34			1		1	5	67	Yes	4	Yes	9	
Lethbridge, Galt	*1		29	22	18		1		2	26	106	Yes	30	Yes	10	
Lethbridge, Isolation			1							34	34	No				
Lethbridge, St. Michael's			32				1		1	41	75	Yes	34	No		
Lloydminster, Municipal			15						1	15	30	Yes	3			
Macleod, General			4							4	9	No				
Macleod, General (Incurables)			4							3	7	No				
Mannville, Municipal																
Marwayne, Nursing Home		No Report							4	3	7	No				
Medicine Hat, General			8	38	9		1		4	24	84	Yes	10	Yes	16	
Medicine Hat, Isolation			1								1					

†1	Mundare, General	3	1	5	9	No			
	MacLennan, Sacred Heart	4		9	13	No			
	Myrnam, Municipal	3		4	7	No			
†1	Nanton, General	No Report	1	2	4	No			
	Nordegg, General	1		2	6	No			
	Olds, General	4		6	12	Yes			
	Peace River, Municipal	6		7	9	No	8		
	Pincher Creek, St. Vincent's	2		7	11	No			
	Provost, Municipal	4	1	10	17	No			
	Radway, St. Joseph's	6		7	13	Yes			
	Red Deer, Municipal	6		7	13	Yes	5		
	Rimbey, St. Paul's	5		6	11	No			
	Rocky Mountain House	4		4	8	No			
	Smoky Lake, George McDougall	4		4	8	No			
†1	Spirit River, Community	No Report		4	8	No			
	St. Paul, St. Theresa	7		19	26	No			
	Stettler, Municipal	8		7	16	Yes			
	Trochu, St. Mary's	2	1	9	12	No			
	Vegreville, General	8	1	12	50	Yes	7	Yes	5
	Vermilion, Municipal	6		6	12	No			
	Viking, Municipal	4		5	9	No			
	Vilna, Our Lady's	4		6	10	No			
	Vulcan, Municipal	5		5	10	No			
	Wainwright, Municipal	5		6	11	No			
	Wayne, General	4		3	7	No			
	Westlock, Immaculata	5		7	12	No			
	Wetaskiwin, Community	9		7	16	No			
	Willingdon, General	2	1	5	8	No			
34	Total	686	84	1337	2638		717		232

†Contract. \*Part time.





153	126	529	416	7	3	1	1	7	23	2	5	3	3	3	1	6	20	7	4	165	7
1345	558	845	503	287	305	534	9.2	275	219	38	5	3	65	26	3	217	74	201	109	165	
178	106	32	38	49	43	17	5	79	12.3	40	37	1	2	2	1	34	3	7	4	1	2
307	339	53	78	143	148	22	11	119	9.9	48	68	3	3	27	1	34	40	7	7	1	1
112	87	17	16	73	74	74	48	48	9.2	23	25	1	1	1	13	4	10	1	1	3	1
33	41	11	11	28	24	14	2	51	20.5	23	27	3	5	1	3	1	1	1	1	2	1
39	47	4	No Report	14	9	14	2	16	9.4	8	8	2	5	2	3	3	3	3	3	2	1
48	33	No Report	1	29	29	4	4	16	12.3	5	11	6	5	5	4	4	10	3	2	2	2
154	181	7	14	43	39	24	18	57	9.6	25	32	5	1	1	3	15	6	6	2	2	2
216	152	66	76	81	62	37	18	252	21.2	126	95	5	1	1	3	15	6	6	2	2	2
201	217	47	37	42	44	37	18	94	11.4	49	41	1	1	1	2	8	2	1	1	1	1
136	146	41	51	50	90	90	72	72	12.0	42	27	2	5	3	5	10	10	3	5	2	2
169	182	28	38	107	98	63	63	63	9.0	35	28	10	5	3	1	5	1	4	3	13	1
324	365	27	75	75	137	164	164	164	12.1	84	65	1	1	1	7	4	2	3	3	1	1
141	136	48	58	124	107	53	53	53	17.4	105	58	1	1	1	22	6	10	1	1	1	1
57	58	12	6	27	21	2	8	22	18.9	27	16	2	2	2	1	3	2	2	2	3	2
133	31	12	15	6	8	4	8	65	18.9	37	29	35	8	8	3	5	5	2	3	3	2
46	52	12	9	49	35	7	7	65	18.9	37	29	35	8	8	3	5	5	2	3	3	2
370	287	56	50	80	58	158	158	158	14.9	83	69	3	2	3	10	12	10	5	2	2	1
71	72	13	14	26	45	7	9	52	14.5	19	28	3	2	3	3	10	1	1	1	2	1
511	621	86	99	230	263	28	17	185	8.4	101	84	2	9	22	88	31	24	51	4	4	1
645	587	210	399	439	615	91	47	390	11.4	214	141	3	5	12	55	31	45	39	39	9	9
646	654	194	242	367	401	69	26	349	10.5	162	154	7	7	27	7	55	31	45	39	9	9
488	573	50	52	170	193	38	59	191	10.5	106	84	7	7	8	2	49	29	19	33	13	7
119	109	23	33	45	55	38	59	52	10.7	22	31	3	3	4	1	52	32	11	3	1	1
118	130	10	6	19	21	16	5	57	12.8	27	27	1	1	4	3	3	3	2	1	1	2
371	364	196	271	396	374	374	358	358	14.2	168	169	7	7	3	4	83	37	38	2	2	2
1	4	6	11	41	43	43	68	68	12.1	35	33	5	5	5	22	6	3	3	3	2	2
202	193	19	28	36	36	9	14	78	15.7	34	36	3	3	5	9	4	3	1	1	1	1
90	104	20	18	52	47	14	7	68	11.5	40	29	3	3	1	2	2	2	1	1	1	1
142	133	No Report	No Report	14	14	14	3	14	8.7	6	4	1	1	1	3	2	2	1	1	2	2
49	14	6	12	18	18	14	3	14	8.7	6	4	1	1	1	3	2	2	1	1	2	2
110	123	9	25	28	37	1	3	76	18.4	41	32	3	4	1	18	3	3	1	2	1	1
124	117	17	19	42	53	3	3	67	14.6	24	29	3	3	4	26	1	3	3	2	1	1
93	97	11	39	30	53	12	7	81	16.2	43	31	7	7	7	7	15	6	2	2	2	2
136	143	19	25	25	24	3	3	77	14.6	32	43	1	1	1	6	3	3	1	1	1	1
152	279	75	102	81	70	9	11	119	11.7	64	47	4	4	4	16	9	5	11	1	1	1
122	178	59	65	54	80	29	40	137	15.3	60	72	2	2	2	21	7	12	4	4	2	2
129	132	14	19	44	32	2	6	75	13.6	36	40	2	2	1	21	4	3	1	1	1	1
60	70	28	23	39	29	37	6	77	17.5	34	30	3	3	3	18	2	2	2	2	2	2
80	108	5	6	26	18	18	42	42	14.7	24	17	1	1	1	3	3	3	1	1	1	1

TABLE No. 4—Continued

Hospitals	Medical		Surgical				Non-Operative		Obstetrics		Percentage of Maternity Total Admissions		Living Births		Tuber- culosis		Communicable Diseases except Typhoid & T.B.	Typhoid cases	Cardiac Disease cases	Rheumatic cases	Cancer	Gonorrhea cases	Venereal Disease cases	Alcoholics
	Male	Female	Major		Minor		Male	Female	Male	Female	Total Admissions	Male	Female	Pulmon- ary	Other Forms	Diseases except Typhoid & T.B.	Typhoid cases	Cardiac Disease cases	Rheumatic cases	Cancer	Gonorrhea cases	Venereal Disease cases	Alcoholics	
			No Report	Male	Female	Male																		Female
Spirit River, Community	373	152	28	24	70	71	3	1	165	15.9	71	81	6	.....	5	2	4	4	4	10	1	2	1	
St. Paul, St. Theresa	135	133	71	77	186	199	22	23	146	13.2	73	58	.....	.....	.....	1	1	19	.....	2	2	.....	.....	
Stettler, Municipal	87	93	14	8	36	17	1	3	49	12.4	29	21	1	.....	.....	1	1	10	.....	2	2	.....	.....	
Trochu, St. Mary's	513	466	135	138	369	388	10	6	244	9.7	123	117	4	.....	2	1	53	11	11	6	9	3	.....	
Vegreville, General	225	274	37	49	72	47	18	5	142	15.8	79	62	.....	.....	.....	.....	9	9	34	7	4	.....	.....	
Vermilion, Municipal	100	131	43	39	30	65	3	7	82	13.9	44	40	.....	.....	.....	.....	2	2	2	.....	.....	.....	2	
Viking, Municipal	43	100	12	11	23	14	12	4	46	14.9	19	22	1	.....	1	.....	2	1	14	16	4	2	.....	
Vilna, Our Lady's	103	99	23	35	49	81	.....	.....	67	9.9	20	25	1	.....	.....	.....	1	1	5	.....	.....	.....	.....	
Vulcan, Municipal	165	153	25	41	43	27	60	27	67	9.9	28	39	.....	.....	.....	.....	.....	14	16	4	2	.....	.....	
Wainwright, Municipal	221	93	32	20	75	43	.....	.....	43	7.4	27	15	.....	.....	.....	.....	.....	5	.....	6	3	.....	.....	
Wayne, General	211	162	33	42	52	30	42	7	80	10.7	53	27	.....	.....	.....	.....	.....	1	5	.....	.....	.....	.....	
Westlock, Immaculata	237	235	82	94	157	183	11	4	213	14.6	111	114	6	.....	4	.....	18	13	10	10	6	.....	.....	
Wetaskiwin, Community	150	216	3	6	95	90	.....	.....	71	11.3	35	33	.....	.....	.....	.....	.....	12	9	.....	.....	.....	.....	
Willingdon, General	19437	19757	5368	6402	11153	11459	2251	1530	12257	12.8	5870	5528	304	211	1542	61	1887	873	1025	517	438	250	.....	.....
Total	19437	19757	5368	6402	11153	11459	2251	1530	12257	12.8	5870	5528	304	211	1542	61	1887	873	1025	517	438	250	.....	.....







TABLE No. 6

Hospitals	Deaths			General Anaes- thetics Given	Spinal Anaes- thetics Given	Autopsies Held	Laboratory Examinations	X-Ray Examinations	Blood taken for Wasserman Test	Bacteriological Examination of Sterilized Dressings	Pasteurized Milk Supply	Water Supply Tested Bacteriologically
	Within 10 days from Surgical		Total including Stillbirths									
	Number	Percentage to Total Operations	Male and Female									
Athabasca Municipal	2	1.6	32									
Banff, Mineral Springs	..	..	8									
Barhead, Barrhead	1	.66	20									
Bassano, Municipal	2	1.1	27									
Bentley, Community	1	.74	7									
Berwyn, R.A.P.	..	..	10									
Bonnyville, K. H. Prittie	..	..	5									
Bonnyville, St. Louis	1	1.2	11									
Calgary, General	21	.92	243									
Calgary, Isolation	..	..	3									
Calgary, Holy Cross	75	1.9	279									
Calgary, Junior Red Cross	..	..	17									
Calgary, Salvation Army Grace	..	..	33									
Camrose, St. Mary's	6	1.5	60									
Canmore, Canmore	2	1.8	5									
Cardston, Municipal	1	.17	26									
Carmanagay, Little Bow Municipal	1	.62	14									
Castor, Our Lady of the Rosary	1	.75	11									
Cereal, Esler	1	1.9	17									
Clareholm, Municipal	1	.54	9									
Cold Lake, John Neil	1	1.3	8									
Coleman Miners' Union	1	.59	15									
Consort, Municipal	..	..	16									
Coronation, General	..	..	8									
Daysland, Providence	..	..	59									
Daysland (Incurables)	..	..	39									
Desmarais, St. Martin's	..	..	11									
Didsbury, General	1	.9	7									
Drumheller, Municipal	7	.81	61									
Eckville, Medicine Valley Community	..	No Report	..									
Edmonton, Beulah Rescue Home	..	..	3									
Edmonton, General	3	.24	67									
Edmonton, General, T.B. Division	..	..	105									
Edmonton, Misericordia	16	.67	236									
Edmonton, Royal Alexandra	*57	1.7	343									
				98	..	..	48	481	4	..	No	No
				30	2	..	714	2541	18	..	Yes	Yes
				124	..	..	223	102	3	..	No	Yes
				67	75	..	..	..	..	..	No	Yes
				90	37	..	..	100	42	6	No	Yes
				23	..	1	300	49	2	2	No	No
				38	..	..	400	94	15	2	No	No
				82	..	..	205	24	..	1	No	No
				2330	..	47	17341	3261	90	81	Yes	Yes
				2042	..	138	24514	4955	167	140	Yes	Yes
				23	..	..	281	39	29	16	Yes	Yes
				167	..	..	1900	580	12	4	Yes	Yes
				60	..	7	743	94	41	..	No	Yes
				337	..	..	..	369	..	..	No	No
				88	..	1	..	107	20	..	No	Yes
				139	..	..	297	72	3	104	No	Yes
				32	..	..	50	70	20	..	No	No
				137	..	..	74	34	6	2	No	Yes
				56	..	1	36	..	18	1	No	No
				176	..	1	400	190	40	3	Yes	No
				46	..	..	..	..	..	..	No	No
				59	..	..	268	59	8	3	No	Yes
				39	..	..	230	60	..	..	No	No
				..	..	..	..	..	..	..	..	..
				98	..	..	..	..	..	..	No	No
				516	..	..	344	573	1	..	Yes	Yes
				..	No Report	..	..	..	..	..	..	..
				579	..	31	14304	8675	121	12	Yes	Yes
				1508	..	36	20363	1947	491	12	Yes	Yes
				3348	..	159	51572	4211	447	12	Yes	Yes
				..	..	..	..	..	5974	436	..	..

Edmonton, Isolation	26	20	601	137	310	25	110	65	Yes	Yes
Edmonton, Isolation, T.B. Division	37	1516			34986	12293	3359		Yes	Yes
Edmonton, St. Joseph's	218								Yes	Yes
Edmonton, University										
University, S.C.R.										
University Orthopaedic										
University, T.B. Division										
Edson, St. John's	18	180	5		337	318	21	3	No	No
Elk Point, Municipal	28	435	22	1	153	80	45	6	No	No
Empress, Cottage	8	46			450	101	3	3	No	No
Fairview, Community	7	64	3		46	40	4	3	No	No
Fort McMurray, St. Gabriel's	6	17				38			No	No
Fort Smith, General	No Report								No	No
Fort Vermilion, St. Theresa	8	8							No	No
Galahad, St. Joseph's	9	125			650	52	3	5	No	No
Grande Prairie, Municipal	70	256	1	1	695	104	2	12	No	Yes
Grimshaw, Battle River	No Report								No	No
Hanna, Municipal	29	172	2	2	571	138	6	5	No	Yes
Hardisty, St. Anne's	13	116	49		200	89	10	4	Yes	Yes
High Prairie, Providence	25	218	52	4	1204	168	50		No	Yes
High River, Municipal	27	262	47	7	7	238		12	No	No
Innisfail, Municipal	37	205	8	8	18	43	1		No	No
Islay, Municipal	9	21	3	3	380	125	10	2	Yes	Yes
Jasper, Seton	3	38	10		480	30	2	1	No	No
Killam, General	8	51	10			138	14		No	Yes
Lacombe and District, Community	29	190	25		450	54	10	50	No	Yes
Lac La Biche, St. Catherine's	14	62	1		6987	1061	117		No	Yes
Lamont, Public	29	384	95	3	12398	2058	1374		Yes	Yes
Lamont, Public	105	1002	220						Yes	Yes
Lethbridge, Galt										
Lethbridge, Isolation	75	923	203	10	14373	1379	1252	4	No	No
Lethbridge, St. Michael's	40	289	49		2255	545	20	2	No	Yes
Lloydminster, Municipal	10	53			100	90	6		No	No
Macleod, General									No	No
Macleod (Incurables)									No	No
Mannville, Municipal	10	35	2		30	72	7		No	No
Marwayne, Nursing Home	No Report								Yes	Yes
Medicine Hat, General	100	823	71		448				Yes	Yes
Medicine Hat, Isolation	.85									
Mundare, General	.99	98	3	1	168	131	4	5	Yes	Yes
McLennan, Sacred Heart	12	187			620	138	15	1	No	No
Myrnam, Municipal	.73	187			45	32			No	No
Nanton, General	No Report								Yes	Yes
Nordegg, General	3	49			260	85	10		Yes	Yes
Olds, General	16	80							No	No
Peace River, Municipal	15	78			353	236			No	No
Pincher Creek, St. Vincent's	.63	101	15	1	115	91	1		No	No
Provost, Municipal	1.9	67	6	2	28	19	2	2	No	Yes
Radway, St. Joseph's	1.1	303	21	4	1586	282	5	1	No	Yes
Red Deer, Municipal		226	14	4	417	68	60	12	Yes	Yes
Rimbe, St. Paul's		81	8	1	450	93			No	No
Rocky Mountain House	2.2	106	4		54	105		3	No	Yes



TABLE No. 6—Continued

Hospitals	Deaths from Surgical Operation			Total including Stillbirths	General Anaes- thetics Given	Spinal Anaes- thetics Given	Autopsies Held	Laboratory Examinations	X-Ray Examinations	Blood taken for Wasserman Test	Sterilized Dressings	Pasteurized Milk Supply	Water Supply Tested Bacteriologically
	Percentage to Total Operations		Number										
	No Report	Male and Female											
Smoky Lake, George McDougall	.....	8	.....	40	.....	.....	.....	110	10	3	1	No	Yes
Spirit River, Community	.83	31	.....	148	49	.....	.....	738	221	15	36	No	Yes
St. Paul, St. Theresa	.38	40	.....	300	148	3	.....	1055	131	5	.....	No	No
Stettler, Municipal	2.7	11	.....	60	4	.....	.....	200	56	.....	6	No	Yes
Trochu, St. Mary's	.2	33	.....	653	161	.....	.....	4474	470	14	5	Yes	Yes
Vegreville, General	.....	26	.....	189	10	.....	.....	479	65	42	.....	Yes	Yes
Vermilion, Municipal	2.0	24	.....	114	65	.....	.....	450	25	2	.....	No	No
Vilna, Municipal	1.2	24	.....	56	.....	.....	.....	153	.....	19	2	No	Yes
Vulcan, Our Lady's	.53	12	.....	87	75	.....	.....	4	59	3	.....	No	Yes
Wainwright, Municipal	2.1	23	.....	88	2	.....	.....	601	152	3	1	No	Yes
Wayne, General	.50	7	.....	107	2	.....	.....	.....	164	8	.....	No	No
Westlock, Immaculata	.49	19	.....	188	9	.....	.....	326	140	9	.....	Yes	Yes
Wetaskiwin, Community	.76	37	.....	361	79	5	.....	650	188	53	4	Yes	Yes
Willingdon, General	.....	10	.....	180	4	.....	.....	120	45	15	.....	No	Yes
Total	344	2924	98	23896	3907	604	187591	88489	14333	1085	.....	.....	.....

\*Within 30 days.

## EXPENSES OF ALBERTA HOSPITALS, 1939—ADMINISTRATION

	Salaries and Audit	Board Meetings	Office Expenses	Stationery, Printing, Postage	Telegraph and Telephones	Insurance	Sundry	Total Administration
	\$	\$	\$	\$	\$	\$	\$	\$
Athabasca, Municipal	1,133.05	405.50	151.59	371.25	151.12	455.90	146.85	2,815.26
Banff, Mineral Springs	555.15		37.48	387.73	134.92	210.05	378.46	1,703.79
Barrhead, Barrhead	720.00			280.00	193.11	530.35		1,723.46
Bassano, Municipal	1,140.00	430.00		233.86	130.01	263.93	326.22	2,524.02
Bentley, Community	100.00			159.35	86.78	88.00	86.58	520.71
Berwyn, Ratepayers' Association of Peace	300.00	197.40	3.00	94.51	59.98	135.27	218.26	1,008.42
Bonnyville, K. H. Prittle				58.90	127.81		25.00	211.71
Bonnyville, St. Louis	180.00			44.00		111.04		383.04
Calgary, General	14,358.85			3,271.35	1,608.58	1,998.66	870.81	22,108.25
Calgary, Isolation	4,786.22			200.00	134.20	387.50	50.00	5,557.92
Calgary, Holy Cross	15,882.73		351.74	3,698.67	1,056.84	3,166.22	1,817.21	25,973.41
Calgary, Junior Red Cross	2,006.95			262.70	262.70	324.51	251.76	2,845.92
Calgary, Salvation Army Grace	427.35	262.78		210.02	276.28			1,176.43
Camrose, St. Mary's	600.00		42.55	198.08	124.25	305.00	1,280.02	2,549.90
Canmore, Canmore				50.00	250.00			300.00
Cardston, Municipal	585.00	497.25		386.44	164.29	230.15	198.22	2,061.35
Carmanangay, Little Bow Municipal	325.00	211.10	34.03	246.31	124.93	188.20	43.30	1,172.87
Castor, Rosary	620.00		34.70	166.96	110.73	335.14		1,267.53
Cereal, Esler				42.50	139.46		76.10	258.06
Clareholm, Municipal	770.00	229.20	118.60	193.62	112.28	67.61	171.02	1,662.33
Cold Lake, John Neil				93.78	81.36	128.87		304.01
Coleman, Miners' Union	180.00			117.60	67.63	5.00	187.54	557.77
Consort, Municipal	420.00	172.98		89.21	79.76	150.80	1.75	914.50
Coronation, General	600.00	130.00	36.86	105.21	72.80	107.84	36.45	1,089.16
Daysland, Providence	600.00		123.11	45.98	134.97	355.51		1,259.57
Desmarais, St. Martin's				18.00				18.00
Didsbury, General	250.00			87.05	130.42	50.00	41.78	559.25
Drumheller, Municipal	3,635.15	866.95		1,639.59	175.32	1,013.93	2,135.24	9,486.18
Edmonton, Beulah Home	1,080.00		10.48	353.26	70.31	312.22	938.99	2,765.26
Edmonton, General	7,296.49	15.70	541.31	2,503.00	719.36	1,864.10	5,734.44	18,674.40
Edmonton, Misericordia	7,608.35			1,032.22	539.01	537.15	4,797.99	14,514.72
Edmonton, Royal Alexandra	29,602.13			4,727.23	1,283.35	6,164.36	9,006.93	50,784.00
Edmonton, Isolation	7,398.00			832.39	319.00	1,540.00	2,251.00	12,340.39
Edmonton, St. Joseph's	1,245.00		400.00	190.73	125.57	96.17	96.50	2,153.97
Edmonton, University	19,660.94	900.42	258.38	4,096.17	3,084.71	2,532.67	7,800.51	38,333.80
Edson, St. John's	960.00	270.05	60.66	203.70	123.47	475.00	255.40	1,878.03
Elk Point, Municipal	780.00	419.60	10.75	306.23	80.36	82.65	664.53	2,344.12
Empress, Cottage	367.00	6.00		127.65	64.14	48.15	54.50	667.48
Fairview, Community	317.00	46.90	40.00	93.72	41.86	95.00	8.90	643.38
Fort McMurray, St. Gabriel's	980.00			43.21	.80		46.66	1,070.67

## DEPARTMENT OF PUBLIC HEALTH

## EXPENSES OF ALBERTA HOSPITALS, 1939—ADMINISTRATION

	Salaries and Audit	Board Meetings	Office Expenses	Stationery, Printing, Postage	Telegraph and Telephones	Insurance	Sundry	Total Administration
Fort Vermilion, St. Theresa			5.00	30.70	5.00	226.00	146.78	30.70
Galahad, St. Joseph's			43.84	38.55	119.20	574.37	574.37	574.37
Grande Prairie, Municipal	2,625.00	251.00	526.62	555.41	311.09	507.76	15.00	4,777.03
Hanna, Municipal	15.35	855.60	49.00	440.03	179.38	505.42	276.57	3,841.00
Hardisty, St. Anne's			262.81	292.70	681.36	226.58	133.89	1,597.34
High Prairie, Providence	600.00		25.00	82.13	18.00	233.75		958.88
High River, Municipal	1,271.25	416.00	28.34	581.07	263.75	251.81	230.79	3,043.01
Innisfail, Municipal	915.00	482.20	136.90	375.44	190.92	392.68	98.21	2,591.35
Islay, Municipal	393.50	310.00	24.32	296.96	101.71	57.00	289.43	1,402.92
Jasper, Seton			45.80	60.25	35.10	65.00	58.20	264.35
Killam, General			79.42	36.50	87.72	22.80	217.70	444.14
Lacombe and District, Community	615.00	385.85	54.90	383.72	81.70	232.80	16.80	1,770.77
Lac La Biche, St. Catherine's				80.48	71.22			151.70
Lamont, Public	5,980.43	144.63	1,679.04	1,534.43	468.35	777.95	530.48	10,337.36
Lethbridge, Galt	5,584.10		368.39	1,398.00	898.01	1,509.01	1,509.01	10,535.46
Lethbridge, Isolation			23.79	13.00	36.27	29.28	16.07	118.41
Lethbridge, St. Michael's	4,765.45	2,903.78	509.02	903.29	766.00	1,284.72	296.55	11,428.81
Lloydminster, Municipal	1,510.00	162.40		724.04	218.58	328.23	232.26	3,175.51
Macleod, General	480.00			213.03	65.78	80.99	198.33	1,038.13
Mannville, Municipal	50.00	238.57	80.70	220.62	79.28	134.97	121.50	925.64
Medicine Hat, General	3,490.00			1,299.57		612.70	5,529.87	10,932.14
Medicine Hat, Isolation						22.68		22.68
Mundare, General	36.00	66.08	33.85	68.89	75.96	104.00	15.63	400.41
McLennan, Sacred Heart	600.00		76.85	96.93	79.68	164.00	317.00	1,334.46
Myrnam, Municipal	338.75	169.40	73.25	123.30	47.53	416.80	255.81	1,424.84
Nordegg, General				46.61	12.97			59.58
Olds, General	275.00	19.40	21.80	139.26	91.95	87.11	9.79	644.31
Peace River, Municipal	850.80	502.20	11.00	337.48	153.24	597.39	55.32	2,507.43
Pincher Creek, St. Vincent's					199.51	60.49		260.00
Provost, Municipal	501.50	324.95	886.35	290.86	153.72	271.90	448.45	2,877.73
Radway, St. Joseph's	540.00		97.35	219.02	87.88	370.16	399.80	1,714.21
Red Deer, Municipal	1,300.00		21.28	252.00	113.68	311.05	617.43	2,615.44
Rimby, St. Paul's			110.60	48.62	94.08	351.94	642.23	1,247.47
Rocky Mountain House, R.M.H.				366.05	110.74	100.00		576.79
Smoky Lake, George McDougall			154.87	48.80	62.32	339.79	339.00	604.99
St. Paul, St. Theresa	1,080.00		102.25	162.59	76.54	89.25	89.25	1,850.42
Stettler, Municipal	1,052.80	605.05		452.25	141.44	658.66	315.76	3,225.96
Trochu, St. Mary's	200.00		47.25	95.45	137.49	181.66		661.85
Vegreville, General	1,140.00	65.00	91.00	142.00	145.00	150.00	170.50	1,903.50
Vermilion, Municipal	570.00	458.23	84.90	469.77	266.42	216.76	1,097.66	3,023.74

Viking, Municipal .....	600.00	413.00	.....	87.02	88.86	157.74	228.81	1,575.43
Vilna, Our Lady's .....	600.00	.....	135.00	.....	60.00	.....	250.00	1,045.00
Vulcan, Municipal .....	600.00	310.60	.....	261.29	63.32	248.15	275.90	1,759.26
Wainwright, Municipal .....	420.00	350.00	677.81	565.49	128.39	85.00	281.44	2,508.13
Wayne, General .....	720.00	.....	.....	.....	430.08	199.50	.....	1,349.58
Westlock, Immaculata .....	.....	.....	52.45	84.79	88.78	.....	142.75	368.77
Wetaskiwin, Community .....	1,081.40	134.00	60.09	325.49	110.78	195.05	107.85	2,014.66
Willingdon, General .....	360.00	.....	60.85	87.46	71.47	.....	5.53	585.31
<b>Total .....</b>	<b>\$ 170,151.34</b>	<b>\$ 14,629.77</b>	<b>\$ 8,996.93</b>	<b>\$ 41,274.82</b>	<b>\$ 20,116.72</b>	<b>\$ 35,146.97</b>	<b>\$ 55,967.42</b>	<b>\$ 346,283.97</b>

## DEPARTMENT OF PUBLIC HEALTH

## ALBERTA HOSPITALS, 1939

	Professional Care of Patients			Kitchen and Dining Room		
	Salaries	Supplies	Total	Wages	Food Supply	Total
Athabasca, Municipal	\$ 5,560.10	\$ 1,427.27	\$ 6,987.37	\$ 725.19	\$ 2,584.90	\$ 3,310.09
Banff, Mineral Springs	6,504.44	2,494.22	8,998.66	3,035.33	8,938.30	11,973.63
Barrhead, Barrhead	3,165.75	1,756.76	4,922.51	960.00	3,932.44	4,892.44
Bassano, Municipal	5,054.90	1,282.61	6,337.51	813.75	3,069.33	3,883.08
Bentley, Community	2,466.14	3,900.11	6,366.25	427.50	1,187.71	1,615.21
Berwyn, Ratepayers' Association of Peace	1,328.50	2,045.32	3,373.82	624.65	1,602.31	2,226.96
Bonnyville, K. H. Prittie	3,005.49	523.92	3,529.41	507.25	1,388.57	1,895.82
Bonnyville, St. Louis	3,630.00	242.35	3,872.35	480.00	1,474.10	1,954.10
Calgary, General	63,337.61	26,859.70	90,197.31	15,244.47	38,342.44	53,586.91
Calgary, Isolation	7,623.98	495.89	8,119.87	1,844.76	4,682.47	6,527.23
Calgary, Holy Cross	36,634.25	57,530.52	94,164.77	13,121.14	45,258.46	58,379.60
Calgary, Junior Red Cross	8,108.25	2,541.26	10,649.51	1,993.83	4,704.49	6,698.32
Calgary, Salvation Army Grace	2,885.75	616.73	3,502.48	510.00	3,340.79	3,850.79
Canmore, St. Mary's	9,756.62	4,271.10	14,027.72	1,150.35	5,957.64	7,107.99
Canmore, Canmore	1,440.00	2,751.15	4,191.15	360.00	2,094.15	2,454.15
Cardston, Municipal	5,191.52	5,041.78	10,233.30	1,113.59	5,073.60	6,187.19
Carmangay, Little Bow	1,915.25	2,861.92	4,777.17	463.39	2,030.70	2,496.09
Castor, Rosary	3,402.45	1,172.96	4,575.41	490.00	2,397.43	2,887.43
Cereal, Esler	1,507.06	1,046.54	2,553.60	600.47	958.29	1,558.76
Claresholm, Municipal	5,280.95	1,282.65	6,563.60	653.00	2,470.78	3,123.78
Cold Lake, John Neil	3,454.43	627.26	4,081.69	669.25	2,072.44	2,741.69
Coleman, Miners' Union	3,706.25	517.49	4,223.74	963.60	2,029.25	2,992.85
Consort, Municipal	3,636.15	873.54	4,509.69	603.25	2,093.21	2,696.46
Coronation, General	2,271.30	619.39	2,890.69	553.50	1,430.94	1,984.44
Daysland, Providence	3,206.60	913.83	4,120.43	1,423.78	2,789.23	4,213.01
Desmarais, St. Martin's	1,820.00	137.00	1,957.00	822.30	822.30	822.30
Didsbury, General	3,194.70	722.85	3,917.55	410.80	1,345.95	1,756.75
Drumheller, Municipal	23,977.50	6,624.43	30,601.93	2,377.41	13,087.97	15,465.38
Edmonton, Beulah Home	2,173.50	505.26	2,678.76	310.00	2,514.29	2,824.29
Edmonton, General	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
Edmonton, Royal Alexandra	129,023.61	52,078.47	181,102.08	10,051.49	73,952.76	84,004.25
Edmonton, Isolation	22,685.67	4,115.86	26,801.53	2,511.00	13,487.77	15,998.77
Edmonton, St. Joseph's	6,415.00	813.80	7,228.80	1,524.00	7,494.66	9,018.66
Edmonton, University	136,091.38	64,789.71	200,881.09	24,736.33	64,520.03	89,256.36
Edson, St. John's	3,835.96	781.98	4,617.94	840.00	2,518.14	3,358.14
Elk Point, Municipal	5,116.90	1,664.46	6,781.36	789.65	3,907.00	4,696.65
Empress, Cottage	2,170.35	1,506.63	3,676.98	873.45	1,360.40	2,233.85
Fairview, Community	2,187.00	692.03	2,879.03	552.25	1,236.76	1,789.01
Fort McMurray, St. Gabriel's	2,917.60	324.23	3,241.83	848.50	1,687.56	2,536.06
Fort Vermilion, St. Theresa	1,760.00	241.21	2,001.21	360.00	1,479.50	1,839.50
Galahad, St. Joseph's	2,840.00	1,236.09	4,076.09	575.50	1,751.45	2,326.95

Grande Prairie, Municipal	8,231.56	14,191.76	1,932.70	5,944.27	7,876.97
Hanna, Municipal	6,633.50	8,771.30	1,008.50	4,528.36	5,536.86
Hardisty, St. Anne's	881.49	2,425.84	1,006.95	3,407.30	4,414.25
High Prairie, Providence	3,198.10	4,759.50	720.00	3,385.29	4,105.29
High River, Immissfall	7,441.15	11,894.77	898.05	6,397.60	7,295.65
Innisfall, Municipal	7,037.50	9,834.60	1,037.85	4,451.92	5,489.77
Islay, Municipal	2,454.75	3,142.72	439.80	1,704.80	2,144.60
Jasper, Seton	750.00	1,648.10	650.00	3,183.80	3,833.80
Killam, General	1,984.00	4,012.57		1,202.01	1,202.01
Lacombe and District, Community	5,130.00	7,008.73	710.50	2,875.04	3,585.54
Lac La Biche, St. Catherine's	2,000.00	2,389.64	80.00	1,984.90	2,064.90
Lamont, Public	10,710.49	19,640.77	1,415.95	14,011.16	15,427.11
Lethbridge, Galt	24,473.10	35,294.55	5,291.10	21,315.01	26,606.11
Lethbridge, Isolation	1,153.00	1,198.03	307.00	362.69	669.69
Lethbridge, St. Michael's	16,823.89	24,829.79	6,692.74	19,225.39	25,918.13
Lloydminster, Municipal	11,847.00	15,888.08	2,357.45	9,413.91	11,771.36
Macleod, General	4,310.50	6,004.22	1,219.05	4,428.11	5,647.16
Mannville, Municipal	3,282.65	4,216.78	600.00	2,218.47	2,818.47
Medicine Hat, General	16,712.08	23,578.51	2,589.25	14,384.63	17,173.88
Medicine Hat, Isolation	518.21	521.21		288.75	288.75
Mundare, General	2,551.80	3,469.89	90.50	1,881.36	1,971.86
McLennan, Sacred Heart	2,598.92	3,261.30	757.85	3,465.22	4,223.07
Myrman, Municipal	1,836.00	2,989.10	212.50	1,181.38	1,393.88
Nordegg, General	1,265.00	2,027.13	671.75	1,537.10	2,208.85
Olds, General	3,274.85	4,085.33	741.65	1,747.72	2,489.37
Peace River, Municipal	4,783.25	6,849.62	587.70	2,900.82	3,488.52
Pincher Creek, St. Vincent's	2,760.00	3,758.89	378.85	1,204.80	1,583.65
Provost, Municipal	3,723.60	5,031.50	667.00	3,329.59	3,996.59
Rodway, St. Joseph's	3,429.00	5,476.68	697.99	3,546.70	4,244.69
Red Deer, Municipal	6,974.50	9,352.97	865.98	3,326.99	4,192.97
Rimbey, St. Paul's	2,367.00	2,916.48	252.00	1,865.11	2,117.11
Rocky Mountain House, R.M.H.	4,130.77	5,217.89	639.08	1,408.07	2,047.15
Smoky Lake, George McDougall	5,323.99	6,744.05	416.25	1,231.05	1,647.30
St. Paul, St. Theresa	4,863.85	6,224.41	1,968.00	2,763.18	4,731.18
Stettler, Municipal	8,061.25	11,177.30	906.55	4,031.72	4,938.27
Trochu, St. Mary's	2,940.00	3,562.14	540.00	1,560.93	2,100.93
Vegreville, General	8,080.00	12,509.00	2,400.00	9,980.00	12,380.00
Vermilion, Municipal	4,875.65	6,704.68	684.75	4,082.67	4,767.42
Viking, Municipal	3,775.15	5,340.01	988.62	2,216.04	3,204.66
Vilna, Our Lady's	3,660.00	4,882.17	132.00	7,079.78	1,211.78
Vulcan, Municipal	3,803.00	5,015.86	580.36	2,630.52	3,210.88
Wainwright, Municipal	5,024.29	6,911.49	1,183.40	3,100.71	4,284.11
Wayne, General	3,443.97	4,293.31	480.00	2,891.14	3,371.14
Westlock, Immaculata	2,270.80	3,934.55	480.00	2,300.02	2,780.02
Wetaskiwin, Community	7,203.85	11,265.50	989.00	4,229.83	5,218.83
Willingdon, General	1,186.63	1,745.27	400.00	1,641.49	2,041.49
Total	\$ 834,252.54	\$ 1,247,491.73	\$ 157,735.54	\$ 615,459.07	\$ 773,294.61



Grande Prairie, Municipal	140.00	49.13	470.00	186.44	940.00	40.57	1,808.88	1,246.71	91.46	4,973.19
Hanna, Municipal	799.00	527.60	505.50	358.53	687.35	64.23	1,208.76	1,476.61	128.15	5,755.73
Hardisty, St. Anne's	485.50	295.41	240.00	32.04	360.00	54.75	650.27	480.00	90.00	2,112.47
High Prairie, Providence	287.50	459.04	619.15	269.40	365.00	758.00	1,047.28	622.38	178.80	2,287.83
High River, Municipal	268.03	268.03	992.75	476.04	758.00	46.03	1,088.99	1,182.12	5,007.93	4,695.93
Innisfail, Municipal	250.30	22.10	384.43	76.65	1,157.90	34.60	550.60	734.03	97.47	2,321.48
Islay, Municipal	300.00	140.90	325.60	145.90	275.40	125.80	420.15	490.20	2,344.45	2,344.45
Jasper, Seton	120.92	120.92	143.00	82.88	1,096.50	160.68	178.74	295.77	1,121.31	1,121.31
Killam, General	333.38	333.38	500.00	229.59	780.34	780.34	780.34	660.98	361.38	4,122.85
Lacombe and Dist., Community	1,859.18	767.66	118.10	118.10	3,850.57	2,333.76	445.80	262.27	138.00	2,346.82
Lac La Biche, St. Catherine's	744.82	1,017.44	1,366.37	1,206.31	3,850.57	2,333.76	2,259.84	464.56	1,817.77	16,175.80
Lamont, Public	2,266.46	2,266.46	2,576.36	756.29	4,311.00	787.90	2,829.23	2,293.32	1,482.94	18,048.32
Lethbridge, Galt	2,086.07	2,086.07	2,086.07	713.02	2,963.86	561.71	1,121.59	1,717.34	918.34	10,081.93
Lethbridge, Isolation	497.29	497.29	1,565.70	335.60	1,282.75	1,897.35	1,897.35	1,613.37	7,192.06	7,192.06
Lethbridge, St. Michael's	12.54	12.54	600.00	28.78	1,282.75	54.55	1,083.86	755.04	132.00	2,666.77
Lloydminster, Municipal	2,288.24	355.65	4,437.25	821.21	2,310.00	397.78	3,348.47	572.20	541.25	2,604.79
Macleod, General	245.70	149.52	45.65	65.00	427.63	427.63	431.51	126.01	126.01	14,499.85
Medicine Hat, General	352.33	64.84	83.25	78.62	1,320.00	76.53	642.91	713.03	14.20	2,411.30
Medicine Hat, Isolation	162.10	50.00	300.00	95.32	257.50	98.21	404.23	131.90	38.70	3,480.87
Mundare, General	519.45	137.86	300.00	73.40	77.00	77.00	265.30	125.07	18.00	1,252.80
Peace River, Municipal	380.00	314.39	414.59	163.41	992.48	48.21	710.07	831.35	50.90	1,147.30
Pincher Creek, St. Vincent's	720.00	162.64	600.00	106.25	440.00	83.63	192.37	265.78	61.13	3,868.32
Provost, Municipal	251.00	288.55	360.00	30.90	367.50	124.39	1,113.35	555.90	2,143.55	2,143.55
Radway, St. Joseph's	295.50	112.66	676.15	145.11	623.60	94.02	726.84	578.03	2,792.24	2,792.24
Red Deer, Municipal	55.32	55.32	379.00	178.38	752.00	19.46	845.24	1,060.50	3,410.24	3,410.24
Rimbe, St. Paul's	288.00	388.14	714.00	99.95	302.95	28.71	596.22	348.39	90.35	4,161.63
Rocky Mountain House, R.M.H.	390.75	181.84	610.45	115.50	646.00	880.13	980.13	332.14	1,973.88	1,973.88
Smoky Lake, Geo. McDougall	200.00	105.47	200.00	142.99	860.00	32.11	626.06	332.14	39.00	2,279.62
St. Paul, St. Theresa	750.00	420.00	1,300.00	205.70	690.00	39.00	872.53	563.56	3,760.93	3,760.93
Stettler, Municipal	500.10	266.64	460.05	67.58	792.10	44.10	739.60	912.66	120.00	3,859.08
Trochu, St. Mary's	600.00	215.96	200.00	110.08	600.00	61.38	492.31	359.20	105.32	2,233.76
Vegreville, General	600.00	246.29	1,300.00	450.00	920.00	270.00	1,800.00	1,012.50	350.00	7,272.50
Vermilion, Municipal	600.00	215.96	468.88	278.71	559.59	153.21	1,051.67	1,222.06	4.50	4,396.53
Viking, Municipal	246.29	124.35	382.45	163.31	694.94	269.57	653.40	628.34	2,818.44	2,818.44
Vilna, Our Lady's	360.00	102.87	120.00	95.00	420.00	167.53	512.00	139.48	15.00	2,069.01
Vulcan, Municipal	240.00	350.75	382.45	111.25	638.00	50.68	724.03	887.06	3,321.70	3,321.70
Wainwright, Municipal	898.50	265.20	450.50	392.84	738.96	36.00	738.96	594.68	116.66	2,352.01
Wayne, General	898.50	265.20	360.00	150.75	180.00	82.50	422.76	596.00	2,946.39	2,946.39
Westlock, Immaculata	360.00	99.23	240.00	89.50	360.00	82.50	732.60	851.04	257.55	3,779.79
Wetaskiwin, Community	898.50	265.20	62.17	761.45	300.00	171.19	794.41	610.06	257.55	3,779.79
Willington, General	360.00	99.23	62.17	180.00	300.00	148.15	383.34	241.02	1,773.91	1,773.91
<b>Total</b>	<b>\$98,728.11</b>	<b>\$ 41,943.26</b>	<b>\$ 87,951.98</b>	<b>\$ 24,531.78</b>	<b>\$ 107,511.88</b>	<b>\$ 21,081.33</b>	<b>\$ 118,788.83</b>	<b>\$ 69,219.55</b>	<b>\$ 29,934.03</b>	<b>\$ 599,690.75</b>



## MAINTENANCE AND WAGES, ALBERTA HOSPITALS, 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
Banff, Mineral Springs	1,503.33	457.93	568.75	647.40	3,177.41	36,618.98
Barrhead, Barrhead	2,754.53	965.39	1,041.89	295.05	5,056.86	19,888.81
Bassano, Municipal	675.21	338.40	227.94	66.24	1,241.55	18,238.39
Bentley, Community	419.98	156.00	43.85	686.07	1,245.85	9,955.68
Berwyn, Ratepayers' Association of Peace	114.62	265.70	29.89	410.21	873.62	8,736.27
Bonnyville, K. H. Prittie	481.36	35.00	185.20	211.27	728.63	8,854.84
Bonnyville, St. Louis	104.50	65.30	185.20	211.27	586.27	6,346.89
Calgary, General	1,863.07	14,436.19	7,064.65	22,334.00	38,633.26	241,019.47
Calgary, Isolation	117.85	424.83	7,064.65	3,951.66	2,988.08	25,315.81
Calgary, Holy Cross	2,167.02	3,529.41	7,064.65	1,833.67	16,712.54	240,813.45
Calgary, Junior Red Cross	482.60	511.10	472.57	156.50	1,563.77	12,614.84
Calgary, Salvation Army Grace	372.04	1,063.68	472.57	900.00	1,908.29	30,545.25
Canmore, St. Mary's	791.30	297.60	246.91	832.00	2,167.81	8,338.05
Canmore, Canmore	708.57	281.80	91.60	61.45	1,143.42	25,388.05
Cardston, Municipal	1,328.28	1,100.47	513.95	20.32	2,963.02	10,155.98
Carmangay, Little Bow	91.11	330.50	78.74	20.32	500.35	14,360.48
Castor, Rosary	986.10	1,256.45	8.39	575.68	584.07	5,509.03
Cereal, Esler	357.75	267.50	130.20	195.31	768.80	13,500.58
Clareholm, Municipal	197.05	222.10	100.25	73.38	575.68	11,647.83
Cold Lake, John Nell	203.41	193.26	12.54	629.19	798.88	10,446.80
Coleman, Miners' Union	693.05	561.38	502.55	409.21	1,756.98	10,754.38
Consort, Municipal	201.07	273.72	178.24	331.00	1,384.03	7,655.45
Coronation, General	3,492.97	939.66	1,182.55	653.03	6,267.21	13,971.07
Daysland, Providence	207.90	97.35	246.37	627.34	1,148.04	4,551.25
Desmarais, St. Martin's	2,309.28	7,649.56	4,510.89	7,994.67	22,464.40	76,692.81
Didsbury, General	4,840.60	8,905.81	4,870.68	6,101.85	24,718.94	165,881.99
Drumheller, Municipal	9,121.73	1,648.30	6,887.63	9,600.00	25,279.36	167,995.46
Edmonton, Beulah Home	1,648.30	897.33	897.33	2,545.63	76,944.18	434,205.39
Edmonton, General	935.00	405.12	7,906.01	75.21	2,639.43	29,363.71
Edmonton, Misericordia	10,857.04	18,424.01	7,906.01	45.48	37,187.06	414,833.39
Edmonton, Royal Alexandra	357.62	144.19	600.80	45.48	1,148.09	14,611.12
Edmonton, St. Joseph's	523.30	601.10	600.80	1,725.20	547.29	21,097.21
Edmonton, University	57.38	314.59	63.29	435.26	861.62	8,616.23
Edson, St. John's	240.11	38.21	166.01	1.25	445.58	7,500.56
Elk Point, Municipal	439.93	311.58	308.19	3.50	1,063.20	11,140.48
Fairview, Cottage	440.00	442.52	273.91	324.24	1,480.67	4,273.36
Fairview, Community	969.04	707.31	595.93	300.00	2,572.28	10,289.08
Fort McMurray, St. Gabriel's						34,391.23
Fort Vermilion, St. Theresa						
Galahad, St. Joseph's						
Grande Prairie, Municipal						

Grimshaw, Battle River .....	1,383.12	150.70	391.43	1,925.25	25,830.14
Hanna, Municipal .....	585.00	1,681.05	239.18	2,526.26	13,076.16
Hardisty, St. Anne's .....	457.39	1,539.06	847.76	4,892.04	17,003.54
High Prairie, Providence .....	387.89	912.25	614.05	1,914.19	29,155.55
High River, Municipal .....	472.14	448.77	644.89	1,574.85	24,186.50
Innisfail, Municipal .....	333.05	113.45	9.05	449.05	9,460.77
Islay, Municipal .....	135.80	95.30	35.10	456.80	8,547.50
Jasper, Seton .....	384.83	140.00	163.09	1,336.84	8,116.87
Killam, General .....	873.34	182.13	662.79	904.81	17,392.70
Lacombe and District, Community .....	4,071.73	1,817.32	950.10	3,042.54	9,995.60
Lac La Biche, St. Catherine's .....	1,179.42	765.36	2,203.11	7,074.63	68,657.47
Lamont, Public .....	29.36	173.21	53.75	4,898.21	95,382.65
Lethbridge, Isolation .....	1,966.31	997.29	598.13	256.32	2,568.44
Lethbridge, St. Michael's .....	962.31	332.00	538.78	3,976.15	76,234.81
Lloydminster, Municipal .....	200.81	332.00	538.78	1,165.14	40,682.69
Macleod, General .....	201.99	120.67	296.21	618.87	11,184.55
Mannville, Municipal .....	4,021.96	2,763.80	28.34	7,539.06	73,723.44
Medicine Hat, General .....	364.05	7.40	269.90	364.05	1,322.70
Medicine Hat, Isolation .....	122.28	80.00	630.72	424.08	8,677.54
Mundare, General .....	593.60	85.65	33.76	1,340.32	13,640.02
McLennan, Sacred Heart .....	213.00	49.22	83.66	364.58	7,425.20
Myram, Municipal .....	916.93	271.72	233.48	113.10	4,940.43
Nordegg, General .....	230.32	50.00	437.87	37.50	9,200.65
Peace River, Municipal .....	460.62	439.72	213.29	834.34	18,137.02
Pincher Creek, St. Vincent's .....	620.90	339.34	993.48	1,423.13	15,811.69
Provost, Municipal .....	794.12	374.51	342.25	718.19	8,464.28
Radway, St. Joseph's .....	1,012.42	547.13	324.94	2,86.70	17,106.24
Red Deer, Municipal .....	784.88	820.89	532.52	1,510.88	21,833.89
Rimbe, St. Paul's .....	120.26	558.12	737.20	2,447.22	10,702.16
Rocky Mountain House, R.M.H. .....	921.00	529.40	1,450.75	915.37	10,877.83
Smoky Lake, George McDougall .....	1,009.43	529.40	1,450.75	120.26	11,396.22
St. Paul, St. Theresa .....	1,232.58	2,100.50	324.47	2,274.41	18,841.35
Stettler, Municipal .....	350.95	398.51	218.19	2,307.69	25,508.30
Trochu, St. Mary's .....	183.73	320.38	96.00	2,012.40	10,571.08
Vegreville, General .....	211.44	303.96	182.48	6,091.25	40,156.25
Vermilion, Municipal .....	619.34	1,428.15	364.88	1,264.36	20,156.73
Viking, Municipal .....	634.54	1,418.30	183.25	800.43	13,738.97
Vilna, Our Lady's .....	328.60	865.00	396.50	1,567.82	10,775.78
Vulcan, Municipal .....	1,160.74	145.00	257.51	940.00	14,007.23
Wainwright, Municipal .....				109.02	2,521.39
Wayne, General .....				488.32	2,724.41
Westlock, Immaculata .....				62.80	13,946.82
Wetaskiwin, Community .....				1,893.39	11,682.63
Willingdon, General .....				70.10	24,172.17
				472.61	6,618.59
Total .....	\$ 87,040.58	\$ 93,113.26	\$ 59,460.69	\$ 308,927.73	\$3,275,688.79

## ALBERTA HOSPITALS, 1939

	Reserves		Capital Repayments		Other Charges	Total Cost
	Bad Debts	Other Reserves	Principal	Interest		
Athabasca, Municipal	966.69	6,936.03	720.00	3,323.62	400.41	26,498.25
Banff, Mineral Springs					5,768.63	46,431.23
Barrhead, Barrhead	1,992.80	1,395.55			119.76	19,888.81
Bassano, Municipal					36.72	21,746.50
Bentley, Community	400.00	1,450.00			101.68	9,992.40
Berwyn, Ratepayers' Association of Peace						10,687.95
Bonnyville, K. H. Prittie						8,854.84
Bonnyville, St. Louis						8,346.89
Calgary, General			2,668.56	7,374.82	6,517.46	257,580.31
Calgary, Isolation			889.51	2,458.28	780.23	29,443.83
Calgary, Holy Cross	60,000.00	15,493.90				315,307.35
Calgary, Junior Red Cross						26,686.86
Calgary, Salvation Army Grace				359.23		12,614.84
Camrose, St. Mary's						30,545.25
Canmore, Canmore						8,338.05
Cardston, Municipal	1,800.00	3,000.00				30,388.05
Carmangay, Little Bow						10,155.98
Castor, Rosary						14,360.48
Cereal, Esler						5,509.03
Clareholm, Municipal	81.50			56.66		13,638.74
Cold Lake, John Nell						11,647.83
Coleman, Miners' Union		1,122.50			1,467.15	13,036.43
Consort, Municipal			1,848.96		1,676.00	10,754.38
Coronation, General						9,331.45
Daysland, Providence						16,660.85
Desmarais, St. Martin's	3,500.00	17,756.29		840.82		4,551.25
Diabury, General						8,784.04
Drumheller, Municipal			28,000.00	794.46	4,176.03	102,919.59
Edmonton, Beulah Home			1,000.00		530.98	11,639.45
Edmonton, General						202,579.57
Edmonton, Misericordia				8,697.58		181,115.46
Edmonton, Royal Alexandra				12,120.00		434,205.39
Edmonton, Isolation						76,944.18
Edmonton, St. Joseph's	87,100.00					29,363.71
Edmonton, University	1,001.86		9,500.00			501,933.39
Edson, St. John's	1,317.09	800.00	1,250.00			25,112.98
Elk Point, Municipal	2,415.21					24,325.16
Empress, Cottage	150.00	1,560.00		660.86		11,831.44
Fairview, Community						9,755.34
Fort McMurray, St. Gabriel's					544.78	11,140.48
Fort Vermilion, St. Theresa						4,273.36
Galahad, St. Joseph's					203.98	10,493.06

Grande Prairie, Municipal	34.50	7,400.40	2,000.00	3,746.98	397.68	41,826.13
Hanna, Municipal				1,551.06		29,974.80
Hardisty, St. Anne's				223.12		16,627.22
High Prairie, Providence	3,228.10	1,518.82	62.00	1,697.38		17,226.66
High River, Municipal	862.25	1,391.50				43,902.47
Innisfail, Municipal	1,350.00	416.20				32,083.88
Islay, Municipal				652.14		11,714.52
Jasper, Seton						10,313.70
Killam, General		2,435.71			4,310.46	8,769.01
Lacombe and District, Community						24,138.87
Lac La Biche, St. Catherine's		2,100.00				9,995.60
Lamont, Public	15,000.00	969.48				85,757.47
Lethbridge, Gait	11,000.00					107,352.13
Lethbridge, Isolation			302.43			3,470.87
Lethbridge, St. Michael's	13,011.21	12,308.75			11,735.54	113,290.31
Lloydminster, Municipal	1,302.00	3,413.40			2,500.26	47,898.35
Macleod, General	790.00	873.53	1,000.00		348.73	17,521.42
Mannville, Municipal	19,067.47	5,079.25				13,196.81
Medicine Hat, General						97,870.16
Medicine Hat, Isolation	320.40		1,000.00	1,089.40	1,370.21	1,322.70
Mundare, General						12,457.55
McLennan, Sacred Heart	553.68		100.00		3,771.59	13,640.02
Myrnam, Municipal						11,850.47
Nordegg, General						4,940.43
Olds, General	818.26	200.00			318.75	10,537.66
Peace River, Municipal	2,539.64	3,112.23			389.25	24,178.14
Pincher Creek, St. Vincent's			2,246.40	1,318.45	1,815.45	8,464.28
Provost, Municipal						21,191.99
Radway, St. Joseph's	2,100.00	1,410.00			1,574.39	20,616.24
Red Deer, Municipal	1,737.50	4,322.90	1,000.00	907.00	84.12	29,468.68
Rimbey, St. Paul's						12,693.28
Rocky Mountain House, R.M.H.						10,877.83
Smoky Lake, George McDougall						11,396.22
St. Paul, St. Theresa				4,090.27		22,931.62
Stettler, Municipal	1,700.00		*3,269.11	3,464.08		33,941.49
Trochu, St. Mary's	200.00	700.00		844.75		12,315.83
Vegreville, General	7,200.00	2,920.00				50,276.25
Vermilion, Municipal	494.41	1,116.48			107.52	21,875.14
Viking, Municipal	1,200.00	550.00				15,488.97
Vilna, Our Lady's						10,775.78
Vulcan, Municipal	800.00	2,737.55			15.25	19,069.78
Wainwright, Municipal	5,000.00	1,361.78				24,938.91
Wayne, General	186.50	1,010.33			561.90	15,705.55
Westlock, Immaculata			2,982.50	1,307.50		15,972.63
Wetaskiwin, Community						24,479.00
Willington, General					2,426.90	9,180.74
<b>Total</b>	<b>\$ 251,356.32</b>	<b>\$ 106,862.58</b>	<b>\$ 65,977.47</b>	<b>\$ 54,714.38</b>	<b>\$ 59,332.47</b>	<b>\$3,823,932.01</b>

## DEPARTMENT OF PUBLIC HEALTH

## REVENUE OF ALBERTA HOSPITALS, 1939

	Grants		Patients' Fees	Donations, Cash and Service	Tax Requisitions	Sundry Earnings	Total
	Alberta	Others					
Athabasca, Municipal	\$ 2,730.15		\$ 7,870.34		\$ 10,332.07	\$ 1,582.08	\$ 22,514.64
Banff, Mineral Springs	4,670.00		31,674.59			3,822.25	40,166.84
Barrhead, Barrhead	3,830.40		19,870.00				23,700.40
Bassan, Municipal	2,416.05		8,884.94		6,966.00	2,511.25	20,778.24
Bentley, Community	1,209.60		8,836.12	\$ 618.57		370.30	11,034.59
Berwyn, Ratepayers' Association of Peace	1,055.25		6,430.02	23.65	4,925.00	6.80	12,440.72
Bonnyville, K. H. Prittie	1,324.80		6,176.35				7,501.15
Bonnyville, St. Louis	2,120.40	\$ 320.00	8,095.50	4,555.40			15,001.30
Calgary, General	29,335.95		177,077.28				257,580.31
Calgary, Isolation	3,424.50		548.35			*51,167.08	29,443.83
Calgary, Holy Cross	37,689.75	3,200.00	290,035.56	26,762.22		125,470.98	358,687.53
Calgary, Junior Red Cross	19,671.15	862.50		11,082.36		1,922.13	33,538.14
Calgary, Salvation Army Grace	3,364.20	750.00	7,717.48			3,042.68	14,874.36
Camrose, St. Mary's	4,347.90		27,615.75	3,095.00			35,058.65
Canmore, Canmore	889.50					\$7,620.55	8,510.05
Cardston, Municipal	4,785.90		13,137.68		12,380.34	2,188.23	32,492.15
Carmanagay, Little Bow	1,901.25		5,892.85	220.17	3,652.47	114.12	11,780.86
Castor, Rosary	1,519.65		8,378.15	2,282.41			12,380.21
Cereal, Esler	968.40	721.00	4,782.95	420.00		63.42	6,955.77
Clareholm, Municipal	2,213.10		4,456.50		11,736.27	1,699.00	20,104.87
Cold Lake, John Nell	1,696.95	1,520.90	7,454.00				10,671.85
Coleman, Miners' Union	1,288.10	100.00	679.84			\$11,251.67	13,319.61
Consort, Municipal	2,065.05	1,173.00	7,115.40			88.50	16,170.01
Coronation, General	1,563.30		8,092.51	43.00	5,685.06	35.75	9,798.71
Daysland, Providence	1,226.70		9,985.00	3,300.00		\$2,705.00	17,216.70
Desmarais, St. Martin's	573.00	2,460.40					3,033.40
Didsbury, General	1,380.60	1,500.00	7,309.90				10,190.50
Drumheller, Municipal	11,260.35		53,517.28		37,090.64	3,131.08	104,999.35
Edmonton, Beulah Home	1,937.70	1,350.00	4,210.15	2,844.65		1,163.49	11,505.99
Edmonton, General	10,338.75	6,000.00	193,843.91	16,140.00		2,716.07	229,038.73
Edmonton, Misericordia	24,065.10	17,177.69	152,297.00	23,000.00			216,539.79
Edmonton, Royal Alexandra	59,825.20		389,769.79				449,594.99
Edmonton, Isolation	5,801.40	125.00	57,785.52	8,530.00			63,586.92
Edmonton, St. Joseph's	1,906.85	38,847.59	36,566.82			754.88	47,228.67
Edmonton, University	68,488.85	2,500.00	390,475.45	5,040.00			498,566.77
Edson, St. John's	2,662.65		15,660.45		10,247.00	1,018.58	25,863.10
Elk Point, Municipal	4,153.95		10,479.17				12,913.69
Empress, Cottage	1,641.60		11,108.48	163.61			8,040.68
Fairview, Community	914.85	1,500.00	5,379.05	246.78			12,050.00
Fort McMurray, St. Gabriel's	643.05		5,361.38	5,845.57		360.00	5,436.85
Fort Vermilion, St. Theresa	674.10	2,222.00	1,220.75	960.00			12,618.92
Galahad, St. Joseph's	1,100.35	400.00	8,838.72	2,279.85			45,613.13
Grande Prairie, Municipal	5,426.55		13,426.10		25,054.66	1,705.82	45,613.13
Hanna, Municipal	3,613.50		12,461.11		21,432.00	2,469.92	39,976.53

Hardisty, St. Anne's .....	2,583.45	2,556.85	2,835.11	16,695.00	.....	17,975.41
High Prairie, Providence .....	2,703.65	18,623.26	3,504.70	16,695.00	2,083.94	24,831.61
High River, Municipal .....	5,176.35	16,979.20	.....	14,621.00	601.17	30,934.49
Innisfail, Municipal .....	5,124.60	13,673.65	.....	8,299.00	38.25	34,020.42
Islay, Municipal .....	1,158.30	2,536.50	.....	.....	.....	12,032.05
Jasper, Seton .....	1,100.70	11,991.20	3,149.78	.....	.....	18,741.68
Killam, General .....	1,007.10	5,789.50	2,201.34	.....	.....	8,997.94
Lacombe and District, Community .....	3,127.50	17,185.71	.....	.....	.....	20,313.21
Lac La Biche, St. Catherine's .....	1,568.70	7,523.64	2,032.00	.....	.....	11,124.34
Lamont, Public .....	8,206.60	61,664.92	115.25	.....	.....	76,680.61
Lethbridge, Galt .....	16,177.39	90,229.84	50.00	.....	.....	108,219.04
Lethbridge, Isolation .....	161.10	621.50	.....	.....	.....	3,532.87
Lethbridge, St. Michael's .....	12,631.50	89,332.01	190.05	.....	.....	131,851.20
Lloydminster, Municipal .....	5,318.55	36,814.50	.....	.....	.....	48,947.92
Macleod, General .....	1,535.10	6,769.59	.....	.....	.....	16,973.95
Mannville, Municipal .....	1,899.45	4,803.90	.....	.....	.....	13,474.14
Medicine Hat, General .....	11,699.00	69,064.38	.....	6,408.00	.....	94,130.97
Medicine Hat, Isolation .....	39.15	.....	.....	.....	.....	1,322.70
Mundare, General .....	2,087.55	9,088.85	3,057.50	.....	212.00	14,445.90
McLennan, Sacred Heart .....	2,335.05	14,572.59	3,160.00	.....	.....	21,592.39
Myrnam, Municipal .....	1,165.95	4,559.63	12.00	5,075.00	98.37	10,910.95
Nordegg, General .....	640.80	657.50	.....	.....	12,979.85	4,278.15
Olds, General .....	1,552.50	8,605.55	.....	.....	7.72	10,165.77
Peace River, Municipal .....	2,154.70	8,799.20	.....	11,262.65	487.04	22,703.59
Pincher Creek, St. Vincent's .....	1,770.30	9,986.38	346.00	.....	.....	12,102.68
Provost, Municipal .....	2,657.85	7,875.43	.....	12,720.00	140.00	23,396.28
Radway, St. Joseph's .....	2,783.70	16,456.50	3,460.00	.....	700.00	23,400.20
Red Deer, Municipal .....	3,721.95	19,979.95	.....	1,482.21	3,562.07	29,139.36
Rimbey, St. Paul's .....	2,236.95	10,060.40	1,456.66	.....	.....	13,754.01
Rocky Mountain House, R.M.H. .....	1,807.25	5,960.28	55.00	.....	4.35	7,826.88
Smoky Lake, George McDougall .....	1,210.95	4,045.25	.....	.....	.....	11,579.48
St. Paul, St. Theresa .....	3,172.95	13,670.22	5,700.00	.....	.....	25,389.17
Stettler, Municipal .....	4,447.35	14,243.50	.....	10,566.67	1,862.84	31,120.36
Trochu, St. Mary's .....	1,266.75	6,816.00	4,192.25	.....	.....	12,425.00
Vegreville, General .....	8,396.55	54,120.00	7,750.00	.....	54.00	70,320.55
Vermillion, Municipal .....	4,471.65	10,235.96	.....	10,651.00	1,059.49	26,418.10
Viking, Municipal .....	2,319.30	5,446.07	.....	7,900.00	276.83	15,942.20
Vilna, Our Lady's .....	1,206.00	4,548.48	48.60	.....	.....	11,331.98
Vulcan, Municipal .....	1,875.75	5,249.00	.....	15,061.05	1,729.04	23,914.84
Wainwright, Municipal .....	2,958.75	10,849.20	.....	7,629.84	631.93	22,069.72
Wayne, General .....	2,772.45	14,279.80	.....	.....	59.10	17,111.35
Westlock, Immaculata .....	3,127.50	15,335.00	1,920.00	.....	.....	21,332.50
Wetaskiwin, Community .....	4,482.00	25,114.50	2,798.30	.....	75.90	29,672.40
Willington, General .....	2,198.70	7,103.78	.....	.....	427.00	12,527.78
<b>Total .....</b>	<b>\$ 493,758.79</b>	<b>\$ 2,814,747.36</b>	<b>\$ 170,406.33</b>	<b>\$ 277,872.93</b>	<b>\$ 196,868.59</b>	<b>\$ 4,062,394.34</b>

\*Includes—Donation, \$5,000.00; Charge to mill rate, \$44,361.55 (deficit).

†Charge to mill rate, \$25,470.98.

‡Contracts.

§Incurables.



Fort Vermillion, St. Theresa	1.98	7	46.8	43.0	9.4	2.51
Galahad, St. Joseph's	2.15	5.6	39.5	22.6	17.8	2.65
Grande Prairie, Municipal	2.66	13.9	41.2	22.9	14.5	3.53
Grimshaw, Battle River		No Report			No Report	
Hanna, Municipal	3.22	14.9	33.9	21.4	22.3	4.98
Hardisty, St. Anne's	2.28	12.2	18.5	33.7	16.2	3.13
High Prairie, Providence	2.29	5.6	27.9	24.1	13.4	3.34
High River, Municipal	2.53	10.4	40.8	25.0	17.2	3.56
Innisfail, Municipal	2.14	10.7	40.6	22.7	19.4	3.01
Islay, Municipal	3.68	14.8	33.2	22.7	24.5	4.68
Jasper, Seton	3.49	3.1	19.3	44.8	27.4	7.66
Killam, General	3.49	3.5	49.4	14.8	13.8	3.87
Lacombe and District, Community	2.52	10.1	40.3	20.6	23.7	2.95
Lac La Biche, St. Catherine's	2.08	1.5	23.9	20.7	23.5	2.31
Lamont, Public	3.74	15.0	28.6	22.5	23.5	4.18
Lethbridge, Galt	2.68	11.0	37.0	27.9	18.9	3.04
Lethbridge, Isolation	7.17	4.6	46.6	26.0	12.7	9.86
Lethbridge, St. Michael's	2.71	14.9	32.6	34.0	13.2	4.69
Lloydminster, Municipal	1.97	7.8	39.0	28.9	17.7	2.39
Macleod, General	1.55	6.3	36.3	34.1	16.1	1.59
Mannville, Municipal	2.40	8.3	37.7	25.2	23.3	2.90
Marwayne, Nursing Home		No Report			No Report	
Medicine Hat, General	2.80	14.8	31.9	23.3	19.7	3.57
Medicine Hat, Isolation	1.79	1.7	39.4	21.8	9.5	1.79
Mundare, General	1.87	4.6	39.9	22.7	27.8	3.11
McLennan, Sacred Heart	2.69	9.8	23.9	30.9	25.5	4.26
Myram, Municipal	2.95	19.1	40.3	18.8	16.9	4.33
Nanton, General		No Report			No Report	
Nordegg, General	3.47	1.2	41.0	44.7	10.8	3.00
Olds, General	2.54	7.0	44.4	27.0	12.5	2.80
Peace River, Municipal	3.78	13.8	37.8	19.2	21.3	4.74
Pincher Creek, St. Vincent's	2.13	3.1	44.4	18.7	25.3	3.05
Provost, Municipal	2.50	18.2	31.8	25.3	17.7	3.70
Radway, St. Joseph's	2.77	10.0	32.0	24.8	19.9	3.78
Red Deer, Municipal	2.64	11.9	42.8	19.2	19.1	3.52
Rimbe, St. Paul's	2.15	11.6	27.2	19.8	18.4	2.77
Rocky Mountain House, R.M.H.	2.34	5.3	47.9	18.8	19.5	1.68
Smoky Lake, George McDougall	4.23	5.3	59.2	14.5	20.0	4.30
Spirit River, Community		No Report			No Report	
St. Paul, St. Theresa	1.95	9.8	33.0	25.1	19.9	2.63
Stettler, Municipal	2.33	12.6	43.8	19.4	15.1	2.84
Trochu, St. Mary's	3.75	6.3	34.7	19.9	21.1	4.41
Vegreville, General	2.15	4.7	31.1	30.8	18.1	3.77
Vermillion, Municipal	2.03	14.9	33.3	23.6	21.8	2.66
Viking, Municipal	2.36	11.5	38.9	23.3	20.5	2.74
Vilna, Our Lady's	5.07	9.7	45.3	11.2	19.2	5.33
Vulcan, Municipal	3.37	12.6	35.8	22.9	23.7	5.75
Wainwright, Municipal	2.83	12.2	37.8	23.4	13.7	3.42
Wayne, General	2.26	9.7	30.8	24.2	15.8	2.78
Westlock, Immaculata	1.67	3.2	33.7	23.8	25.2	3.05
Wetaskiwin, Community	2.36	8.3	46.6	21.6	15.6	2.90
Willington, General	1.35	8.8	26.4	30.8	26.8	2.56
Average	\$ 2.83	10.6	38.1	23.6	18.3	3.51



## Division of Social Hygiene

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

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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

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

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

	Males			Females			Totals
	0-12 yrs.	12-20 yrs.	Over 20 yrs.	0-12 yrs.	12-20 yrs.	Over 20 yrs.	
Carried forward from 1938:							
Syphilis .....	1		39		1	9	50
Gonorrhoea .....			5				5
							55
New cases admitted in 1939:							
Syphilis .....			16	1	1	5	23
Gonorrhoea .....			23			1	24
Chancroid .....			1				1
Non-Venereal .....			28		1	1	30
Total cases treated .....	1		112	1	3	16	133
	Males—113			Females—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

	Males			Females			Totals
	0-12 yrs.	12-20 yrs.	Over 20 yrs.	0-12 yrs.	12-20 yrs.	Over 20 yrs.	
Carried forward from 1938:							
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
	Males—27			Females—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

	Males			Females			Totals
	0-12 yrs.	12-20 yrs.	Over 20 yrs.	0-12 yrs.	12-20 yrs.	Over 20 yrs.	
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:	Females .....						187
	Males .....						1064
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 .....	7	3	10
New cases in 1939 .....	13	26	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 .....	470	840	1	451	1762
Female .....	223	287	.....	432	942
Totals .....	693	1127	1	883	2704

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

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

Place.	Syphilis.	Gonorrh.	Totals.	Place.	Syphilis.	Gonorrh.	Totals.
Acme	1		1	Kinuso	1		1
Arrowwood		1	1	Lac La Biche	11	1	12
Athabasca	1	1	2	Lacombe	3		3
Banff	1	2	3	Lake Louise		1	1
Beaverlodge	2	5	7	Lamont	3	1	4
Bellevue	9	3	12	Legal	1	7	8
Bentley	2	2	4	Lloydminster		1	1
Berwyn	1		1	Macleod	5	19	24
Big Valley	1	2	3	Magrath		1	1
Black Diamond	5	11	16	Marwayne	1	4	5
Blairmore	10	1	11	Milk River	5		5
Bowden	2	5	7	Millet		1	1
Brooks	3	1	4	Mirror	2	1	3
Cadomin	1		1	Mountain Park	3	4	7
Camrose	5	2	7	McLennan	3	1	4
Canmore	1		1	Notikewin	5		5
Carbon	2		2	Olds	7	4	11
Cardston	4	5	9	Peace River	1		1
Cereal	1	3	4	Provost	3		3
Claresholm	3	6	9	Red Deer	7	5	12
Coaldale	1	3	4	Redcliff	2		2
Cold Lake	1		1	Rocky Mtn. House	1		1
Coleman	21	14	35	Ryley		1	1
Consort	2		2	Sedgewick	1		1
Coronation		2	2	Sexsmith	1		1
Delia	2		2	Spirit River	3		3
Didsbury	1		1	Standard	1		1
Drumheller	16	8	24	Stettler	2		2
East Coulee	1	1	2	Stony Plain	1	4	5
Eckville	2		2	St. Paul	5	7	12
Egerton		2	2	Strathmore	2	2	4
Edson	4		4	Tomahawk	1		1
Elk Point	3		3	Vegreville	3	1	4
Elnora	1		1	Vermillion	1		1
Evansburg	1		1	Viking	1		1
Exshaw	1		1	Wainwright	1		1
Fairview	1		1	Westlock	1		1
Fawcett	1		1	Wetaskiwin	1	3	4
Foremost	2	2	4	Willingdon	1		1
Fort Chipewyan	1		1	Fort Sask. Gaol	8	6	14
Fort McMurray	3		3	Lethbridge Gaol	9	7	16
Fort Saskatchewan	1		1				
Grimshaw	1		1	Edmonton	339	210	549
Hanna	1	3	4	Calgary	569	448	1017
High Ridge	1		1	Lethbridge	137	44	181
High River	2	6	8	Medicine Hat	9	22	31
Holden	1		1	Mental Institutions	159		159
Innisfail	3	1	4				
Jasper	3		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.

1. Town of Grande Prairie, Certificate No. 415-39—Construction of Sewerage and Waterworks System, also a Sewage Disposal Plant. Estimated cost, \$50,442.00.
2. Town of Ponoka, Certificate No. 417-39—Construction of Sewerage and Waterworks System. Estimated cost, \$115,790.00.
3. City of Edmonton, Certificate No. 419-39—Sewer services and Catch Basin Construction. Estimated cost, \$12,000.00.
4. City of Edmonton, Certificate No. 420-39—Watermain replacements. Estimated cost, \$21,020.00.
5. City of Edmonton, Certificate No. 421-39—Sewer Construction. Estimated cost, \$24,968.00.
6. City of Drumheller, Certificate No. 424-39—Sewerage Construction. Estimated cost, \$18,380.00.
7. City of Calgary, Certificate No. 425-39—Sewerage Construction. Estimated cost, \$255.10.
8. 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.

1. Stettler Municipal Hospital, Certificate No. 416-39—Hospital alterations. Estimated cost, \$2,141.30.
2. Medicine Hat General Hospital, Certificate No. 418-39—Hospital alterations. Estimated cost, \$2,000.00.
3. Claresholm Municipal Hospital, Certificate No. 423-39—New hospital. Estimated cost, \$28,000.00.
4. Cardston Municipal Hospital, Certificate No. 426-39—Boiler room reconstruction. Estimated cost, \$2,708.00.
5. Red Deer Municipal Hospital, Certificate 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 Tests (confirmed)	
		Positive	Negative
Athabasca—Athabasca River .....	Yes	2	2
Bassano—Bow River .....	Yes	1	1
Bellevue—Connelly Creek .....	No	1	1
Blairmore—York Creek .....	No	1	1
Brooks—Irrigation Water .....	No	2	1
Camrose—Surface Reservoir and Wells .....	Yes	16	15
Cardston—Lees Creek .....	No	1	1
Carmangay—Infiltration Gallery .....	No	1	1
Claresholm—Willow Creek .....	No	5	4
Coleman—Nez Perce Creek .....	No	6	3
Gleichen—Wells .....	No	1	1
Grande Prairie—Wells .....	No	2	2
Lacombe—Wells .....	No	6	6
Macleod—Oldman River .....	Yes	4	3
Magrath—Wells .....	No	2	2
Medicine Hat—South Sask. River .....	Yes	15	15
Pincher Creek—Pincher Creek .....	No	1	1
Raymond—Surface Reservoir .....	Yes	4	2
Redcliffe—South Sask. River .....	No	5	5
Stettler—Wells .....	No	2	2
Taber—Oldman River .....	Yes	9	5
Turner Valley—Highwood River .....	Yes	8	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 fixtures 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
Number recommended for treatment .....	1,709
Number of children given treatment .....	1,204
Number of fillings (number of teeth) .....	1,371
Number of extractions (number of teeth) .....	1,998

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

## Mental Health Division

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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 Mental Hygiene Clinics and Eugenics Board.

Radio talks over CKUA were given during the 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.

#### TABULATED SUMMARY

##### A.—INSTITUTIONS—MOVEMENT OF PATIENTS

	On Books Jan. 1/39			Admissions 1939			Discharges 1939			Deaths 1939			On Books Dec. 31/39		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
	Oliver .....	769	.....	769	56	.....	56	23	.....	23	33	.....	33	769	.....
Ponoka .....	801	765	1566	362	252	614	242	299	541	41	41	82	880	677	1557
Red Deer .....	111	103	214	8	3	11	6	2	8	1	1	2	112	103	215
Claresholm .....	.....	97	97	.....	18	18	.....	14	14	.....	2	2	.....	99	99
Raymond .....	.....	.....	.....	.....	116	116	.....	11	11	.....	1	1	.....	104	104
Totals .....	1681	965	2646	426	389	815	271	326	597	75	45	120	1761	983	2744

##### ADMISSIONS—BROAD DIAGNOSTIC DIVISION

	Psychotic			Non-Psychotic			Mental Defectives			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
	Oliver .....	41	.....	41	13	.....	13	2	.....	2	56	.....
Ponoka .....	282	199	481	52	25	77	28	28	56	362	252	614
Red Deer .....	.....	.....	.....	.....	.....	.....	8	3	11	8	3	11
Claresholm .....	.....	18	18	.....	.....	.....	.....	.....	.....	.....	18	18
Raymond .....	.....	103	103	.....	.....	.....	.....	13	13	.....	116	116
Totals .....	323	320	643	65	25	90	38	44	82	426	389	815

##### B.—CLINIC SUMMARY

	1938			1939			Total New cases since 1929
	Clinics	New Cases	Follow- ups	Clinics	New cases	Follow- ups	
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
Drumheller .....	4	21	20	4	17	31	107
High River .....	6	16	11	5	25	13	64
Lamont .....	1	10	.....	4	34	1	44
Red Deer .....	.....	.....	.....	4	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

	Yearly Totals			Cumulative Totals		
	Male	Female	Totals	Male	Female	Totals
1929 .....	1	3	4	1	3	4
1930 .....	6	36	42	7	39	46
1931 .....	25	63	88	32	102	134
1932 .....	20	43	63	52	145	197
1933 .....	35	56	91	87	201	288
1934 .....	132	82	214	219	283	502
1935 .....	123	97	220	342	380	722
1936 .....	103	88	191	445	468	913
1937 .....	115	87	202	560	555	1115
1938 .....	84	84	168	644	639	1283
1939 .....	104	74	178	748	713	1461

OPERATIONS ONLY TO DECEMBER 31st, 1939

	Yearly Totals			Cumulative Totals		
	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*)

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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 half 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.

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

Place	1938			1939			Total New Cases Since 1929
	No. of Clinics	New Cases	Follow-ups Interviews	Case Load Total	No. of Clinics	New Cases	
Edmonton	41	57	136	193	42	85	417
Calgary	20	79	340	419	20	78	878
Lethbridge	11	49	64	113	10	43	100
Medicine Hat	4	54	42	96	4	81	108
Drumheller	4	21	20	41	4	17	48
High River	6	16	11	27	5	25	38
Lamont	1	10	.....	10	4	34	35
Red Deer	.....	.....	.....	.....	4	31	37
Other Clinics	10	120	19	139	2	9	17
Total	97	406	632	1038	95	403	1678

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.

TABLE 2  
AGE AND SEX CLASSIFICATION OF NEW CLINIC CASES, 1939

Age Group	Edmonton			Calgary			Lethbridge			Medicine Hat			Other Clinics			Totals			Percentages		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
0-4	4	1	5	3	1	4	1	2	3	1	1	2	2	6	8	11	11	22	5.4	5.5	5.5
5-9	2	6	8	6	9	15	1	1	2	19	10	29	19	11	30	47	37	84	23.1	18.5	20.8
10-14	13	13	26	8	18	26	.....	.....	.....	14	10	24	23	15	38	58	56	114	28.6	28.0	28.3
15-19	5	11	16	3	14	17	3	2	5	5	2	7	12	11	23	28	40	68	13.8	20.0	16.8
20-24	2	6	8	1	1	2	2	1	3	1	.....	1	1	3	4	7	11	18	3.4	5.5	4.5
25-29	3	5	8	3	3	6	3	2	5	1	1	2	2	2	4	12	13	25	5.9	6.5	6.2
30-34	3	3	6	.....	2	2	1	3	4	1	2	3	2	1	3	6	11	17	3.0	5.5	4.2
35-39	2	2	4	2	1	3	5	3	8	1	2	3	1	1	3	10	8	18	4.9	4.0	4.5
40-44	2	2	4	2	1	3	.....	.....	.....	.....	.....	1	1	1	1	6	2	8	3.0	1.0	2.0
45-49	1	1	2	1	2	3	3	2	5	.....	.....	.....	.....	.....	.....	6	3	9	3.0	1.5	2.2
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	1	8	1	1	1	11	7	18	5.4	3.5	4.5
Unknown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	2	0.5	0.5	0.5
Totals	37	48	85	27	51	78	23	20	43	51	30	81	65	51	116	203	200	403	100%		

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

I.Q. Range	Edmonton			Calgary			Lethbridge			Medicine Hat			Other Clinics			Total				
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.		
0-25	1	2	3	1	...	1	1	...	1	1	...	1	1	...	1	1	...	2	3	8
26-50	6	10	16	5	2	7	...	3	3	...	1	...	7	9	16	19	24	43		
51-75	10	16	26	3	10	13	...	3	3	...	10	7	17	20	13	33	46	46	92	
Totals	17	28	45	9	12	21	4	3	7	12	7	19	28	23	51	70	73	143		

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 corresponding 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 delinquency	11	2	3	1	1	18
Sex problem	7	5	1	1	1	14
Psychoneurotic reaction, Instability	.....	.....	.....	1	1	2
Epilepsy	.....	2	.....	1	4	7
General Retardation, no other specific problem	23	10	3	15	34	85
Physical Disability	3	2	.....	1	5	11
Cerebral Diplegia	.....	.....	.....	.....	2	2
Psychosis	1	.....	.....	.....	.....	1
Deaf and Dumb	.....	.....	.....	.....	2	2
Cretinism	.....	.....	.....	.....	1	1
Totals	45	21	7	19	51	143

TABLE 5a  
CLASSIFICATION OF NEW CLINIC CASES, 1939—PRE-SCHOOL GROUP (0 TO 6 YRS.)

Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
Examination and report	1	5	1	10	5	22
Mental Deficiency	4	3	2	2	6	17
Epilepsy	.....	.....	.....	1	.....	1
Diplegia (Spastic Cerebral)	.....	.....	.....	.....	2	2
Other conditions	1	4	.....	.....	2	7
Totals	6	12	3	13	16	50

TABLE 5b  
CLASSIFICATION OF NEW CLINIC CASES, 1939—SCHOOL AGE GROUP (7 TO 18 YRS.)

Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Total
Behaviour problem with deficiency (I.Q. over 75)	7	11	1	.....	13	32
Mental Deficiency without other problems	13	7	2	11	24	57
Mental Deficiency with behaviour problems, including theft	10	1	1	1	8	21
Mental Deficiency with sex delinquency	3	4	.....	.....	.....	7
Mental Deficiency with physical defect	1	.....	.....	2	1	4
Backward in school without deficiency (I.Q. over 75)	1	4	.....	25	17	47
Delinquency without mental deficiency	3	14	.....	.....	.....	17
Epilepsy	.....	2	.....	3	8	13
Examination and report, no problem	5	6	.....	5	8	24
Psychosis and Psychopathic Personality	1	.....	.....	.....	.....	1
Other conditions	2	.....	2	2	2	8
Totals	46	49	6	49	81	231

TABLE 5c  
CLASSIFICATION OF NEW CLINIC CASES, 1939—ADULT GROUP (OVER 18 YEARS)

Nature of Case	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
Mental Deficiency with behaviour problem.....	2	2	1	.....	3	8
Mental Deficiency with sex delinquency.....	4	3	1	.....	.....	8
Psychneurosis and Psychopathic Personality.....	4	1	6	6	2	19
Psychosis (other than G.P.I.).....	7	5	15	3	4	34
Arteriosclerosis, Disseminate Sclerosis.....	.....	.....	.....	1	1	2
Epilepsy.....	1	2	3	2	4	12
Delinquency with Mental Deficiency.....	3	.....	.....	.....	.....	3
Mental Deficiency without other problems.....	5	.....	.....	.....	1	6
Other conditions.....	7	4	8	7	4	30
Totals.....	33	17	34	19	19	122
Table 5a.....	6	12	3	13	16	50
Table 5b.....	46	49	6	49	81	231
Grand Totals.....	85	78	43	81	116	403

TABLE 6  
AGENCIES REFERRING NEW CLINIC CASES, 1939

Agency	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
School officials and teachers.....	4	15	.....	51	12	82
Doctors, including Medical Health Officers and Clinics.....	15	6	25	27	19	91
Provincial Child Welfare, Children's Aid, and Juvenile Court.....	35	29	.....	.....	1	65
Police, Provincial Gaols, Courts Homes, as Mountview, Beulah, Kiwanis, Y.W.C.A., and Salvation Army.....	5	12	11	.....	.....	17
Parents, Relatives, Friends.....	14	10	3	2	17	46
Relief Department.....	1	.....	.....	.....	.....	1
Provincial Health Department other than 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
Totals.....	85	78	43	81	116	403

TABLE 7  
MAJOR RECOMMENDATIONS MADE IN REGARD TO NEW CLINIC CASES, 1939

Major Recommendations	Edmonton	Calgary	Lethbridge	Medicine Hat	Other Clinics	Totals
Admission to Provincial Mental Hospital or Provincial Mental Institute.....	11	5	14	1	3	34
Admission to Provincial Training School or other similar institutions.....	8	4	2	2	9	25
Treatment by own doctor or other clinics.....	2	1	2	15	10	30
Treatment given, including 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.....	2	6	2	6	5	21
Modified school program, special class or vocational training.....	8	9	.....	25	32	74
More social contacts, wider interests, re- 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.....	15	4	1	.....	.....	20
Other recommendations, discussion with parent or patient.....	5	17	11	1	16	50
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 also. The physician attending usually went from the Oliver 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 .....	1,098	X-rays .....	111
Treatments .....	504	Superior dentures (full) .....	23
Prophylaxis .....	346	Inferior dentures (full) .....	20
Extractions:		Superior dentures (partial) .....	9
17 abscessed.		Inferior dentures (partial) .....	2
1 General Anaesthetic .....	1,316	Repairs (Superior plates) .....	35
Fillings .....	257	(Inferior plates) .....	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:

Chests .....	416	Femurs .....	5
Spine .....	80	Knees .....	15
Heart and Vessels .....	10	Ankles .....	17
Bladder .....	1	Foot .....	10
Kidney .....	2	Skull .....	23
Abdomen .....	6	Dentals .....	70
Pelvis .....	16	Jaws .....	12
Shoulder .....	17	Nose .....	2
Arms .....	14	Ribs .....	6
Elbows .....	8	Fleuroscope .....	8
Wrists .....	15	Barium Series .....	7
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 hospitals. 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 the 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 occurred. A summary of the work done is given herewith:

Operations	Male	Female	Total
Salpingectomy .....		19	19
Salpingectomy and Appendectomy .....		11	11
Vasectomy .....	9		9
Partial Mastoid .....	1		1
Circumcision .....	1		1
Orchidectomy .....	3		3
Tonsillectomy .....	1		1
Gastrostomy .....		1	1
Herniotomy .....	1	1	2
Haemorrhoidectomy .....		1	1
	16	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 post-graduate 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 management 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. Mc-

Donald'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 raspberries, 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 active 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 internship 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.

## DEPARTMENT OF PUBLIC HEALTH

TABLE No. 1  
MOVEMENT OF PATIENT POPULATION DURING 1939

	Male	Female	Total	Male	Female	Total
In residence Dec. 31, 1938:				792	763	1555
On leave or otherwise absent .....				9	2	11
				<u>801</u>	<u>765</u>	<u>1566</u>
Admissions:						
First admissions .....	69	36	105			
(a) Voluntary .....						
(b) Certificates .....	38	51	89			
(c) Warrant .....	166	93	259			
(d) M.D. Act .....	8	5	13			
Re-admissions:						
(a) Voluntary .....	14	12	26			
(b) Certificates .....	1	12	13			
(c) Warrant .....	56	34	90			
(d) M.D. Act .....	2	4	6			
Transfers .....	8	5	13			
				<u>362</u>	<u>252</u>	<u>614</u>
				<u>1163</u>	<u>1017</u>	<u>2180</u>
Separations:						
Discharges:						
(a) As recovered .....	63	62	125			
(b) As improved .....	77	68	145			
(c) As unimproved .....	14	14	28			
(d) As without psychosis .....	57	30	87			
Transfers .....	20	121	141			
Deaths .....	41	41	82			
On leave or otherwise absent .....	11	4	15			
				<u>283</u>	<u>340</u>	<u>623</u>
In residence Dec. 31, 1939 .....				<u>880</u>	<u>677</u>	<u>1557</u>

TABLE No. 2  
SHOWING THE PSYCHOSIS OF THOSE ADMITTED DURING 1939

Psychoses	Male	Female	Total
01. Psychoses with syphilitic meningoencephalitis (general paresis) .....	11	5	16
02. Psychoses with other forms of syphilis of the central nervous system:			
021. Meningo-vascular type .....	7	.....	7
022. With intracranial gumma .....	.....	.....	.....
023. With tabes dorsalis .....	1	.....	1
024. With tabo-paresis .....	1	.....	1
03. Psychoses with epidemic encephalitis .....	1	1	2
04. Psychoses with other infectious diseases .....	.....	.....	.....
05. Alcoholic psychoses:			
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 .....	.....	.....	.....
07. Traumatic psychoses:			
071. Traumatic delirium .....	.....	.....	.....
072. Post-traumatic personality disorder .....	1	.....	1
073. Traumatic epilepsy .....	1	.....	1
08. Psychoses with cerebral arteriosclerosis .....	26	16	42
09. Psychoses with other disturbances of circulation:			
091. With cerebral embolism .....	.....	.....	.....
092. With cardio-renal disease .....	1	.....	1
10. Psychoses with convulsive disorders:			
101. Epileptic deterioration .....	3	1	4
102. Epileptic clouded states .....	3	.....	3
11. Senile psychoses:			
111. Simple deterioration .....	7	5	12
112. Presbyphrenic type .....	.....	1	1
113. Delirious and confused .....	2	.....	2
114. Depressed and agitated .....	3	3	6
115. Paranoid types .....	6	1	7
12. Involutional psychoses:			
121. Melancholia .....	2	9	11
13. Psychoses due to other metabolic, etc., diseases:			
131. With diabetes mellitus .....	1	.....	1
14. Psychoses due to new growth:			
141. With intracranial neoplasms .....	2	.....	2
15. Psychoses associated with organic changes of the nervous system:			
154. With other brain or nervous diseases .....	3	.....	3
16. Psychoneuroses:			
161. Hysteria .....	.....	1	1
162. Psychasthenia .....	1	1	2
163. Neurasthenia .....	2	7	9
164. Hypochondriasis .....	.....	1	1
165. Reactive depression .....	.....	3	3
17. Manic-depressive psychoses:			
171. Manic type .....	12	25	37
172. Depressive type .....	27	26	53
18. Dementia Praecox (Schizophrenia):			
181. Simple type .....	.....	1	1
182. Hebephrenic type .....	1	.....	1
183. Catatonic type .....	96	68	164
184. Paranoid type .....	35	16	51
185. Undefined .....	2	1	3
19. Paranoia and paranoid conditions:			
191. Paranoia .....	1	.....	1
192. Paranoid conditions .....	9	4	13
20. Psychoses with psychopathic personality .....	1	2	3
21. Psychoses with mental deficiency .....	7	11	18
22. Undiagnosed psychoses .....	3	.....	3
23. Without psychoses:			
231. Epilepsy .....	6	1	7
232. Alcoholism .....	7	.....	7
233. Drug addiction .....	1	.....	1
234. Mental deficiency .....	28	28	56
235. Epidemic encephalitis .....	.....	3	3
236. Psychopathic personality .....	.....	1	1
237. Cerebral arteriosclerosis .....	.....	1	1
238. Thyroid and involutional disorder .....	.....	1	1
239. Early schizophrenia .....	1	1	2
240. Reactive depression .....	1	.....	1
241. Temper tantrums .....	.....	1	1
242. Tabes dorsalis .....	8	3	11
243. Neuro-syphilis .....	21	1	22
244. Cerebral syphilis .....	1	1	2
Total .....	362	252	614

TABLE No. 3  
CIVIL STATE OF PATIENTS ADMITTED DURING 1939 WITH REFERENCE TO PRINCIPAL PSYCHOSES

	Single		Married		Widowed		Separated		Divorced		Total	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
01. Psychoses with syphilitic meningo-encephalitis (general paresis)	3	1	4	6	3	9	1	1	1	2	11	5
02. Psychoses with other forms of syphilis of the central nervous system:												
021. Meningo-vascular type	4		4	3		3					7	7
022. With intracranial gumma				1		1					1	1
023. With tabes dorsalis	1		1								1	1
024. With tabo-paresis	1		1								1	1
03. Psychoses with epidemic encephalitis	1		1								1	2
04. Psychoses with other infectious diseases												
05. Alcoholic psychoses:												
051. Pathological intoxication												
052. Delirium tremens								1	1		1	1
053. Korsakow's psychosis												
054. Acute hallucinosis				1		1					1	1
055. Chronic alcoholism				1		1					1	1
06. Psychoses due to drugs or other exogenous poisons												
07. Traumatic psychoses:												
071. Traumatic delirium				1		1					1	1
072. Post-traumatic personality disorder												
073. Traumatic epilepsy	1		1								1	1
08. Psychoses with cerebral arteriosclerosis	11		11	9	12	21	6	3	9	1	26	16
09. Psychoses with other disturbances of circulation:												
091. With cerebral embolism				1		1					1	1
092. With cardio-renal disease												
10. Psychoses with convulsive disorders:												
101. Epileptic deterioration	2		2	1	1	2					3	1
102. Epileptic clouded states	2		2				1	1	1		3	3
11. Senile psychoses:												
111. Simple deterioration	2		2	4	3	7	1	2	3		7	5
112. Presbyphrenic type				1	1	1					1	1
113. Delirious and confused	2		2	2	2	2	1	1			2	2
114. Depressed and agitated	2		2	3	3	3	1	1			3	3
115. Paranoid types	2		2	1	1	1	2	1	1		6	1
12. Involutional psychoses:												
121. Melancholia	1		1	1	9	10					2	9
13. Psychoses due to other metabolic, etc., diseases:												
131. With diabetes mellitus	1		1								1	1
14. Psychoses due to new growth:												
141. With intracranial neoplasms	1		1	1	1	1					2	2
15. Psychoses associated with organic changes of the nervous system:												
154. With other brain or nervous disease	1		1				2	2	2		3	3



## DEPARTMENT OF PUBLIC HEALTH

TABLE No. 4  
AGES OF PATIENTS ADMITTED DURING 1939

Ages	First Admissions			Re-admissions			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 15 years	3	3	6	7	2	9	16	17	33
15 to 19 years	9	15	24	10	8	18	35	28	63
20 to 24 "	25	20	45	10	8	18	38	26	64
25 to 29 "	28	18	46	11	12	23	34	38	72
30 to 34 "	23	26	49	11	9	20	56	34	90
35 to 39 "	45	25	70	7	4	11	23	17	40
40 to 44 "	16	13	29	8	11	19	36	29	65
45 to 49 "	28	18	46	6	2	8	41	12	53
50 to 54 "	35	10	45	5	4	9	23	21	44
55 to 59 "	18	17	35	2	3	5	19	12	31
60 to 64 "	17	9	26	3	3	6	18	6	24
65 to 69 "	15	3	18	1	1	2	20	9	29
70 and over	20	8	28	1	1	2	20	9	29
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	2	Hungary	5	1	6
England	36	24	60	Holland	1	1	2
Scotland	12	7	19	Italy	2	3	5
Ireland	8	2	10	Jugo-Slavia	2	1	3
Wales	1	1	2	Lapland	1	1	2
Other British Possessions	1	1	2	Lithuania	1	1	2
U.S.A.	43	24	67	Norway	8	3	11
Austria	15	5	20	Poland	20	14	34
Belgium	1	1	2	Rumania	3	3	6
Bulgaria	1	1	2	Russia	6	6	12
China	7	1	8	Sweden	8	2	10
Czecho-Slovakia	6	3	9	Switzerland	1	2	3
Denmark	2	2	4	Ukrainia	3	3	6
Finland	3	4	7	Total	362	252	614
France	3	3	6				

TABLE No. 6  
PLACE OF RESIDENCE OF PATIENTS ADMITTED DURING 1939

Place of Residence	Male	Female	Total	Place of Residence	Male	Female	Total
Abee	1	2	3	Carmangay	1	1	2
Airdrie	1	1	2	Carrot Creek	1	1	2
Aklavik	1	1	2	Castor	1	2	3
Alberta Beach	1	1	2	Champion	1	1	2
Aldersyde	1	1	2	Chauvin	1	1	2
Alix	1	1	2	Chinook	2	2	4
Alliance	1	1	2	Chisholm	1	1	2
Amisk	1	1	2	Clairmont	1	1	2
Andrew	1	1	2	Claresholm	2	2	4
Ardley	1	1	2	Clive	2	2	4
Athabasca	2	2	4	Cochrane	1	1	2
Banff	1	1	2	Cold Lake	1	1	2
Barons	1	2	3	Condor	1	1	2
Barrhead	1	1	2	Consort	1	1	2
Barrymoor	1	1	2	Cowley	2	2	4
Beiseker	1	1	2	Cremona	1	1	2
Bellevue	2	2	4	Crossfield	1	1	2
Bentley	1	1	2	Dakin	1	1	2
Bezanson	1	1	2	Daysland	2	1	3
Big Valley	1	1	2	Derwent	1	1	2
Bingley	1	1	2	De Winton	1	1	2
Bittern Lake	1	1	2	Didsbury	2	2	4
Blackfalds	1	1	2	Dinant	1	1	2
Blackie	1	1	2	Donalda	3	1	4
Blairmore	1	1	2	Doris	1	1	2
Bluffton	1	1	2	Downing	1	1	2
Bonnyville	1	1	2	Drumbeller	3	2	5
Botha	1	1	2	Dunmore	1	1	2
Bowden	1	2	3	Edmonton	48	44	92
Bow Island	1	1	2	East Coulee	1	1	2
Brightview	2	2	4	Eastgate	1	1	2
Brocket	1	1	2	Edgerton	1	1	2
Brosseau	1	1	2	Edson	1	1	2
Brownvale	1	1	2	Elder Flats	1	1	2
Bruce	1	1	2	Endiang	1	1	2
Bruderheim	1	1	2	Esther	1	1	2
Buck Creek	1	1	2	Evansburg	1	1	2
Buffalo	1	1	2	Falher	1	1	2
Buford	1	1	2	Falun	1	1	2
Byemoor	1	1	2	Floating Stone Lake	1	1	2
Calgary	62	37	99	Fort Assiniboine	1	1	2
Calmar	1	1	2	Fort Saskatchewan	1	1	2
Camp Creek	1	1	2	Fort Smith	1	1	2
Camrose	1	1	2	Fort Vermilion	1	2	3
Canmore	1	1	2	Fox	1	1	2
Carbon	1	1	2	Frog Lake	1	1	2
Cardston	1	3	4	Galahad	2	2	4

TABLE No. 6—Continued

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





TABLE No. 8  
DISCHARGES DURING 1939—SHOWING DURATION OF RESIDENCE

Psychoses	Total		Under 3 months		Under 6 months		Under 9 months		Under 12 months		Under 18 months		Under 2 years		Over 2 years		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	
01. With syphilitic meningo-encephalitis (general paresis).....	6	2	8	2	1	3	1	1	2	1	1	1	2	2	2	2	1
02. With other forms of syphilis.....	5	5	1	1	3	1	3	3	3	1	1	1	1	1	1	1	1
03. With epidemic encephalitis.....	4	4	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1
04. With other infectious diseases.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
05. Alcoholic psychoses.....	8	11	19	5	2	7	2	7	9	2	2	2	2	2	2	2	2
06. Due to drugs or other exogenous poisons.....	6	2	8	1	1	2	2	2	2	2	2	2	2	2	2	2	2
07. Traumatic psychoses.....	4	4	8	3	3	3	1	1	1	1	1	1	1	1	1	1	1
08. With cerebral arteriosclerosis.....	1	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2
09. With other disturbances of circulation.....	6	2	8	1	1	2	2	2	2	2	2	2	2	2	2	2	2
10. With convulsive disorders.....	4	4	8	3	3	3	1	1	1	1	1	1	1	1	1	1	1
11. Senile psychoses.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12. Involutional psychoses.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13. Due to other metabolic diseases.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14. Psychoses due to new growth.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15. Associated with organic changes of the nervous system.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16. Psychoneuroses.....	35	47	82	11	10	21	15	14	29	6	12	1	1	1	1	1	1
17. Manic-depressive psychoses.....	75	54	129	26	13	39	20	17	37	14	7	21	4	7	11	1	1
18. Dementia praecox.....	6	4	10	2	1	3	2	1	3	2	2	2	1	1	1	1	1
19. Paranoia and paranoid conditions.....	6	7	13	1	1	2	1	1	1	1	1	1	1	1	1	1	1
20. With psychopathic personality.....	57	30	87	37	19	56	13	4	17	2	3	5	1	2	3	1	4
21. With mental deficiency.....	6	7	13	1	1	2	4	4	5	1	1	1	2	2	1	1	2
22. Undiagnosed psychoses.....	211	174	385	89	65	154	62	46	108	28	22	50	8	13	21	9	10
23. Without psychoses.....	57	30	87	37	19	56	13	4	17	2	3	5	1	2	3	1	4
Total.....	211	174	385	89	65	154	62	46	108	28	22	50	8	13	21	9	10

TABLE No. 9

## RECORD OF DEATHS DURING 1939

Register No.	Sex.	Age.	Time in Hospital.			Cause of Death
			Years.	Months.	Days.	
7345	F	51	3	6	23	Bilateral pulmonary tuberculosis.
5146	F	80	8	3	4	Myocardial degeneration; hypostatic pneumonia.
6849	F	60	4	2	20	Broncho-pneumonia.
3361	F	56	10	3	9	Exhaustion; broncho-pneumonia.
9480	F	75	.....	1	.....	Broncho-pneumonia.
9521	F	40	.....	.....	.....	Exhaustion; catatonic excitement; myocarditis.
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	M	51	2	1	23	Cerebral haemorrhage.
7283	M	63	3	8	.....	Cerebral haemorrhage—subarachnoid.
8693	F	84	1	6	13	Broncho-pneumonia.
9537	F	51	.....	.....	22	Exhaustion; myocarditis; involuntional melancholia.
8194	M	72	2	4	.....	Chronic myocarditis; chronic nephritis.
9597	M	58	.....	.....	4	Broncho-pneumonia; chronic myocarditis 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	24	Chronic myocarditis; heart failure.
8944	F	42	1	2	3	Acute exhaustion; septicaemia.
9228	M	75	.....	8	18	Chronic myocarditis and myocardial failure.
5155	M	57	8	2	.....	Pulmonary haemorrhage.
9610	F	62	.....	.....	16	Broncho-pneumonia; generalized arteriosclerosis.
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	.....	Influenzal pneumonia.
8996	M	73	1	2	10	Pulmonary tuberculosis.
8371	M	40	2	2	19	Acute haemorrhage; gastric ulcer.
9641	M	78	.....	.....	.....	Broncho-pneumonia; chronic myocarditis.
8183	M	29	2	6	.....	Lobar pneumonia.
9309	M	70	.....	8	16	General paresis; Aortic aneurysm.
9388	M	85	.....	6	12	Coronary sclerosis.
4338	F	29	10	4	17	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	F	59	.....	7	5	Chronic myocarditis; arteriosclerosis.
7414	F	47	3	8	16	Chronic myocarditis; aplastic anaemia.
9719	M	69	.....	.....	1	Coronary sclerosis and pericarditis.
8075	M	56	2	8	21	Cerebral embolus.
7882	F	70	3	.....	7	Coronary thrombosis.
9744	M	60	.....	.....	1½	Chronic myocarditis.
2892	F	62	15	11	24	Carcinoma of stomach; pulmonary tuberculosis.
9533	F	50	.....	4	28	Acute enteritis.
9683	F	39	.....	2	.....	Exhaustion; general paresis; cellulitis.
5300	M	87	6	8	25	Chronic myocarditis; cerebral thrombosis 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	M	62	.....	.....	23	Chronic myocarditis and myocardial degeneration.
9305	M	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 arteriosclerosis.
8161	F	58	2	9	19	Chronic myocarditis.
9835	M	54	.....	.....	13	Broncho-pneumonia; myocarditis.
9834	F	59	.....	.....	14	Chronic myocarditis with myocardial degeneration.
9860	M	37	.....	.....	1	Ruptured appendix localized peritonitis and toxæmia.
9355	F	69	.....	9	14	Broncho-pneumonia.
6387	F	55	5	7	12	Pulmonary tuberculosis.
449	M	60	25	11	.....	Cerebral haemorrhage.
7426	F	56	1	.....	1	Myocarditis and myocardial degeneration.
9659	M	49	.....	6	15	Acute colitis; dilatation of right ventricle; general paresis.
9943	F	46	.....	.....	12	Exhaustion; broncho-pneumonia; manic excitement.
9802	F	67	1	1	21	Chronic myocarditis.
9723	F	57	.....	4	19	Exhaustion; psychosis with cerebral arteriosclerosis.
2940	M	63	15	5	23	Chronic myocarditis and myocardial degeneration.

TABLE No. 9—Continued

Register No.	Sex.	Age.	Time in Hospital.			Cause of Death
			Years.	Months.	Days.	
9682	F	47	...	6	3	Gastro-enteritis (intractable).
2517	F	67	22	3	6	Cerebral haemorrhage.
8576	M	55	2	5	7	Coronary sclerosis and occlusion.
7391	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.
9863	M	72	....	4	5	Acute gastro-enteritis.
10030	M	65	....	....	1½	Chronic myocarditis and myocardial degeneration.
7595	F	65	3	11	21	Broncho-pneumonia; myocardial degeneration.

### 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
In Residence Jan. 1, 1939 .....				97	97	
Admissions:						
(a) Voluntary .....						
(b) Certificate .....						
(c) Warrant .....						
(d) Order .....						
(e) Transfers .....		16	16			
Re-admissions:						
(a) Voluntary .....		1	1			
(b) Certificate .....						
(c) Warrant .....		1	1			
(d) Order .....						
(e) Transfers .....						
				18	18	
				115	115	
Discharged during the year:						
(a) As recovered .....						
(b) As improved .....		3	3			
(c) As unimproved .....						
(d) As without psychosis .....		11	11			
(e) Transferred to other hospitals .....						
(f) Eloped .....						
(g) Deported to other countries .....		2	2			
(h) Deaths .....				16	16	
				99	99	

TABLE No. 2  
SHOWING THE DIAGNOSIS OF THOSE IN RESIDENCE, DECEMBER 31, 1939

	Male	Female	Total
1. Traumatic psychoses			
2. Senile psychoses		2	2
3. Psychoses with cerebral arteriosclerosis		3	3
4. General paralysis			
5. Psychoses with cerebral syphilis			
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			
(c) Deterioration			
10. Psychoses due to drugs and other exogenous toxins			
11. Psychoses with pellagra			
12. Psychoses 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. Involuntional 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			
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			
(b) Alcoholism			
(c) Drug addiction			
(d) Psychopathic personality			
(e) Mental deficiency		7	7
(f) Psychoneuroses			
(g) Hysterical episodes			
(h) Organic nervous disease			
(i) Disseminated sclerosis			
(j) Sacro-iliac arthritis			
(k) Neuro-syphilis			
(l) Sex perversions			
(m) For consideration by Eugenics Board			
Total		99	99

TABLE No. 3  
RECORD OF DEATHS DURING 1939

Register No.	Sex.	Age.	Time in Mental Hospital.			Cause of Death
			Years.	Months.	Days.	
9873	F	76		1	29	Myocarditis due to hypertension.
5410	F	53	6	11	20	Coronary thrombosis due to high blood pressure due to arteriosclerosis.

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 inoculated against typhoid.

Dr. J. S. Madill, of Raymond, has been most kind in co-operating with the staff 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.

TABLE No. 1  
MOVEMENT OF PATIENT POPULATION DURING 1939

	Male	Female	Total	Male	Female	Total
In Residence January 1, 1939 .....						
In Residence March 1, 1939 .....				106	106	
Admissions:						
(a) Voluntary .....						
(b) Certificate .....						
(c) Warrant .....						
(d) Order .....						
(e) Transfers .....		7	7			
Re-admissions:						
(a) Voluntary .....		2	2			
(b) Certificates .....						
(c) Warrant .....		1	1			
(d) Order .....						
(e) Transfers .....						
				10	10	
				116	116	
Discharged during the year:						
(a) As recovered .....						
(b) As improved .....		6	6			
(c) As unimproved .....		3	3			
(d) As without psychosis .....						
(e) Transferred to other hospitals .....		2	2			
(f) Eloped .....						
(g) Deported to other countries .....						
(h) Deaths .....		1	1			
				12	12	
				104	104	

TABLE No. 2  
SHOWING THE DIAGNOSIS OF THOSE IN RESIDENCE, DECEMBER 31, 1939

	Male	Female	Total
1. Traumatic psychosis			
2. Senile psychosis		6	6
3. Psychosis with cerebral arteriosclerosis		2	2
4. General paralysis			
5. Psychosis with cerebral syphilis		2	2
6. Psychosis with Huntington's Chorea			
7. Psychosis with brain tumor			
8. Psychosis with other brain or nervous disorders:			
(a) Chronic encephalitis			
(b) Disseminated sclerosis			
(c) Tuberculous meningitis			
(d) Undefined			
9. Alcoholic psychosis:			
(a) Delirium tremens			
(b) Chronic alcoholism			
(c) Deterioration			
10. Psychosis due to drugs and other exogenous toxins			
11. Psychosis with pellagra			
12. Psychosis with other somatic diseases:			
(a) Post-infectious			
(b) Diabetes			
13. Manic-depressive psychosis:			
(a) Manic phase		2	2
(b) Depressive phase		2	2
(c) Mixed			
(d) Circular		1	1
14. Involuntional 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:			
(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			
(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			
(l) Sex perversions			
(m) For consideration by Eugenic Board			
Total		104	104

TABLE No. 3  
RECORD OF DEATHS DURING 1939

Register No.	Sex	Age	Time in Mental Hospital.			Cause of Death
			Years.	Months.	Days.	
8656	F	46	2	.....	26	Coronary thrombosis due to coronary sclerosis.

# 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 first 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.

## INSTITUTIONAL 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 occasional 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 $\frac{3}{4}$  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.

TABLE No. 1  
MOVEMENT OF POPULATION

	Males	Females	Total
Patients on books January 1st, 1939:			
(a) In Hospital .....	759	.....	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 .....	17	.....	17
Total .....	56	.....	56
Total Received During Year:			
(a) Transfers .....	17	.....	17
(b) Re-admissions .....	4	.....	4
(c) By Warrant .....	14	.....	14
(d) Voluntary .....	4	.....	4
(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	.....	6
(d) Without Psychosis .....	.....	.....	.....
(e) Transfers .....	4	.....	4
(f) Died during year .....	33	.....	33
Total .....	56	.....	56
Patients on Books End of Year:			
(a) In Hospital .....	749	.....	749
(b) On Probation .....	5	.....	5
(c) Elopements .....	9	.....	9
(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 EMPLOYEES

	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
Storekeeper .....	1	.....	1
Stenographers and Clerks .....	1	2	3
Night Supervisor .....	1	.....	1
Graduate Nurses .....	.....	2	2
Other Female Nurses .....	.....	.....	.....
Male Attendants .....	67	.....	67
Social Workers, Tailor .....	1	.....	1
Teachers .....	.....	.....	.....
Occupational Therapist .....	1	.....	1
Kitchen and Bakery .....	4	.....	4
Laundry .....	2	1	3
Gardeners and Assistants .....	3	.....	3
Engineers and Mechanics .....	12	.....	12
Other Employees (Male) .....	9	.....	9
Other Employees (Female) .....	.....	.....	.....
Total .....	108	5	113

TABLE No. 3  
PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION OF PATIENTS

	Males	Females	Total
Psychiatric:			
Patients Insane .....	681	.....	681
Epileptic (not insane) .....	6	.....	6
Mental Deficiency (not insane) .....	78	.....	78
Alcoholic (not insane) .....	.....	.....	.....
Drug Addicts (not insane) .....	.....	.....	.....
Neurosyphilitics (not insane) .....	.....	.....	.....
All other types (not insane) .....	3	.....	3
Undiagnosed .....	1	.....	1
<b>Total Population</b> .....	<b>769</b>	<b>.....</b>	<b>769</b>
Industrial:			
Industrial Workers .....	40	.....	40
Garden Workers .....	52	.....	52
Internal Workers .....	449	.....	449
External Workers .....	21	.....	21
Doing no work .....	187	.....	187
On Probation, Parole, etc .....	20	.....	20
<b>Total Population</b> .....	<b>769</b>	<b>.....</b>	<b>769</b>

TABLE No. 4  
NATIVITY OF PATIENTS IN RESIDENCE

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

TABLE No. 5  
CITIZENSHIP OF PATIENTS IN RESIDENCE

	Males	Females	Total
Citizen by Birth .....	243	.....	243
Citizen by Naturalization .....	56	.....	56
Aliens .....	301	.....	301
Unascertained .....	34	.....	34
British Birth out of Canada .....	135	.....	135
<b>Total</b> .....	<b>769</b>	<b>.....</b>	<b>769</b>

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

TABLE No. 7  
AGE AT ADMISSION AND PRINCIPAL PSYCHOSES

Psychoses	Total		Under 15 years		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Traumatic	25	19	1	1	1	1	1	1	1	1	1	1	1	1
2. Senile	19	33												
3. Cerebral Arteriosclerosis	33	1												
4. General Paralysis	1	2												
5. With Cerebral Syphilis	2	7												
6. With Huntington's Chorea	2	5												
7. With Brain Tumour	7	5												
8. With other Brain Diseases	5													
9. Alcoholic	5													
10. Due to Drugs														
11. With Pellagra														
12. Other Somatic Diseases	32	3												
13. Manic Depressive	3	3	1	1	13	13	61	61	90	90	92	92	70	70
14. Involuntional Melancholia	415	69												
15. Schizophrenia	69	21			1	1	5	5	4	4	7	7	5	5
16. Paranoia and Paranoid conditions	21	1							3	3	3	3	4	4
17. Epileptic Psychoses	1	1												
18. Psychoneuroses and Neuroses	48	48	1	1	3	3	5	5	10	10	7	7	10	10
19. Psychopathic Personality	1	1												
20. With Mental Deficiency	1	1			2	2			2	2	1	1		
21. Undiagnosed Psychoses	6	78	4	4	21	21	19	19	9	9	9	9	4	4
22. Without Psychoses:	3	3	1	1					1	1			1	1
A	6	78	7	7	40	40	91	91	121	121	131	131	103	103
E	78	3	4	4	21	21	19	19	9	9	9	9	4	4
F	3	3	1	1					1	1			1	1
Total	769	769	7	7	40	40	91	91	121	121	131	131	103	103



TABLE No. 7a  
AGE AT ADMISSION AND PRINCIPAL PSYCHOSES

Psychoses	40 to 44		45 to 49		50 to 54		55 to 59		60 to 64		65 to 69		70 and over		Unascertained	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Traumatic																
2. Senile					2	2	2	2	2	2	7	7	11	11	1	1
3. Cerebral Arteriosclerosis					1	1	1	1	8	8	3	3	6	6		
4. General Paralysis	8	8	7	7	1	1	2	2	3	3	1	1				
5. With Cerebral Syphilis																
6. Huntington's Chorea	1	1			1	1										
7. With Brain Tumour																
8. With other Brain Diseases	2	2	1	1	3	3	1	1							1	1
9. Alcoholic					1	1										
10. Due to Drugs																
11. With Pelliagra																
12. Other Somatic Diseases																
13. Manic Depressive	4	4	4	4	7	7	7	7	1	1	1	1				
14. Involutional Melancholia																
15. Schizophrenia	35	35	24	24	16	16	16	16	1	1	1	1				
16. Paranoia and Paranoid conditions	16	16	8	8	21	21	4	4	2	2	3	3			5	5
17. Epileptic Psychoses	1	1	1	1			1	1								
18. Psychoneuroses and Neuroses																
19. Psychopathic Personality																
20. With Mental Deficiency	6	6	2	2	2	2	2	2								
21. Undiagnosed Psychoses																
22. Without Psychoses:																
A	1	1														
E	4	4	5	5	3	3										
F																
Total	79	78	52	52	58	58	29	29	22	22	13	13	17	17	7	7

TABLE No. 8  
DEGREE OF EDUCATION OF FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES

Psychoses	Total		Illiterate		Reads and Writes		Common School		High School		University		Unascertained	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Traumatic	25	25	2	2	6	6	15	15	2	2				
2. Senile	19	19	4	4	7	7	8	8						
3. Cerebral Arteriosclerosis	33	33	2	2	10	10	19	19	2	2				
4. General Paralysis	1	1			1	1	1	1						
5. With cerebral syphilis	2	2			1	1	1	1						
6. With Huntington's Chorea	7	7	1	1	1	1	5	5	1	1				
7. With Brain Tumour	5	5			1	1	2	2	1	1	1	1		
8. With other Brain Diseases														
9. Alcoholic														
10. Due to Drugs														
11. With Pellagra														
12. With other Somatic Diseases	32	32			5	5	23	23	3	3			1	1
13. Manic Depressive	3	3	1	1			1	1	1	1				
14. Involuntional Melancholia	415	415	23	23	137	137	199	199	26	26	6	6	24	24
15. Schizophrenia	69	69	4	4	21	21	32	32	7	7	1	1	4	4
16. Paranoia and Paranoid conditions	21	21	4	4	9	9	8	8						
17. Epileptic Psychoses														
18. Psychoneuroses and Neuroses	1	1			1	1								
19. Psychopathic Personality	48	48	7	7	17	17	20	20	2	2			2	2
20. With Mental Deficiency	1	1					1	1						
21. Undiagnosed Psychoses														
22. Without Psychoses:														
A	6	6	3	3	2	2	1	1						
E	78	78	34	34	30	30	12	12	1	1			1	1
F	3	3			1	1	2	2						
<b>Total</b>	<b>769</b>	<b>769</b>	<b>85</b>	<b>85</b>	<b>249</b>	<b>249</b>	<b>349</b>	<b>349</b>	<b>46</b>	<b>46</b>	<b>8</b>	<b>8</b>	<b>32</b>	<b>32</b>

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

Psychoses	Total		2,500 and over		Urban		Rural		Unascertained		
	M.	F.	M.	T.	M.	F.	M.	F.	M.	F.	T.
1. Traumatic	25	25	8	8	16	16	1	1	1	1	1
2. Senile	19	19	6	6	12	12	1	1	1	1	1
3. Cerebral Arteriosclerosis	33	33	17	17	16	16					
4. General Paralysis	1	1	1	1							
5. Cerebral syphilis	2	2	1	1							
6. Huntington's Chorea											
7. With Brain Tumour	7	7	3	3	3	3	1	1	1	1	1
8. With other Brain Diseases	5	5	2	2	3	3					
9. Alcoholic											
10. Due to Drugs											
11. With Pellagra											
12. With other Somatic Diseases	32	32	11	11	21	21					
13. Manic Depressive	3	3	1	1	1	1					
14. Involutional Melancholia	415	415	131	131	265	265	19	19	19	19	19
15. Schizophrenia	69	69	18	18	50	50	1	1	1	1	1
16. Paranoia and Paranoid conditions	21	21	6	6	14	14	1	1	1	1	1
17. Epileptic Psychoses											
18. Psychoneuroses and Neuroses	1	1			1	1					
19. Psychopathic Personality	48	48	13	13	34	34	1	1	1	1	1
20. With Mental Deficiency	1	1			1	1					
21. Undiagnosed Psychoses											
22. Without Psychoses:											
A	6	6	1	1	5	5					
E	78	78	33	33	43	43	2	2	2	2	2
F	3	3	1	1	2	2					
<b>Total</b>	<b>769</b>	<b>769</b>	<b>253</b>	<b>253</b>	<b>488</b>	<b>488</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>

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

Psychoses	Total		Dependent		Living on Daily Earnings		Comfortable (ample for 4 months)		Unascertained	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Traumatic	25	11	11	6	6	6	6	6	2	2
2. Senile	19	8	8	7	7	4	4	4	1	1
3. Cerebral Arteriosclerosis	33	10	10	14	14	8	8	8	1	1
4. General Paralysis	1	1	1	1	1	1	1	1		
5. With Cerebral Syphilis	2	2	2	2	2	2	2	2		
6. With Huntington's Chorea										
7. With Brain Tumour	7	5	5	2	2	2	2	2		
8. With other Somatic Diseases	5	3	3	1	1	1	1	1		
9. Alcoholic										
10. Due to Drugs										
11. With Pellagra										
12. With other Somatic Diseases	32	11	11	15	15	6	6	6		
13. Manic Depressive	3	2	2	236	236	31	31	31	19	19
14. Involutional Melancholia	415	129	129	43	43	7	7	7		
15. Schizophrenia	69	19	19	6	6					
16. Paranoia and Paranoid conditions	21	15	15	1	1					
17. Epileptic Psychoses				22	22	3	3	3	1	1
18. Psychoneuroses and Neuroses	1	22	22			1	1	1		
19. Psychopathic Personality	48	48	48	2	2	2	2	2	1	1
20. With Mental Deficiency	1	1	1			1	1	1		
21. Undiagnosed										
22. Without Psychoses:										
A	6	3	3	2	2	1	1	1	1	1
E	78	68	68	7	7	2	2	2	1	1
F	3	1	1	2	2					
<b>Total</b>	<b>769</b>	<b>310</b>	<b>310</b>	<b>364</b>	<b>364</b>	<b>71</b>	<b>71</b>	<b>71</b>	<b>24</b>	<b>24</b>

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

Psychoses	Total			Abstinent			Temperate			Intemperate			Unascertained		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic	25	19	44	13	8	21	13	8	21	2	2	4	2	2	4
2. Senile	19	33	52	4	13	17	4	13	17	1	1	2	1	1	2
3. Cerebral Arteriosclerosis	33	1	34	8	18	26	8	18	26	5	5	10	2	2	4
4. General Paralysis	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
5. With Cerebral Syphilis	2	7	9	1	5	6	1	5	6	1	1	2	1	1	2
6. With Huntington's Chorea	7	5	12	1	1	2	1	1	2	5	5	10	1	1	2
7. With Brain Tumour	5	32	37	1	20	21	1	20	21	3	3	6	2	2	4
8. With other Somatic Diseases	3	415	418	7	66	73	7	66	73	2	2	4	2	2	4
9. Alcoholic	32	69	101	7	39	46	7	39	46	2	2	4	2	2	4
10. Due to Drugs	3	21	24	2	9	11	2	9	11	1	1	2	1	1	2
11. With Pellagra	32	21	53	7	8	15	7	8	15	2	2	4	2	2	4
12. With other Somatic Diseases	3	69	72	2	39	41	2	39	41	1	1	2	1	1	2
13. Manic Depressive	415	21	436	66	21	87	66	21	87	34	34	68	49	49	97
14. Involutional Melancholia	69	21	90	9	9	18	9	9	18	13	13	26	8	8	16
15. Schizophrenia	21	1	22	9	8	17	9	8	17	1	1	2	3	3	6
16. Paranoia and Paranoid conditions	1	48	49	1	28	29	1	28	29	1	1	2	2	2	4
17. Epileptic Psychoses	48	1	49	14	14	28	14	14	28	4	4	8	2	2	4
18. Psychoneuroses and Neuroses	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
19. Psychopathic Personality	1	6	7	1	3	4	1	3	4	1	1	2	1	1	2
20. With Mental Deficiency	6	78	84	3	53	56	3	53	56	20	20	40	5	5	10
21. Undiagnosed	1	3	4	1	1	2	1	1	2	2	2	4	—	—	4
22. Without Psychoses:															
A	6	6	12	3	3	6	3	3	6	—	—	—	—	—	—
E	78	78	156	53	53	106	53	53	106	20	20	40	5	5	10
F	3	3	6	1	1	2	1	1	2	2	2	4	—	—	4
<b>Total</b>	<b>769</b>	<b>769</b>	<b>1538</b>	<b>193</b>	<b>430</b>	<b>623</b>	<b>193</b>	<b>430</b>	<b>623</b>	<b>71</b>	<b>71</b>	<b>142</b>	<b>75</b>	<b>75</b>	<b>140</b>

TABLE No. 12  
MARITAL CONDITION OF FIRST ADMISSIONS, BY PRINCIPAL PSYCHOSES

Psychoses	Total		Single		Married		Widowed		Separated		Divorced		Unascertained	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Traumatic	25	25	6	6	9	9	9	9	1	1	1	1	1	1
2. Senile	19	19	11	11	4	4	3	3	1	1	1	1	1	1
3. Cerebral Arteriosclerosis	33	33	11	11	20	20	1	1	1	1	1	1	1	1
4. General Paralysis	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5. With cerebral syphilis	2	2	1	1	1	1	1	1	1	1	1	1	1	1
6. With Huntington's Chorea	7	7	3	3	3	3	1	1	1	1	1	1	1	1
7. With Brain Tumour	5	5	3	3	1	1	1	1	1	1	1	1	1	1
8. With other Brain Diseases	32	32	11	11	15	15	3	3	3	3	3	3	3	3
9. Alcoholic	3	3	1	1	1	1	1	1	1	1	1	1	1	1
10. Due to Drugs	3	3	1	1	1	1	1	1	1	1	1	1	1	1
11. With Pellagra	415	415	329	329	60	60	8	8	3	3	6	6	9	9
12. With other Somatic Diseases	69	69	38	38	27	27	2	2	2	2	2	2	2	2
13. Manic Depressive	21	21	13	13	6	6	2	2	2	2	2	2	2	2
14. Involutional Melancholia	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15. Schizophrenia	48	48	44	44	3	3	1	1	1	1	1	1	1	1
16. Paranoia and Paranoid conditions	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17. Epileptic Psychoses	6	6	5	5	1	1	1	1	1	1	1	1	1	1
18. Psychoneuroses and Neuroses	78	78	74	74	3	3	1	1	1	1	1	1	1	1
19. Psychopathic Personality	3	3	2	2	1	1	1	1	1	1	1	1	1	1
20. With Mental Deficiency	769	769	553	553	156	156	31	31	8	8	12	12	9	9
21. Undiagnosed Psychoses														
22. Without Psychoses:														
A	6	6	5	5	1	1	1	1	1	1	1	1	1	1
E	78	78	74	74	3	3	1	1	1	1	1	1	1	1
F	3	3	2	2	1	1	1	1	1	1	1	1	1	1
Total	769	769	553	553	156	156	31	31	8	8	12	12	9	9

TABLE No. 13  
INCREASE OF PATIENTS DURING THE YEAR, BY PRINCIPAL PSYCHOSES

Psychoses	Total			First Admission			Re-admission			Transfer		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic												
2. Senile	10		10	10		10						
3. Cerebral Arteriosclerosis												
4. General Paralysis	2		2	1		1				1		1
5. Cerebral syphilis												
6. Huntington's Chorea												
7. With Brain Tumour												
8. With other Brain Diseases	3		3	3		3						
9. Alcoholic	1		1	1		1						
10. Due to Drugs												
11. With Pellagra												
12. With other Somatic Diseases												
13. Manic Depressive												
14. Involutional Melancholia												
15. Schizophrenia	19		19	12		12	1		1	6		6
16. Paranoia and Paranoid conditions	4		4	4		4	1		1	3		3
17. Epileptic Psychoses	2		2	2		2	1		1	1		1
18. Psychoneuroses and Neuroses												
19. Psychopathic Personality												
20. With Mental Deficiency	2		2	1		1				1		1
21. Undiagnosed Psychoses												
22. Without Psychoses:												
A												
E	13		13	8		8	1		1	4		4
F												
Total	56		56	36		36	4		4	16		16

TABLE No. 14  
DECREASE OF PATIENTS DURING THE YEAR, BY PRINCIPAL PSYCHOSES

Psychoses	Total		Discharged Recovered		Improved		Unimproved		Transfer		Death	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Traumatic	13	13			2	2					11	11
2. Senile	2	2			1	1					1	1
3. Cerebral Arteriosclerosis	2	2							1	1		
4. General Paralysis												
5. Cerebral syphilis												
6. Huntington's Chorea	1	1			1	1						
7. With Brain Tumour	4	4					2	2			2	2
8. With other Brain Diseases												
9. Alcoholic												
10. Due to Drugs												
11. With Pellagra												
12. With other Somatic Diseases												
13. Manic Depressive												
14. Involutional Melancholia	20	20			3	3	3	3	1	1	13	13
15. Schizophrenia	2	2			1	1					1	1
16. Paranoia and Paranoid conditions	3	3					1	1	1	1		
17. Epileptic Psychoses												
18. Psychoneuroses and Neuroses	1	1										
19. Psychopathic Personality	2	2										
20. With Mental Deficiency												
21. Undiagnosed Psychoses												
22. Without Psychoses:												
A	5	5			4	4					1	1
E	1	1									1	1
F												
Total	56	56			13	13	6	6	4	4	33	33



TABLE No. 15  
CAUSE OF DEATH, BY PRINCIPAL PSYCHOSES, WITH AGE AT DEATH AND DURATION OF HOSPITAL LIFE

Psychoses	Total		Age	Duration of Hospital Life		
	M.	F.		Years	Months	Days
2. Senile	11	.....	.....	.....	.....	.....
3. Cerebral Arteriosclerosis	1	.....	82	1	8	.....
4. General Paralysis	1	.....	80	27	7	7
8. With other Brain Diseases	2	.....	71	.....	.....	15
			73	.....	3	18
			70	8	9	1
			73	1	1	15
			85	1	.....	21
			78	.....	5	.....
			74	3	.....	7
			83	.....	2	9
			86	.....	5	19
			.....	4	.....	.....
			49	.....	.....	3
			58	11	.....	.....
			50	7	10	8
			68	.....	2	.....
			51	22	6	.....
			28	8	2	6
			40	6	3	16
			35	9	.....	.....
			48	19	11	.....
			36	7	8	23
			53	23	6	27
			33	11	.....	.....
			44	19	4	10
			56	9	6	8
			37	.....	7	11
			57	28	4	19
			38	11	9	23
			87	28	.....	1
			49	20	7	.....
			65	10	5	14
			17	2	9	10
			41	6	1	6
16. Paranoia and Paranoid conditions	1	.....	.....	.....	.....	.....
17. Epileptic Psychoses	1	.....	.....	.....	.....	.....
20. With Mental Deficiency	1	.....	.....	.....	.....	.....
22. Without Psychoses	2	.....	.....	.....	.....	.....
Total	33	.....	.....	.....	.....	.....

TABLE No. 16  
RELIGION OF PATIENTS IN RESIDENCE

	Males	Females	Total
Baptists .....	25	.....	25
Episcopallians .....	77	.....	77
Jews .....	9	.....	9
Presbyterians .....	80	.....	80
Roman Catholics .....	185	.....	185
United Church .....	68	.....	68
Other Denominations .....	272	.....	272
Unascertained .....	53	.....	53
Total .....	769	.....	769

TABLE No. 17  
OCCUPATION OF PATIENTS IN RESIDENCE

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

## Provincial Training School, Red Deer, Alberta

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

### MOVEMENT OF POPULATION

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 re-admission), 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 discharges, 4 were returned to parents or guardians and 2 went out to work. Of the 2 transfers, 1, a male patient of thirty-five, 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 epilepticus, in a child of 7, suffering from Congenital Sphilitis.

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 ACTIVITIES

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 carpenter.

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 Hallowe'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 declaration 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 almost 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 camp-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 it 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 supply 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 pumping-room 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 check-room.

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 elsewhere—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 co-operation 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:				Male	Female	Total
In the Provincial Training School, Red Deer, Alberta .....				111	103	214
ADMISSIONS:				Male	Female	Total
1. First admissions—voluntary .....	8	2	10			
2. Re-admissions .....		1	1			
3. Transfers .....	—	—	—			
Total number of admissions .....				8	3	11
Total number of defectives on the books during 1939 .....				119	106	225
OUTGOING:				Male	Female	Total
1. Paroles .....	5	2	7			
2. Transfers—P.M.H., Ponoka .....	1		1			
3. Deaths .....	1	1	2			
Total number of outgoing .....				7	3	10
Defectives on books of the institution at December 31st, 1939 .....				112	103	215

TABLE No. 2  
RESPONSIBILITY FOR MAINTENANCE OF PATIENTS IN RESIDENCE  
AT DECEMBER 31, 1939

	In Residence	Percentage
Wards of the Province of Alberta .....	31	14.42
Wards of the Municipal Districts of Alberta .....	146	67.91
Wards of the Department of Municipal Affairs of Alberta .....	31	14.42
Private cases in residence .....	2	.93
Wards of Department of Pensions and Health, Ottawa .....	2	.93
Wards of the Dominion Government .....	2	.93
Wards of the Official Guardian, Provincial Government .....	1	.46
Total .....	215	

TABLE No. 3  
MENTAL STATUS OF FIRST ADMISSIONS, RE-ADMISSIONS AND TRANSFERS

Mental Status	First Admissions			Re-admissions			Transfers			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Idiot .....	3		3							3		3
Imbecile .....	1	2	3							1	2	3
Moron .....	2		2							2		2
Borderline .....	1		1		1	1				1	1	2
Dull .....	1		1							1		1
Totals .....	8	2	10		1	1				8	3	11

TABLE No. 4  
NATIVITY OF ADMISSIONS AND OF PARENTS OF ADMISSIONS

Nativity	Patients			Parents of Male Patients			Parents of Female Patients		
	Male	Female	Total	Fathers	Mothers	Total	Fathers	Mothers	Total
Alberta .....	6	3	9						
Other Provinces .....	1		1	2	2	4			
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

TABLE No. 5a  
AGE OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS

Age Group	Idiot			Imbecile			Moron			Borderline			Dull			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
5-9	1	1		1	1		1	1								3	3	
10-14	1	1			2	2										1	2	3
15-19	1	1					1	1	1	1	1	1	1	1	1	4	4	4
20-24										1	1						1	1
Totals	3	3		1	2	3	2	2	1	1	2	1	1	1	8	3	11	

TABLE No. 5b  
AGE OF POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS

Age Group	Idiot			Imbecile			Moron			Borderline			Dull			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
5-9	3	2	5	5	2	7	2		2							10	4	14
10-14	10	5	15	9	10	19	3	3	6	2	2	4	1	1	2	25	20	45
15-19	7	6	13	15	5	20	8	11	19	3	2	5	2	2	35	24	59	
20-24	6	7	13	9	7	16	6	5	11	2	1	3	1	1	23	21	44	
25-29	9	7	16	2	6	8	2	4	6						13	17	30	
30-34	1	4	5	3	8	11	1	1	2						5	13	18	
35-39		2	2	2		1										3	3	
40-44				1		1				1	1				1	1	2	
Totals	36	33	69	44	39	83	22	24	46	7	6	13	3	1	4	112	103	215

TABLE No. 6  
ENVIRONMENT OF ADMISSIONS

Environment	Idiot			Imbecile			Moron			Borderline			Dull		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Rural	2		2		2	2	2		2				1		1
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

Denominations	Idiot			Imbecile			Moron			Borderline			Dull		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
United Church						2	2								
Church of England										1	1	2			
Roman Catholic	1		1												
Greek Catholic													1		1
Presbyterian				1		1									
Lutheran	1		1				1		1						
Pentecostal	1		1												
Unascertained							1		1						

TABLE No. 8  
ECONOMIC CONDITION OF FAMILIES OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS

Economic Condition	Idiot			Imbecile			Moron			Borderline			Dull		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Comfortable															
Marginal	2		2		1	1	2		2		1	1	1		1
Dependent	1		1	1	1	2				1		1			
Totals	3		3	1	2	3	2		2	1	1	2	1		1

TABLE No. 9  
OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

Age Group	Idiot			Imbecile			Moron			Borderline			Years in Residence
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
5-9							1		1				0/2
10-14				1		1							1/0
20-24							1		1				3/3
							1		1				5/7
										1		1	3/6
									1	1			6/1
										1	1		6/1-25/8
B—TRANSFERS													
35-39	1		1										10/9-10/9
C—DEATHS													
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

Classification	Idiot			Imbecile			Moran			Total			Percentage
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
Infirmary Type:													
(a) Physically Helpless	13	7	20	4	3	7				17	10	27	12.55
(b) Mentally Helpless	23	26	49	8	5	13				31	31	62	28.84
M.D. and Epileptic	14	11	25	5	4	9	3	6	9	22	21	43	20.00
M.D. and Psychopathic				2	2	4		2	2	2	4	6	2.8
M.D. and Psychotic		2	2		1	1			2		5	5	2.32
Mongols and Mongoloid	2	1	3	8	4	12	1		1	11	5	16	7.44
Totals	52	47	99	27	19	46	4	10	14	83	76	159	73.95

TABLE No. 11  
APPLICATIONS AWAITING ADMISSION

Applications dated prior to	Male Female Total			Applications dated:	Male Female Total		
	Male	Female	Total		Male	Female	Total
1931	7	9	16	1936	16	15	31
Applications dated:				1937	20	9	29
1931	2	3	5	1938	19	13	32
1932	1	2	3	1939	23	23	46
1933	2	2	4				
1934	6	11	17				
1935	19	15	34				
					115	102	217

TABLE No. 12  
KNOWN DEFECTIVES

Reported prior to 1929	Male Female Total			Reported during:	Male Female Total		
	Male	Female	Total		Male	Female	Total
Reported during:			269	1935	10	7	18
1929	23	16	39	1936	19	5	24
1930	17	18	36	1937	19	17	36
1931	18	5	24	1938	24	14	40
1932	5	6	11	1939	21	21	42
1933	6	11	17				
1934	5	11	20	Total			576

TABLE No. 13  
EUGENICS SUMMARY

	Male	Female	Total
A.—Training School Cases:			
Presented and approved (P.T.S.)	50	61	111
Presented and approved (Out-Patients)	1	1	2
Totals	51	62	113
Operations	39	55	94
Paroled, Transferred, etc.	24	35	59
In Residence	15	20	35
B.—Sterilized before Admission	1	29	30
Paroled, Transferred, etc.		15	15
In Residence	1	14	15
C.—Total in Residence	16	34	50
Percentage of Population—23.25.			

TABLE No. 14  
STAFF, DECEMBER 31, 1939

	Male	Female	Total
Medical Superintendents	1		1
Social Workers—Voluntary	1		1
Dentists—Part time	1		1
Teachers, Grade		1	1
Teachers, Special Subjects (both P.T.S. Grads.)		2	2
Bursars	1		1
Stenographers		2	2
Clerks	2		2
Kitchen Staff		3	3
Dining Room Staff		2	2
Laundry Staff		3	3
Sewing Room Staff		2	2
Gardeners	1		1
Farmers	1		1
Matrons		1	1
Assistant Matrons and Surgery Nurses		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		6
Boiler Room Staff, D.P.W.	3		3
Maintenance Staff, D.P.W.			
Totals	22	36	58

TABLE No. 15  
SEWING ROOM—SUMMARY OF ARTICLES MADE AND REPAIRED IN 1939

Articles	Quantity	Articles	Quantity
Aprons: White, Gingham, Denim, Burlap	234	Hospital Gowns	2
Bags, Laundry	22	Kneelers	108
Bandages	5	Mats, Bath	22
Bed Jackets	119	Napkins	169
Binders	5	Nightgowns	191
Bibs	74	Pillow Cases	245
Bloomers	272	Rompers	7
Blouses	16	Scarves, dresser	55
Brassieres	60	Serviettes	48
Caps, Isolation	18	Sheets	217
Chemise	142	Shorts	36
Cloths: Dish 29, Face 195, Tray 10	234	Slips	72
Coats, Barber	3	Suits (Canvas) 2, Sleeves 29, Tie Strings 24	55
Coverall	77	Table: Cloths 22, Centres 18, Runners 2, Ends 22	64
Collars and Cuffs	13	Towels: Huck 170, Linen 85, Tea 132	387
Covers: Bedpan 44, Couch Mattress 4, Dressing 12, hot-water bottle 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	Total number of articles manufactured	3,764
Gym Suits	8	Total number of articles repaired	53,399
Halters	7	1934	42,495
Handkerchiefs	72	1935	43,272
Manufactured		1936	52,597
Repaired		1937	56,491
		1938	57,569
		1939	4,006
		Total	230,428

TABLE No. 16  
LAUNDRY

Articles Laundered	1935	1936	1937	1938	1939
	326,911	339,790	360,881	362,222	351,923

TABLE No. 17  
FARM AND GARDEN PRODUCE FOR HOME CONSUMPTION

Product	1937	1938	1939
Beans	1,295 lbs.	720	655
Beets	5,885 lbs.	4,500	5,373
Barley	242 bus.	455	729
Cabbage	7,630 lbs.	5,500	6,674
Carrots	11,425 lbs.	11,000	12,456
Cauliflowers	1,155 lbs.	1,024	.....
Celery	725 lbs.	810	895
Cucumbers	295 lbs.	341	483
Calves, raised	.....	5	4
Eggs	989 doz.	937	1,670
Greenfeed	6,000 bundles	4,500	16,000
Hay, Timothy	28 tons	19	9
Lettuce	2,585 lbs.	2,255	1,705
Milk	3,085.7 lbs.	27,752.1	46,673
Oats	1,471 bus.	975	360
Onions	865 lbs.	760	935
Parsnips	6,060 lbs.	5,130	4,891
Peas, green	855 lbs.	2,326	1,123
Pigs, raised	.....	52	31
Pork, dressed	6,597 lbs.	3,924	5,233
Potatoes	92,220 lbs.	106,170	32,840
Poultry, dressed	109 lbs.	106½	200
Radish	280 lbs.	555	337
Rhubarb	1,515 lbs.	3,143	1,868
Spinach	1,481 lbs.	1,430	1,330
Swiss Chard	1,460 lbs.	2,045	1,110
Sugar beets	.....	10,800	.....
Tomatoes	670 lbs.	316	.....
Turnips	18,745 lbs.	21,665	20,300
Veal	.....	.....	260
Vegetable Marrow	1,015 lbs.	959	.....
Wheat	356 bus.	195	1,026

## ACREAGES

Barley	40	Potatoes	6
Greenfeed	15	Vegetables	4
Hay	13	Wheat	18
Oats	40	Camp and Barns	14
Pasture, tame	20	Gardens and Lawn	10
Pasture, wild	55		

TABLE No. 18  
HOME CANNING

Varieties	Quantity
Vegetables: Beans	140 qts.
Pickles	52 qts.
Fruits: Pears	200 qts.
Rhubarb	138 qts.
Jams	66 qts.
	596 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

	1938	%	1939	%
Clinics .....	290	64.3	276	62.6
Referred to Sanatoria by Physicians .....	109	24.1	107	24.3
Provincial Laboratory .....	24	5.3	29	6.6
Provincial Board of Health .....	18	4.0	13	2.9
School Surveys .....	10	2.2	9	2.0
Others .....	.....	.....	7	1.6
	451		441	

These 441 cases were classified as follows:

Active Pulmonary Tuberculosis .....	323
Inactive Pulmonary Tuberculosis .....	82
Non-Pulmonary Tuberculosis .....	36

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

Minimal .....	151	Approximately 37%
Moderately Advanced .....	114	Approximately 28%
Far Advanced .....	116	Approximately 29%
Unclassified .....	24	Approximately 6%

*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 .....	1,269
Indian School Surveys .....	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 re-examinations 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 numbered 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 MacDonald, 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; Recreation 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.

## STATISTICAL SECTION

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
Patients under treatment Jan. 1, 1939 .....	207	121	35	22	385
Patients admitted in 1939 .....	147	164	18	4	333
Patients treated 1939 .....					718
Patients discharged in 1939 .....	146	156	23	15	340
Patients remaining in Hospital, Dec. 31, 1939	203	121	35	19	378
Patient days .....	75,424	44,101	12,610	7,774	139,909

NOTE.—21 patients were transferred from one institution to another.

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 .....	5	2	7
Non-Pulmonary Tuberculosis .....		5	5
Tuberculosis Pleurisy .....	5	6	11
Tuberculosis, Childhood Type .....	6	9	15
Pulmonary Tuberculosis:			
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

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
Sputum:					
Number of positive examinations .....	912	792	169	110	1,983
Number of negative examinations .....	1,877	937	263	135	3,212
Urinalysis: Number of examinations .....	2,238	2,226	608	21	5,093
Blood Examinations:					
Blood Counts .....	312	195	43	3	553
Sedimentations .....	762	559	52	52	1,425
Guinea Pig Inoculations .....	84	1	1		86
Other examinations .....	480	47	10	8	545
Wassermanns:					
Positive .....	2	5			7
Negative .....	177	257	20		454

## HELIO THERAPY

Number of patients treated .....	36	46	7	8	97
Number of treatments .....	2,256	544	107	122	3,029

## DENTAL REPORT

Number of patients examined .....	288	230	108	65	691
Number of patients treated .....	200	195	53	25	473
Number of Prophylactic treatments .....	96	106	34	19	255
Number of fillings .....	212	203	52	34	501
Number of extractions .....	107	104	33	6	250
Number of new dentures made .....	6	5	4		15
Number of dentures repaired .....	1				1
Number of denture adjustments .....	14	6	6	2	28

## OPERATING ROOM REPORT

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University Hospital	Total
Collapse Treatment:					
1. Pneumothorax:					
Under treatment Jan. 1, 1939 .....	90	47	18	9	164
New cases begun in 1939 .....	41	36	9	.....	86
Cases under treatment admitted and carried on .....	8	5	3	.....	16
Number treated during year .....	139	88	30	9	266
Number discontinued .....	40	38	7	3	88
Under treatment at end of year .....	99	50	23	6	178
Number unsuccessfully attempted .....	18	10	3	2	33
Pneumothorax refills in 1939 .....	3,699	2,073	481	181	6,434
2. Pneumolysis .....					
.....	12	.....	.....	.....	12
3. Oleothorax refills .....					
.....	15	.....	.....	.....	15
Intravenous Injections:					
Calcium Chloride .....	662	248	.....	.....	910
Calcium Gluconate .....	.....	.....	367	.....	367
Glucose and Saline .....	55	8	19	2	84
Sanocrysin .....	332	.....	.....	.....	332
Neo Salvarsan .....	3	.....	.....	.....	3
Mercupurin .....	.....	.....	4	.....	4
Aminophyllin .....	.....	.....	12	.....	12
Other Treatments:					
Chest aspiration and irrigation .....	480	80	.....	8	568
Other aspirations .....	.....	3	.....	.....	3
Cystoscopic examinations .....	2	1	.....	.....	3
Injection of Lipiodol in trachea .....	6	.....	.....	.....	6
Spinal puncture .....	4	2	1	1	8
Basal metabolism .....	14	17	1	.....	32
Drainage of abscess .....	8	.....	.....	.....	8
Pelvic examination .....	6	.....	.....	.....	6
Plaster spica .....	4	.....	.....	2	6
Phrenicopraxis .....	26	.....	.....	.....	26
Orchidopexy (1st and 2nd stages) .....	1	.....	.....	.....	1
Removal of gland .....	2	.....	.....	.....	2
Bronchoscopy .....	7	1	.....	.....	8
Paracentesis of ear drum .....	1	.....	.....	.....	1
Thyroidectomy .....	1	.....	.....	.....	1
Sinus irrigation .....	.....	2	.....	.....	2
Phrenicotomy .....	.....	5	.....	.....	5
Blood transfusions .....	.....	3	.....	.....	3
Appendectomy .....	.....	1	.....	.....	1
Electrocardiogram .....	.....	.....	1	1	2
Staphylococci toxoid .....	.....	.....	8	.....	8
Radium insertion .....	.....	.....	1	.....	1
Tonsillectomy .....	.....	.....	1	.....	1
Confinement .....	.....	.....	1	.....	1
Inductotherm .....	.....	.....	.....	4	4
Biopsy of lupus .....	.....	.....	.....	1	1
Excision of anal fistula .....	.....	.....	.....	1	1
Hibbs fusion .....	.....	.....	.....	1	1

## X-RAY REPORT

Radiographs Made:					
Thorax .....	1,805	564	153	48	2,570
Sinuses .....	20	2	.....	.....	22
Pelvis and hips .....	15	1	2	.....	18
Spine .....	22	10	4	3	39
Leg .....	3	.....	.....	.....	3
Shoulder .....	5	1	.....	.....	6
Knee .....	6	2	.....	1	9
Foot and ankle .....	7	1	.....	.....	8
Femur .....	1	.....	.....	.....	1
Skull .....	2	.....	.....	.....	2
Hand .....	5	.....	.....	.....	5
Thumb .....	1	.....	.....	.....	1
Wrist .....	3	.....	.....	.....	3
Teeth .....	15	2	.....	1	18
Abdomen .....	1	.....	.....	.....	1
Finger .....	2	.....	.....	.....	2
Oesophagus .....	1	.....	.....	.....	1
G.I. tract .....	34	.....	1	.....	35
G.U. tract .....	11	.....	2	.....	13
Jaw .....	1	.....	.....	.....	1
	1,960	583	162	53	2,758
Fluoroscopic Examinations .....					
Gas cases .....	3,541	2,220	522	265	.....
G.I. tract .....	86	6	2	9	.....
Chest (Lipiodol) .....	10	.....	6	.....	.....
Treatments given .....	13	.....	.....	.....	.....

## CLINIC FILMS MADE AND INTERPRETED

	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
Sarcee School .....	31		31
Morley School .....	99		99
Hobbema School .....	148		148
Youville School .....		157	157
Edmonton School .....		116	116
Blue Quill School, St. Paul .....		167	167
	<u>2,959</u>	<u>1,933</u>	<u>4,892</u>
Films referred for interpretation .....	604	368	972

## CLINIC REPORT, 1939

## STATIONARY CLINICS:

Place	New Cases of T.B.						Contacts		
	No. of Clinics	Active	Inactive	Non-Pulmonary	New Exams.	Review Exams.	New	Rev.	Total Exams.
Bonnyville .....	2		1		45	19	15	4	64
Calgary .....	49	20	5	3	221	158	67	57	379
Camrose .....	5	3	1	1	87	39	37	19	126
Central Alberta Sanatorium .....	52	37	9	3	272	322	127	149	594
Drumheller .....	12	8	5		127	137	38	71	264
Edmonton .....	104	49	25	6	657	478	294	209	1135
Hanna .....	5		4		60	32	29	16	92
Lethbridge .....	6	7	2		111	129	35	45	240
Medicine Hat .....	6	11	6	2	85	135	34	51	220
Red Deer .....	6	3	3	2	72	73	26	32	145
Stettler .....	6	4	2	1	67	39	23	13	106
St. Paul .....	3	1			39	29	13	23	68
Vegreville .....	5				33	18	18	10	51
	<u>261</u>	<u>143</u>	<u>63</u>	<u>18</u>	<u>1876</u>	<u>1608</u>	<u>756</u>	<u>699</u>	<u>3484</u>

## TRAVELLING CLINICS:

Athabasca .....	1				12		5		12
Barrhead .....	2				43	3	32	1	46
Beaverlodge .....	1		1		11		9		11
Bellevue .....	1				5	4	2	3	9
Berwyn .....	1				1	1	2		2
Blairmore .....	1				2	13	1	7	15
Claresholm .....	1				7	3	3	1	10
Clyde .....	1				7	4	3	2	11
Coleman .....	1	1			7	1	1		8
Daysland .....	1				9	2	1		11
Edson .....	1	1	1		5	16	2	8	21
Eckville .....	1				13	5	3	2	18
Elk Point .....	1	3	1		43	5	18	1	48
Fairview .....	1		1		10	8		7	18
Faust .....	1			2	23	9	19		32
Galahad .....	1				10	2		1	12
Grande Prairie .....	1	5	2		48	5	27		53
Hardisty .....	1	1			42	5	13	2	47
High Prairie .....	1	2	1		29	10	10	5	39
High River .....	1				13	21	8	6	34
Hillcrest .....	1		2		9	6	1	2	15
Innisfree .....	1				2	13	1	9	15
Irma .....	1				8	1	4	1	9
Islay .....	1				15	12	5	14	27
Jasper .....	1				5				5
Killam .....	1			1	5	1			6
Lac La Biche .....	1	2		3	26	7	23	5	33
Lamont .....	2	2		1	31	2	16	1	33
Macleod .....	1		1		9	8	4	6	17
Mannville .....	1				2	2			4
Marwayne .....	1				12	2	8	8	14
Mundare .....	1				10	11	5	9	21
Myrnam .....	1				19	3	6		22
McLennan .....	1	3		1	9	4	3		13
Peace River .....	1		2		33	8	7		41
Pincher Creek .....	1	1	1		8	11	5	5	19
Provost .....	1				2	1			3
Radway .....	1				5		1		5
Rocky Mountain House .....	1				8	3	2		11
Sexsmith .....	1	1	1		11	4	6		15

Place	New Cases of T.B.				Contacts				
	No. of Clinics	Active	Inactive	Non-Pulmonary	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
Vermillion .....	1	.....	.....	.....	1	.....	.....	.....	1
Viking .....	1	1	.....	.....	14	2	9	.....	16
Vilna .....	1	3	1	.....	20	8	13	2	28
Vulcan .....	1	.....	2	.....	15	15	6	5	30
Wainwright .....	1	.....	.....	.....	11	8	3	7	19
Westlock .....	1	1	.....	.....	5	1	1	.....	6
Willington .....	1	.....	.....	.....	18	11	8	9	29
	55	27	17	8	714	288	316	137	1002

## SCHOOL SURVEYS

	Number	New Cases of T.B. Found
Edmonton Normal .....	320	1
Calgary Normal .....	283	1
Crescent Heights School .....	122	.....
Drumheller .....	107	.....
Technical Institute .....	437	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	.....
Edmonton Residential Edmonton .....	116	1
	1233	12

## SUMMARY

	No. of Clinics and Surveys.	No. of Cases of T.B. Found			Total Exam. & Surveyed
		Active	Inactive	Non-Pulmonary.	
Stationary .....	261	143	63	18	3484
Travelling .....	55	27	17	8	1002
School Surveys .....	5	3	6	.....	1269
Indian Surveys .....	9	12	.....	.....	1233
Staff, Central Alberta Sanatorium .....	.....	.....	.....	.....	44
	330	185	86	26	7032

THE FOLLOWING TABLES REFER TO 340 PATIENTS DISCHARGED DURING 1939  
TABLE I.

	On Admission		Residence		On Discharge					
	No.	%	Not Over 31 days	Over 31 days	A.	AA.	Q.	I.	U.	D.
I. No Disease .....	6		6							
II. Undiagnosed .....	1		1							
III. Non-Tuberculous .....	26		10	16				10	5	1
IV. Tuberculosis Inactive .....	14		10	4				1	3	
	<u>47</u>	<u>14%</u>	<u>27</u>	<u>20</u>				<u>11</u>	<u>8</u>	<u>1</u>
V. Childhood T.B.:										
Parenchymal .....										
Tracheo-Bronchial .....	3			3			1	2		
Combined .....	8		1	7			1	6		
	<u>11</u>	<u>3¼%</u>	<u>1</u>	<u>10</u>			<u>2</u>	<u>8</u>		
VI. Adult Type:										
(a) Pulmonary Clinical:										
Minimal .....	36		1	35		3	9	22	1	
Mod. Advanced .....	52		6	46		2	2	38	4	
Far Advanced .....	26		3	23	1		2	8	9	3
	<u>114</u>	<u>33.5%</u>	<u>10</u>	<u>104</u>	<u>1</u>	<u>5</u>	<u>13</u>	<u>68</u>	<u>14</u>	<u>3</u>
(b) Pulmonary Positive:										
Minimal .....	1		1							
Mod. Advanced .....	29			29			4	17	4	4
Far Advanced .....	117		11	106		2	19	44	5	36
Terminal .....	3		3							
	<u>150</u>	<u>44%</u>	<u>15</u>	<u>135</u>		<u>2</u>	<u>23</u>	<u>61</u>	<u>9</u>	<u>40</u>
VII. T.B. Pleurisy .....	13	3.8%	1	12				11	1	
VIII. Non-Pul. Tuberculosis .....	5	1.4%	2	3				3		
Total Tuberculous .....	293	86%	29	264	1	7	38	151	24	34
Total "Treated" Patients .....				284	7	7	38	162	32	44
"Untreated." not here over 31 days .....			56					10	33	13
Grand Total .....	340		56	284	1	7	38	172	65	57

**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:

On Admission	Number.	On Discharge		
		Improved.	Not Improved.	Died.
Tuberculous Pleurisy .....	12	11	1	
Childhood Type .....	10	10		
Adult Type:				
Minimal .....	35	34	1	
Moderately Advanced .....	75	63	8	4
Far Advanced .....	129	76	14	39
	<u>261</u>	<u>194</u>	<u>24</u>	<u>43</u>

## III.—CLASSIFICATION ON ADMISSION OF 340 DISCHARGED PATIENTS:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
No Disease .....	1	5	6
Undiagnosed .....		1	1
Non-Tuberculous .....	13	13	26
Tuberculosis:			
Inactive .....	12	2	14
Pulmonary—Active .....	119	169	288
Non-Pulmonary .....	1	4	5
	<u>146</u>	<u>194</u>	<u>340</u>

## IV.—DIAGNOSIS OF NON-TUBERCULOUS CASES:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Bronchogenic Carcinoma .....	2	2	4
Bronchiectasis .....	.....	3	3
Cystis Disease .....	1	.....	1
Duodenal Ulcer .....	.....	1	1
Foreign Body in Lung .....	1	.....	1
Secondary Lung Malignancy .....	.....	1	1
Pleural Empyema .....	2	.....	2
Pulmonary Congestion .....	.....	1	1
Pulmonary Abscess .....	3	1	4
Pulmonary Fibrosis .....	.....	1	1
Pleurisy .....	1	.....	1
Pneumonokoniosis .....	1	.....	1
Pneumonia .....	1	1	2
Sarcoma of Prostate .....	.....	1	1
Sarcoma of Thorax .....	1	.....	1
Gonorrhoea .....	.....	1	1
	<u>13</u>	<u>13</u>	<u>26</u>

## V.—SEX:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Male .....	72	79	151
Female .....	74	115	189
	<u>146</u>	<u>194</u>	<u>340</u>

## VI.—SOCIAL:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Single .....	74	102	176
Married .....	59	79	138
Widowed .....	9	9	18
Separated or Divorced .....	4	4	8
	<u>146</u>	<u>194</u>	<u>340</u>

## VII.—RELIGION:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
Baptist .....	4	11	15
Church of Christ .....	1	.....	1
Church of England .....	20	19	39
Evangelical .....	1	.....	1
Greek Catholic .....	6	17	23
Greek Orthodox .....	3	7	10
International Bible Student .....	1	.....	1
Jehovah's Witness .....	.....	1	1
Hebrew .....	.....	1	1
Latter Day Saint .....	1	.....	1
Lutheran .....	19	19	38
Methodist .....	2	2	4
Mennonite .....	1	.....	1
Nazarene .....	.....	1	1
Pentecostal .....	1	2	3
Presbyterian .....	17	9	26
Roman Catholic .....	31	56	87
Salvation Army .....	.....	2	2
United .....	34	38	72
Undenominational .....	4	9	13
	<u>146</u>	<u>194</u>	<u>340</u>

## VIII.—AGE ON ADMISSION:

	Active T.B.	Non-T.B., Inactive	Total
From 1 to 9 years .....	11	3	14
From 10 to 14 years .....	21	1	22
From 15 to 19 years .....	34	5	39
From 20 to 29 years .....	115	7	122
From 30 to 39 years .....	43	13	56
From 40 to 49 years .....	43	5	48
From 50 to 59 years .....	20	7	27
From 60 to 69 years .....	3	5	8
From 70 to 80 years .....	3	1	4
	<u>293</u>	<u>47</u>	<u>340</u>

## IX.—OCCUPATIONS—WOMEN:

	Active T.B.	Non-T.B., Inactive	Total
Housewife .....	88	11	99
Housework .....	12	2	14
Nurse .....	9	.....	9
Nurse-in-Training .....	5	.....	5
Religious .....	1	.....	1
Stenographer .....	2	.....	2
Student .....	23	3	26
Seamstress .....	1	.....	1
Saleslady .....	1	.....	1
Teacher .....	4	.....	4
Waitress .....	1	.....	1
No Occupation (at home) .....	18	8	26
	<u>165</u>	<u>24</u>	<u>189</u>



## X.—OCCUPATIONS—MEN:

	Active T.B.	Non-T.B., Inactive	Total
Accountant .....	2	.....	2
Advertising Solicitor .....	2	.....	2
Blacksmith .....	1	.....	1
Carpenter .....	2	.....	2
Carton Maker .....	1	.....	1
Clerical Worker .....	7	.....	7
Chemical Engineer .....	1	.....	1
Conductor .....	1	.....	1
Farmer .....	36	11	47
Fireman .....	1	.....	1
Gardener .....	1	.....	1
Janitor .....	1	.....	1
Labourer .....	20	2	22
Mechanic .....	1	1	2
Painter .....	2	.....	2
Porter .....	1	.....	1
Printer .....	1	.....	1
Priest .....	1	.....	1
Physician .....	2	.....	2
Miner (Coal) .....	2	2	4
Road Supervisor .....	.....	1	1
Salesman (In Store) .....	3	1	4
Salesman (Outside) .....	1	.....	1
Student .....	28	1	29
Steamfitter .....	.....	1	1
Teacher .....	3	.....	3
Trapper .....	3	.....	3
Truck Driver .....	2	.....	2
Waiter .....	2	.....	2
Yardman .....	.....	1	1
No Occupation (Children) .....	.....	2	2
	128	23	151

## XI.—NATIVITY

	Active T.B.	Non-T.B., Inactive	Total
Alberta .....	129	16	145
Canada (Other Provinces) .....	48	11	59
Austria .....	2	.....	2
Belgium .....	1	.....	1
China .....	.....	1	1
Denmark .....	3	1	4
England .....	14	2	16
Ireland .....	4	1	5
Italy .....	1	.....	1
Jugo-Slavia .....	1	1	2
Germany .....	1	2	3
Hungary .....	2	.....	2
Newfoundland .....	1	.....	1
Poland .....	14	5	19
Norway .....	7	.....	7
Roumania .....	1	.....	1
Russia .....	5	1	6
Scotland .....	15	1	16
Switzerland .....	1	.....	1
Sweden .....	3	1	4
United States .....	32	4	36
Wales .....	2	.....	2
Ukrainia .....	6	.....	6
	293	47	340

## XII.—LENGTH OF RESIDENCE IN ALBERTA:

	Active T.B.	Non-T.B., Inactive	Total
Born in Alberta .....	129	16	145
In Alberta from 1 to 5 years .....	13	1	14
In Alberta from 6 to 9 years .....	16	3	19
In Alberta from 10 to 14 years .....	31	7	38
In Alberta from 15 to 19 years .....	23	8	31
In Alberta from 20 to 30 years .....	62	9	71
In Alberta over 30 years .....	19	3	22
	293	47	340

## XIII.—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	7
Chinese	2	1	3
Esthonian	2	.....	2
English	41	6	47
French	13	2	15
Finnish	1	.....	1
German	12	5	17
Hebrew	1	.....	1
Hungarian	3	.....	3
Irish	38	5	43
Indian	14	3	17
Italian	1	.....	1
Jugo-Slav.	1	2	3
Lithuanian	1	.....	1
Metis	23	5	28
Norwegian	24	1	25
Polish	11	2	13
Roumanian	1	.....	1
Russian	2	.....	2
Swedish	13	.....	13
Swiss	1	.....	1
Scottish	50	7	57
Ukrainian	19	5	24
Welsh	4	.....	4
	293	47	340

## XIV.—RESIDENCE OF DISCHARGED PATIENTS:

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
<b>CITIES:</b>			
Calgary	38	1	39
Drumheller	2	1	3
Edmonton	7	44	51
Lethbridge	6	.....	6
Medicine Hat	6	.....	6
Wetaskiwin	1	2	3
<b>TOWNS:</b>			
Cardston	1	.....	1
Camrose	.....	5	5
Carmangay	1	.....	1
Claresholm	1	.....	1
Coleman	1	.....	1
Didsbury	.....	1	1
Grande Prairie	1	2	3
Edson	.....	2	2
Hanna	2	.....	2
Hardisty	.....	2	2
Innisfall	1	.....	1
Macleod	1	.....	1
Morinville	1	.....	1
Nanton	1	.....	1
Peace River	3	1	4
Ponoka	1	1	2
Redcliff	1	.....	1
St. Albert	.....	4	4
Stettler	1	.....	1
Tofield	.....	1	1
Vegreville	.....	2	2
Vermilion	1	.....	1
<b>VILLAGES:</b>			
Bentley	.....	1	1
Bittern Lake	.....	1	1
Black Diamond	1	.....	1
Bonnyville	.....	2	2
Chauvin	.....	2	2
Delia	1	.....	1
Innisfree	.....	1	1
Lac La Biche	.....	3	3
Lamont	.....	1	1
Millet	.....	1	1
Minburn	.....	1	1
Mirror	.....	1	1
Mundare	.....	4	4
Provost	2	1	3
Rimbey	.....	1	1
Ryley	.....	1	1
St. Paul	.....	2	2
Sexsmith	.....	2	2
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 Indian School, Edmonton	.....	5	5
Blackfoot Indian School, Gleichen	1	.....	1

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
<b>MUNICIPAL DISTRICTS:</b>			
M.D. 33	1	.....	1
M.D. 36	1	.....	1
M.D. 69	1	.....	1
M.D. 98	1	.....	1
M.D. 159	2	.....	2
M.D. 189	1	.....	1
M.D. 190	2	.....	2
M.D. 219	1	.....	1
M.D. 220	1	.....	1
M.D. 221	4	.....	4
M.D. 242	3	.....	3
M.D. 248	1	.....	1
M.D. 251	2	.....	2
M.D. 275	1	.....	1
M.D. 277	2	.....	2
M.D. 281	1	.....	1
M.D. 336	1	.....	1
M.D. 339	1	1	2
M.D. 340	1	.....	1
M.D. 363	.....	1	1
M.D. 367	3	.....	3
M.D. 371	1	.....	1
M.D. 391	1	.....	1
M.D. 397	1	.....	1
M.D. 398	.....	1	1
M.D. 400	1	.....	1
M.D. 401	.....	2	2
M.D. 422	1	.....	1
M.D. 424	.....	1	1
M.D. 426	2	.....	2
M.D. 427	1	1	2
M.D. 457	.....	2	2
M.D. 458	.....	2	2
M.D. 460	.....	2	2
M.D. 466	.....	1	1
M.D. 473	1	.....	1
M.D. 485	.....	1	1
M.D. 486	.....	1	1
M.D. 489	1	.....	1
M.D. 512	1	.....	1
M.D. 513	1	1	2
M.D. 514	.....	1	1
M.D. 516	1	.....	1
M.D. 519	1	1	2
M.D. 520	.....	2	2
M.D. 522	.....	1	1
M.D. 543	.....	1	1
M.D. 548	.....	6	6
M.D. 552	.....	1	1
M.D. 572	.....	1	1
M.D. 575	.....	3	3
M.D. 578	1	2	3
M.D. 579	.....	2	2
M.D. 580	1	3	4
M.D. 582	.....	2	2
M.D. 605	.....	1	1
M.D. 608	.....	1	1
M.D. 609	.....	1	1
M.D. 739	.....	2	2
M.D. 740	3	3	6
M.D. 829	1	2	3
M.D. 857	.....	2	2
M.D. 858	.....	2	2
<b>LOCAL IMPROVEMENT DISTRICTS:</b>			
L.I.D. 67	1	.....	1
L.I.D. 68	1	.....	1
L.I.D. 71	1	.....	1
L.I.D. 155	1	.....	1
L.I.D. 185	1	.....	1
L.I.D. 276	3	.....	3
L.I.D. 376	1	.....	1
L.I.D. 461	.....	1	1
L.I.D. 528	.....	4	4
L.I.D. 541	.....	1	1
L.I.D. 553	.....	1	1
L.I.D. 602	.....	1	1
L.I.D. 607	.....	1	1
L.I.D. 631	.....	1	1
L.I.D. 636	.....	1	1
L.I.D. 667	.....	1	1
L.I.D. 695	.....	1	1
L.I.D. 706	.....	1	1
L.I.D. 742	1	.....	1
L.I.D. 765	.....	1	1
L.I.D. 769	1	.....	1
L.I.D. 796	1	.....	1
L.I.D. 800	.....	1	1
L.I.D. 826	.....	1	1
L.I.D. 827	.....	1	1
L.I.D. 887	.....	2	2
L.I.D. 946	.....	2	2
	146	194	340

## 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
Expenses:	
Board .....	35,000.00
Clothing .....	7,480.00
Hospital and Medical Supplies .....	650.00
Medical Services .....	3,000.00
Printing, Stationery and Office Supplies .....	1,000.00
Telegrams and Telephones .....	500.00
Travelling Expenses .....	5,500.00
Unclassified .....	1,655.00
	<hr/>
	\$70,435.00

## CHILDREN MADE WARDS OF THE SUPERINTENDENT OF CHILD WELFARE

Age	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
1 years and under	132	157	159	145	167	148	194	229	206	255
2 years	41	13	5	13	8	8	9	7	11	12
3 years	9	9	5	5	8	5	7	12	4	6
4 years	10	7	1	4	4	5	10	5	8	12
5 years	15	2	3	3	7	10	5	5	5	9
6 years	12	4	4	5	5	7	9	12	5	16
7 years	8	3	3	5	4	7	5	7	6	13
8 years	10	9	6	5	5	10	5	10	6	16
9 years	6	3	3	3	8	6	7	10	4	15
10 years	12	8	5	10	8	15	5	7	5	16
11 years	10	6	4	4	8	9	6	8	8	9
12 years	12	5	6	13	3	10	7	5	6	11
13 years	9	8	10	6	6	9	8	4	10	9
14 years	12	9	7	7	4	5	9	7	7	12
15 years	20	9	7	6	4	7	4	4	5	10
16 years	11	3	11	8	8	12	8	3	9	8
17 years	5	4	3	4	1	5	.....	2	1	3
Total	334	259	242	246	258	278	298	337	306	432

## NEGLECTED CHILDREN—CAUSE

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Neglected	168	80	45	51	49	85	52	53	71	50
Mother unable to support	154	161	157	152	168	176	213	247	204	237
Abandoned	.....	1	.....	.....	.....	.....	.....	.....	10	8
Immoral conduct	2	1	1	.....	.....	.....	.....	.....	3	1
Morals of parent or parents	2	10	24	15	30	7	9	10	5	35
Orphans	.....	5	1	5	5	4	.....	7	4	39
Cruelty of parents	.....	.....	.....	4	.....	.....	8	3	2	.....
Inadequate parental control	.....	.....	.....	.....	1	.....	4	1	1	6
Father dead, mother insane	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
Mother in gaol	.....	.....	.....	.....	.....	.....	1	.....	.....	4
Incorrigible	3	1	2	3	1	.....	.....	.....	.....	4
Mother in Mental Hospital	.....	.....	.....	.....	.....	.....	1	3	.....	10
Mother not capable	2	.....	.....	4	1	.....	.....	.....	.....	.....
Mother dead	3	.....	12	1	.....	.....	.....	1	.....	19
Mother deserted	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Mother drinking	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Home conditions	.....	.....	.....	.....	.....	.....	.....	.....	5	19
No proper guardianship	.....	.....	.....	.....	.....	.....	.....	.....	1	.....

## NEGLECTED CHILDREN—RELIGION

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Anglican	34	57	19	49	34	38	33	42	51	52
Presbyterian	35	25	26	25	13	15	21	13	21	20
Roman Catholic	93	50	52	64	74	68	66	82	48	106
United	28	31	26	37	38	32	20	49	61	97
Baptist	21	8	10	19	9	3	18	10	7	10
Protestant	55	34	73	27	41	46	78	70	56	59
Salvation Army	13	.....	5	2	1	5	8	7	2	8
Lutheran	17	15	11	9	18	12	18	31	27	23
Greek Orthodox	15	20	11	2	5	23	20	15	13	24
Latter Day Saints	.....	.....	6	2	8	.....	.....	2	3	1
Greek Catholic	3	.....	3	8	9	30	16	3	9	12
Mohammedan	.....	.....	.....	.....	.....	5	.....	.....	.....	.....
Nazarene	.....	.....	.....	2	1	1	.....	2	.....	2
Pentecostal	1	.....	.....	.....	3	.....	.....	.....	.....	4
Reformed	15	2	.....	.....	.....	.....	.....	.....	.....	.....
Christian	4	.....	.....	.....	.....	.....	.....	.....	1	1
Christian Science	.....	17	.....	.....	.....	.....	.....	.....	1	.....
Evangelical	.....	.....	.....	.....	1	.....	.....	.....	2	.....
Gospel Hall	.....	.....	.....	.....	1	.....	.....	1	.....	.....
Four Square Gospel	.....	.....	.....	.....	2	.....	.....	.....	1	.....
Mennonite	.....	.....	.....	.....	.....	.....	.....	1	.....	8
Seventh Day Adventist	.....	.....	.....	.....	.....	.....	.....	.....	3	3
Church of Christ	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Free Baptist	.....	.....	.....	.....	.....	.....	.....	.....	.....	1

## NEGLECTED CHILDREN—NATIONALITY

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Canadian	155	167	114	219	236	248	268	569	303	426
American	23	7	2	.....	1	2	2	3	1	1
Polish	3	.....	1	.....	5	.....	1	8	2	3
Scotch	7	4	13	2	1	.....	.....	5	2	.....
French	15	7	1	3	2	2	2	.....	.....	.....
Russian	18	26	24	5	1	10	19	.....	.....	.....
English	40	27	36	5	3	1	1	.....	.....	.....
German	31	19	27	3	.....	5	4	.....	.....	.....
Irish	5	2	6	1	1	4	.....	.....	.....	.....
Half-breed	7	.....	2	2	.....	.....	.....	.....	.....	.....
Ukrainian	2	.....	4	2	2	.....	.....	.....	.....	.....
Welsh	6	.....	.....	.....	.....	.....	.....	.....	.....	2
Syrian	.....	.....	.....	.....	.....	5	.....	.....	.....	.....
Italian	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
Chinese	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Swedish	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Danish	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Austrian	22	.....	10	4	6	.....	.....	.....	.....	.....
Legitimate	180	136	85	94	84	118	105	69	87	.....
Illegitimate	154	123	157	152	174	160	193	263	219	.....



## DELINQUENTS—OFFENCES

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Theft	362	247	189	131	270	283	294	428	516	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	...	...	...	...	...	1	...	8	...
Forgery	7	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	...	...	...	...	2	1	1	3	3	3
Indecent assault	10	...	...	5	4	2	6	2	1	9
Creating disturbance	1	2	2	...	...	4	...	1	3	3
Railway Act	5	3	2	44	6	4	38	17	10	7
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
Delinquency	...	19	...	4	4	...	8	...	...	...
Poisoning cattle	...	...	...	...	...	...	2	...	...	...
Molesting children	...	...	...	...	2	...	...	...	...	...

## DELINQUENTS—SENTENCES

	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	...	...	...
Mischief	...	...	...	...	...	...	...	...	15	10
Attempt B. and E.	...	...	...	...	...	...	...	...	2	11
Perjury	...	...	...	...	...	...	...	...	...	1
Prairie Fire Act	...	...	...	...	...	...	...	...	1	4

## MOTHERS' ALLOWANCE ACT

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Suspended sentence	181	76	70	103	79	105	164	94	108	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	1	...	...	...	...	...	...	...	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	...	...	...	...	...	...	...	...	...	\$ 200.00
Travelling Expenses	...	...	...	...	...	...	...	...	...	800.00
Unclassified	...	...	...	...	...	...	...	...	...	245.00
										\$1,245.00

	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

1930 .....	\$ 9,032.61	1935 .....	\$ 5,811.61
1931 .....	7,871.01	1936 .....	6,362.74
1932 .....	7,603.78	1937 .....	8,701.70
1933 .....	5,526.93	1938 .....	12,970.78
1934 .....	6,746.00	1939 .....	12,627.16

## APPRECIATION

Our sincerest thanks are due to all those who have so kindly co-operated 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 Dependents
1930-31 .....	\$466,536.00	1,270	3,409
1931-32 .....	479,607.04	1,499	3,747
1932-33 .....	439,195.75	1,675	3,882
1933-34 .....	439,982.99	1,724	4,060
1934-35 .....	462,393.11	1,812	4,274
1935-36 .....	507,501.68	2,088	4,764
1936-37 .....	575,508.41	2,319	5,172
1937-38 .....	613,564.00	2,317	5,177
1938-39 .....	622,836.71	2,304	4,970
1939-40 .....	633,710.60	2,262	4,673



THE HISTORY OF THE UNITED STATES

CHAPTER I. THE DISCOVERY OF AMERICA. The first voyage of Christopher Columbus to the West Indies in 1492.

CHAPTER II. THE SETTLEMENT OF AMERICA. The first permanent English settlement at Jamestown in 1607.

CHAPTER III. THE REVOLUTIONARY WAR. The struggle for independence from Great Britain, 1775-1783.

CHAPTER IV. THE WESTERN EXPANSION. The acquisition of new territories and the growth of the nation.

CHAPTER V. THE CIVIL WAR. The conflict between the Union and the Confederacy, 1861-1865.

CHAPTER VI. THE RECONSTRUCTION AND MODERN AMERICA. The rebuilding of the South and the progress of the nation.

ANNUAL REPORT  
OF THE  
**Vital Statistics Branch**  
OF THE  
DEPARTMENT OF PUBLIC HEALTH  
PROVINCE OF ALBERTA  
1939

ANNUAL REPORT  
of the  
Vital Statistics Branch  
of the  
DEPARTMENT OF PUBLIC HEALTH  
PROVINCE OF ALBERTA  
1921

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99	98. The ...
100	99. The ...
101	100. The ...

# 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 .....	20.3	Ontario .....	17.1
Prince Edward Island .....	22.3	Manitoba .....	18.7
Nova Scotia .....	21.3	Saskatchewan .....	19.0
New Brunswick .....	25.0	ALBERTA .....	20.9
Quebec .....	24.8	British Columbia .....	15.9

#### 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:

MARRIAGE RATES			
Canada .....	9.2	Ontario .....	9.2
Prince Edward Island .....	6.7	Manitoba .....	10.6
Nova Scotia .....	9.0	Saskatchewan .....	7.7
New Brunswick .....	8.3	ALBERTA .....	9.9
Quebec .....	9.0	British Columbia .....	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 .....	9.6	Ontario .....	10.0
Prince Edward Island .....	11.8	Manitoba .....	8.5
Nova Scotia .....	11.4	Saskatchewan .....	6.3
New Brunswick .....	11.3	ALBERTA .....	7.3
Quebec .....	10.4	British Columbia .....	9.7

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:

Causes of Death	1939		1938		1937		1936		1935	
	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 Population
Diseases of the Heart .....	997	126	895	114	849	109	801	103	826	105
Cancer .....	647	82	682	87	598	77	640	82	622	79
Diseases of the Arteries .....	550	70	455	58	453	58	427	55	404	51
Violent Deaths (Suicides excepted) .....	364	46	357	46	372	48	419	54	393	50
Pneumonia (all forms) .....	362	46	488	62	464	59	440	57	450	57
Pulmonary Tuberculosis .....	217	27	206	26	266	34	294	38	266	34
Influenza .....	216	27	174	22	473	61	340	44	194	24
Nephritis .....	214	27	243	31	240	31	190	24	194	24
Appendicitis .....	109	14	146	18	108	14	155	20	156	20
Suicides .....	103	13	100	12	101	13	87	11	84	11
Cerebral Haemorrhage .....	96	12	102	13	104	13	105	13	113	14
Diabetes Mellitus .....	90	11	85	11	70	9	70	9	71	9
Diarrhoea and Enteritis .....	90	11	118	15	115	15	124	16	88	11
Puerperal Causes .....	59	8	68	8	77	10	91	11	69	9
Whooping Cough .....	33	4	30	4	49	6	73	9	43	5
Scarlet Fever .....	19	2	25	3	24	3	23	3	8	1
Diphtheria .....	7	1	18	2	10	1	9	1	8	1
Typhoid and Paratyphoid .....	7	1	12	2	6	1	20	2	11	1
Measles .....	6	1	30	4	123	16	25	3	27	3
Poliomyelitis .....	5	1	15	2	13	2	4	.....	15	2

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 .....	61	Ontario .....	47
Prince Edward Island .....	79	Manitoba .....	55
Nova Scotia .....	64	Saskatchewan .....	51
New Brunswick .....	79	ALBERTA .....	46
Quebec .....	78	British Columbia .....	39

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

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1936	1931		1936	1931
<b>Province</b> .....	<b>772,782</b>	<b>731,605</b>	<b>Division No. 2—Continued:</b>		
<b>Division No. 1: Medicine Hat</b>	<b>29,699</b>	<b>28,849</b>	Towns—Continued:		
1 L.I.D. ....	93	90	Coleman .....	2,129	1,704
2 L.I.D. ....	162	128	Diamond City .....	143	119
3 L.I.D. ....	172	152	Granum .....	255	329
4 L.I.D. ....	555	526	Macleod .....	1,365	1,447
5 L.I.D. ....	1,251	1,097	Magrath .....	1,217	1,224
6 L.I.D. ....	643	678	Pincher Creek .....	999	1,024
31 L.I.D. ....	64	38	Raymond .....	2,094	1,849
32 L.I.D. ....	592	580	Villages:		
33 Flowery Plains .....	533	477	Coaldale .....	255	251
34 Burlington .....	958	793	Coalhurst .....	774	953
35 L.I.D. ....	430	307	Cowley .....	141	151
36 Warner .....	1,305	1,214	Frank .....	258	268
61 L.I.D. ....	821	808	Monarch .....	103	117
62 L.I.D. ....	716	684	Pincher City .....	38	45
63 L.I.D. ....	625	570	Stirling .....	392	376
64 Forty Mile .....	1,148	1,060	<b>Division No. 3: Bow</b>	<b>14,710</b>	<b>15,066</b>
65 Eureka .....	1,190	1,148	96 McLean .....	1,234	713
66 L.I.D. ....	2,549	2,082	121 L.I.D. ....	2,785	452
91 L.I.D. ....	1,170	1,115	122 L.I.D. Pt. Jubilee .....	2,020	
92 Excelsior .....	974	905	123 Pt. Bow Slope .....	4,416	209
93 L.I.D. ....	890	852	125 L.I.D. ....	435	713
94 Bow Island .....	614	605	127 Pt. Clifton .....	914	
Cities:			Towns:		
Medicine Hat .....	9,592	10,300	Bassano .....	574	615
Towns:			Brooks .....	697	708
Bow Island .....	308	314	Redcliffe .....	990	1,192
Irvine .....	278	234	Villages:		
Taber .....	1,341	1,279	Duchess .....	150	114
Villages:			Empress .....	303	314
Burdett .....	90	121	Enchant .....	83	92
Milk River .....	326	350	Jenner .....	49	62
Warner .....	309	342	Retlaw .....	60	84
<b>Division No. 2: Macleod</b>	<b>57,499</b>	<b>57,186</b>	<b>Division No. 4: Nanton</b>	<b>28,285</b>	<b>29,067</b>
7 L.I.D. ....	330	369	97 L.I.D. ....	2,933	2,258
8 L.I.D. ....	1,394	1,474	98 Little Bow .....	1,526	1,589
9 L.I.D. ....	1,547	1,580	127 Clifton Pt. ....	867	
10 Cochrane .....	1,613	1,320	128 Harmony .....	1,052	1,157
37 Sugar City .....	2,192	1,993	129 Clear Lake .....	2,021	2,231
38 L.I.D. ....	1,176	1,276	130 L.I.D. ....	348	395
39 Kerr .....	1,830	2,007	131 L.I.D. ....	38	46
40 Castle River .....	606	540	157 Marquis .....	1,773	1,923
67 L.I.D. ....	4,635	4,691	158 Royal .....	1,580	1,751
68 L.I.D. ....	2,467	2,340	159 Riley .....	1,834	1,959
69 Bright .....	1,198	1,442	160 L.I.D. ....	676	381
70 Livingstone .....	1,466	1,502	161 L.I.D. ....	43	40
71 L.I.D. ....	4,369	4,282	189 Dinton .....	1,887	1,990
99 Argyle .....	1,811	1,900	190 Sheep Creek .....	1,978	1,988
100 L.I.D. ....	571	677	191 Stockland .....	2,957	2,907
101 L.I.D. ....	173	192	192 L.I.D. ....	9	8
Indian Reserves .....	1,991	1,798	Unorganized parts .....	4	
Cities:			Towns:		
Lethbridge .....	13,523	13,489	High River .....	1,359	1,459
Towns:			Nanton .....	709	739
Blairmore .....	1,682	1,629	Okotoks .....	571	760
Cardston .....	1,711	1,672	Stavely .....	301	303
Claresholm .....	1,051	1,156	Vulcan .....	869	803

## POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1936	1931		1936	1931
<b>Division No. 4—Continued:</b>			<b>Division No. 6—Continued:</b>		
Villages:			Olds	1,197	1,056
Arrowwood	252	293	Strathmore	531	523
Barons	264	284	Three Hills	659	581
Black Diamond	657	683	Villages:		
Blackie	225	251	Acme	291	234
Carmangay	234	279	Airdrie	214	198
Cayley	135	127	Albert Park	332	.....
Champion	328	310	Beiseker	230	230
Lomond	127	176	Carbon	374	355
Milo	136	135	Carstairs	356	387
Nobleford	117	143	Cluny	142	134
Turner Valley	475	656	Cochrane	336	293
			Crossfield	333	321
<b>Division No. 5: Acadia</b>	<b>21,391</b>	<b>26,651</b>	Forest Lawn	471	.....
122 Pt. Jubilee	154	.....	Hussar	104	151
214 Berry Creek	1,793	581	Irricana	160	161
241 Acadia	826	1,029	Langdon	101	83
242 Cereal	1,176	1,103	Newcastle	1,278	304
243 Collholme	496	807	Rockyford	211	194
271 Bertawan	853	1,186	Rosebud	114	101
272 Golden Centre	790	1,227	Standard	205	218
273 Sounding Creek	345	740	Swalwell	112	95
274 Richdale	536	788	Trochu	464	506
275 Hand Hills	1,097	1,189			
276 Pt. L.I.D.	2,436	.....	<b>Division No. 7: Battle River</b>	<b>37,647</b>	<b>38,106</b>
277 Michichi	1,290	2,178	305 Pt. Dowling Lake	168	.....
301 Canmer	534	814	331 L.I.D.	1,069	1,180
302 Stewart	678	372	332 L.I.D.	806	1,015
303 Wiste	817	1,199	333 L.I.D.	1,130	1,255
304 Hiram	539	796	334 Coronation	1,941	2,022
305 Dowling Lake	1,285	1,482	361 Rosenheim	1,470	1,744
306 Lambton	1,390	1,651	362 Hillcrest	1,176	1,200
307 Starland	1,297	1,446	363 Stocks	1,173	1,186
Towns:			364 Flagstaff	1,796	1,683
Hanna	1,405	1,490	365 Progress	2,262	1,999
Youngstown	187	372	391 Sifton	1,477	1,475
Villages:			392 Vale	1,044	958
Cereal	131	185	393 Huamha	1,275	1,233
Chinook	134	176	394 Asquith	1,235	1,205
Craigmyle	214	236	395 Wheatland	1,809	1,819
Delia	279	286	421 Ribstone	1,644	1,452
Morrin	146	149	422 Gilt Edge	1,767	1,674
Munson	146	164	423 Battle River	1,530	1,466
Oyen	298	401	424 Kinsella	1,240	1,237
Richdale	38	44	425 Stirling	2,049	1,925
Rumsey	81	83	455 Iron Creek	2,270	2,121
<b>Division No. 6: Calgary</b>	<b>141,806</b>	<b>140,624</b>	Towns:		
123 Pt. Bow Slope	547	.....	Castor	592	634
217 L.I.D.	704	794	Coronation	605	738
218 Blackfoot	1,528	1,590	Hardisty	524	428
219 Bow Valley	1,738	1,679	Wainwright	1,048	1,147
220 Shepard	2,057	3,048	Villages:		
221 Springbank	2,539	2,166	Alliance	263	260
222 L.I.D.	471	438	Cadogan	84	128
247 L.I.D.	958	1,073	Chauvin	321	269
248 Grasswold	1,421	1,448	Compeer	88	94
249 Keoma	1,518	1,525	Consort	252	299
250 Beddington	2,259	2,272	Czar	138	140
251 L.I.D.	1,472	1,427	Edgerton	222	189
252 L.I.D.	350	277	Forestburg	226	291
276 L.I.D. Pt.	2,850	.....	Galahad	152	150
278 Carbon	1,896	5,365	Hughenden	203	191
279 Norquay	2,342	2,170	Irma	240	196
280 Rosebud	2,366	2,177	Killam	329	326
281 Beaver Dam	2,282	1,926	Lougheed	217	218
282 L.I.D.	953	593	Monitor	99	137
308 Ghost Pine	2,340	2,129	Provost	490	533
309 Stauffer	2,327	2,027	Sedgewick	353	338
310 Mountain View	2,748	2,506	Strome	210	172
311 Westerdale	2,631	2,420	Veteran	180	180
Unorganized Parts	1,752	2,238	Viking	480	492
Indian Reserves	1,882	2,109			
Banff	2,037	2,519	<b>Division No. 8: Red Deer</b>	<b>65,439</b>	<b>61,016</b>
Cities:			336 Success	1,427	1,705
Calgary	83,407	83,761	337 Vimy	1,015	1,074
Drumheller	2,912	2,987	338 Hays	2,736	2,364
Towns:			339 Pine Lake	2,442	2,098
Didsbury	846	801	340 Arthur	2,487	2,177
Gleichen	458	514	366 Dublin	1,322	1,425
			367 Waverly	2,061	1,995

## POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1936	1931		1936	1931
<b>Division No. 8—Continued:</b>			<b>Division No. 10: Victoria</b>	<b>61,358</b>	<b>58,049</b>
396 Haig	1,572	1,486	451 Merton	1,948	1,792
397 Lakeside	1,615	1,622	452 Grizzly Bear	1,553	1,396
398 Lamerton	2,600	2,205	453 Buffalo Coulee	1,554	1,292
399 Crown	4,105	3,689	454 Lakeview	1,548	1,525
426 Melrose	2,874	2,537	481 Wellington	2,124	1,888
427 Evergreen	2,788	2,592	482 Vermilion Valley	2,052	1,843
428 Waterglen	1,510	1,386	483 Melberta	2,019	1,992
429 Fertile Valley	4,512	3,856	484 Birch Lake	2,478	2,312
456 Parkland	2,858	2,971	485 Patricia	2,284	2,111
457 Lloyd George	2,973	2,791	486 Beaver Lake	3,168	3,028
458 Montgomery	3,553	3,329	511 Streamstown	2,641	2,254
459 Bigstone	3,452	2,807	512 Ethelwyn	3,302	3,035
Indian Reserves	1,199	1,141	513 Ukraina	3,365	3,245
Cities:			514 Sobor	3,460	3,326
Red Deer	2,384	2,344	515 Norma	3,301	3,201
Wetaskiwin	2,058	2,125	516 The Pines	3,702	3,464
Towns:			545 Eagle	4,255	4,100
Big Valley	359	455	546 Wostok	4,733	4,584
Camrose	2,263	2,258	547 Leslie	3,666	3,725
Daysland	366	404	Towns:		
Innisfail	1,124	1,024	Lloydminster Pt.	498	539
Lacombe	1,414	1,259	Vegreville	1,672	1,659
Ponoka	1,045	836	Vermilion	1,291	1,270
Stettler	1,202	1,219	Villages:		
Villages:			Andrew	137	115
Alix	333	241	Bruderheim	253	280
Bashaw	423	385	Chipman	249	284
Bawlf	236	183	Derwent	144	107
Bittern Lake	32	47	Holden	273	230
Blackfalds	105	84	Innisfree	245	227
Botha	98	107	Islay	155	141
Clive	242	215	Kitscoty	254	280
Delburne	236	193	Lamont	470	507
Donalda	182	169	Lavoy	151	151
Edberg	110	131	Mannville	370	307
Elnora	149	153	Minburn	132	119
Erskine	164	174	Mundare	777	832
Ferintosh	120	161	Myrnam	159	131
Gadsby	139	144	Ranfurly	112	122
Halkirk	139	160	Ryley	268	236
Heisler	156	125	Two Hills	200	149
Millet	357	300	Willingdon	395	250
Mirror	585	534			
New Norway	177	142	<b>Division No. 11: Edmonton</b>	<b>139,017</b>	<b>126,832</b>
Ohaton	46	69	487 Cornhill	2,936	2,753
Penhold	94	125	488 Black Mud	4,005	3,797
			489 Liberty	4,993	4,662
<b>Division No. 9: Rocky Mountain House</b>	<b>29,859</b>	<b>24,503</b>	490 Pioneer	3,223	2,603
312 Waterloo	1,343	1,008	491 L.I.D.	1,226	907
341 Poplar Grove	3,003	2,540	517 Clover Bar	2,997	2,754
342 Raven	2,242	1,712	518 Strathcona	3,871	3,555
343 Prairie Creek	846	610	519 Spruce Grove	4,251	3,499
344 L.I.D.	74	48	520 Inga	3,096	2,851
371 Golden West	2,526	2,266	521 Tomahawk	1,705	1,432
400 Lorne	2,584	2,284	548 Sturgeon	4,911	4,302
401 Lochearn	2,913	2,221	549 Ray	3,523	3,558
403 L.I.D.	363	347	550 Woodford	2,960	2,408
430 Blindman	1,599	1,376	551 Morthen	2,763	2,224
431 Last West	1,736	1,074	Indian Reserves	954	336
432 L.I.D.	53	17	Cities:		
433 L.I.D.	164	24	Edmonton	85,774	79,197
434 L.I.D.	287	366	Towns:		
460 Columbia	1,646	1,104	Beverly	998	1,111
461 L.I.D.	1,127	712	Fort Saskatchewan	899	1,001
462 L.I.D.	307	101	Leduc	926	900
463 L.I.D.	90	.....	Morinville	554	570
466 L.I.D.	1,790	.....	St. Albert	811	825
Unorganized Parts	1,094	2,895	Stoney Plain	499	497
Indian Reserves	95	249	Tofield	544	497
Jasper	1,322	1,230	Villages:		
Villages:			Alberta Beach	57	38
Bentley	250	233	Hay Lakes	156	125
Bowden	270	233	Onoway	128	149
Eckville	159	169	Seba Beach	59	41
North Red Deer	359	318	Wabamun	198	164
Rimbey	313	304			
Rocky Mountain House	652	646	<b>Division No. 12: Edson</b>	<b>16,024</b>	<b>13,815</b>
Sylvan Lake	652	416	466 L.I.D. pt.	1,704	.....
			493 L.I.D.	26	4

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1936	1931		1936	1931
<b>Division No. 12—Continued:</b>			<b>Division No. 14—Continued:</b>		
522 Rocky Rapids	1,728	1,148	726 L.I.D.	396	274
523 L.I.D.	87	13	727 L.I.D.	86	76
525 L.I.D.	24	24	728 T. 71-74, R. 22-24, W. 4.		
526 L.I.D.	136	116	N. of Athabasca R.	26	
527 L.I.D.	490	244	729 L.I.D.	218	120
552 Pembina	2,431	2,041	Indian Reserves	21	
553 L.I.D.	1,037	728	Towns:		
554 L.I.D.	870	685	Athabasca	608	573
555 L.I.D.	733	655	Villages:		
556 L.I.D.	240	274	Barrhead	307	222
558 L.I.D.	59	57	Clyde	153	186
582 Kitchener	2,478	2,340	Lac La Biche	410	313
583 L.I.D.	759	654	Legal	394	350
584 L.I.D.	574	543	Smoky Lake	428	366
612 L.I.D.	472	341	Westlock	507	536
Territorial Units 615, 585	18	12	Waskatenau	241	
Unorganized Parts	199	1,133			
Towns:			<b>Division No. 15: Clearwater</b>	<b>15,739</b>	<b>13,664</b>
Edson	1,600	1,547	613 L.I.D.	182	53
Villages:			641 L.I.D.	804	543
Entwistle	150	189	642 L.I.D.	22	9
Mayerthorpe	209	159	705 L.I.D.	24	24
<b>Division No. 13: Beaver R.</b>	<b>30,602</b>	<b>24,936</b>	706 L.I.D.	292	270
541 L.I.D.	910	745	707 L.I.D.	209	141
542 Lincoln	1,249	933	708 L.I.D.	84	25
543 Laurier	3,141	2,646	709 L.I.D.	31	42
544 Champlain	2,399	2,257	710 L.I.D.	82	78
571 L.I.D.	267	65	730 L.I.D.	156	175
572 Bonnyville	1,859	1,419	731 L.I.D.	431	363
573 St. Vincent	2,951	2,554	732 L.I.D.	670	578
574 St. Lina	1,146	817	733 L.I.D.	678	504
575 Vilna	3,903	3,756	734 L.I.D.	112	149
601 L.I.D.	1,195	760	735 L.I.D.	164	147
602 L.I.D.	1,567	1,105	736 L.I.D.	56	41
603 L.I.D.	1,016	615	737 L.I.D.	61	23
604 L.I.D.	640	497	738 L.I.D.	621	414
605 Ashmont	1,814	1,616	764 L.I.D.	1,420	1,333
631 L.I.D.	951	677	765 L.I.D.	1,176	1,101
633 L.I.D.	44	82	766 L.I.D.	534	503
634 L.I.D.	255	186	767 L.I.D.	84	24
635 L.I.D.	915	568	794 L.I.D.	180	141
663 L.I.D.	17		795 L.I.D.	802	648
664 L.I.D.	22	13	796 L.I.D.	2,791	2,408
666 L.I.D.	545	320	824 L.I.D.	18	10
695 L.I.D.	308	218	825 L.I.D.	251	215
Territorial Units 632, 661	5	5	826 L.I.D.	764	891
Indian Reserves	1,720	1,514	855 L.I.D.	577	477
Villages:			Territorial Units 622, 670,		
Bellis	127	117	676, 677, 678, 679 and un-	148	47
Bonnyville	433	362	organized parts	963	909
St. Paul	950	938	Indian Reserves		
Vilna	253	151	Towns:		
<b>Division No. 14: Sturgeon</b>	<b>45,790</b>	<b>39,508</b>	Grouard	185	261
576 Smoky Lake	4,319	4,268	Peace River	883	864
577 Unity	4,871	4,919	Villages:		
578 Opal	3,318	3,286	Falher	284	253
579 Hazelwood	3,627	3,438	<b>Division No. 16: Peace River</b>	<b>29,204</b>	<b>27,945</b>
580 Lockerbie	2,845	2,444	739 Grande Prairie	2,388	2,389
581 Pershing	2,158	1,664	740 Bear Lake	2,815	2,683
606 L.I.D.	148	131	741 L.I.D.	1,599	1,566
607 L.I.D.	1,828	887	742 L.I.D.	466	460
608 Tawatinau	2,223	8,147	769 L.I.D.	661	514
609 Pibroch	2,380	2,210	770 L.I.D.	981	871
610 Shoal Creek	2,553	2,095	771 L.I.D.	1,850	1,730
611 L.I.D.	909	406	772 L.I.D.	1,193	1,358
636 L.I.D.	540	217	797 L.I.D.	658	549
637 Cartier	1,413	1,273	800 L.I.D.	336	296
638 Nelson	1,701	1,486	801 L.I.D.	173	167
639 L.I.D.	848	757	827 L.I.D.	126	161
640 L.I.D.	953	687	828 L.I.D.	633	381
665 L.I.D.	1,151	1,130	829 Spirit River	1,890	1,800
667 L.I.D.	1,622	1,342	830 L.I.D.	878	738
668 Grosmont	805	886	831 L.I.D.	520	487
669 L.I.D.	506	79	857 Peace	2,155	1,990
696 L.I.D.	212	144	858 Fairview	2,443	2,264
697 L.I.D.	572	499	859 L.I.D.	705	519
698 L.I.D.	34	40	886 L.I.D.	497	508
699 L.I.D.	459	357	887 L.I.D.	744	525
			888 L.I.D.	597	581

## POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1936 AND 1931—Continued

Census Divisions and Municipalities	Population		Census Divisions and Municipalities	Population	
	1936	1931		1936	1931
<b>Division No. 16—Continued:</b>			<b>Division No. 16—Continued:</b>		
889 L.I.D. ....	574	425	Fairview .....	393	260
890 L.I.D. ....	58	34	Grimshaw .....	129	137
891 L.I.D. ....	114	77	Hythe .....	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			
Towns:			<b>Division No. 17: Athabasca</b> .....	8,713	5,788
Grande Prairie .....	1,478	1,464	Remainder of the Province		
Villages:			comprising northern parts .....	5,465	4,312
Beaver Lodge .....	203	211	Indian Reserves .....	3,248	1,476
Clairmont .....	104	110			

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

Divisions, Cities, Towns and Villages	Births (Exclusive of Still-births)		All Ages				DEATHS				Stillbirths	Marriages		
	Total	M.	Total	Under 1 year		1-4 years		5 years and over		M.			F.	
				M.	F.	M.	F.	M.	F.					
														M.
<b>TOTAL FOR THE PROVINCE</b>	<b>16,470</b>	<b>8,420</b>	<b>8,050</b>	<b>5,789</b>	<b>3,468</b>	<b>2,321</b>	<b>430</b>	<b>333</b>	<b>105</b>	<b>116</b>	<b>2,933</b>	<b>1,872</b>	<b>335</b>	<b>7,838</b>
Division No. 1	485	242	243	188	106	82	6	12	2	2	98	68	7	323
Division No. 2	1,507	800	707	487	286	201	35	29	10	13	241	159	33	728
Division No. 3	252	133	119	77	52	25	7	2	1	1	44	22	3	81
Division No. 4	372	197	175	151	91	60	5	6	1	3	85	51	8	157
Division No. 5	168	89	79	93	58	35	4	4	2	2	52	29	6	84
Division No. 6	2,691	1,313	1,378	1,240	745	495	48	47	17	18	680	430	70	1,913
Division No. 7	700	364	336	224	141	83	12	6	3	3	126	74	18	265
Division No. 8	1,542	818	724	614	353	261	46	36	5	10	302	215	24	598
Division No. 9	504	250	254	169	108	61	19	15	3	2	86	44	8	115
Division No. 10	1,189	621	568	328	198	130	41	21	2	4	155	105	20	495
Division No. 11	3,329	1,691	1,638	1,243	774	469	86	43	21	20	667	406	58	2,142
Division No. 12	285	146	139	79	55	24	11	7	2	4	42	13	4	64
Division No. 13	934	467	467	244	142	102	36	30	15	9	91	63	21	195
Division No. 14	1,094	559	535	262	151	111	30	29	7	3	114	79	24	230
Division No. 15	437	223	214	139	68	71	18	21	6	11	44	39	9	138
Division No. 16	670	354	316	162	97	65	15	16	2	2	80	47	13	240
Division No. 17	311	153	158	89	43	46	11	9	6	9	26	28	9	70
<b>CITIES:</b>														
Calgary	1,746	824	922	861	506	355	21	30	14	8	471	317	45	1,528
Drumheller	232	122	110	75	42	33	3	3	1	1	39	29	6	97
Edmonton	2,841	1,437	1,404	1,007	615	392	71	34	13	9	531	349	49	1,910
Lethbridge	660	358	302	195	109	86	11	9	5	3	93	74	16	348
Medicine Hat	355	180	175	132	79	53	4	6	1	1	74	46	7	249
Red Deer	150	69	81	52	25	27	3	3	1	1	22	24	4	99
Wetaskiwin	213	107	106	52	31	21	8	5	1	1	23	15	2	73
<b>TOWNS:</b>														
Blairmore	18	8	10	13	8	5	1	1	1	1	7	4	2	54
Camrose	213	108	105	42	28	14	3	2	1	1	25	12	1	82
Cardston	171	85	86	33	15	18	2	3	1	1	13	14	2	102
Clareholm	59	34	25	13	9	4	1	1	1	1	8	4	2	20
Coleman	56	30	26	27	20	7	2	2	1	2	18	4	1	25
Edson	85	43	42	20	14	6	4	2	1	1	1	3	1	31
Grande Prairie	182	101	81	65	42	23	4	4	1	1	37	20	4	81

Hanna	92	47	45	32	19	13	2	1	1	1	16	12	3	35
High River	149	84	65	39	18	21	3	1	1	1	15	19	2	48
Innisfail	165	104	61	34	21	13	5	2	2	2	16	11	3	38
Lacombe	145	73	72	32	19	13	5	2	2	2	14	11	4	58
Macleod	49	22	27	24	16	8	1	1	1	1	16	7	4	46
Magrath	15	9	6	3	1	2	1	1	1	1	5	1	4	13
Olds	85	47	38	14	8	6	3	2	2	2	45	5	1	38
Ponoka	29	20	9	93	47	46	2	2	2	2	2	44	1	28
Raymond	16	9	7	8	2	6	3	3	3	3	29	10	1	8
Stettler	130	75	55	45	32	13	3	3	3	3	2	3	1	63
Taber	16	5	11	6	2	4	5	1	1	1	2	3	3	36
Vegreville	243	119	124	35	25	10	5	5	5	5	20	9	3	69
Vermilion	143	76	67	31	22	9	6	3	3	3	15	6	2	53
Wainwright	63	29	34	24	14	10	1	1	1	1	13	9	3	39
VILLAGE:														
Newcastle				3	2	1					2	1		



TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS IN ALBERTA, 1939

	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
<b>ALBERTA</b> .....	16470	1283	1251	1447	1405	1443	1340	1384	1506	1399	1474	1304	1234
Rural .....	8149	658	632	717	699	715	619	678	739	663	727	659	643
Urban .....	8321	625	619	730	706	728	721	706	767	736	747	645	591
<b>DIVISION No. 1—MEDICINE HAT</b> .....	485	32	28	46	41	55	48	29	45	46	44	46	25
Rural .....	114	10	4	19	6	13	12	7	9	9	6	9	10
Urban .....	371	22	24	27	35	42	36	22	36	37	38	37	15
City of Medicine Hat .....	355	21	23	23	33	42	34	22	34	36	35	37	15
Town of Taber .....	16	1	1	4	2	...	2	...	2	1	3	...	...
<b>DIVISION No. 2—MACLEOD</b> .....	1507	116	100	144	118	146	118	148	134	125	117	129	112
Rural .....	463	35	32	38	37	42	34	40	44	37	42	45	37
Urban .....	1044	81	68	106	81	104	84	108	90	88	75	84	75
City of Lethbridge .....	660	53	45	65	47	60	60	61	52	63	50	55	49
Town of Blairmore .....	18	...	2	2	1	...	2	6	1	...	1	1	2
Cardston .....	171	9	15	17	14	20	10	17	18	14	11	16	10
Clareholm .....	59	6	3	6	8	7	3	8	6	1	4	4	3
Coleman .....	56	2	2	8	8	8	6	8	4	3	1	1	5
Macleod .....	49	8	...	4	3	4	2	3	5	6	6	4	4
Magrath .....	15	1	1	...	...	2	1	2	2	1	...	1	2
Raymond .....	16	2	...	...	...	3	...	3	2	...	2	2	...
<b>DIVISION No. 3—BOW</b> .....	252	19	16	19	21	24	24	21	26	15	26	23	18
Rural .....	252	19	16	19	21	24	24	21	26	15	26	23	18
<b>DIVISION No. 4—NANTON</b> .....	372	27	33	23	27	38	37	40	32	33	27	34	21
Rural .....	223	19	19	16	12	19	16	29	18	23	17	20	15
Urban .....	149	8	14	7	15	19	21	11	14	10	10	14	6
Town of High River .....	149	8	14	7	15	19	21	11	14	10	10	14	6
<b>DIVISION No. 5—ACADIA</b> .....	168	14	13	19	11	16	14	12	18	11	11	15	14
Rural .....	76	4	4	9	5	5	8	7	7	6	9	10	2
Urban .....	92	10	9	10	6	11	6	5	11	5	2	5	12
Town of Hanna .....	92	10	9	10	6	11	6	5	11	5	2	5	12

<b>DIVISION No. 6—CALGARY</b>	2391	243	245	242	225	230	239	222	231	195	192
Rural	55	59	61	63	53	50	58	43	54	47	40
Urban	2063	184	184	179	172	180	188	179	177	148	152
City of Calgary	1746	137	158	153	150	156	155	149	148	127	125
Drumheller	232	21	19	21	16	16	21	19	24	17	20
Town of Olds	85	7	8	5	6	8	12	11	5	4	7
Village of Newcastle	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>DIVISION No. 7—BATTLE RIVER</b>	700	44	56	47	58	77	69	59	75	59	61
Rural	637	37	51	45	53	74	61	57	69	56	51
Urban	63	7	5	2	5	3	8	2	6	3	10
Town of Wainwright	63	7	5	2	5	3	8	2	6	3	10
<b>DIVISION No. 8—RED DEER</b>	1542	114	145	124	129	115	147	135	154	102	107
Rural	497	40	49	37	33	34	41	36	49	36	41
Urban	1045	74	96	87	96	81	106	99	105	66	66
City of Red Deer	150	11	6	13	20	10	12	17	12	10	15
Wetaskiwin	213	18	19	15	23	20	15	21	25	14	11
Town of Camrose	213	17	18	20	15	16	32	15	20	14	17
Innisfail	165	14	21	9	15	12	13	11	20	10	8
Lacombe	145	12	15	13	10	12	11	14	15	11	11
Ponoka	29	2	3	4	2	1	3	3	4	2	4
Stettler	130	7	13	13	11	10	20	18	9	5	4
<b>DIVISION No. 9—ROCKY MOUNTAIN HOUSE</b>	504	47	44	42	46	32	52	40	36	40	46
Rural	504	47	44	42	46	32	52	40	36	40	46
<b>DIVISION No. 10—VICTORIA</b>	1189	113	100	92	103	102	117	110	122	68	78
Rural	803	87	67	63	68	67	82	77	77	45	49
Urban	386	26	33	29	35	35	35	33	45	23	29
Town of Vegreville	243	15	22	20	27	24	26	17	33	12	19
Vermillion	143	11	11	9	8	11	9	16	12	11	10
<b>DIVISION No. 11—EDMONTON</b>	3329	287	272	292	288	273	294	298	315	272	245
Rural	488	38	40	60	36	36	40	32	49	39	42
Urban	2841	208	232	232	252	237	254	266	266	233	203
City of Edmonton	2841	208	232	232	252	237	254	266	266	233	203
<b>DIVISION No. 12—EDSON</b>	285	19	22	27	23	20	31	19	26	30	25
Rural	200	14	15	21	19	14	21	14	19	22	16
Urban	85	5	7	6	4	6	10	5	7	8	9
Town of Edson	85	5	7	6	4	6	10	5	7	8	9
<b>DIVISION No. 13—BEAVER RIVER</b>	934	71	77	81	68	77	80	65	85	62	95
Rural	934	71	77	81	68	77	80	65	85	62	95
<b>DIVISION No. 14—STURGEON</b>	1094	97	95	89	65	99	100	102	100	92	85
Rural	1094	97	95	89	65	99	100	102	100	92	85

TABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS,  
IN ALBERTA, 1939—Continued

	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
<b>DIVISION No. 15—CLEARWATER</b>	437	33	40	38	42	45	37	25	32	37	32	42	34
Rural	437	33	40	38	42	45	37	25	32	37	32	42	34
<b>DIVISION No. 16—PEACE RIVER</b>	670	46	53	60	55	53	41	59	61	58	54	73	57
Rural	488	34	37	44	43	36	31	41	46	46	38	49	43
Urban	182	12	16	16	12	17	10	18	15	12	16	24	14
Town of Grande Prairie	182	12	16	16	12	17	10	18	15	12	16	24	14
<b>DIVISION No. 17—ATHABASCA</b>	311	30	24	39	34	30	16	25	29	24	19	22	19
Rural	311	30	24	39	34	30	16	25	29	24	19	22	19

TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE FOR THE PROVINCE AND IN CITIES OF 5,000 POPULATION AND OVER, 1939

Province and Cities	Total Births			Legitimate			Illegitimate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
<b>TOTAL FOR THE PROVINCE</b> .....	16470	8420	8050	15853	8123	7730	617	297	320
<b>CITIES:</b>									
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 4.—PLURAL BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDREN BORN ALIVE AND STILLBORN BY SEX, IN ALBERTA, 1939

Classification of Births	Total
<b>CASES OF TWINS</b> .....	230
Two males (both living) .....	69
One male and one female (both living) .....	72
Two females (both living) .....	74
One male living and one male stillborn .....	5
One male living and one female stillborn .....	1
One male stillborn and one female living .....	3
One female living and one female stillborn .....	5
Two females (both stillborn) .....	1
<b>CASES OF TRIPLETS</b> .....	2
Two males and one female (all living) .....	1
One male and two females (all living) .....	1
<b>Total Multiple confinements</b> .....	Number 232
	Male 227
	Female 239
<b>Total single live births</b> .....	Number 16020
	Male 8201
	Female 7819
<b>Total single stillbirths</b> .....	Number 319
	Male 180
	Female 139
<b>Total confinements</b> .....	16571



Italy	57	1	1	1	1	3	1	1	1	2	13	5	2	3	3	1	1	1	1	1	24	1	31	2	1	2	2	4										
Norway	190	1	8	3	9	79	2	2	1	1	10	1	1	1	1	1	8	1	1	1	1	1	655	13	19	2	17	45										
Poland	1084	3	1	17	17	315	3	3	1	1	10	2	2	1	1	2	2	2	2	2	2	2	11	68	6	2	17											
Roumania	213	1	1	4	8	99	2	2	1	1	6	1	1	1	1	2	7	2	2	2	2	1	34	6	5	14												
Russia	596	1	6	10	31	147	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	7	277	15	2	49												
Sweden	138	1	4	3	14	59	2	4	2	2	3	1	1	1	1	1	1	1	1	1	1	9	1	2	2	23												
Other	271	3	3	4	6	49	5	1	4	1	3	1	1	1	1	1	5	1	1	1	1	7	1	2	161	13												
ASIA	38	1	1	1	2	11	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	9	2	3	1												
China	13	1	1	1	2	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	9	2	3	1												
Japan	12	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	9	2	3	1												
Other	13	1	1	1	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	9	2	3	1												
United States	2149	3	13	7	38	122	58	139	879	26	1	70	10	27	7	1	4	8	1	5	17	10	8	28	14	6	637											
Various	9	1	1	1	1	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1											
Not specified	6	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										
Children born to married mothers	15853	18	76	42	242	559	493	1000	8060	211	8	641	130	311	56	9	10	135	20	53	3	19	134	47	118	31	78	856	114	405	50	197	6	9	2	1698	8	4
Children born to unmarried mothers	617	2	2	2	20	13	62	394	8	8	7	13	6	9	1	1	1	7	1	1	1	2	1	2	4	2	4	2	27	2	2	2	2	2	2	2	2	2
Children born to all mothers	16470	18	78	44	244	579	506	1062	8454	219	8	654	136	320	57	9	10	142	20	54	3	20	136	48	120	31	80	882	118	409	52	201	6	9	2	1725	8	6











TABLE 8.—TOTAL LIVE BIRTHS AND LIVE BIRTHS IN INSTITUTIONS, SHOWING THE NUMBER OF MOTHERS NON-RESIDENT IN ALBERTA, 1939

	All Live Births		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

Cities	All Births			Births in Institutions			Births elsewhere than in Institutions		
	Total	To resident mothers	To mothers non-resident in city or town where birth occurred and	Total	To resident mothers	To mothers non-resident in city or town where birth occurred and	Total	To resident mothers	To mothers non-resident in city or town where birth occurred and
Calgary .....	1746	1222	513	1716	1199	507	30	6	1
Edmonton .....	2841	1609	1202	2797	1581	1187	44	15	1
Lethbridge .....	660	232	426	649	221	426	11	11	.....
Medicine Hat .....	355	121	205	335	112	194	20	11	.....



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

CAUSES OF DEATH	Total under 1 year		MONTH OF DEATH																							
	Total	Male	January		February		March		April		May		June		July		August		September		October		November		December	
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
ALL CAUSES	763	430	333	53	41	42	25	42	22	49	31	34	33	28	25	30	32	29	28	25	30	32	26	30	33	31
7 Measles	4	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
8 Scarlet fever	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9 Whooping cough	23	13	10	1	1	2	1	1	1	1	1	2	1	1	1	1	3	2	1	1	1	1	1	1	1	2
10 Diphtheria	47	34	13	11	2	5	2	3	4	4	4	3	1	1	1	2	1	1	1	1	2	1	1	1	1	1
11 Influenza	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12 Dysentery	15	10	5	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
13 Erysipelas	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16 Poliomyelitis and polioencephalitis (acute)	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18 Epidemic cerebrospinal meningitis	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23 Tuberculosis of the respiratory system	14	3	11	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
24 Tuberculosis of the meninges and central nervous system	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25-32 Tuberculosis, other forms	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34 Syphilis	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36 Purulent infection, septicaemia	5	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
67 Diseases of the thymus gland	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79 Simple meningitis	13	4	9	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
86 Convulsions	6	3	3	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
89 Diseases of the ear and mastoid process	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
105a Croup	74	42	32	8	10	8	2	2	4	3	3	2	2	4	2	4	2	2	1	4	2	2	2	2	3	5
106 Bronchitis	54	31	23	5	4	4	3	7	2	3	3	1	2	2	2	2	3	1	4	2	2	2	2	2	1	
107 Bronchopneumonia	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
108, 109 Pneumonia	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
115 Diseases of the buccal cavity and annexa and of the pharynx and tonsils (including adenoid vegetations)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
116-118 Diseases of the stomach	69	38	31	1	3	2	1	2	1	4	1	4	4	5	1	1	3	5	2	6	8	1	5	5	1	2
119 Diarrhoea and enteritis	7	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
122 Hernia, intestinal obstruction	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
130 Nephritis	74	43	31	5	4	3	3	3	4	1	6	5	2	3	2	3	1	5	4	2	2	5	3	3	3	4
157 Malformations	11	4	7	1	1	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
(a) Congenital hydrocephalus	33	23	10	2	1	1	1	1	1	1	3	1	2	1	1	1	1	1	2	2	1	3	2	2	2	1
(c) Congenital malformation of the heart	30	16	14	3	2	1	1	2	1	1	3	2	2	1	1	1	1	1	2	2	1	3	3	1	1	1
(b, d, e) Others under this title	31	22	9	1	2	4	4	2	2	2	1	2	2	2	2	3	1	1	1	1	1	2	2	1	1	2
158 Congenital debility	31	22	9	1	2	4	4	2	2	2	1	2	2	2	2	3	1	1	1	1	1	2	2	1	1	2

159	Premature birth	192	108	84	14	12	6	4	12	4	13	8	9	9	6	3	9	4	8	8	7	5	10	9	5	9	9	
160	Injury at birth	37	20	17	1	2	3	3	2	1	2	3	1	2	2	3	4	1	2	1	1	2	3	1	3	1	2	1
161	Other diseases peculiar to early infancy (under 3 months)	53	32	21	1	1	1	3	4	1	4	2	1	2	2	4	5	1	6	4	4	2	1	2	2	1	1	2
	(a-e) Specified diseases	44	26	18	1	1	1	3	4	1	3	2	1	2	2	3	1	5	4	4	2	2	1	1	2	1	1	2
	(f) No cause given, no doctor in attendance	9	6	3				1			1		1	1	1		2	1	1		2							
173-175	Homicide	2		2																								
176-198	Other external causes	9	6	3			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Other specified causes	16	8	8	1		2	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
199, 200	Unspecified or ill-defined causes	8	5	3																								3

TABLE 12.—INFANTILE DEATH RATES, BY DIVISIONS AND CITIES, 1939

Divisions and Cities	Death rate of children under one year of age to each 1,000 births				Births with or without a physician in attendance				Rates of still-born children to 1,000 live births				
	Rate per 1000 births	Number of deaths	Total births	Not stated	With physician	Without physician	With physician	Not stated	Number of stillbirths	Rate per 1000 live births			
											With physician	Without physician	Not stated
Division No. 1—Medicine Hat (City of Medicine Hat excepted)	62	8	130	52	77	1	17	20.1					
Division No. 2—Macleod (City of Lethbridge excepted)	52	44	847	719	126	2	3	11.9					
Division No. 3—Bow	36	9	252	216	36		8	21.5					
Division No. 4—Nanton	30	11	372	353	19		6	35.7					
Division No. 5—Acadia	48	8	168	148	20		3	26.6					
Division No. 6—Calgary (Cities of Calgary and Drumheller excepted)	53	38	713	564	146		18	25.7					
Division No. 7—Battle River	26	18	700	681	19		18	15.3					
Division No. 8—Red Deer (Cities of Red Deer and Wetaskiwin excepted)	53	63	1179	1010	167		1	15.9					
Division No. 9—Rocky Mountain	67	34	504	413	90		8	16.8					
Division No. 10—Victoria	52	62	1189	971	212		6	18.4					
Division No. 11—Edmonton (City of Edmonton excepted)	49	24	488	260	226		9	14.0					
Division No. 12—Edson	63	18	285	150	134		4	22.5					
Division No. 13—Beaver River	71	66	934	492	439		21	21.9					
Division No. 14—Sturgeon	54	59	1094	617	473		24	20.6					
Division No. 15—Clearwater	89	39	437	214	217		9	19.4					
Division No. 16—Peace River	46	31	670	441	228		13	28.9					
Division No. 17—Athabasca	64	20	311	111	193		9	17.2					
City of Edmonton	37	105	2841	2821	19		49	25.8					
City of Calgary	29	51	1746	1743	3		45	24.2					
City of Lethbridge	30	20	660	658	2		16	19.7					
City of Medicine Hat	28	10	355	348	7		4	26.7					
City of Red Deer	40	6	150	150			2	9.4					
City of Wetaskiwin	61	13	212	212			6	25.9					
City of Drumheller	26	6	232	231	1		206	20.1					
Divisions	54	552	10273	7412	2822		39	20.8					
Cities	34	211	6197	6163	33		1	20.3					
Whole Province	46	763	16470	13575	2855		40						







TABLE 14.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTION UNDER ONE YEAR OF AGE, CLASSIFIED ACCORDING TO RESIDENTS OF DECEDENTS, IN CITIES OF 5,000 POPULATION AND OVER, IN ALBERTA, 1939

Cities	All Deaths under one year						Deaths in Institutions						Deaths elsewhere than in Institutions																						
	Residents			Non-resident in city where death occurred and			Residents			Non-resident in city where death occurred and			Total			Residents			Non-resident in city where death occurred and																
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female														
Calgary	51	21	30	40	16	24	9	4	5	2	1	1	41	18	23	32	14	18	8	4	4	1	1	10	3	7	8	2	6	1	1	1	1		
Edmonton	105	71	34	56	37	19	49	34	15	100	67	33	52	34	18	48	33	15	1	5	4	1	1	1	5	4	1	4	3	1	1	1	1		
Lethbridge	20	11	9	7	1	6	13	10	3	20	11	9	7	1	6	13	10	3	7	3	4	3	1	2	4	2	2	4	2	2	3	1	2	1	1
Medicine Hat	10	4	6	4	1	3	6	3	3	7	3	4	3	1	2	4	2	2	7	3	4	3	1	2	4	2	2	3	1	2	1	1	1	1	

TABLE 15.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS OF CHILDREN UNDER ONE YEAR OF AGE, SHOWING THE NUMBER NON-RESIDENT IN ALBERTA, 1939

	All Deaths under one year						In Institutions					
	Total			Non-resident in Province			Total			Non-resident in Province		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	763	430	333	9	3	6	397	227	170	3	1	2

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939

DIVISION No. 1—MEDICINE HAT

Municipality No.	Population, 1939	Number of Births	Birth Rate per 1,000 Population	Number of Deaths	Death Rate per 1,000 Population	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomyelitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)			
1	93	3	18	1	6																			1							1			
2	168																																	
3	176	9	16		5	1														1														
4	563	12	9	6	9	2														2														
5	1293	22	22	9	9																													
6	1020	64																																
31	637	22	35	4	6																													
32	581	15	26	3	5			1																										
33	1011	32	32	7	7															1														
34	442	4	9	1	2															1														
35	442	4	9	1	2															1														
36	1761	41	23	8	5	1		1												1													1	
61	855	12	14	2	2	1														1													1	
62	750	11	15	5	7	1														1													1	
63	638	6	9	4	6															1														
64	1164	4	4	1	6																													
65	1209	14	12	11	9	1																												
66	4074	88	21	26	6	7		2												2														3
91	1518	34	22	13	9	3		2												2														1
92	1033	26	25	3	3	1														1														1
93	910	16	18	9	10			1												1														1
94	1052	20	19	12	11	1		1												1														1
<b>Total</b>	<b>20919</b>	<b>391</b>	<b>18.6</b>	<b>125</b>	<b>5.9</b>	<b>19</b>		<b>8</b>		<b>1</b>				<b>7</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>13</b>			<b>4</b>	<b>15</b>	<b>13</b>	<b>7</b>	<b>3</b>		<b>5</b>	<b>2</b>		<b>9</b>			
Death Rate per 100,000 population										<b>5</b>				<b>33</b>	<b>5</b>		<b>10</b>	<b>5</b>	<b>62</b>			<b>19</b>	<b>72</b>	<b>62</b>	<b>33</b>	<b>14</b>		<b>24</b>	<b>10</b>		<b>43</b>			

VITAL STATISTICS BRANCH

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

DIVISION No. 2—MACLEOD

Municipality No.	Population, 1939	Number of Births	Birth Rate per 1,000	Population	Number of Deaths	Death Rate per 1,000	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomyelitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)
7	346	7	20	9	3	9	1	42	2						2									1	1	1					2	
8	1459	24	16	6	9	6	4	40	2												1				3	5	4			1		1
9	3453	101	30	21	6	10	6	22	3												3	1	1		4	4						1
10	1708	46	27	10	10	7	6	48	3												3				8	3	2			1		3
37	4993	125	25	30	14	5	3	34	1												3				2	2	2					3
38	2595	89	30	10	28	10	3	49	3												3				4	2	1					3
39	2936	61	21	10	10	5	4	38	4												2				4	2	1					3
40	628	6	10	5	21	5	4	38	4												2				4	2	1					1
67	5111	105	21	13	4	4	2	41	1												3				3	3	3					1
68	3618	49	14	10	13	10	1	18	1												3				4	3	3					1
69	2628	55	21	26	10	11	3	125	5												1				2	2	2					3
70	1636	24	15	18	11	9	11	90	5												1				2	2	1					3
71	8590	122	14	78	14	8	1	15	2												6				7	5	7					7
99	3190	67	21	25	8	8	1	15	2												1				3	4	4					1
100	581	2	3						1																7	4	4					1
101	174																								13	5	7					1
Total	43646	883	20.2	305	6.9	40	45.3	18	2	1					17			2	3	32	5	1	6	55	26	18	4		5	6	2	25
Death Rate per 100,000 population										5	2				39			5	7	73	11	2	14	126	60	41	9		11	14	5	57



VITAL STATISTICS BRANCH

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

DIVISION No. 5—ACADIA

Municipality No.	Population, 1939	Number of Births	Birth Rate per 1,000 Population	Number of Deaths	Death Rate per 1,000 Population	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomyelitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarthoea and Enteritis (under 2 years of age)	Diarthoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)																
214	1826	20	11	9	5	1	50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																
241	841	6	7	4	5	1	167	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																
242	3305	43	13	34	10	1	23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																
243	296	9	13	2	4	1	23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
273	679	9	13	8	12	1	23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
274	592	4	7	1	2	1	23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
275	1130	75	31	23	9	2	27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
276 Pt.	2439	22	15	11	8	1	45	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
277	1455	22	15	11	8	1	45	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
301	532	2	4	2	4	1	500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1														
304	561	2	4	1	2	1	500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1														
305	2967	73	25	24	8	1	14	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1														
306	1934	27	14	6	3	1	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1														
307	1576	36	23	15	10	1	28	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1														
331 Pt.	1509	10	7	3	2	1	28	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1														
<b>Total</b>	<b>22049</b>	<b>327</b>	<b>14.8</b>	<b>144</b>	<b>6.5</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>9</b>	<b>2</b>	<b>1</b>	<b>17</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>32</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>9</b>	<b>41</b>	<b>5</b>	<b>41</b>	<b>9</b>	<b>5</b>	<b>77</b>	<b>5</b>	<b>9</b>	<b>14</b>	<b>145</b>	<b>50</b>	<b>54</b>	<b>5</b>	<b>23</b>	<b>18</b>	<b>41</b>

Death Rate per 100,000 population









VITAL STATISTICS BRANCH

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

DIVISION No. 10—VICTORIA

Municipality No	Population, 1939	Number of Births	Birth Rate per 1,000	Population	Number of Deaths	Death Rate per 1,000	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomyelitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)			
451	2037	54	27	11	5	1	1	19	1						1									4	4	1									
452	1617	25	15	6	4	1	1	40	1						1									1	1	1									
453	1608	24	15	2	1	1	1	42	1						1										1	1	1								
454	1599	20	13	2	1																														
481	3011	87	29	29	10	4	4	46	1						2																				
482	3706	91	25	29	8	5	5	55	1						1																				
483	2475	43	17	12	5	1	2	23	4						1																				
484	3098	75	24	22	7	2	2	27	4						1																				
485	2394	39	16	2	1																														
486	3908	94	24	20	5	3	3	32	2						1																				
511	2773	57	21	9	3	1	1	18	2	2					1																				
512	3481	74	21	21	6	4	4	54	2						1																				
513	3879	85	22	20	5	6	7	71	2						1																				
514	3845	88	23	33	9	9	10	102	4						1																				
515	5326	103	19	34	6	6	6	58	2						1																				
545	4891	117	24	32	7	5	5	43	1						1																				
546	5230	123	24	26	5	5	4	41	2						1																				
547	4590	121	26	29	6	4	4	33	2						2																				
<b>Total</b>	<b>59468</b>	<b>1320</b>	<b>22.1</b>	<b>339</b>	<b>5.7</b>	<b>58.43.9</b>	<b>22</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>7</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>26</b>	<b>5</b>	<b>3</b>	<b>7</b>	<b>60</b>	<b>43</b>	<b>21</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>7</b>	<b>4</b>	<b>18</b>			
<b>Death Rate per 100,000 population</b>										<b>3</b>	<b>5</b>	<b>8</b>	<b>3</b>	<b>44</b>	<b>8</b>	<b>5</b>	<b>12</b>	<b>101</b>	<b>72</b>	<b>35</b>	<b>15</b>	<b>15</b>	<b>12</b>	<b>7</b>	<b>30</b>										

DIVISION No. 11—EDMONTON

487	3775	77	20	38	10	4	52	2	2	2	2	6	1	7	6	1	1	2	1		
488	4183	85	21	17	4	3	35	2	1	1	1	2	2	2	2	1	1	3	2		
489	6181	123	20	43	7	2	16	2	2	1	1	5	5	5	6	1	1	3	1		
490	3420	90	26	24	7	3	33	1	1	1	1	3	3	1	1	1	1	1	1		
491	1305	39	30	8	6	1	26	2	4	1	1	5	5	3	3	3	1	1	1		
517	4037	79	20	30	7	3	38	2	1	1	1	5	5	3	3	2	2	2	2		
518	3975	53	13	16	4	4	75	2	1	1	1	3	3	3	3	1	1	1	2		
519	4375	63	14	13	3	3	48	2	1	1	1	5	5	1	6	2	2	1	2		
520	3745	84	22	36	10	2	24	5	1	1	1	2	2	1	5	6	2	2	1		
521	1947	73	37	12	6	4	55	2	1	1	1	4	4	1	7	4	2	1	2		
548	6066	81	13	32	5	3	37	2	2	1	1	1	1	3	4	2	1	3	3		
549	5064	91	18	34	7	3	33	2	1	1	1	4	4	3	2	2	3	1	2		
550	3294	75	23	20	6	2	27	1	1	1	1	3	3	2	1	3	3	1	3		
551	3101	67	22	18	6	2	30	1	1	1	1	2	2	2	1	3	1	1	1		
<b>Total</b>	<b>54468</b>	<b>1080</b>	<b>19.8</b>	<b>341</b>	<b>6.2</b>	<b>39</b>	<b>36.1</b>	<b>21</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>41</b>	<b>6</b>	<b>44</b>	<b>29</b>	<b>18</b>	<b>9</b>	<b>8</b>	<b>11</b>	<b>2</b>	<b>20</b>
Death Rate per 100,000 population																					
..... 2 ..... 4 ..... 4 ..... 6 ..... 75 ..... 11 ..... 4 ..... 13 ..... 81 ..... 53 ..... 33 ..... 17 ..... 15 ..... 20 ..... 4 ..... 37																					

DIVISION No. 12—EDSON

466 Pt.	1774	32	18	5	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
493	26	47	25	5	3	1	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
522	87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
523	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
525	140	1	7	1	43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
526	520	12	23	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
527	2724	72	26	7	8	3	42	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
553	1110	32	29	23	6	1	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
554	929	29	31	9	10	5	172	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
555	2422	52	21	18	7	3	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
556	243	5	21	3	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
558	63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
582	2831	76	27	14	5	2	26	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
583	786	17	22	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
584	596	15	25	6	10	1	67	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
585	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
586	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
587	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
588	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
612	509	16	31	1	2	1	63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
615	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unorganized Parts	199	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total</b>	<b>16849</b>	<b>406</b>	<b>24.1</b>	<b>93</b>	<b>5.5</b>	<b>17</b>	<b>41.8</b>	<b>4</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>
Death Rate per 100,000 population																					
..... 6 ..... 24 ..... 18 ..... 6 ..... 18 ..... 12 ..... 12 ..... 95 ..... 36 ..... 18 ..... 18 ..... 36 ..... 6 ..... 6 ..... 11																					

TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

## DIVISION No. 13—BEAVER RIVER

Municipality No.	Population, 1939	Number of Births	Birth Rate per 1,000	Population	Number of Deaths	Death Rate per 1,000	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Pollomyelitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Hemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)			
541	948	16	17	4	4	4	13	115	2																1	1							1	2	
542	1331	36	27	2	2	2	10	115	2				2													5	6							1	1
543	4300	113	26	44	44	10	13	82	3																	2	2							1	1
544	2514	49	19	13	13	5	4	82	3																	2	1								
571	268			1	4	1	5																			1	1								
572	2562	114	44	18	7	7	3	26	1			1													1	3	1						5	1	
573	3224	126	39	14	4	4	3	24	3																1	1	2						1	1	
574	1221	38	31	6	5	1	26	2	2																2	2	2						2	1	
575	4513	98	22	25	6	6	6	60	2																2	2	2						1	1	
601	1265	31	25	6	5	5	7	65	2																1	1	1						2	1	
602	1677	54	32	16	10	10	7	130	2				5												1	2	1						1	1	
603	1074	26	24	4	4	4	3	115	2																2	2	2						1	1	
604	683	18	26	9	13	13	1	56	1			1													2	1	1						1	1	
605	1925	53	28	12	6	6	1	19	1																5	5	1						2	1	
631	1014	26	26	4	4	4																				2	1							1	1
632	3																																		
633	44																																		
634	259	2	8	1	4	4																			1										
635	957	19	20	4	4	4	1																		1										
661	2																																		
663	17																																		
664	22																																		
666	573	19	33	1	2	2																													
695	320	6	19																																
<b>Total</b>	<b>30716</b>	<b>844</b>	<b>27.4</b>	<b>184</b>	<b>5.9</b>	<b>45</b>	<b>53.3</b>	<b>13</b>	<b>13</b>			<b>3</b>	<b>11</b>		<b>3</b>	<b>1</b>	<b>8</b>	<b>26</b>	<b>55</b>	<b>17</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>25</b>	<b>18</b>	<b>6</b>	<b>1</b>	<b>6</b>	<b>11</b>	<b>2</b>	<b>5</b>			
<b>Death Rate per 100,000 population</b>												<b>10</b>	<b>36</b>		<b>10</b>	<b>3</b>	<b>26</b>	<b>55</b>	<b>13</b>	<b>55</b>	<b>13</b>	<b>13</b>	<b>3</b>	<b>7</b>	<b>81</b>	<b>59</b>	<b>20</b>	<b>3</b>	<b>20</b>	<b>36</b>	<b>7</b>	<b>16</b>			



TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), TRANSFERRED TO REGULAR RESIDENCE, 1939—Continued

DIVISION No. 15—CLEARWATER—Continued

Municipality No.	Population, 1939	Number of Births	Birth Rate per 1,000	Population	Number of Deaths	Death Rate per 1,000	Population	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomylitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)			
730	160	3	19	4	9	5.6	1	1	2																											
731	448	10	22	4	3	6.7	1	1	1																											
732	704	13	18	2	1	1.4	1	1	1																											
733	714	24	34	1	1	1.4	1	1	1																											
734	110	3	18	1	6	5.5	1	1	1																											
735	167	3	18	1	6	3.6	1	1	1																											
736	58																																			
737	61	1	16	1	16	26.3	1	1	1																											
738	658	15	23	2	3	4.6	1	1	1																											
764	1650	19	12	4	3	1.8	1	1	1																											
765	1257	43	34	11	9	7.2	1	1	1																											
766	551	15	27	4	7	12.7	1	1	1																											
767	84	1	12	1	12	14.3	1	1	1																											
794	185	4	22	1	5	2.7	1	1	1																											
795	845	21	25	5	6	7.1	1	1	1																											
796	3266	76	23	18	6	2.2	1	1	1																											
824	18																																			
825	267	4	15		6	2.2																														
826	815	25	31	5	6	7.4																														
855	1537	38	25	18	12	7.8																														
Unorganized Parts	148																																			
<b>Total</b>	<b>15521</b>	<b>350</b>	<b>22.5</b>	<b>82</b>	<b>5.2</b>	<b>13.37.1</b>	<b>7</b>	<b>1</b>	<b>13</b>	<b>64</b>	<b>10</b>	<b>2</b>	<b>13</b>	<b>6</b>	<b>19</b>	<b>45</b>	<b>32</b>	<b>32</b>	<b>5</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>12</b>			
Death Rate per 100,000 population																																				

VITAL STATISTICS BRANCH



TABLE 16.—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY CITIES, 1939—TRANSFERRED TO REGULAR RESIDENCE

Cities	CITIES													CITIES																						
	Population, 1939	Number of Births	Birth Rate per 1,000 Population	Number of Deaths	Death Rate per 1,000 Population	Number of Deaths (under 1 year)	Infant Mortality Rate (per 1,000 births)	Number of Stillbirths	Typhoid and Paratyphoid	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Acute Poliomyelitis	Meningococcal Meningitis	Pulmonary Tuberculosis	Tuberculosis (other forms)	Cancer (all forms)	Diabetes	Pernicious Anaemia	Apoplexy, Cerebral Haemorrhage & Thrombosis	Heart Diseases (all forms)	Diseases of the Arteries	Pneumonia (all forms)	Diarrhoea and Enteritis (under 2 years of age)	Diarrhoea and Enteritis (over 2 years of age)	Appendicitis	Nephritis (acute and chronic)	Puerperal State	Violent Deaths (suicides and homicides excepted)					
Edmonton	90419	1600	17.6	581	6.4	55	34.3	26			3		10	1	4	4	4	95	8	2	18	144	67	28	5	2	11	23	8	33						
Death Rate per 100,000 population																																				
Calgary	86301	1229	14.2	654	7.5	39	31.7	31	1	2	1	1	19		19	2	88	13	6	17	177	66	26	2	5	8	31	5	40							
Death Rate per 100,000 population																																				
Lethbridge	13895	237	17.0	115	8.2	4	16.8	5					10	1	2		14	5		1	16	16	4			3	2	2	6							
Death Rate per 100,000 population																																				
Medicine Hat	9757	123	12.6	77	7.8	4	32.5	1			2		7		1		7		1	3	20	14	1				1	7	5							
Death Rate per 100,000 population																																				
				20									72		10		72		10	31	205	143	10			10	72	51								

Red Deer	2453	60	24.4	28	11.4	5	83.3	1	1	5	4	4	2	2	1
Death Rate per 100,000 population								41		204	163	163	82	82	41

Drumheller	3065	78	25.4	45	14.6	1	12.8	2	1	7	2	5	6	3	1
Death Rate per 100,000 population								163	33	228	65	163	196	98	33

Wetaskiwin	2105	39	18.5	18	8.5	3	76.9	2	2	3	2	2	3	1	1
Death Rate per 100,000 population								95		143	95	95	143	48	48





















TABLE 17.—CAUSES OF DEATH BY SEX AND AGE FOR THE WHOLE PROVINCE, 1939—Continued

CAUSES OF DEATH	AGES																	Total											
	Under 1 year	1 year	2 years	3 years	4 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years	55-59 years	60-64 years		65-69 years	70-74 years	75-79 years	80-84 years	85-89 years	90-94 years	95-99 years	100 years and over	Not stated		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male		Female	Male	Female	Male	Female	Male	Female	Male		Female	
93 Diseases of the myocardium	Sub-total																												189
(a) Acute myocarditis	Sub-total																												146
(b) Myocarditis, unspecified (under 45 years of age)	Sub-total																												5
(c) Chronic myocarditis and myocardial degeneration	Sub-total																												2
(d) Myocarditis, unspecified (45 years and over)	Sub-total																												3
94 Diseases of the coronary arteries and angina pectoris	Sub-total																												2
(a) Diseases of the coronary arteries	Sub-total																												127
(b) Embolism and thrombosis of the coronary arteries	Sub-total																												105
(c) Angina pectoris	Sub-total																												54
95 Other diseases of the heart	Sub-total																												37
(a) Functional diseases of the heart	Sub-total																												344
(b) Other and unspecified	Sub-total																												117
96 Aneurysm (except of the heart)	Sub-total																												27
97 Arteriosclerosis (or coronary arteries excepted)	Sub-total																												10
98 Gangrene	Sub-total																												287
99 Other diseases of the arteries	Sub-total																												98
100 Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	Sub-total																												30





















TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1939

CAUSES OF DEATH	Total	MONTHS											
		January	February	March	April	May	June	July	August	September	October	November	December
<b>DEATHS—ALL CAUSES</b>	5989	541	435	544	525	525	446	465	421	402	500	449	536
Male	3468	326	268	316	315	308	271	288	248	253	301	259	315
Female	2321	215	167	228	210	217	175	177	173	149	199	190	221
<b>CLASS I.—INFECTIOUS AND PARASITIC DISEASES</b>	635	73	41	85	76	75	39	37	33	35	40	44	57
1 Typhoid fever	3	2	1	1	1	1	1	1	1	1	1	1	1
2 Paratyphoid fever	1	1	1	1	1	1	1	1	1	1	1	1	1
6 Small-pox	1	1	1	1	1	1	1	1	1	1	1	1	1
7 Measles	2	2	2	2	2	2	2	2	2	2	2	2	2
8 Scarlet fever	4	4	4	4	4	4	4	4	4	4	4	4	4
9 Whooping-cough	12	3	2	2	2	2	1	1	1	1	1	1	1
10 Diphtheria	7	1	1	1	1	1	1	1	1	1	1	1	1
11 Influenza	16	1	2	1	1	1	1	1	2	1	2	1	4
Male	5	2	2	2	2	2	1	1	1	1	1	1	1
Female	2	1	1	1	1	1	1	1	1	1	1	1	1
<b>Total</b>	120	26	11	16	20	13	4	4	2	3	5	7	9
(a) Sole cause	96	14	5	20	19	9	2	2	2	1	3	10	9
Male	14	4	3	1	3	2	1	1	1	1	2	1	1
Female	19	3	1	4	4	1	1	1	1	1	1	1	1
(b) With bronchitis	7	3	1	1	1	1	1	1	1	1	1	1	1
Male	3	1	1	1	1	1	1	1	1	1	1	1	1
Female	4	2	1	1	1	1	1	1	1	1	1	1	1
(c) With pneumonia	52	13	3	4	12	5	1	1	1	3	3	4	3
Male	39	6	3	14	7	1	1	1	1	1	2	4	2
Female	13	7	1	1	5	4	1	1	1	2	1	2	1
(d) With other diseases of the respiratory system	8	1	1	1	2	1	1	1	1	1	1	1	2
Male	5	1	1	1	1	1	1	1	1	1	1	1	1
Female	3	1	1	1	1	1	1	1	1	1	1	1	1
(e) With intestinal complications	5	1	1	1	1	1	1	1	1	1	1	1	1
Male	3	1	1	1	1	1	1	1	1	1	1	1	1
Female	2	1	1	1	1	1	1	1	1	1	1	1	1
(f) With other causes	36	5	3	8	5	5	3	3	1	1	1	2	4
Male	25	5	1	2	3	3	1	1	1	1	1	1	1
Female	11	1	2	6	2	2	2	2	1	1	1	1	3

13	Dysentery	Male	4	1															3	1							1	
		Female	2					1																				1
15	Erysipelas	Male	2					1												2								1
16	Polioomyelitis and poliomyelitis (acute)	Female	4							1																		1
17	Lethargic or epidemic encephalitis	Male	2					1																				1
18	Epidemic cerebrospinal meningitis	Female	6	2														2										1
		Male	3	1																								1
22	Tetanus	Female	4																									1
23-32	Tuberculosis	Female	121	12	6	14	10	14	23	7	8	10	8				23										7	11
		Male	162	10	10	22	13	10	10	17	15	9	10				21										10	12
23	Tuberculosis of the respiratory system	Male	90	11	3	7	6	7	18	5	8	7	5				18										7	9
24	Tuberculosis of the meninges and central nervous system	Female	127	7	9	18	6	9	16	15	14	8	7				16										7	9
25	Tuberculosis of the intestines and peritoneum	Male	10	1	1	2	2	2	1	1	1	1	1				1										1	1
26	Tuberculosis of the vertebral column	Female	5	1	1	2	2	1																				1
		Male	6	1	1	2	1	2																				1
27	(a) Tuberculosis of the bones	Female	1																									1
	(b) Tuberculosis of the joints	Male	2																									1
28	Tuberculosis of the skin and sub-cutaneous cellular tissue	Female																										
29	Tuberculosis of the lymphatic system (bronchial, mesenteric and retroperitoneal glands excepted)	Female																										
30	Tuberculosis of the genito-urinary system	Male	1																									1
31	Tuberculosis of other organs	Female	4																									
32	(a) Disseminated tuberculosis (acute)	Male	2																									
	(b) Disseminated tuberculosis (chronic)	Female	1																									
	(c) Disseminated tuberculosis (not specified)	Male	3																									1
34	Syphilis	Female	3																									
		Male	10																									1
35	Gonococcus infection and other venereal diseases	Female	19																									3
		Male	9																									3
36	Purulent infection, septicaemia (non-puerperal)	Female	1																									1
		Male	3																									1
38	Malaria	Female																										

58  
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## VITAL STATISTICS BRANCH

TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1939—Continued

CAUSES OF DEATH	Total	MONTHS													
		January	February	March	April	May	June	July	August	September	October	November	December		
<b>CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS</b>															
75 (a) Delirium tremens .....	1														
Female .....															
(b) Other alcoholic intoxications .....	7														
Female .....															
76 Chronic poisoning, by other organic substances .....	1														
Female .....															
<b>CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE</b>															
78 Encephalitis (non-epidemic) .....	5	1	1												
Female .....	4														
79 Simple meningitis .....	4			1	1										
Female .....															
80 Progressive locomotor ataxia (tabes dorsalis) .....	7	1													
Female .....															
81 Other diseases of the spinal cord .....	7														
Female .....	5														
82 Cerebral haemorrhage, cerebral embolism and thrombosis .....	85	2	6	9	3	8	6	4	5	3	6	2	4	2	4
Female .....	38	5	4	5	1	2	1	4	1	2	2	5	6	2	6
(a) Cerebral haemorrhage .....	44		5	7	2	4	5	4	4	4	2	5	4	2	4
Female .....	29	3	4	1	1	1	1	4	4	2	2	5	4	2	5
(b) Cerebral embolism and thrombosis .....	4	1									1				
Female .....															
(c) Softening of the brain .....	2		1	1											
Female .....	1														
(d) Hemiplegia and other paralysis, cause not specified .....	8	1		1	1	4			1						
Female .....	6	1		3	1	1			1						
83 General paralysis of the insane .....	6	1			1	2	1		1			1			
Female .....	1														
84 (a) Dementia praecox .....	12	1		2	3				1	1	1				
Female .....	9	1	1	2	2				1	1	1				2





CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM		478	39	36	75	60	62	40	36	33	24	21	20	34	29	44
104	Diseases of the nasal fossae and annexa	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1
105	(a) Croup	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(b) Other diseases of the larynx	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
106	(a) Bronchitis (acute)	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1
	(b) Bronchitis (chronic)	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(c) Bronchitis (unspecified)	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1
107	(a) Bronchopneumonia	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(b) Capillary bronchitis	110	16	12	18	16	12	9	8	7	6	5	9	4	5	11
108	Lobar pneumonia	71	7	8	18	7	8	6	3	2	4	4	1	5	6	7
	(a) Pulmonary embolism and thrombosis	79	14	12	14	12	12	3	9	8	6	3	2	3	3	4
	(b) Congestion and haemorrhagic infarct of the lung, etc.	44	9	6	9	6	5	6	4	4	3	1	2	3	4	3
109	Pneumonia, unspecified	31	3	4	3	4	4	5	3	1	3	1	1	4	3	1
	(a) Pulmonary emphysema	27	4	1	4	1	3	2	1	1	1	4	3	2	2	2
	(b) Chronic interstitial pneumonia including occupational diseases of the respiratory system	7	1	1	2	1	1	1	1	1	1	1	1	1	1	1
110	Pleurisy	7	2	1	2	1	1	1	2	1	1	1	1	1	1	1
111	(a) Pulmonary embolism and thrombosis	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(b) Congestion and haemorrhagic infarct of the lung, etc.	7	1	2	1	1	2	3	2	2	1	1	1	1	1	3
112	Asthma	8	1	1	1	1	6	3	1	1	1	1	1	3	1	6
113	Pulmonary emphysema	25	1	1	2	1	1	1	2	1	1	1	1	1	1	1
	(a) Chronic interstitial pneumonia including occupational diseases of the respiratory system	12	2	1	2	1	1	1	1	2	1	1	1	1	1	1
	(b) Gangrene of the lung	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(c) Other diseases of the respiratory system	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
114	(a) Chronic interstitial pneumonia including occupational diseases of the respiratory system	5	2	1	2	1	2	2	1	1	1	1	1	1	1	1
	(b) Gangrene of the lung	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(c) Other diseases of the respiratory system	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115	(a) Diseases of the buccal cavity and annexa	479	44	30	44	30	40	32	51	44	44	41	46	35	39	33
	(b) Diseases of the tonsils	285	27	18	27	18	24	23	25	28	28	22	27	18	27	18
	(c) Other diseases of the pharynx	194	17	12	16	12	16	9	26	16	16	19	19	17	12	15
	(a) Diseases of the buccal cavity and annexa	13	1	1	3	1	3	1	1	1	2	2	1	3	1	1
	(b) Diseases of the tonsils	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(c) Other diseases of the pharynx	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1
	(d) Diseases of the larynx	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	(e) Other diseases of the pharynx	5	1	1	1	1	1	1	1	1	1	1	1	1	1	2

CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM

115 (a) Diseases of the buccal cavity and annexa  
 (b) Diseases of the tonsils  
 (c) Other diseases of the pharynx



































































CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION		Total	Male	Female	Total	Male	Female
154	Osteomyelitis	1			1		
155	Other diseases of the bones (tuberculosis excepted)	1			1		
CLASS XIV.—CONGENITAL MALFORMATIONS		9	7	2			
157	(a) Congenital hydrocephalus	1					
	(c) Congenital malformations of the heart	3	3				
	(d) Abnormalities	1	1				
	(e) Others under this title	1	1				
CLASS XV.—DISEASES OF EARLY INFANCY		27	27				
158	Congenital debility	1	1				
159	Premature birth	6	6				
160	(b) Injury at birth without mention of caesarean operation	9	9				
161	(a) Atelectasis	5	5				
	(e) Other diseases peculiar to early infancy, including lack of care	2	2				
CLASS XVI.—SENILITY		6					
162	(a) Without senile dementia (70 years and over)	4					





TABLE 21.—SPECIAL CLASSES OF ACCIDENTAL DEATHS, ALBERTA, 1939,  
SUBDIVIDED ACCORDING TO NATURE OF ACCIDENT

Int. list No.	CAUSES OF DEATH	Male	Female
	A.—Accidents in mines and quarries .....	17	....
178	Accidental absorption of toxic gases .....	3	....
186	Accidental injury by fall, crushing or landslide...	13	....
194	Other accidents .....	1	....
	B.—Accidents caused by machines .....	14	....
186	Accidental absorption of toxic gases .....	12	....
194	Accidental injury by fall, crushing or landslide...	2	....
	C.—Railway accidents .....	11	....
178	Accidental absorption of toxic gases .....	1	....
186	Accidental injury by fall, crushing or landslide...	10	....
	D.—Street car accidents .....	1	....
186	Accidental injury by fall, crushing or landslide...	1	....
	E.—Automobile and motorcycle accidents .....	69	12
178	Accidental absorption of toxic gases .....	1	....
181	Accidental burns (conflagration excepted) .....	1	....
183	Accidental drowning .....	1	....
186	Accidental injury by fall, crushing or landslide...	66	12
	F.—Other land transportation .....	17	1
183	Accidental drowning .....	2	....
186	Accidental injury by fall, crushing or landslide...	14	1
194	Other accidents .....	1	....
	G.—Water transportation .....	14	....
180	Conflagration .....	4	....
183	Accidental drowning .....	10	....
	H.—Air transportation .....	....	....

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

Cities	All Deaths						Deaths in Institutions						Deaths elsewhere than in Institutions																							
	Total			Residents			Non-resident in city or town where death occurred and			Total			Residents			Non-resident in city or town where death occurred and																				
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total																		
Calgary	861	506	355	653	378	275	187	115	72	21	13	8	545	343	202	374	232	142	162	104	58	9	7	2	316	163	153	279	146	133	25	11	14	12	6	6
Edmonton	1007	615	392	600	358	242	399	251	148	8	6	2	776	476	300	387	233	154	383	239	144	6	4	2	231	139	92	213	125	88	16	12	4	2	2	
Lethbridge	195	109	86	100	52	48	95	57	38	.....	.....	.....	153	88	65	60	32	28	93	56	37	.....	.....	.....	42	21	21	40	20	20	2	1	1	.....	.....	.....
Medicine Hat	132	79	53	73	42	31	52	34	18	7	3	4	90	60	30	36	24	12	49	33	16	5	3	2	42	19	23	37	18	19	3	1	2	.....	2	

TABLE 23.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS, SHOWING THE NUMBER NON-RESIDENT IN ALBERTA, 1939

Total for the Province	All Deaths						In Institutions								
	Total			Non-resident in Province			Total			Non-resident in Province					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
.....	5789	3468	2321	60	34	26	2995	1845	1150	31	21	10	.....	.....	.....







TABLE 25.—MARRIAGES IN ALBERTA BY MONTHS, 1939

	MONTHS											
	January	February	March	April	May	June	July	August	September	October	November	December
Total	91	95	78	121	87	161	170	154	286	245	240	182
Edmonton	58	61	73	97	61	130	141	87	236	177	226	181
Calgary	22	14	19	20	19	33	23	12	49	50	43	44
Lethbridge	13	11	10	13	8	21	11	19	37	48	33	25
Medicine Hat	4	.....	6	2	5	8	5	4	18	16	14	17
Red Deer	5	.....	3	5	3	8	8	4	7	7	11	12
Wetaskiwin	7	.....	3	8	6	7	3	2	9	9	16	19
Drumheller	8	170	153	231	143	303	274	190	351	583	629	354
Rural Districts	153	170	153	231	143	303	274	190	351	583	629	354
Total for the Province	354	358	345	497	332	671	635	472	993	1135	1212	834

TABLE 26.—MARRIAGES—CONJUGAL CONDITION OF CONTRACTING PARTIES IN ALBERTA, 1939

	Marriages between						Per cent. of Brides who were			Per cent. of Bridegrooms who were					
	Bachelors and		Widowers and		Divorced men and		Bachelors			Widowers			Divorced		
	Spinsters	Widows	Spinsters	Widows	Spinsters	Widows	Spinsters	Widows	Divorced	Spinsters	Widows	Divorced	Spinsters	Widows	Divorced
Total Marriages	6987	174	136	195	123	31	143	23	26	93.1	4.5	2.4	93.5	4.1	2.5
Total for the Province	6987	174	136	195	123	31	143	23	26	93.1	4.5	2.4	93.5	4.1	2.5





Germany	74	1	3	1	6	41	1	2	1	1	1	1	1	3	7	1	1	1	1	3	1	1	1	3											
Holland	24		2	1	2	14	1							1						1				1											
Hungary	44		1	1	3	5	1							1						1				2											
Italy	14				1	9																		1											
Norway	57		1	1	10	28	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	11											
Poland	171		1	2	5	94	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1											
Roumania	50		1	1	3	24	1							1	4	14	4	1	1	1	1	1	1	1											
Russia	157		1	2	4	9	2	1	1	1	1	1	1	1	10	3	50	1	1	1	1	1	1	8											
Sweden	46		1		4	26	1	1	2	1	1	1	1	1	3	3	3	3	3	3	3	3	3	6											
Other	65		1		6	17	2	4						1	2	3	22							6											
ASIA	14				3	7	3																	1											
China	9				1	5	3																												
Japan					2	2																		1											
Other	5																																		
United States	683	1	2	2	9	17	19	79	382	10	22	3	9	2	3	1	3	6	3	2	100	1													
Various	5				1	4																													
Not specified																																			
Total Brides	7838	7	32	14	76	241	231	804	4874	146	1293	31	146	37	1	4	4	16	3	16	2	8	22	10	40	7	11	125	28	99	18	46	442	2	1



TABLE 30.—DIVORCES AND NULLITIES BY JUDICIAL DISTRICTS  
FOR THE YEAR 1939

Judicial Districts	Divorces			Nullities		
	Number of Divorces	Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife
Edmonton .....	116	47	69	5	2	3
Calgary .....	108	35	73	.....	.....	.....
Lethbridge .....	15	8	7	.....	.....	.....
Medicine Hat .....	6	3	3	.....	.....	.....
Drumheller .....	3	3	.....	.....	.....	.....
Peace River .....	4	2	2	.....	.....	.....
Red Deer .....	6	2	4	.....	.....	.....
Grande Prairie .....	1	.....	1	.....	.....	.....
Macleod .....	.....	.....	.....	.....	.....	.....
Vegreville .....	4	3	1	.....	.....	.....
Wetaskiwin .....	2	1	1	.....	.....	.....
Hanna .....	2	.....	2	.....	.....	.....
<b>Total</b> .....	<b>267</b>	<b>104</b>	<b>163</b>	<b>5</b>	<b>2</b>	<b>3</b>

## DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Year	Granted to Husband	Granted to Wife	Total
1919 .....	3	3	6
1920 .....	74	26	100
1921 .....	53	37	90
1922 .....	80	49	129
1923 .....	57	32	89
1924 .....	66	53	119
1925 .....	59	42	101
1926 .....	79	75	154
1927 .....	83	66	149
1928 .....	91	84	175
1929 .....	77	71	148
1930 .....	64	87	151
1931 .....	69	87	156
1932 .....	68	81	149
1933 .....	56	79	135
1934 .....	62	106	168
1935 .....	74	135	209
1936 .....	74	135	209
1937 .....	102	139	241
1938 .....	105	162	267
1939 .....	104	163	267

TABLE 31.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, ALBERTA, 1939

	Total	Months											
		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

	Total Births			Legitimate			Illegitimate		
	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
	<b>ALL CAUSES</b>	135	65	70
7	Measles	2	2	2
8	Scarlet fever	2	2	2
9	Whooping-cough	2	2	2
10	Diphtheria	14	9	5
11	Influenza	1	1	1
13	Dysentery	1	1	1
15	Erysipelas	1	1	1
16	Poliomyelitis and polioencephalitis (acute)	1	1	1
18	Epidemic cerebrospinal meningitis	1	1	1
23	Tuberculosis of the respiratory system	14	3	11
24	Tuberculosis of the meninges and central nervous system	3	2	1
25-32	Tuberculosis, other forms	2	1	1
34	Syphilis	2	1	1
67	Diseases of the thymus gland	3	2	1
86	Convulsions	1	1	1
89	Diseases of the ear and mastoid process	2	2	2
106	Bronchitis	19	12	7
107	Bronchopneumonia	23	11	12
108, 109	Pneumonia	8	4	4
116-118	Diseases of the stomach	2	2	2
119	Diarrhoea and enteritis	1	1	1
122	Hernia, intestinal obstruction	1	1	1
130	Nephritis	5	3	2
157	Malformations	2	2	2
	(a) Congenital hydrocephalus	3	1	2
	(c) Congenital malformations of the heart	5	3	2
	(b, d, e) Others under this title	7	4	3
158	Congenital debility	5	2	3
159	Premature birth	5	2	3
160	Injury at birth	9	5	4
161	Other diseases peculiar to early infancy	4	2	2
	(under 3 months) <b>Total</b>	5	3	2
	(a-e) Specified diseases	1	1	1
	(f) No cause given, no doctor in attendance	4	1	3
173-175	Homicide	1	1	1
176-198	Other external causes	4	1	3
199, 200	Other specified causes	1	1	1
	Unspecified or ill-defined causes	1	1	1



















TABLE 35.—BIRTH, MARRIAGE, DEATH AND OTHER RATES PER 1,000 POPULATION FOR THE YEARS 1924-1939

	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Birth Rate	24.74	25.02	23.79	24.03	24.79	26.19	26.74	23.57	22.96	21.33	21.10	21.0	20.4	20.4	20.3	20.9
Marriage Rate	7.50	7.27	7.40	7.58	9.12	9.29	8.08	7.02	6.83	7.10	7.87	7.7	7.8	8.2	8.9	9.9
Death Rate	8.30	7.86	8.49	8.16	9.00	9.65	8.33	7.24	7.46	7.07	6.93	7.3	8.0	8.0	7.5	7.3
Rate of Natural Increase	16.42	16.16	13.31	15.87	15.79	16.54	18.41	16.32	15.50	14.24	14.01	14.0	12.5	12.4	12.8	13.6
Infantile Death Rate (per 1,000 births)	82.40	72.90	81.63	74.51	76.50	77.40	63.57	69.38	58.68	59.90	54.89	57.8	60.0	63.0	51.0	46.0
Puerperal Death Rate (per 1,000 births)	6.18	5.76	5.82	6.38	6.75	7.26	6.46	5.04	3.76	4.43	4.99	4.2	5.8	4.9	4.3	3.5

TABLE 36.—DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1939

	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province	164.70	59	3.5
City of Edmonton	2841	14	4.8
City of Calgary	1746	9	5.1
Small Cities	1610	8	4.9
Rural Districts	10273	28	2.7



## VITAL STATISTICS BRANCH

TABLE 37.—VITAL STATISTICS, 1905 TO 1939 INCLUSIVE

Year	Population	Births	Marriages	Deaths	Excess of Births over Deaths
1905		421	187	114	307
1906	185,000	3,003	927	1,091	1,912
1907	236,000	4,732	1,907	1,578	3,154
1908	266,000	5,973	2,032	2,188	3,785
1909	301,000	6,897	2,384	2,662	4,235
1910	336,000	8,321	3,086	3,526	4,705
1911	374,000	8,813	36,30	3,618	5,195
1912	400,000	10,284	4,429	4,232	6,052
1913	429,000	11,871	5,053	4,432	7,439
1914	459,000	13,685	4,623	4,147	9,538
1915	480,000	13,452	4,202	3,588	9,864
1916	496,000	13,331	4,230	4,058	9,273
1917	508,000	13,576	4,270	4,047	9,529
1918	522,000	14,890	4,048	7,924	6,966
1919	541,000	14,130	4,718	5,507	8,623
1920	565,000	16,565	5,110	5,675	10,890
1921	588,000	16,414	4,661	4,940	11,474
1922	592,000	16,163	4,272	5,281	10,882
1923	593,000	15,153	4,117	4,843	10,320
1924	597,000	14,598	4,160	4,907	9,691
1925	602,000	15,014	4,363	4,717	10,297
1926	608,000	14,455	4,498	5,156	9,299
1927	633,000	14,897	4,707	5,059	9,838
1928	658,000	15,692	5,776	5,699	9,993
1929	684,000	16,924	6,004	62,39	10,685
1930	708,000	17,649	5,334	5,396	12,153
1931	732,000	17,252	5,142	5,302	11,950
1932	740,000	16,990	5,054	5,521	11,469
1933	748,000	16,123	5,389	5,346	11,093
1934	756,000	16,236	6,053	5,337	10,899
1935	770,000	16,183	6,010	5,729	10,454
1936	772,782	15,786	6,020	6,147	9,639
1937	778,000	15,903	6,345	6,261	9,642
1938	783,000	15,891	6,973	5,871	10,020
1939					

## 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	1,059	3.11	1923	1,072	3.13
1906	1,094	2.07	1924	1,036	2.97
1907	1,075	2.96	1925	1,042	3.18
1908	1,077	2.73	1926	1,053	2.80
1909	1,086	2.59	1927	1,065	2.94
1910	1,065	2.69	1928	1,064	2.75
1911	1,103	2.43	1929	1,042	2.71
1912	1,084	2.43	1930	1,027	3.21
1913	1,053	2.67	1931	1,075	3.25
1914	1,081	3.30	1932	1,052	3.08
1915	1,100	3.47	1933	1,053	3.01
1916	1,063	3.29	1934	1,032	3.04
1917	1,061	3.25	1935	1,055	2.81
1918	1,069	1.88	1936	1,049	2.57
1919	1,074	2.56	1937	1,019	2.38
1920	1,055	2.92	1938	1,046	2.70
1921	1,055	3.32	1939	1,046	2.85
1922	1,934	3.06			

