Contributors

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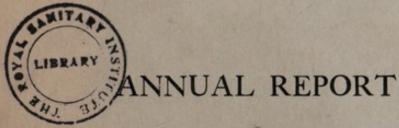
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OF THE

Department of Public Health

PROVINCE OF ALBERTA

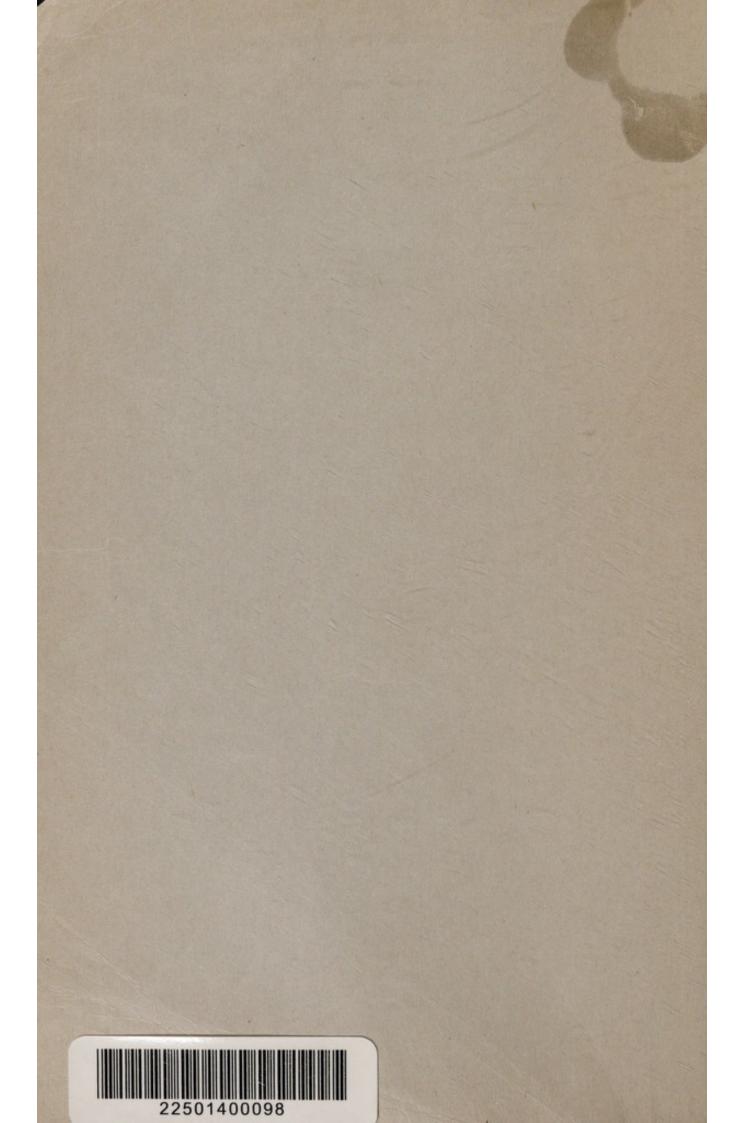
INCLUDING

Vital Statistics Branch 1950

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON: PRINTED BY A. SHNITKA, QUEEN'S PRINTER FOR ALBERTA 1952

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ANNUAL REPORT

OF THE

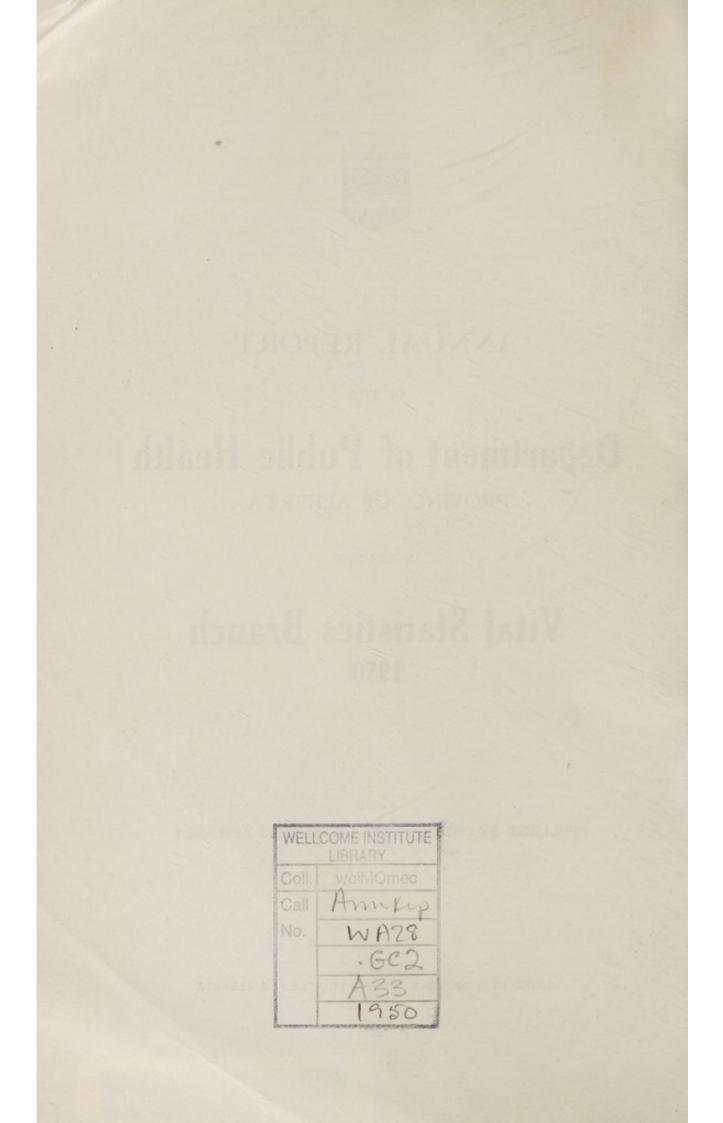
Department of Public Health PROVINCE OF ALBERTA

INCLUDING

Vital Statistics Branch 1950

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON: PRINTED BY A. SHNITKA, QUEEN'S PRINTER FOR ALBERTA 1952



December 31, 1951.

To HIS HONOUR,

J. J. BOWLEN,

Lieutenant Governor of the Province of Alberta.

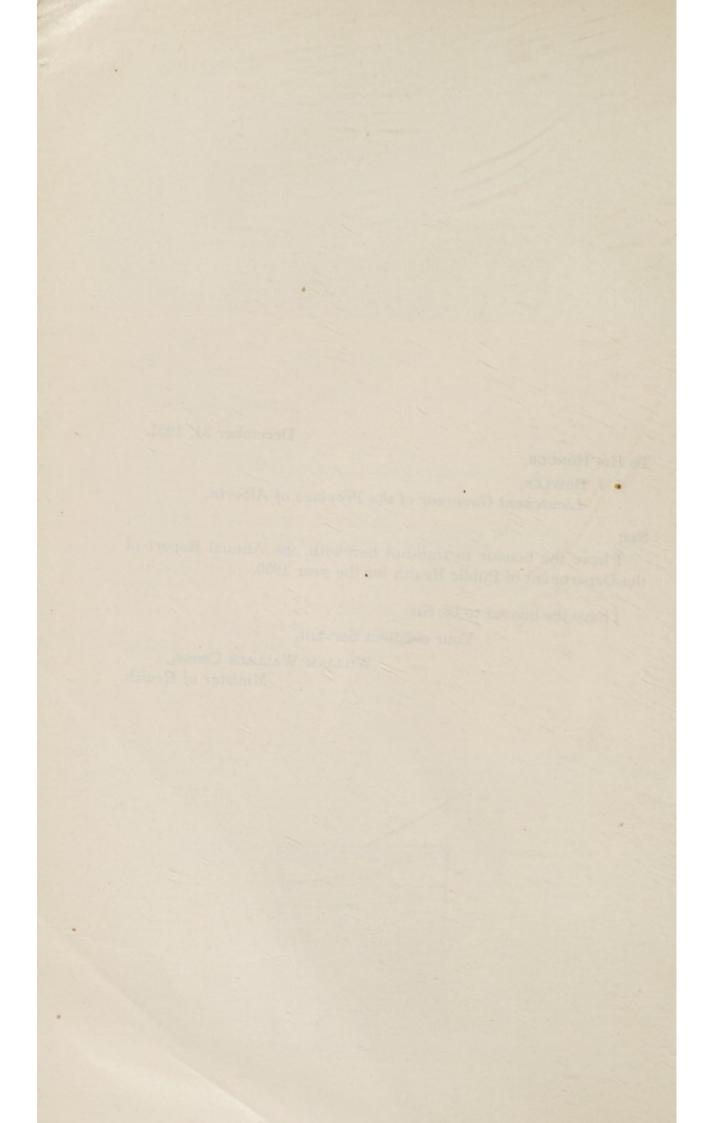
SIR:

I have the honour to transmit herewith, the Annual Report of the Department of Public Health for the year 1950.

I have the honour to be, Sir,

Your obedient Servant,

W. W. CROSS, Minister of Health.



Edmonton, December 31, 1951.

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

Administration Building, Edmonton, Alberta.

SIR:

.

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

I have the honour to be, Sir,

Your obedient Servant,

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

Elementur, December Mr. 1931.

o ran Honovasnik Du. W. W. Czoss, Minister of Health, Administration Building, Edmonion, Alberta. .

I have the honour to automit herewith, the Thirty second Annual factor of the Department of Public Health.

homone to be, Sit. Your obedient Servant, Marrouse R. Bow, B.A. M.D., C.M. D.P.H.

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

Divisions:

1. Communicable Diseases.

2. Entomology.

3. Cancer Services.

4. Public Health Education.

5. Nutrition.

6. Public Health Nursing.

7. Social Hygiene.

8. Provincial Laboratory.

9. Sanitary Engineering and Sanitation.

10. Hospital and Medical Services.

11. Tuberculosis Control and Central Alberta Sanatorium, Calgary.

12. Mental Health.

Institutions: Provincial Mental Hospital, Ponoka.

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

Guidance Clinics.

Eugenics Board.

13. Vital Statistics.

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

PROVINCIAL BOARD OF HEALTH

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

REGULATIONS PASSED DURING THE YEAR

O.C. 20-50: Regulations respecting Water and Ice (O.C.'s 204-37) amended to provide that each city, town, village and municipal district for hamlets shall provide a safe water supply for the benefit of its inhabitants.

O.C. 21-50: Regulations Respecting Dairy Farms, Milk Plants, Fluid Milk and Table Cream (O.C.'s 525-34, 733-34, 544-35, 282-36, 530-37, 1361-41, and 129-46) amended to set the temperature for pasteurizing as not less than 143° for 30 minutes, and to include margarine in the list of products, the milk content of which must be produced in accordance with the regulations.

O.C. 1383-50: Regulations Respecting Dairy Farms, Milk Plants, Fluid Milk and Table Cream (O.C.'s 525-34, 733-34, 544,35, 836-36, 530-37, 1361-41, 129-46 and 21-50) amended by renumbering the regulations.

O.C. 1384-50: Regulations Relating to Conduct of Funerals and Interment of Dead Bodies (O'C.'s 1124-38 and 1264-40) amended by renumbering the regulations.

LEGISLATION PASSED DURING THE YEAR

Cemetery Act Amendment Act (Chapter 9).

This Act amends The Cemetery Act, being chapter 256 of the Revised Statutes of Alberta, 1942.

Section 2 of the Act is amended. The amendment enables persons owning plots in existing cemeteries to incorporate a company for the purpose of taking over the cemetery without the necessity of first subscribing twenty-five per cent of the capital stock of the proposed company. At present they are unable to do so.

This Act came into force on July 1st, 1950.

Hospitalization of City Residents Act (Chapter 29).

This is a new Act to be known as "The Hospitalization of City Residents Act."

The Act provides that the council of any city may pass bylaws establishing a hospitalization scheme under which ratepayers and non-ratepayers of the city may receive standard ward hospitalization at a cost to the patient of one dollar per day or less for each day the patient is in hospital. In the case of ratepayers the money to operate the scheme may be raised by a mill rate tax. In the case of non-ratepayers the money to operate the scheme may be raised by a tax on the non-ratepayers or by a contract plan for hospitalization.

The Act provides that notwithstanding anything contained in any city charter or any other Act any bylaw mentioned above that is passed by the council shall be valid and may be carried into effect without the necessity of any vote of the residents or of the electors entitled to vote on money bylaws.

This Act came into force on April 5th, 1950.

Hospitals Act Amendment Act (Chapter 30).

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

Section 2 is amended by the addition of definitions of two new terms, namely, "ratepayer" and "standard ward hospitalization."

A new section 2a is added enabling the Minister to classify approved hospitals into groups according to the standard of services available in the hospital.

Several new sections are added immediately after section 3. The new section 3a enables the Minister to pay a hospitalization grant. This grant is payable to the board of any municipal hospital district that hospitalizes its ratepayers in a hospital operated by the board and to the board of any municipal hospital district or to the local authority of any municipality that has made arrangements for the hospitalization of its ratepayers by means of an agreement with an approved hospital. Such an agreement is subject to the approval of the Minister and it must provide for the hospitalization of ratepayers at a direct cost to the patient of one dollar or less per day for standard ward hospitalization and it must provide for a voluntary contract plan for hospitalization at a direct cost to the patient of one dollar or less per day. Where an agreement is entered into the hospitalization and services provided under the agreement must be equivalent to the hospitalization and services available to ratepayers of the municipal hospital district that operates the hospital.

Section 3b provides that the hospitalization grant may be paid on a per diem basis for each day of hospitalization received by a ratepayer or his dependants in the hospital operated by the municipal hospital district or the hospital with which the municipal hospital district board or the local authority has made an agreement. The section fixes the amount of the per diem grant which varies with the grouping of the hospital in which the hospitalization is received and according to the age of the patient. Hospitalization grants are to be paid out of moneys appropriated by the Legislature for the purpose.

Section 3c deals with the case of a ratepayer who receives hospitalization as an emergency admission or as medically referred admission in a hospital other than the hospital operated by the municipal district or the hospital with which his municipal hospital district board or his local authority has entered into an agreement. In such a case, if the local authority or the municipal hospital district which would have been responsible for his hospitalization pays on account of the hospitalization of the patient an amount equivalent to the cost of the hospitalization to which he would have been entitled if he had been hospitalized in the hospital operated by the municipal hospital district or the hospital with which his municipal hospital district board or his local authority had entered into an agreement, the Minister is authorized to pay to the local authority or the municipal hospital district, as the case may be, the usual per diem hospitalization grant in respect of such patient.

Section 3d provides that the grant shall not be paid in respect of a ratepayer whose hospitalization is being provided under The Workmen's Compensation Act, 1948, or under other legislation passed by the Province, or in respect of any persons or classes of persons who may be excluded by order in council.

Section 3e provides for cases where the per diem rate of grant may be reduced. This section provides that in a case where the municipal hospital district board or the local authority makes an agreement for hospitalization at a daily rate lower than the figures set out in the section the per diem hospitalization grant may be proportionately reduced. It also provides that the total amount of the per diem hospitalization grant in respect of patients hospitalized in any hospital may be reduced by the amount of any increase in the total sum that the Province pays for the hospitalization of pensioners and of maternity and indigent patients in that hospital.

Section 3f enables the Minister, with the approval of the Lieutenant Governor in Council to make regulations in connection with the administration or payment of the hospitalization grants.

Section 5(5) is amended. In cases of sudden emergent necessity the hospital has been required to send a notice to the local authority within ten days of the date of admission of an indigent sick person. The amendment increases the time within which the notice can be sent from ten to twenty days.

The proviso to section 6(5) is amended by increasing the amount from two hundred to three hundred dollars. A similar change was made to section 6(4) and to section 7(2) in 1949, and the proviso is simply amended to conform with these provisions.

This Act is to come into force on June 1st, 1950.

Lloydminster Hospital Act Amendment Act (Chapter 38).

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

Section 9 is amended. This section gave the Lloydminster Hospital Board all the rights and privileges conferred upon hospitals and hospital boards by The Hospitals Act. The amendment makes it clear that the Lloydminster Hospital Board has the powers and duties of other hospitals as well as the rights and privileges. This section should also have contained a reference to The Municipal Hospitals Act and this omission is remedied by the 1950 amendment.

Maternity Hospitalization Act Amendment Act (Chapter 40)

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

A new section 5a is added. This enables the Minister to pay to any women who receives maternity hospitalization in a hospital situate outside the Province a grant on a per diem basis for a period of hospitalization not exceeding twelve days if she complies with the requirements laid down in the section. Pursuant to these requirements she must be entitled to free hospitalization and she must reside in an area where, in the opinion of the Minister, a hospital within the Province is not readily accessible to her. She is also required to submit a receipt from the hospital showing her account as paid in full. The amount of the grant is the same as would have been paid to the hospital within the Province that is nearest to her place of residence if she had been hospitalized in that hospital.

Alberta residents who live in border areas where an Alberta hospital is not readily accessible and consequently receive maternity hospitalization in another province, may now obtain the benefits provided for in this Act by reason of this amendment.

This Act is deemed to have been in force since April 1st, 1949.

Municipal Hospitals Act Amendment Act (Chapter 44).

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

Section 2, clause (1), which defines the term "ratepayer" is amended. The effect of the amendment is that a person who pays a business tax is no longer a ratepayer for purposes of this Act. Section 67 (4) is amended to reduce the maximum interest payable on depentures for capital expenditure from eight per cent to six

on debentures for capital expenditure from eight per cent to six per cent.

Section 74 is amended by the addition of a new subsection (1a). The new subsection provides that where a ratepayer is assessed in respect of property in more than one municipal district he shall be liable to pay the hospital tax levied on his property in each hospital district but he shall not be liable to pay the minimum hospital tax in any district except the district in which he resides.

Form A is amended by deleting references to special areas. These references were struck out of the Act in 1948, but the references in Form A were overlooked at that time.

This Act is to come into force on July 1st, 1950.

Nursing Service Act (Chapter 45).

This is a new Act to be known as "The Nursing Service Act."

ANNUAL REPORT, 1950

The Act enables the Minister of Health to enter into a nursing service agreement with the council of any municipality or with the councils of two or more municipalities jointly for the purpose of providing nursing service of a preventive and emergent treatment nature to persons residing within the boundaries of the area described in the agreement.

The Department and the municipalities share the cost of this nursing service in the proportions set forth in the agreement, but the Department's portion cannot exceed sixty per cent of the total cost.

The municipality submits the annual budget of proposed expenditure for the nursing service to the Minister in each year for his approval.

The Department may estimate the Department's portion of the total cost of the nursing service and may pay it to the municipality in four quarterly instalments.

At the end of each year the council submits its financial statement and the Department and the council make the necessary adjustments so that the portion of the cost borne by each is in conformity with the nursing service agreement.

The Minister is authorized to employ such persons as may be required by the Department for the administration of this Act.

The nurses required are appointed by the municipalities subject to the approval of the Minister.

The Lieutenant Governor in Council is authorized to make regulations respecting the nursing service provided pursuant to the nursing service agreement. Regulations may be made prescribing the qualifications of nurses, governing their duties, accommodation, remuneration and transportation, governing the purchase of drugs, supplies and equipment and prescribing the fees to be charged for services rendered and for drugs and supplies provided.

This Act came into force on April 5, 1950, and is retroactive to January 1st, 1950.

Alberta Pharmaceutical Association Act, 1945, Amendment Act (Chapter 50).

This Act amends The Alberta Pharmaceutical Association Act, 1945, being chapter 15 of the Statutes of Alberta, 1945.

Section 5(1) was struck out and three new subsections were substituted. The subsection to be struck out provides that the council governing the Pharmaceutical Association shall be composed of seven members. The effect of the amendment is that the number of the councillors may be increased to such larger number as the council, with the approval of the members of the Association in general meeting, may decide upon.

Section 5(3) is amended. If a vacancy occurs on the council the section to be struck out enabled the council to appoint a member of the Association to fill the vacancy for the unexpired term. Such an appointment was subject to the approval of the majority of the members of the district eligible to vote and the effect of the amendment to the section is to strike out this requirement.

Section 5(5) is amended slightly for purposes of clarification. The present subsection requires a candidate for councillor to be resident within Alberta. Under the amended subsection a candidate is also required to be a resident of the district of the Province in which he seeks election.

Section 8(1) is amended. This amendment is related to the amendment to section 5(1). The amended subsection provides that there shall be the same number of electoral districts as there are councillors to be elected.

Section 18 (3) is amended. The effect of the amendment is that the president and vice-president shall be elected annually rather than holding office for a period of two years as has been previously provided.

Two new sections are added immediately following section 27. The new section 27a prohibits any person, other than a pharmaceutical chemist a person duly authorized so to do pursuant to any Act or regulation of the Province, from selling any products for human use which are intended for administration by hypodermic injection into the human body or from selling any article for the prevention of venereal disease.

The new section 27b prohibits any person, other than a pharmaceutical chemist, veterinary surgeon, or a person duly authorized so to do pursuant to any Act or regulation of the Province, from selling veterinary biological products for use by hypodermic injection into any animal.

This Act is to come into force on July 1st, 1950.

Public Health Act Amendment Act (Chapter 52).

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

Section 7(1) which authorizes the Lieutenant Governor in Council to make regulations is amended by the addition of a new clause immediately after clause (hh). The amendment enables the Lieutenant Governor in Council to make regulations governing the terms and conditions under which a grant may be paid to any city or town on account of public health nursing services.

Section 24 is amended by striking out clause (b) and by substituting a new clause. The effect of the amendment is that the term "council" is defined as meaning the Minister of Municipal Affairs in so far as special areas are concerned.

Section 25 is amended by striking out subsection (17) and substituting a new subsection. The new subsection provides that the scheme of the health unit may be varied at any time by order of the Minister made upon the recommendation of the Board of the health unit.

This Act came into force on April 5th, 1950, and is retroactive to January 1st, 1950.

University of Alberta Hospital Act, 1929, Amendment Act (Chapter 74).

This Act amends The University of Alberta Hospital Act, 1929.

Section 12 is struck out and a new section is substituted in its stead which is reworded slightly. The new section authorizes the Board, with the approval of the Lieutenant Governor in Council, or the Lieutenant Governor in Council, to make any regulation or enter into any agreement deemed necessary or advisable respecting the operation or administration of the hospital.

This Act came into force on April 5th, 1950.

ANNUAL REPORT, 1950

DEPARTMENT OF PUBLIC HEALTH

EVENUE AND EXPENDITURE FOR THE F	Salaries	Expenses	Revenue
01. Administration (General)	\$ 4,714.98	\$ 342.36	\$ 050 50
	36,098.67	2,364.30	853.56
	and a local division of the	3,941.69	45.00
	7,789.71	1,051,871.43	
	7,416.07	51,578.75	1,114.95
	15,946.60	8,644.69	9,599.08
	83,816.30	33,414.81	16,771.34
	47,786.06	9,293.99	88,226.24
	5,325.89	1,892.89	
		8,432.89	10 005 75
	F1.722.05	16,583.18	40,625.7
		20,000.00	A
and the WW- olding	25,611.46	10,120.60	
		140,250.00	
		42,015.91	000 000 00
	41,025.81	362,090.39	239,996.66
	3,227.73	947,542.70	
	2,575.60	810.58	
	4,872.56	3,103.87	
	8,165.01	6,664.65	
	2,794.87	112,447.43	918.00
	4,659.19	773.09	918.00
Services	9,485.25	1,133,755.48	FEF 100 00
	117,375.78	450,058.22	575,196.07 467,742.14
us Hamital Construction Grants		1,067,112.49	401,146-1
46. Hospital Construction Grants 47. Hospital Grants to Local Authorities	4,217.05	291,686.33	and and the
Institut	ions		
504-1. Central Alberta Sanatorium, 504-2. Calgary, and T.B. Division	\$ 409,282.76	\$ 638,483.22	\$ 195,361.47
	551,516.02	331,469.03	166,545.79
112-1. 113-2. Prov. Mental Institute, Oliver			80.914.28
12-2. Prov. Training School, Red Deer	212,419.42	119,564.39	and the second se
12-3. 13-1. Prov. Mental Hospital, Ponoka	742,985.25	462,426.10	260,372.4
12.4 Prov. Aux. Mental Hospital.	30.098.47	27,890.52	11,451.43
Claresholm 312-5. Prov. Aux. Mental Hospital,		25.244.54	8,158.63
Raymond	43,881.26	20,244.04	
	\$2,474,809.82	\$7,381,870.52	\$2,163,892.80
Total Expenditure Public Health Department Less: Public Health Revenue			\$9,856,680.3 2,163,892.8

Net Expenditure, Department of Public Healt

VITAL STATISTICS

Vital Statistics registered during the year were as follows:

-		25,625
Births	And a second s	9,294
Marriages	The state of the s	6.856
Deaths		

In all cases where rates are shown, such rates are based on a population of 895,000, 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 1945 to 1950:

Year 1945 1946 1947 1948 1949	No. of Births 19,939 22,184 24,631 24,075 24,935 24,935	Birth Rate 24.10 27.63 30.00 28.50 28.50 28.70	No. of Marriages 7,310 9,478 8,797 8,844 9,037 9,294	Marriages Rate 8.80 11.80 10.70 10.50 10.40 10.40	No. of Deaths 6,454 6,601 6,543 6,987 7,083 6,856	Death Rate 7.80 8.21 8.00 8.30 8.20 7.70
1950	25,625	28.70	9,294	10.40	6,856	1.10

The birth rate for 1950 is 28.7, which is the same as the rate for 1949. The marriage rate for 1950 is 10.4 the same rate as for the previous year. The death rate for 1950 is 7.7 as compared with 8.2 for 1949.

General Health Conditions.

The deaths of 6,856 persons were registered in Alberta in 1950. Of this number 4,189 were males and 2,667 females. There were 227 fewer deaths registered than in the previous year. There were 273 deaths from pneumonia in 1950, a decrease of 103 as compared with the previous year, and 27 deaths from influenza, a decrease of 14 deaths as compared with the previous year. Deaths from pulmonary tuberculosis numbered 135 in 1950 as compared with 156 the previous year. The chief cause of death is heart disease with 2,046 deaths having been registered, as due to this cause, giving a rate of 228.6 per 100,000 population, as compared with 233.4, the rate for the previous year. Deaths from cancer registered in 1950 numbered 987, a rate of 110.4 per 100,000 population, as compared with 957 deaths from this cause and a rate of 109.9 in 1949. Deaths from violence, excluding suicides, numbered 561, as compared with 596 in 1949. The respective rates were 62.4 and 68.4.

The infantile mortality rate for 1950 is 32 as compared with 33 for the previous year. Special reference to the infantile death rate will be found in another section of this report.

The maternal mortality rate for 1950 is 0.7 as compared with 1.0 for 1949. Reference to the maternal mortality rate will be found in another section of this report.

Three deaths were reported from Whooping Cough in 1950, as compared with five deaths from this cause in 1949. It is most gratifying to note the marked reduction in the number of deaths from Whooping Cough in recent years. It was not uncommon a few years ago to record as many as fifty deaths in a single year from this disease. This great change has been accomplished by the widespread use of pertussis vaccine as a prophylactic agent. It is of vital importance that children be immunized against this serious disease, and especially all children under two years of age, in view of the fact that seventy-five per cent of the deaths from Whooping Cough occur within the first two years of life. The Department provides the vaccine used for the protection of children against Whooping Cough free of charge on the request of physicians and local health authorities, and urges that the fullest use be made of this lifesaving agent.

There were 1,539 cases of Measles with 8 deaths, and 4,735 cases of Rubella with no deaths reported in 1950. There was a marked decline in the incidence of Measles in 1950, as compared with the previous year when the disease was epidemic.

There were 13 cases of Diphtheria with one death from this cause reported in 1950, as compared with 59 cases and 12 deaths in 1949. Of the 13 cases reported in 1950, 4 were reported by cities and 9 by rural areas. The death rate for Diphtheria in 1950 is 0.1, as compared with 1.4 in 1949. Five Diphtheria carriers were discovered in the course of investigations made to determine the source of Diphtheria cases.

It is important that every single person in the community be educated to the fact that Diphtheria is an entirely preventable disease. If full advantage is taken of the means that science has placed in our hands, we can eradicate it. The Department furnishes the toxoid used for the immunization of children free of charge to physicians, local health authorities and local school authorities. Children should be protected early in life and such reinforcement of immunity given as may be found necessary during school life. An outbreak of Diphtheria in any town or rural district is an indication that effective action has not been taken to protect the children against Diphtheria.

No cases of Smallpox were reported in 1950, and no cases of this disease have been reported since 1943. I would like to again point out that there are many areas in the Province in which not more than one-third of the pre-school and school children have been vaccinated against Smallpox. Should this disease appear in such communities, it would spread with amazing speed, and should the outbreak be of the malignant type the results would be tragic indeed. It cannot too often be emphasized that all children should be vaccinated against Smallpox within the first six months of life. Vaccination should be repeated on admission of the child to school and need not again be done excepting when an individual is exposed to the disease in after-life. In spite of the fact that there has been no Smallpox reported in the Province for seven years, an outbreak of this serious disease may occur at any time. Smallpox vaccine is provided by the Department free of charge to physicians, local boards of health and local school authorities.

In 1950, 2,309 cases of Scarlet Fever and 11 deaths from this cause were reported, as compared with 865 cases and no deaths in 1949. The vast majority of cases were of a mild type, but this should not make us oblivous to the fact that Scarlet Fever may be a mild disease as it affects one individual and serious as it affects another. All persons showing any evidence of the onset of this disease should be promptly isolated, and isolation maintained until the patient may safely be discharged.

There were 13 cases of Typhoid Fever and no cases of Paratyphoid Fever reported in 1950, the same number as in the previous year. One death was reported from Typhoid Fever in 1950.

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

Poliomyelitis.

In 1950, 143 cases of poliomyelitis were reported and 8 deaths occurred from this cause. Sixty-five cases were reported in cities, 47 in towns and villages, and 34 in rural districts.

Under the provision for free treatment of persons suffering from paralysis due to poliomyelitis, 53 patients were admitted to the University Hospital, Edmonton, and 23 to the Junior Red Cross Hospital, Calgary.

As in previous years, assistance was extended by the Department of Public Welfare by which a number of poliomyelitis patients were enabled to complete academic and secretarial courses and to take vocational training.

Tuberculosis.

During 1950, 171 deaths were reported from tuberculosis (all forms), as compared with 211 deaths from this cause in 1949. Of these 171 deaths, 80 were deaths of Indians. The death rate for all forms of Tuberculosis in 1950 (including Indians) is 19.3. Excluding deaths of Indians, the death rate is 10.1 per 100,000 population.

Division of Entomology.

This Division deals with epidemiological problems associated with insect-borne diseases, more especially investigations relating to Sylvatic Plague, Rocky Mountain Spotted Fever and Tularaemia.

In connection with Rocky Mountain Spotted Fever survey work, 1,038 host ticks and 4,190 drag ticks were taken in 56 collections. Most of the investigations in 1950 were carried on in new territory and no positive specimens were reported.

During the course of the Sylvatic Plague survey, 161 collections consisting of 1,326 fleas and 228 tissue specimens were made from 928 animals. None of the fleas nor any of the material submitted to the laboratory was found positive for plague. To date, nine separate areas of plague infection among Richardson ground squirrels have been delimited. These are located as follows: Hanna, Stanmore-Youngstown, Naco-Oyen, Rose Lynn-Pollockville; Kinmundy, Gleichen, Brooks, Lomond and Suffield.

With a threat imposed by the invasion of Norway rats from Saskatchewan, the danger of plague infection being transmitted from infected Richard ground squirrels to rats and thence to humans becomes a very real problem, and one that must be kept constantly in mind in dealing with the rat menace. In contrast with the Richardson ground squirrel, the rat takes up his habitation in close association with man. Should rats be infected by Richardson ground squirrels, the hazard to human health is therefore greatly increased.

The investigations in regard to Tularaemia were carried on as in previous years, and three collections of ticks taken at Elkwater, Redcliff and Atlee were reported positive for Tularaemia.

Educational work in regard to the prevention and control of insect-borne diseases was carried on as in previous years, through the use of moving picture films, by means of lectures and the distribution of bulletins and pamphlets.

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

Diseases of the Heart and Circulatory System.

Diseases of the heart accounted for 2,046 deaths in 1950, as compared with 2,033 in 1949. These 2,046 deaths represent 29.8 per cent of the deaths reported for the year, giving a death rate of 228.6 (per 100,000 population), as compared with 233.4 for 1949.

Diseases of the arteries were reported as the cause of 133 deaths in 1950, as compared with 128 in 1949. The aging of our population is reflected in the increased number of deaths reported from diseases of the heart and circulatory system. Periodic medical examinations of all children as well as adults would reveal many of these heart conditions in the earliest stages, when effective measures might be taken to deal with them. Early recognition and prompt attention of skilled physicians would prevent much disability due to diseases of the heart and circulatory system, and would prolong many lives. There is need for much more in the way of health education in this field.

Cancer.

In 1950, 987 deaths were registered as due to Cancer, as compared with 957 during the previous year. The death rate from Cancer in 1950 was 110.4 (per 100,000 population), as compared with 109.9 in 1949. Cancer occupies second place in the list of causes of death in 1950, and accounted for 14.3 per cent of the total deaths registered in the Province. It cannot too often be repeated that early recognition of Cancer and prompt and effective treatment by competent physicians would save many lives.

The importance of educational work in regard to Cancer therefore cannot be over-emphasized. As in previous years, educational work has been carried on by the Division of Cancer Services of the Department in co-operation with the Alberta Branch of the Canadian Cancer Society for the Control of Cancer, and the Alberta Division of the Canadian Medical Association.

The Diagnostic Clinics were busy throughout the year. On October 1st, a new Cancer Clinic was established in Lethbridge and is located in the Galt Hospital.

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

NUMBER OF PATIENTS EXAMINED

Edmonton Calgary Lethbridge	New 3,090 2,002 177	Follow-up 3,192 1,767 78	Total 6,282 3,769 255
Totals	5,269	5,037	10,306

It will be noted that the total number of new patients examined in 1950 and the first three months of 1951 is 5,269, as compared with 3,516 in 1949, and 3,220 in 1948. Of the 5,269 new patients examined in 1950, 3,203 or 60.7 per cent were found to be nonmalignant.

During the year, 3,141 patients were referred to hospitals, 1,374 patients were referred for x-ray and radium therapy, and 1,271 patients were referred for major surgical treatment. Detailed information concerning the number of patients referred for various diagnostic procedures will be found in the report of the Division of Cancer Services.

Deaths Due to Violence.

Deaths reported as due to violence (excluding suicides and homicides) numbered 562 in 1950, representing 8 per cent of the total deaths registered in the Province for the year.

There were 82 suicides in 1950, an increase of 2, and 12 homicides, a decrease of 3 over the previous year.

Deaths from motor vehicle accidents totalled 159, a decrease of 5 as compared with the previous year.

Accidents in mines and quarries accounted for 25 deaths. Accidents on farms 28, and forestry operations 17. Thirty-five deaths occurred from accidental drowning,, and fires were responsible for 39 deaths.

Highway accidents constitute one of the important causes of death, and when the serious injuries suffered by many other per-

sons involved in highway accidents and the great expenses incurred in providing hospital and medical care are taken into account, it is apparent that this is a problem of major proportions. Closest co-operation of all organizations concerned is required if this problem is to be solved.

Drowning still accounts for far too many deaths. An excellent programme is being carried out by the Water Safety Division of the Red Cross Society, and learn-to-swim campaigns have been sponsored by various organizations. There would be very few deaths from drowning if everyone were familiar with the fundamental requirements in water safety and made it their business to see that these rules were carried out in practice.

It is once again necessary to direct attention to the number of deaths due to fire in 1950, namely 39, more than double the number reported for the previous year. In all too many cases, these deaths occur as a result of children of tender years being left alone at home, with no responsible person in charge.

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

Suicides	82	Injury by animals	4
Homicides		Hunger or thirst	8
Railway accidents excluding motor		Excessive cold	7
vehicles	21	Excessive heat	1
Motor vehicle accidents	159	Lightning	1
Street car and other transport acci-		Food poisoning	-
dents		Accidental absorption of poisonous	
Water transport		gas	
Air transport		Acute accidental poisoning by solids	-
Accidents in mine and sand guarries		or liquids	
Agriculture and forestry		Conflagration	
Other accidents involving machinery		Accidental burns (conflagration ex-	
Accidental drowning		cepted)	2
Accidental mechanical suffocation		Accidents due to electric currents	27
	20	Other accidents	
Accidental injury by firearms			
Accidental injury by cutting or		Legal executions	2
piercing instruments			
Accidental injury by fall	85		656

Infantile Mortality.

There were 831 deaths of children under one year of age registered in 1950, as compared with 823 such deaths in 1949, an increase of 8 deaths. However, the infantile mortality rate 1950 is 32, as compared with 33 for 1949.

Of the 831 deaths of children under one year of age in 1950, 518 or 62 per cent occurred within the first month of life, and of these, 250 on the first day of life. In the development and expansion of our preventive health programme and through the organization of additional full-time District Health Units, lies the solution of this problem. It is significant that in districts which have had the advantage of the preventive health services provided by full-time Rural Health Units over a period of years, the infantile death rate gradually falls until it approximates the rate with the cities of the Province with full-time public health services. Tables setting-out the causes of the infant deaths will be found in the report of the Bureau of Vital Statistics.

Maternal Mortality.

The maternal death rate (deaths per 1,000 living births) in 1950 is 0.7, as compared with 1.0 in 1949. The average maternal death rate for the past five years is 1.38.

The following are the chief causes of maternal deaths registered in 1950:

Sepsis of pregnancy, childbirth and the puerperium Toxemias of pregnancy and the puerperium Haemorrhage of pregnancy and childbirth Abortion without mention of sepsis or toxemia Abortion with sepsis	242
Other complications of pregnancy, childbirth and the puerperium	9
Total	19

The progressive reduction in the maternal death rate in recent years has been most gratifying. We can look forward with every confidence to still further reductions in our maternal and infant death rates with the expansion of the preventive health programme in both rural and urban districts. Of the 25,625 births registered in the Province in 1950, 97.9 occurred in approved hospitals.

Full-time Rural Health Units.

The work of the Full-time Rural Health Units has been conducted along the same general lines as in recent years. During the year, full-time medical officers of health were in charge of five of these Units, and part-time service was provided in two. A shortage of well-qualified public health nurses has continued, and has made it very difficult for district boards of health to keep their staff up to strength. The eight Health Units established in 1944 and those established in 1945, with one public health nurse in charge of the service in each of these Units, have continued to operate. Requests have been received from a numbr of municipalities for the establishment of additional health units, but as the public health staff required to staff such units has not been available, no additional units were established in 1950.

The activities of full-time health units include the prevention and control of communicable diseases, infant and maternal hygiene, medical examination and supervision of the health of pre-school and school children, immunization of children against such diseases as smallpox, diphtheria and whooping cough, health education, home nursing and first-aid instruction, supervision of water and milk supplies, food inspection, general sanitation, routine laboratory services, records and statistics, etc.

Health Education.

Health educational work is carried on through the publication of bulletins, pamphlets, articles in the press and by means of lectures, radio talks, movies, health exhibits and demonstrations. Over 100,000 copies of various health publications were distributed by the Health Education Division in 1950. The two films produced in 1949, one on Mental Health and the other on District Nursing, have been used to good advantage.

With funds available under the Dominion Health Grants, 51 new health films were added to our Film Library, and three new filmstrips were produced—"The School for Nursing Aides," "Rural Sanitation," and "School Sanitation." With funds made available under another Dominion Health Grant, suitable health films were made available to various schools of nursing in the Province for use in their educational programme.

We now have 180 health films and 60 filmstrips in the Department's Film Library. The total audience viewing these in 1950 was approximately 60,000. The Department's radio programme was broadcast over four stations, along the same general lines as in previous years, and we wish to express our sincere appreciation of the splendid co-operation of the radio stations in broadcasting this programme.

A health workshop for teachers was one of the new developments in health education in 1950, and proved of great interest to all concerned. In our opinion, such workshops are a most effective means in developing broader interest in, and better understanding of, public health.

Health education is one of the most important activities of the modern public health department. We are finding an ever-increasing demand for up-to-date literature, health films, radio talks, and lectures on various phases of health and a very receptive audience. An expanding health educational programme is required to keep pace with these requests.

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

Nutrition.

The work of the nutrition service has been carried on along the same general lines as in previous years. This programme is one of health education carried on with the active participation of public health personnel in the field. Literature, exhibits and films on nutrition have been discussed with local medical officers of health and public health and district nurses. Information and advice concerning school lunch programmes has been made available to public health personnel. Field visits have been made by the Public Health Nutritionist in the course of the development of this programme. Talks have been given to many community organizations, and classes on nutrition were arranged for home nursing groups.

During the year the project undertaken in 1949 under which the Public Health Nutritionist extended assistance and advice on the invitation of small hospitals, school dormitories and other organizations interested in group feeding, was expanded.

Inquiries were received from numerous organizations, as well as private individuals, concerning various phases of nutrition, and all such inquiries received careful attention by the Public Health Nutritionist. Nutrition is one of the most important services from the public health point of view, and one in which there is evidence of an ever-increasing public interest. More detailed information concerning nutrition services will be found in the report of the Public Health Nutritionist.

Public Health Nursing.

There are 40 nurses on the staff of the Division of Public Health Nursing (exclusive of public health nurses serving in District Health Units). One is in charge of the Child Hygiene Clinic serving the Calgary District, one in charge of the Clinic serving the Medicine Hat and Redcliff Districts, and one serves the Municipal District of Norma and the Town of Vegreville. We have 35 district nurses stationed in the various outlying districts. Service is provided in two of these districts by part-time married nurses living in the district who are formerly full-time members of the staff.

Miss Jean Clark, the Director of the Division of Public Health Nursing, was granted extended leave of absence for the purpose of taking post graduate work abroad. Miss Marguerite Fitzsimmons was appointed Acting Director of the Division, and Miss Blanche A. Emerson, Acting Assistant Director.

The Nursing Service Act which was passed in April, came into operation, and as a result a great deal of our organization of districts was required. Splendid co-operation has been given by everyone concerned in this undertaking.

With the opening of the Glendon Municipal Hospital, making medical and hospital services available, the district of Malloy was closed in March. A new municipal nursing service was established at Warner in August, and is meeting a real need.

Miss Martha Hagerman, who served so efficiently for 21 years as public health nurse in charge of the Child Welfare Clinic in Medicine Hat and District, retired in June. Miss Hagerman gave outstanding service, and will be greatly missed by the people in her district. The Department was fortunate in obtaining the services of Miss Marion Story to succeed Miss Hagerman.

We have been most fortunate in being able to find suitable replacements for practically all the public health nursing personnel who have resigned or retired from the staff during the year. It is a pleasure to record the fact that the high quality of service rendered by our public health and district nurses has been well maintained during the year.

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

Treatment consultations	23.657
Miscellaneous Public Health consultations	
Antepartum consultations	1,519
Postpartum consultations	352
Infant and pre-school consultations	4.241
Treatment home visits	5,412
Miscellaneous Public Health home visits	1,157
Communicable disease home visits	651
Maternal welfare home visits	504
Infant and pre-school Public Health home visits	918
Deliveries	76
Abortions	53
Cases sent to hospital or doctor	1,245
Deaths (under 1 year	6 37
Deaths (over 1 years)	37
Total number doses toxoid vaccine and sera given	10,395
Communicable diseases cases reported	1,220
Public Health literature distributed	4.381
IMMUNIZATIONS: Measles prophylactic	30
Diphtheria toxoid	3.398
	1.351
Scarlet fever toxinSmallpox vaccine	1,322
Whooping cough vaccine	
Typhoid fever vaccine	1 339
Mantoux and T.B. patch tests	21
Total number of doses	10,395

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

Social Hygiene.

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

The additional personnel appointed under the assistance available in connection with the Federal Public Health Grants, has enabled the work of venereal disease prevention and control to be carried forward in a very satisfactory manner. The Research Project under the Federal Public Health Grant dealing with the results of Malaria Pyrexia Therapy in the treatment of neurosyphilis in Alberta covering a period of twenty-five years, has been continued, and it is expected the report of the group associated in this study, will be available by the end of the year.

New cases under treatment in all clinics during 1950 are as follows: Syphilis 52, Gonorrhoea 951.

Cases reported by doctors and military authorities are as follows: Syphilis 110, Gonorrhoea 437.

The total cases of Syphilis reported in Alberta in 1950 numbered 162, and the total number of cases of Gonorrhea 1,388.

It is again noteworthy that approximately 85% of the alleged sources of infection in venereal disease cases in Alberta have been found, and the necessary steps taken to bring the same under treatment.

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

Provincial Laboratory.

The staff of the Provincial Laboratory of Public Health, Edmonton, made 142,268 examinations in 1950. In addition, 49,860 examinations were carried out by the staff of the Southern Branch of the Provincial Laboratory of Public Health in Calgary, making a total of 192,128 examinations carried out in both Laboratories. The estimated value of the work done by the Laboratory in 1950, if minimum charges had been made for the same, is approximately \$250,000.00.

The work of the Provincial Laboratory of Public Health and the Southern Branch Laboratory, includes examinations of water, ice, sewage, milk, food, various examinations in connection with the diagnosis and control of communicable diseases, bacteriological, serological and pathological examinations of specimens submitted by physicians, local health authorities and hospitals, medical-legal examinations, and a great many other examinations, many of which are highly technical and time-consuming.

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

The new Provincial Laboratory of Public Health building was occupied in December. The completion of this fine new Laboratory building, which is located directly west of the University Hospital, marks a distinct forward step in public health service in Alberta. We have been most fortunate in the high quality of the service provided by the staff of the Provincial Laboratory of Public Health from the inception of this service in the first decade of the present century. Dr. R. D. Stuart succeeded Dr. R. M. Shaw as Director of the Provincial Laboratory of Public Health, on September 1st, 1950.

The Southern Branch of the Provincial Laboratory of Public Health at Calgary was opened in January, 1950, and this also is an important milestone in the extension of public health laboratory facilities in the Province. The Southern Branch Laboratory is located on the grounds of the Central Alberta Sanatorium, thus making this service available to all parts of southern Alberta and providing laboratory services for the Sanatorium. Dr. D. Shute is the Director of the Southern Branch Laboratory.

All public health laboratory service is provided free of charge with the exception of a few examinations which involve highly specialized procedures. Public health laboratory service is of vital importance in the development of a public health programme, and the developments which have taken place in this important field in Alberta in recent years, have been significant.

Detailed information concerning the work of the Provincial Laboratory of Public Health and the Southern Branch Laboratory will be found in the report of the Laboratory.

Sanitary Engineering and Sanitation.

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

The tremendous expansion in the construction of waterworks and sewage disposal plants and in the extension of existing plants in cities, towns and villages which has been noted in recent years, has continued on an ever greater scale in 1950. This unprecedented increase in the number of waterworks and sewage disposal systems has resulted in an enormous increase in the demand for supervision and assistance which is absolutely essential if proper maintenance and operation procedures and essential public health precautions are to be observed. Additional staff well qualified in this field is urgently needed.

A stream sanitation project was undertaken in July with assistance extended under the Dominion Health Grants. Mr. P. Bouthillier, lecturer in Civil Engineering, University of Alberta, was placed in charge of this programme. It is proposed to make a complete survey of the large rivers of the Province with a view to determining the present condition of these rivers and what is required by way of water and sewage treatment facilities in the light of the great industrial development now taking place in the Province. It is estimated that five years will be required to properly complete this survey, which marks an important development in public health in Alberta.

The marked increase in plumbing installations referred to in the reports of previous years, has continued in 1950. One thousand six hundred and thirteen permits were issued, and \$10,625 was received in plumbing fees. It is essential that careful supervision be exercised over installations of plumbing in cities, villages and rural areas.

I would once again direct the attention of municipal authorities to the responsibility which falls on them for safeguarding public water supplies. Any failure to insure that the public water supply is safe for human consumption, will sooner or later result in a serious outbreak of water-borne disease.

I also wish to direct the attention of municipal authorities to the responsibility resting on them for the supervision and control of their milk supplies. Any municipality which permits the sale of unsafe milk is remiss in its duty, and in inviting serious trouble. It is encouraging to note the increasing number of municipalities which have passed bylaws requiring pasteurization of their milk supplies. One new pasteurization plant was installed in 1950.

Mr. D. R. Stanley, B.Sc., S.M. (C.E.), Provincial Sanitary Engineer, was granted leave of absence in September, in order to take a post-graduate course at Harvard University. The Department was fortunate in obtaining the services of Mr. J. A. Beveridge, B.A.Sc., M.S.E., as Acting Provincial Sanitary Engineer during the absence of Mr. Stanley.

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

Division of Hospital and Medical Services.

In 1950 there were 100 approved hospitals in the Province. In addition, 16 private hospitals were licensed under the Private Hospitals Act, a decrease of 6 as compared with the previous year. In addition to these hospitals, the Lloydminster United Municipal Hospital, located on the Saskatchewan side of the border, and the Fort Smith Hospital in the Northwest Territories, received the Government Grant covering Alberta patients admitted to these hospitals.

On the basis of a population of 895,000, there was one hospital bed available (including cribs and bassinets) for every 150 of our population. The hospital capacity was 5.6 beds per 1,000 population, and the complement 6.7.

Patient days (excluding newborn) in 1950 totalled 1,468,312. There were in addition, 215,799 patient days for the newborn. Of the 25,646 births registered in Alberta in 1950, 97.9% occurred in approved hospitals.

Construction of the following new hospital was started in 1950: Magrath Municipal Hospital; bed capacity, 28.

Construction of additions to the following hospitals was undertaken in 1950:

Name of Hospital	Additional Beds (excluding Bassinets)
Berwyn Municipal Hospital Fairview Municipal Hospital Innisfail Municipal Hospital	10 25 1
St. Michael's Hospital, Lethbridge Red Deer Municipal Hospital General Hospital, Vegreville	

There were 50 municipal hospitals in operation in 1950, with a total bed capacity of 1,746 beds, including bassinets.

The daily average number of patients in all approved hospitals was 4,611. The average stay in hospital, 8.8 days.

The nursing situation to which reference was made in previous years, reports showed some improvement in 1950, although there was still a definite shortage of nurses, particularly in the smaller hospitals. Since the School of Nursing Aides was established in January, 1946, 687 women have been trained as nursing aides, and 454 of these were employed in Alberta as at December 31st, 1950. These nursing aides have given excellent service in the various hospitals in which they have been placed, and have been of the greatest assistance in helping to meet a critical nursing situation.

The cost of hospital construction has continued to rise in 1950, and as yet has shown little indication of levelling off. The cost of practically every type of material used in hospital construction and the steadily increasing costs of all kinds of hospital supplies, have given a good deal of concern to those responsible for the administration of hospitals and to the public requiring hospital services.

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

Cerebral Palsy Clinics.

The Department established the first clinic in the Province for the diagnosis and treatment of cerebral palsy, in the summer of 1950. Dr. F. G. Day, an orthopaedic surgeon with special training in cerebral palsy, was appointed Director of this service. The clinic was established in temporary quarters until such time as permanent quarters could be made available. It is expected that construction of a suitable building to house the clinic will be undertaken in 1951. The South Edmonton Kiwanis Club, which is keenly interested in cerebral palsy, has undertaken to erect a suitable building adjoining the clinic to provide recreation and playground facilities. While the temporary clinic is well furnished with the necessary equipment, there is a considerable amount of equipment that cannot be put into use until the new clinic quarters are available. When the new building is completed, the clinic staff will be augmented by the appointment of a brace maker, a speech therapist, a physiotherapist, and a school teacher with special experience in the instruction of children with cerebral palsy. In the summer of 1951, it is planned to establish a similar cerebral palsy clinic service, with headquarters in Calgary, which will serve the city of Calgary and southern Alberta. The co-operation of various voluntary organizations in this service has been outstanding, and the Department desires to place on record its sincere appreciation of the splendid assistance which these organizations, as well as many individuals, have rendered. Because of this fine co-operation, the cerebral palsy clinic service has been established and has functioned with a minimum of difficulty.

Canadian Red Cross Blood Transfusion Service.

This service which was instituted by the Canadian Red Cross Society in 1947, has during the three-year period, January 1st, 1948, to December 31st, 1950, provided 61,155 bottles of whole blood for patients, and in addition, 7,845 bottles of plasma. If the value of this completely free service were estimated at only \$15.00 per transfusion, the resulting saving to the 38,482 patients who received whole blood and plasma during the above-mentioned three-year period would amount to more than \$1,000,000.

No estimate has been placed on the value of the thousands of Rh investigations, as well as the many other blood examinations undertaken.

This is a service of prime importance from the public health standpoint, and it is gratifying to note the splendid response of the public as blood donors. We sincerely trust that the keen interest and fine support of the public will continue in order that the increasing demands for blood transfusions in grave illnesses in which such transfusions are essential can be adequately met.

Division of Tuberculosis Control.

The number of treatment beds available for tuberculosis in 1950 was 490. Patient days for all sanatoria and hospitals totalled 175,647. Non-pulmonary tuberculosis cases for whom free treatment was provided as a project under the Federad Tuberculosis Grant, accounted for 16,331 of the above-mentioned days.

During the year, free diagnostic services were extended to a total of 128,363 persons in the Province. In addition, diagnostic services were provided by the Indian Affairs Branch of the Department of National Health and Welfare to 12,664 persons. Mobile X-ray Unit surveys accounted for 72,963 of the above-mentioned 128,363 examinations.

There were 926 new cases (all forms, excluding Indians) of active and inactive pulmonary tuberculosis found in 1950. The classification of 830 of these new cases of active and inactive pulmonary tuberculosis (excluding Indians) in 1950, indicated that 377 or 45 per cent were found minimal; 201 or 24 per cent were moderately advanced; 85 or 10 per cent far advanced; 88 or 10 per cent primary; and 79 or 9 per cent tuberculous pleurisy with effusion.

There were 599 patients admitted to the sanatoria and other hospitals. The Edmonton hospitals provided beds for tuberculosis patients under an agreement with the Department. A total of 1,032 patients were treated in the Sanatorium and all hospitals during the year.

The two Mobile X-ray Clinics examined 72,963 persons in 1950. These two completely equipped Mobile X-ray Units, gifts of the Alberta Tuberculosis Association, are operated by the Tuberculosis Control Division of the Department, and have made a noteworthy contribution in the campaign against tuberculosis in Alberta.

The general programme of the Alberta Tuberculosis Association has been carried on along the same general lines as in previous years. Under this programme, X-ray equipment to provide for diagnostic services has been installed in a number of hospitals, and assistance has been extended in connection with academic as well as vocational training. Through such training, it has been possible for many patients to become re-established and to become largely and completely self-supporting.

The arrangements noted in the 1949 Report for the instruction in tuberculosis nursing of nurses in training in general haspitals has continued, four hospitals co-operating in this plan, which has functioned quite satisfactorily.

Dr. A. H. Baker, General Medical Superintendent and Director of the Division of Tuberculosis Control, retired from the service of the Department on superannuation on October 31st, after the completion of thirty years' outstanding service in the field of tuberculosis. Dr. Baker ranks as one of the outstanding authorities in the field of tuberculosis. This Province has been fortunate indeed in having a physician of his exceptional ability, fine judgment and wonderful personality as the Director of the 'Tuberculosis Services, from the very beginning. A farewell party arranged by ex-patients and the Sanatorium staff was held at the Central Alberta Sanatorium on September 30th. Dr. Baker was presented with an automobile as a token of the high esteem in which he is held by everyone.

It is expected that the Aberhart Memorial Sanatorium in Edmonton will be completed late in 1951, and ready for occupation early in 1952. This new Sanatorium, which will rank with the most modern on the continent, will provide accommodation for 310 patients. A Nurses' Home and a service building are being constructed as a part of this development. These splendid new facilities will mean much in the development of our tuberculosis programme in Alberta.

The addition to the Administration Building at the Central Alberta Sanatorium was started in the fall. This addition will provide space on the main floor for a second X-ray machine and an additional operating room. It will also provide space for the outpatient clinic and doctors offices. On the second floor, accommodation will be provided for 18 additional surgical patients. The completion of this addition will do much to facilitate the out-patient, X-ray and surgical services at the Central Alberta Sanatorium.

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

Mental Health Division.

On January 1st, 1950, there were 3,171 patients in all mental institutions, and on December 31st, 1950, 3,369 (2,043 males, 1,326 females), representing an increase of 198 patients during the year. The rate of hospitalized mental patients to general population has increased from 156 per 100,000 population in 1921 to 354 in 1950.

The number of patients in residence at the Provincial Mental Hospital, Ponoka, on January 1st, 1950, was 1,394 (839 males and 555 female). The number in residence at the end of the year was 1,488 (891 male and 597 female). The overall increase in patients was 94. There were 647 patients admitted, 495 discharged and 56 deaths occurred during the year.

There were 1,273 patients in the Provincial Mental Institute at Oliver at the beginning of 1950, and 1,285 at the end of the year, representing an increase of 12 patients. There were 297 patients admitted, 248 discharged, and 56 deaths occurred during the year.

In the Auxiliary Mental Hospital at Claresholm there were 98 female patients on January 1st, 1950, and the same number at the end of the year. During the year, 9 patients were admitted, 7 discharged, and 2 deaths occurred.

In the Auxiliary Mental Hospital at Raymond there were 113 female patients in residence on January 1st, 1950, and 133 at the end of the year. During the year, 27 patients were admitted, 6 discharged, and 1 death occurred.

During the year, 101 patients were admitted to the Training School for Mental Defectives at Red Deer, 19 were discharged, and 10 deaths occurred. There were 293 patients in residence at the beginning of 1950 and 365 at the end of the year.

The construction programme in 1950, which was quite an extensive one, got under way early in the spring. This programme included completion of a new dormitory for girls at the Provincial Training School, Red Deer. At this institution, work was also continued on the alterations of the kitchen and staff dining halls. The new Power House at the Training School was practically completed, as well as a new root cellar and new accommodation for stores. Work was continued on the construction of the new Tuberculosis Building at the Provincial Mental Institute, Edmonton, and it is expected that at least part of this accommodation will be available in 1951. Here also, a new section of the corridor system was erected and a number of alterations, made to the main kitchen.

Guidance Clinics.

The services of the Provincial Guidance Clinics were carried on along much the same lines as in previous years. In addition to the centres visited in the previous year, two visits were paid to the Peace River country.

Alberta pioneered in providing preventive services in the field of mental health, the first clinic being established in Calgary in 1929. The organization of Travelling Guidance Clinics marks a further expansion of this preventive programme which has given convincing proof of its value. The plans for this programme call for three additional Travelling Guidance Clinics, one centred at Lethbridge serving the southern and southeastern parts of the Province; one centred at Red Deer serving the central area; and one with headquarters at Grande Prairie to serve the Peace River country. It is proposed that from the above-mentioned centres, this service will be carried out to various sub-centres in the districts to be served. In this way, this important service will be made accessible with a minimum of inconvenience to those requiring it.

During the year, 1,629 new cases were presented at the various Guidance Clinics. Since the inception of this service in 1929, 10,560 patients have passed through the clinics. The co-operation received from parents, physicians, school and health authorities, welfare and other community organizations has been outstanding, and has contributed in a very large measure to the success of the work in this field.

Eugenics Board.

The work of the Eugenics Board is carried on under the authority of The Sexual Sterilization Act. Nine meetings of the Board were held in 1950. Ninety-eight cases were presented for the Board's consideration, and 67 operations were performed during the year (Male 21, female 46). Since The Sexual Sterilization Act was proclaimed in 1929, 2675 cases have been presented to the Board (male 1,309, female 1,366). The total number of cases operated on from 1929 to 1950 inclusive was 1,241 (male 946, female 745). As in previous years, all operations were performed at the Provincial Mental Hospital, Ponoka.

On the recommendation to the Senate of the University of Alberta, Dr. R. K. Thomson was appointed to the Eugenics Board in January, 1950, to fill the vacancy caused by the death of Dr. E. L. Pope.

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

Detailed information concerning the activities of the Mental Institutions, Guidance Clinics and Eugenics Board will be found in the reports of these services.

Board of Visitors.

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

The Board visited the various Institutions which come under the administration of the Department, as well as the Provincial Guidance Clinics, during the second-half of October, and a report on each of these Institutions has been submitted to the Board.

The Department desires to express to the members of the Board its sincere appreciation of the outstanding service they have rendered.

General Administration.

The statement of revenue and expenditure for the year ending March 31st, 1951, will be found on page 15 of this report. An analvsis of this statement shows that the total expenditure for all activities of the Department was \$9,856,680.34, an increase of \$1,034,397.28 over the previous year. The total revenue was \$2,163,892.86, an increase of \$310,942.65 as compared with the previous year. The net expenditure of the Department was \$7,692,787.48, an increase of \$723,454.63 over the previous year. The sum of \$2,547,495.00 was expended for the maintenance and operation of the various mental institutions which are under the administration of the Department. The sum of \$1,047,765.98 was expended for the maintenance and operation of the Central Alberta Sanatorium at Calgary, in providing hospital accommodation and medical care for tuberculosis patients in Edmonton and other hospitals, and in providing diagnostic and other services. 'The sum of \$1,051,871.43 was expended in grants to approved hospitals. The sum of \$950,770.43 was expended in providing free maternity hospitalization: \$1.143,240.73 was expended in providing hospital, medical, dental and other services for pensioners and those in receipt of mother's allowances and their dependents. The sum of \$1,067,112.49 was expended in hospital construction grants under the Federal Government programme of matching grants in aid of hospital construction, of which amount the Federal Government contributed \$467,742.14; \$403,016.20 was expended in providing cancer diagnostic and treatment services; \$140,250.00 was expended in grants providing for the operation of the Provincial Public Health Laboratory, and the southern branch Laboratory in Calgary; \$117,231.11 was expended in providing public health and district nursing services; \$115,242.30 was expended in grants to district health units. The sum of \$575,196.07 was received from the Federal Government in grants covering various health services under the Federal Health Grants programme. Through these grants, the expansion of existing health services and the development of a number of new health services and activities was made possible in an expanding health programme. More detailed information concerning the same will be found in the reports of the various Divisions of the Department.

In concluding this summary of the activities of the Department for the year 1950, I desire to record my sincere appreciation of the fine spirit of co-operation and the splendid service given by the Directors and members of the staff of all Divisions of the Department, including the Superintendents and members of the staff of the various Institutions which come under the administration of the Department. This Department is fortunate in the high quality of its personnel.

Respectfully submitted,

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

Communicable Disease Divison

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

The Division of Communicable Disease is responsible for the co-ordination of measures taken to control communicable diseases throughout the Province. The carrying out of control measures is the responsibility of the Provincial Government in those areas of the Province which it administers directly. In areas organized for local government the local government authority is responsible. The Division carries out the necessary control measures in those parts of the Province for which the Provincial Government is responsible. Many of the necessary control measures are beyond the power of the smaller municipalities to perform and assistance is sought from the Division by these authorities. In addition, the Division acts where an outbreak involves more than one local authority and some co-ordinated action is necessary. In short, this Division endeavours to ensure that local authorities take necessary action to control communicable disease, and renders them every assistance it is able. Where there is no local authority it acts directly.

Ascertainment is the first step in control; this is carried out by notification and in various other ways. Notification is required by every doctor treating a case listed in the schedule of communicable diseases. The diseases are to be notified to the local authority where one exists, otherwise directly to the Provincial Health Department. This forms the basis of ascertainment, and is wholly inadequate. In fact, in most diseases, even those of a serious nature, the number of cases notified bears little relationship to the number occurring. Used as a measure of the incidence of disease, the figures obtained are useless, and one can only infer from them that the incidence is not less than that shown by notification. Ascertainment by other measures, such as local enquiry is often used, and often produces better results than can be obtained by notification.

The number of cases of each disease notified is transmitted to the Dominion Government and to all the principal local health authorities in the Province and to neighbouring provinces and the nearby states of the United States. Similar returns are received from the Dominion Government, the neighbouring provinces and states. By this means, health departments can be kept aware of what is happening in adjacent areas. This information is of considerable value in controlling infectious diseases.

In addition to keeping records of the known cases of communicable diseases, the Division keeps a register of carriers of certain diseases, and from time to time these carriers are checked. It is necessary for the carriers of certain diseases, such as typhoid, to be kept to some extent under surveillance, as their liberty may constitute a hazard to the health of others. Every effort is made to ensure that carriers are rendered free of infection as soon as possible, but in spite of all the efforts a small proportion of them remain infectious. During 1950 there was an increase in the number of cases reported of most diseases. A good deal of this is probably due to increased notification, and does not necessarily reflect an increased incidence. Public health agencies were far more active during the year, particularly the health units, which had in general more adequate staff, and strenuous efforts were made by them to have cases of infectious diseases notified in order that a better picture of the true incidence could be ascertained. It is not possible for adequate control to be instituted unless notifications are received by the public health authority. When diseases are notified, a considerable amount can be done to limit their spread. The presence of an active medical officer of health in the area does much to ensure more adequate notification.

Though the mortality for the major infectious diseases is now reduced, with the exception of tuberculosis, to negligible proportion, the morbidity remains high, and the amount of residual damage. discomfort and distress must be considerable. The economic loss occasioned by them must also be far from negligible. The present comparatively low death rate under the communicable disease headings is no longer any indication of the harmful effect on the community. For instance, outbreaks of Scarlet Fever at schools during the year caused considerable interference with the educational program in many schools due to the substantial proportion of pupils being absent, in some cases proportions so high that it was not worth-while to keep the school open. In several instances typhoid occurred in relation to families engaged in dairying and considerably interfered with their livelihood. It would seem that there is still far to go in the reduction of the extensive morbidity ascribed to these diseases.

TYPHOID

(13 Cases, 1 Death)

The number of cases of typhoid reported is low, and most probably does not reflect the true incidence of the disease. I feel sure that as notification improves the figure will rise considerably. Routine Widal Tests show a very considerable number of positives which cannot be attributed to previous immunization.

The prompt treatment of pyrexia with chloromycetin before a diagnosis is made, a common procedure, probably cuts short many typhoid attacks. The effect of this on the production of carriers is difficult to ascertain. In view of the expensiveness of the drug, the courses are usually short, so that the possibility of cases becoming carriers would seem considerable. One cannot stress too greatly the desirability of making a diagnosis and of using blood and stool examinations for this purpose, and not relying on a Widal examination taken in the first week of illness.

PULMONARY TUBERCULOSIS

(952 Cases, 137 Deaths)

There is an increase in the number of cases reported but a decline in the number of deaths (774 cases and 156 deaths being recorded in 1945). It probably represents no true increase in the incidence of the disease. In view of the reduction in the number of deaths, it would seem fair to suppose a fall in the incidence as the ratio of deaths to cases remains fairly steady, showing a general decline. The increased number of cases would therefore appear to be due to increased ascertainment.

WHOOPING COUGH

(120 Cases, 3 Deaths)

Immunization against whooping cough has become general during the past few years. Controlled trials in various parts of the world have demonstrated its power to reduce greatly the incidence of the disease and its severity in the individual cases which do occur. While no controlled trials were carried out in the Province, the decline in the incidence and severity of the disease seems to be in keeping with findings elsewhere. During the year one or two localized epidemics were reported amongst children of paroxysmal coughing without the characteristic whoop. This type of case presents a considerable diagnostic problem. If the disease is whooping cough, some effort at isolation should be made. If it is not and isolation is enforced, unnecessary hardship is inflicted on the family by the three weeks enforced isolation. During the year the Provincial Laboratory made arrangements for the examination of prenasal swabs, and sets of equipment were mad for the taking and transmission of specimens. Pre-nasal swabbing is considered to be the most effective method of recovering the organisms. The writer has used this method in the control of whooping cought with some success, using swabbing for diagnosis and discharging on negative swabs. In Alberta the problem of transmission, with a probable fall in the number of positives, and the time lag, reduces its effectiveness as a control measure, but general encouragement in the use of prenasal swabbing as a diagnostic measure is being given. All suspicious cases should be swabbed, if possible, at least twice and kept in isolation until the results are available. If this is not done and great care exercised to make a diagnosis, many cases of simple bronchitis will be isolated and their immediate contacts guarantined, while many cases of whooping cough are allowed to mix freely and to spread infection.

The small number of deaths would support the impression that immunization greatly reduces the severity of the disease.

MEASLES

(1,539 Cases, 8 Deaths)

In most parts of the Province 1950 was a quiet year for measles, though there were one or two small outbreaks which did not follow the pattern of an epidemic in alternate years. During the year doctors and public health agencies were encouraged to use Gamma Globulin for the protection of younger members of the family who were contacts with a case in the household. This gives them shortterm protection, which will usually see them through the period of danger from the household contact, and in most cases right through the epidemic. Once again when it does not prevent the disease entirely, it greatly modifies it, which if the child is fit and old enough is an ideal result, as it gives prolonged immunity. The protection of infants is of the greatest importance, as this is the age group which suffers the most severe complications and amongst whom deaths from broncho-pneumonia following measles occurs. A supply of gamma globulin has been made available on request from the Provincial Laboratory. It should be obtained and given early to obtain protection.

POLIOMYELITIS

(143 Cases, 7 Deaths)

Poliomyelitis showed, rather unexpectedly, a slight increase in incidence. There was, however, a decline in the number of deaths. It is felt that the increase in notifications was probably due to improving ascertainment.

SCARLET FEVER

(2,309 Cases, 11 Deaths)

There was a considerable increase in the number of cases of scarlet fever reported. This again probably reflects better ascertainment. It can only represent a small portion of the number of cases of streptococcal sore throat with a rash. In one instance I visited a village of about six hundred people. From questioning a sample of the population, it appeared that almost everyone had suffered either a sore throat or scarlet fever. Swabbing of a sample group gave almost a hundred per cent positive for haemolytic streptocci or haemolytic staphylococci. Efforts to control the inffection by the indiscriminate distribution of sulpha, inoculation of children during the epidemic and school closure had in all probability, due to their complete lack of cor-ordination, greatly extended the epidemic. This particular village had no public health service whatsoever, so that no co-ordinated action was taken to deal with the outbreak. It had been in progress for six weeks before, quite by chance, its existence became known to the Department. For the whole of this time the schools were closed. This emphasizes the importance of some public health service being provided for the whole of the settled part of the Province, as outbreaks such as this can be prevented by prompt action in the early stages, though scarlet fever control is undoubtedly difficult due to the widespread distribution of the organism concerned and the general susceptibility of the population. Inoculation is no doubt of some value, though it is unfortunately only partly successful. It is a long drawn out procedure and needs careful supervision. Isolation and guarantine are of value if properly carried out under supervision and combined with examination and throat swabbing of contacts. In view of the general mildness of the infection and the speed with which modern therapy clears the throat, serious thought should be given to reducing the period of isolation.

DIPHTHERIA

(13 Cases, 1 Death)

There was a striking decline in this disease during the year. The program of immunization is successfully stamping out this disease. It is of interest to note that nine out of the thirteen cases occurred in rural districts where the level of immunization is relatively low.

RUBELLA

(3,735 Cases, 0 Deaths)

There was a considerable rise in the number of cases of rubella during the year. Though it is not of itself a serious disease, the part it plays in producing congenital defects in babies has been clearly shown, and therefore widespread rubella, with cases occurring in adult women, must now be regarded with some seriousness, and the question of taking active steps to prevent the disease is worth further study.

TABLE 1

NUMBER OF CASES OF		IUNICA 1950	ABLE DISEASES REPORTED, 194	9-1950) 950
Actinomycosis Anthrax	1949 3		Mumps Paratyphoid		
Acute anterior polio Chickenpox	127	143 2,982	Rocky Mountain spotted fever Rubella		
Diphtheria Dysentery	59 17	13	Scarlet fever Smallpox		2,309
Encephalitis Erysipelas	24	4 14 5	Tetanus T.B. meningitis Tuberculosis, pulmonary	-	5 952
Food poisoning Glandular fever	1	24	Tuberculosis, punnonary Trachoma		106
Infectious Hepatitis Infectious mononucleosis Malaria	7 2	-	Tularemia Typhoid	1 13	4 13
Measles Cerebro-spinal meningitis	9,179 8		Undulant fever Whooping cough	19 98	14 120

TABLE 2

DEATHS ASCRIBED TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR THE YEAR 1949-1950

		1949	1	950
Disease	Total Deaths	Rate Per 100,000 Population	Total Deaths	Rate Per 100.000 Population
Acute Poliomyelitis and Polioencephalitis	9	1.0	7	0.9
Diarrhoea and Enteritis	0.0	7.2		
Diphtheria	12	1.4	1	. 0.1
Influenza	. *		26	2.9
Measles	19	2.2	8	0.9
Meningcoccal Meningitis	. 1	.11	-	
Pneumonia			269	30.7
Scarlet Fever			6	0.8
Tuberculosis, Respiratory	100	17.8	137	15.9
Tuberculosis, Other		6.2	36	4.0
Typhoid		0.11	1	0.1
Whooping Cough		0.57	3	0.3

*Figures not available on a comparable basis.

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TABL 4

INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES FOR THE TEN YEAR PERIOD, 1940-1950

	DI	PHTHERIA			
		Population	Total Cases	Total Deaths	Mortality Rate per 100.00)
1940		795,000	52	12	1.5
1941		796.169	31	6	0.8
1942		805,152	58	11	1.4
1943		792,000	46	11	1.4
1944		818,000	57	5	0.6
1945		826,000	53	9	1.1
1946		803,330	48	7	0.9
1947		822,000	86	7	0.9
1948		846,000	52	6	.7
1949 1950		871,000 939,501	59 13	12	1.4 0.1
1550		555,001	15	*	0.1
	TYF	HOID FEVE	R		
1940		795,000	36	3	.40
1941		796.169	33	5	.60
1942		805,152	18	1	.10
1943		792,000	11	1	0.1
1944		818,000	101	8	1.0
1945		826,000	20	2	0.2
1946		803,330	9		0.10
1947		822,000	17	1	0.12
1948		846,000 871,000	13 13	1	.11
1949 1950		939,501	13	1	0.1
1000		000,001	10		
	ACUTE ANTI	ERIOR POLI	OMYELITIS	5	
1940		795,000		4	
1941		796.169	167	8	1.0
1942		805,152	8		
1943		792,000	24	****	
1944		818,000	107	1	0.1
1945			19		
1946		803,330	78	8	1.0
1947		822,000	84	7 28	0.9
1948 1949		846.000 871.000	380 127	9	3.3 1.0
1950		939,501	143	7	0.8
		OPING COU			- 0
1940		795,000	1,158 364	55 23	7.0 2.9
1941 1942		OOF STO	1,131	12	1.5
1943		792.000	1.520	12	1.5
1944		010 000	757	42	5.7
1945		0.0.0.0.0	694	43	5.2
1946		803,330	308	19	2.3
1947		822,000	972	9	1.1
1948		846,000	1,178	11	1.3
1949		871,000	98	5	.57
1950		939,501	120	3	0.3
		T THE PROPERTY			
1940		RLET FEVER			
1011		795,000 796.169	779	9	1.1
1010		805,152	792 2.265	6	0.8
2010		805,152	1.676	11 7	1.4
2044		818,000	2,615	9	0.9 1.1
A 40 A 80		826,000	1,358	1	0.1
1010		803,330	482	î	0.1
1947 .		822,000	225		
		846,000	248		
		871,000	865	-	
1950		939,501	2,309	6	0.8

ND MONTH OF REPORTING	AGES
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						-	OHA	WHOOPING COUGH	CO E	UGH										
	Sex	-					M	MONTHS	IS			-		-		A	AGES			
1950	Male	Female	.ust	Feb.	Mar.	April	May	aunr	Aint	-SuA.	Sept. JoO	Nov.	Dec.	1-0		2-14	12-13	20-0Ver	Yot beteta	TOTAL
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Division of Entomology

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

The following is the Seventh Annual Report of this Division and a summary of the Thirteenth Annual Report of the Rocky Mountain Spotted Fever and Sylvatic Plague survey for the year ending December 31, 1950.

This Division deals with epidemiological problems associated with insect-borne diseases. Particular attention is paid to Spotted Fever, Sylvatic Plague and Tularaemia, with considerable time being devoted to investigations relating to these diseases. Fly and mosquito control is becoming an important part of the work of the Division as the newer insecticides and modern methods for application put such control programs within the financial ability of most municipalities.

Spotted Fever Survey.

During the course of the spotted fever survey a total of 5,228 host and drag ticks were recovered in 56 collections. Of these, 1,038 were host ticks taken from small wild animals, and 4,190 were taken by drag. The 1,038 host ticks were collected from 463 animals, of which 450 were shot and 13 trapped. As most of the investigation was carried on in new territory, no spotted fever positives were found.

A total of 722 protective inoculations against Rocky Mountain spotted fever were made in the known infected areas. Of these, 304 were made at Manyberries, 291 at Redcliff, 93 at Thelma-Elkwater, and 34 at Medicine Hat. The treatments were about equal as far as sex is concerned, with 328 females and 394 males being protected.

A case of Rocky Mountain spotted fever, determined on clinical basis, occurred in a 41-year-old male at Wrentham, Alberta, during June. An investigation of this case indicates that the patient contracted the infection from a tick bite at Lake Newell in the Brooks area. The Brooks area is a known spotted fever infected district. The case was mild, and the patient discharged as recovered.

Plague Survey.

During the course of the Sylvatic Plague survey 161 collections were made, consisting of 928 animals, of which 498 were shot, 423 trapped, and 7 found dead. A total of 1,326 fleas and 228 tissue specimens, mostly from *Citellus richardsonii*, the prairie gopher, were recovered and submitted to the laboratory for bacteriological examination. None of the material was positive for plague.

No further extension of the known plague area was discovered, but four Norway rats were trapped at Alsask, about six miles east of the eastern boundary of the plague area. These were the first rats to be found established in a colony in the Province of Alberta. This discovery indicates that within a short time rats will be established in the known plague area east of Youngstown, and will consequently greatly increase the health hazard of this disease. To date, there are nine separate areas of plague infection in the Province. These are located as follows: Hanna, Stanmore-Youngstown, Naco-Oyen, Rose Lynn-Pollockville, Kimmundy, Gleichen, Brooks, Lomond and Suffield. Although all of thes areas hold a potential health threat, it is considered that on account of their high human population the Gleichen, Brooks and Lomond areas are of prime importance. Furthermore, the discovery of these areas, which occurred during the past five years, indicates that the infection is spreading in a southwestward direction into areas of high human population.

Tularaemia.

The tularaemia investigation showed that this disease is widespread in the Province. The greatest incidence is in the wooded areas north of Edmonton, where most of the cases were traced to contact with such infected animals as rabbits and game birds. The majority of the cases in the area south of Edmonton occurred in the extreme southeast corner where the spotted fever tick, *Dermacentor andersoni*, is known to be the main source of infection. One case of tularaemia in man was traced to infected material in the sump pit of the Canadian Pacific Railway roundhouse at Lethbridge.

The importance of tularaemia as a health problem is being increasingly recognized by physicians, with the result that a more precise diagnosis is now being made and the sources of infection established. The ramifications of tularaemia in nature in the Province is now known to include such various and diverse sources as cats, field mice, gophers, grouse, gulls, mink, rabbits, sheep, skunk, swine and ticks. Three tick collections taken at Elkwater, Redcliff and Atlee were positive for tularaemia.

Rat Survey.

The expected rat invasion of Alberta, as forecasted from a study of their migration rate in Manitoba and Saskatchewan, materialized when a colony was found on a farm in Section 36, Township 26, Range 1, West of the 4th Meridian, at Alsask. This colony was found on July 18, 1950. Through investigation it was demonstrated that this infestation was an extension of the Saskatchewan infestation. Following this discovery, and in view of the fact that the rat problem was primarily rural, the Department of Agriculture, on September 1, 1950, took over the rat control work and formulated a control program. However, this division still maintains an interest in the rat problem, and all rats collected in the Alsask area are shipped to it for examination for the presence of bubonic plague. Only four of the rats in the colony, two males and two females, were trapped, and the rest, estimated to number approximately twelve, were destroyed through the use of poison gas.

Mycology.

The Division continued to render service to Dr. E. Silver Keeping of the Provincial Laboratory, through the collecting of animal, particularly mice, tissue which was used to determine the incidence of *Haplosporangium* infection.

General.

An increasing number of requests are being received from Medical Officers of Health for assistance in the control of insect pests, particularly flies and mosquitoes. The fly problem has become quite important, as there is considerable evidence that flies are involved in the transmission of poliomyelitis. During the year assistance was given to the Medical Officer of Health for Lethbridge in organizing and carrying on a successful fly control campaign within the city boundaries. Information and assistance was also supplied to the local Medical Officer of Health in a number of villages and towns.

Mosquito control programs were formulated and put in force in a number of recreational centres in various parts of the Province.

Conferences were held with representatives of hydro-power developments and Water Resources engineers in regard to the feasibility of preventing mosquito grounds from becoming established during the construction of power dams and irrigation systems. In most cases excellent results were achieved. However, it should be pointed out that unless proper precautions are taken, stagnant water associated with power reservoirs, irrigation dams and irrigation ditches will eventually become breeding places for enormous numbers of mosquitoes.

The inspection of insect infestation in foodstuffs continues, but through the co-operation of the Food and Drug Division of the Department of National Health and the Division of Entomology of the Dominion Department of Agriculture, the Pest Act regulations in regard to the importation of foodstuffs have been enforced, with a consequent decrease in the incidence of imported infestations.

Good progress has been made in arranging and determining the collection of native insects known to be incriminated in the transmission of various diseases.

The Flea collection is practically complete, with some 53 species having been determined. Of these, 11 species are known plague carriers. Work is now progressing on determining the distribution of these species.

The Tick collection numbers 9 species, three of which are important transmitters of Rocky Mountain spotted fever and tularaemia. The distribution of all of the species has been fairly well determined.

The Mite collection, due to the difficulty of finding someone qualified to undertake the determinations, has not yet been determined, except for four species which are common and easily identifiable.

The Mallophaga, or feather lice, collection has been practically all determined, with some 37 species being represented in Alberta.

The Anoplura, or sucking louse, collection is still in the process of being arranged, and only eight species have been determined so far.

An interesting development was the discovery of two known and three new species of chiggers, which are related to the mites. The chiggers are incriminated of the transmission of rickettsialpox, and although the disease has not yet occurred here, we now know that both the mouse (which is the reservoir for the infection) and the chigger (which is the transmitter) are present at various points in Alberta.

Assistance was rendered to the Alberta Liquor Commission in formulating plans for insect control, particularly cockroaches in licensed hotels.

A considerable amount of time was devoted to the identification of agricultural insect pests submitted by the Department of Agriculture. Following the identification, recommendations for control methods were forwarded to that Department.

The usual procedure of keeping the provincial, city, municipal and Liquor Commission sanitarians informed on the latest methods for control of pest insects was continued through the medium of formal and informal meetings, bulletins, correspondence, etc.

Preliminary investigations into the possible occurrence of miteproduced asthma in human beings was undertaken, and considerable information relative to the occurrence of asthma in persons working in dusty surroundings was compiled. Work elsewhere has shown that asthma in such people is often caused by two species of mites, both of which occur in Alberta.

Mosquitoes and Encephalomyelitis.

Good progress is being made on collecting information relative to the native mosquito species and their distribution. To date, 31 species are known to be present. Six of these are transmitters of Equine Encephalomyelitis.

Educational Work.

The usual educational work in regard to the control of insectborne diseases was carried on through the media of newspapers, radio, motion pictures and addresses. A number of lectures were given to the medical fraternity, Faculty of Education, Home and School Associations, and various organizations and groups.

During the year two papers were published, one in the Canadian Journal of Research. They are:

The Ticks of Alberta with Special Reference to Distribution. J. H. Brown, M.Sc., and Glen M. Kohls. The Canadian Journal of Research, D, 28: 197-205, 1950.

Pamphlet on Rocky Mountain Spotted Fever. J. H. Brown, M.Sc., Public Health Entomologist.

Cancer Services

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

On October 1st, 1950, a new Cancer Clinic was opened in the Galt Hospital in Lethbridge under the directorship of Dr. P. M. Campbell.

Edmonton Calgary Lethbridge		New 3,090 2,002 177	Follow-up 3,192 1,767 78	Total 6,282 3,769 255	
	Totals	5,269	5,037	10,306	

It ill be noted that the total number of new cases is 5,269, including the first three months of 1951, compared with 3,516 in 1949, 3,220 in 1948, 2,916 in 1947, 2,258 in 1946, 1,794 in 1945, 1,726 in 1944, 1,670 in 1,943, 1,186 in 1942, and 1,142 in 1941.

Of these cases 3,203 were found to be non-malignant, and therefore did not require treatment under the Cancer Clinics.

A summary of the anatomical distribution of the cancerous lesions in order of frequency is attached hereto, 2,066 in number.

The following are the number of Procedures authorized by the Clinics:

The total number of cases referred to hospitals: Edmonton Calgary Lethbridge	2,103 989 49
Total	3,141
The total number of cases referred for X-ray and	Radium
erapy:	
Edmonton Calgary Lethbridge	822 476 76

th

5

	76
Total	1.374
Total	

The total number of cases referred for major surgery, radical mastectomies, abdominal-perineal resections, fastrectomies, colon resections, thoractomies, craniotomies, etc.:

Calgary		740 509 22
	Total	1,271

Following are the number of cases referred for Diagnostic Procedures:

Calgary	137 50 5
Total	
Calgary	746 323 30
Total	1,099

DEPARTMENT OF PUBLIC HEALTH

Diagnostic C	urettages:	319
		48
Lethbridge		2
and the second second		
	Total	369
Encenhalogra	ams and Ventriculograms:	
Edmonton	ans and ventralograms.	51
Calgary		1
Lethbridge		
	m.1.1	
	Total	52
Bronchoscopi	cs and Cesophagoscopies:	
Edmonton		132
Calgary		47
Lethbridge		
	Total	179
	10441	119
	bic Examinations:	
Edmonton		164
Lethbridge		4
Letibridge		3
	Total	171
a		
	Examinations:	
Calgary		224 114
Lethbridge		1
		-
	Total	339
Edmonton		168
		56
Lethbridge		2
	Total	226
Edmonton		339
Calgary		
(The Car	gary Cancer Clinic has its own Laboratory facilities)	
Lethbridge		5
	Total	344
		944
Referred for	X-ray Examinations:	
Edmonton		1,709
Lethbridge		846
Leanoninge		51
	Total	2,606

Since the opening of the Clinics in 1941, the total number of cases examined, exclusive of re-examinations, is 24,697. Of these, 11,346 were diagnosed as Cancer.

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ANATOMICAL DISTRIBUTION OF CANCEROUS LESIONS IN ORDER OF FREQUENCY

EDMONTON

CALGARY

EDMONTON	
Skin	186
Breast	128
Stomach	90
Colon	84
Cervix	67
Lip	61
Prostate	44
	41
Rectum	37
Lung	37
Uterus	29
Bladder	29
Leukaemia	28
Lymphos	
Primary Unknown	22
Ovary Brain	22
Brain	18
Hodgkin's	17
Kidney	14
Pancreas	13
Testicle	12
Bone	11
Gall-bladder	11
Miscellaneous Thyroid	12
Thyroid	9
Oesophagus	6
Larynx	6
Mouth	5
Liver	5
	4
Vulva Bile Dust	3
Blie Dust	0
Eye Multiple Myeloma	3222222
Multiple Myeloma	2
Malignant Melanoma	2
Maxillary Sinuses	2
Sarcoma Fibro Sarcoma	2
Fibro Sarcoma	2
Penis	2
Parotid Chondro-Myxo-	1
Chondro-Myxo-	
Sarcoma	1
Fibro-Myxo-Sarcoma	-1
Neurogenic Sarcoma Anaplastic Sarcoma	1
Anaplastic Sarcoma	1
Salivary Gland	1
Urethra	1
Urethra Vocal Cords	1
Pharvnx	1
Nasal Polyp	î
Nasal Polyp Vaginal Wall	î
Left Mastoid	i
	1
Antrum	
Ureter Meloma Epithelioma	1
Meloma Epithelioma	1
	1000
Total	1080

Skin	173
Breast	142
	69
Lip	64
Stomach	55
Colon	47
Cervix	37
Bladder	32
Prostate	31
Uterus	27
Rectum	26
Lung	
Hodgkin's	21
Mouth	19
Abdomen	16
Larynx	11
Ovary	11
Parotid	10
Leukaemia	9
Bone	9
Oesophagus	7
Kidney	7
Eye	6
Eye Gall-bladder	6
Miscellaneous	5
Lymph Gland	5
Testicle	5
Pancreas	4
Brain	* 4
Sarcoma	43222211
Nose	3
Penis	2
Thyroid	2
Nasopharynx	2
Salivary Gland	2
Back	1
Caecum	1
Cheek	î
Chest	
Ear	1
Hip	1
Leg	1
Polycthaemia Vera	1
Septum	1
Vulva	1
Total	883

LETHBRIDGE	
Skin	41
Breast	17
Lip	17
Stomach	7
Colon	3
Uterus	3322221
Cervix	3
Mouth	2
Pancreas	2
Leukaemia	2
Thyroid	2
Bladder	1
Caecum	1
Rectum	1
Testicle	1
Total	102
I OLUL	100

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Cerebral Palsy Clinics

DR. F. G. DAY, Director.

The Alberta government, in the summer of 1950, opened and began operating the first clinic in the Province for the diagnosis and treatment of cerebral palsy. The location was the Kingsway Legion Hall, which soon proved inadequate, and the present temporary quarters at 10560 105th Street were engaged for the remainder of the time until permanent quarters are built by the government.

Equipment.

The clinic is well furnished with the necessary equipment, but there is much that cannot be used until larger quarters are available.

Staff.

The staff consists of the director, secretary, and occupational therapist. This will be greatly augmented.

Clinics.

Clinics are held on Saturday mornings for examination of new cases one week and for progress review of treated cases the next week. We have seen and diagnosed 58 cases, of which 80% were Cerebral Palsy.

Out-patient treatment is continued for the remainder of the week, wherein 10-15 cases are treated daily.

Future Plans.

Plans are well under way to construct a Clinic Building, for which three lots have been purchased at 115th Street and 74th Avenue. The staff will shortly be augmented by a Brace Maker, a Speech Therapist, a Specialized School Teacher and a Physiotherapist. It is planned to duplicate these services in Calgary as soon as the Edmonton Unit is well under control.

After considerable research, it is my estimation that there are very close to 500, if not over 500, cases of cerebral palsy in the Province of Alberta who are under the age of 15, and that approximately two-thirds of these could be very definitely benefitted by treatment. Since we will be able to treat not more than 30 in the Edmonton Clinic, and approximately the same in Calgary at a later date, it would appear that our facilities are very inadequate. However, the birth rate in the Province at the present time should remain under 50 new cases per year, and consequently, though we will be unable to cope with them all at the present, I believe that our facilities are probably adequate, and we will certainly not end up with a program too large for our Province in the future.

I have seen great improvement in many of the cases that have been treated during the past six months. No case has been discharged as cured, but on the other hand, no case has been maintained persistently at the clinic who has not shown a defenite improvement. We have been greatly assisted by the Cerebral Palsy Association, who have paid the rent on the existing quarters and maintained a bus to provide transportation, and by the City Firemen who drive the bus. The South Edmonton Kiwanis Club have assisted us in preliminary equipment and expenses, and are raising funds to build a Recreation Building and Playground adjoining the Government Clinic. The Canadian Travellers Association has given financial assistance wherein they purchased the transportation bus and many other clubs, organizations and individuals, too numerous to mention, have offered financial and moral support for the present and the future to allow us to maintain the program and expand the extraneous services as we see fit.

Health Education

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

Health education is an art. As an art it draws upon scientific knowledge amassed in the pursuit of numerous sciences. These sciences are medicine and its allied sciences—biology, psychology, and the social sciences—and many of the practical arts. The analysis (science) and the synthesis (philosophy) of this knowledge constitute the material out of which health education of the individual and the community emerges.

Problems connected with the restoration, conservation, and promotion of health have beset man since his advent on this planet. Ideas, explanations, and attempts to solve these problems have varied with the different states of culture through which society has evolved. It is only within recent years that these problems have received effective study by society. At present, owing to the rapidity of social changes, health problems have been thrown into bold relief against the background of disorganization in the economic, political and social arrangements of society.

The health problem of today is a community problem. It is no longer possible to separate the health of the individual from that of the community at large. Conditions of work, recreation, education, food supplies, communications, and transportation, which were at one time largely the personal concern of the individual, have become community problems and must be solved as such. The health of the community is measured at present by negative results —the minimum of morbidity and mortality.—Robert G. Paterson, Foundations of Community Health, Education 1950.

Grants for Health Education.

A project in Health Education for Alberta was approved and a grant received for that purpose. This included the purchase of 51 new health films, the production of three filmstrips, "The School for Nursing Aides," "Rural Sanitation," and "School Sanitation," and the employment of a filing clerk for the division of health education.

The schools of nursing in Alberta were the recipients of a grant for the purpose of purchasing films suitable for use in their training program. The health education division was assigned the task of administering this project. Following preview and purchase, the nursing school films were censored, code numbers assigned, and the prints placed in the provincial film library for circulation and maintenance. A satisfactory schedule was prepared and the new service launched in the fall of 1950.

A tape recorder for the preparation of talks, the training of staff in the field and recording "live" programs from the radio was received early in 1950. This piece of equipment has proved to be a valuable educational tool especially for new staff in self-criticism of material to be presented at public meetings.

The new films purchased under the health grants were selected by a committee of directors from a number of the divisions of the Department. Subjects approved included films on sanitation, communicable disease, nutrition, entomology, family living, child welfare, mental and dental health, nursing, cancer and human biology.

On October 23rd a filing clerk and mimeograph operator was added to the staff of this division. The duties assigned to this individual include filling all orders for health education literature, filing, cutting stencils and operating the mimeograph machine.

School Health Education.

Health education is the process by which health should be attained by every child as far as it is possible for him. This process involves creating conditions conducive to good living; guiding pupils in the use of this created environment; helping them to develop understanding habits, skills, interest, and attitudes which eventuate in good living, and encouraging them to set up and progress toward appropriate goals.

Visitations to schools in the Province, approved by the Department of Education, have enabled the division to integrate the overall provincial health education program with the health program carried on in the school. Opportunity for teaching to influence toward better health attitudes and habits was present at each school. Audio-visual aids were effectively used in all grades to supplement the lessons taught.

Participating in these experiences were pupils, teachers, municipal and health unit nurses, medical officers of health units, the provincial nutritionist and the health educator. The municipal nurse welcomes the opportunity of contacting the schools of her area through a planned educational program which provides scope for concentrated teaching in preventive medicine. A yearly visit of this nature to all schools should be made possible.

The medical officer of the health unit was present at some of the classroom discussions, and spoke on the functions of the unit. His presence established the rapport and liaison desired between the local and provincial levels in health education.

Teachers interested in the school lunch programs were assisted with its organization and planned menus, for a school term. The public health nutritionist was present to assist in this service.

Eighty schools were visited and health films shown to nearly five thousand pupils.

Health Education Media.

Audio-Visual Films and Filmstrips.—It is most gratifying to note that our film library has received 51 new prints. A descriptive list of the new additions to our film library will be made available to the public early in the new year. We now have 181 films and 60 filmstrips in our library.

Films screened in 1951 numbered 1,138, according to reports received. Always there is a percentage of film users who do not report.

The total film audience approximated 60,000.

Two films on the mental health and nursing services of the department were completed this year and released for general use. The former is a documentary which clearly defines in picture and commentary the progressive steps in treatment, commencing with admission and following through to the discharge of a patient from one of our mental hospitals. The medium used is a graduate nurse who surveys the institutional service objectively. This film has a three-fold purpose of enlightening the public upon the life within the hospital, disarming any fears about treatment, and finally as an inducement to those who are interested in psychiatric nursing.

The second film follows a district nuse through a cross-section of the service which she renders to the isolated areas of the Province. The message in this presentation is directed to high school girls who could be interested in a public health nursing career.

The Supervisor of the School of Nursing Aides applied to this division for a filmstrip to be produced outlining the important steps in the training program of that service. This filmstrip will be available for use in the spring of 1951. Its use will be for educational and recruitment purposes.

The Sanitary Engineering Division and sanitary inspectors of our health units have felt the need of an educational medium depicting the installation and service of small town water supply. A filmstrip to introduce this subject is being produced. Pictures used will be a composite of one or more water supply projects now under construction in Alberta.

A third filmstrip, "Rural School Sanitation," will be attempted in the spring of the new year. This project is a result of requests from health unit staffs. It is believed that a strip film could be a valuable aid in health education to teachers and pupils in rural areas.

A large number of films were previewed primarily with a view to purchase. Approximately seventy-five films were approved. Members serving on the preview committee are personnel from provincial, municipal and health unit staffs.

Radio.—Radio is the medium for the spoken word—not for the written word. The written word which is spoken is, in the meaning of the above, still a written word, while the spoken word even though set down on paper remains a spoken word. Those who disparage the "straight talk" in favor of the dialogue or of the dramatic presentation are unwittingly favoring those forms of presentation which can only be executed in the patterns of speech. Dull and wooden dialogue and forced or stilted drama are far worse than their counterparts in "straight talk". Dialogue and drama are laden with qualifications which limit their application in health education.

Talking "to the person" is no easy art, and yet there is no effective substitute. In the spoken word one addresses himself to the living person, while in the written word one addresses himself to the subject matter. To address oneself to a living person implies psychologically to arouse curiosity, to enlist sympathy, to lead to action. He who talks to the subject, so to say, sets out his stores to let those who will come and partake.

January through March, every day health problems such as arthritis, undulant fever, migraine, and allergies were broadcast over four stations weekly as a public service feature. The thirteen programs in the series were prepared broadcasts on loan from the American Medical Association.

Dramatic monologues, one for each of the thirteen divisions, illustrating the services through a human interest story completed the first half of the year. These five minute plays were given over nine stations weekly at a total cost of \$1,062.

A second series of A.M.A. programs opened in the fall and carried through weekly on CKUA until the close of the year.

Publicity for CBC programmes, "In Search of Ourselves" and "The Robinson Family," was channelled through this division. Advance notices and study guides were circulated to health units, school superintendents, the Home and School Association, and many others.

On January 26, Dr. Bow introduced National Health Week to Alberta listeners with a talk on the progress and problems in public health.

Edmonton Exhibition.—Representatives from a number of the divisions of the department pooled ideas for suitable displays to be prepared for the Edmonton Exhibition. The keynote of each effort was a model demonstration of the major services of the division.

Communicable disease stressed the value of immunization through the statistical approach. Emphasizing this was a cemetery carrying the mortality figures of a variety of communicable diseases in the form of crosses. A striking caption indicated this unnecessary waste of life.

A demonstration of the most recent menace to public health was shown by the division of entomology. Live rats trapped on the south-east border of the Province focused attention on the programme of rat control undertaken by the Department of Public Health. Statistical estimates of damage caused by rats strengthened the appeal for immediate action.

The division of sanitary engineering showed by contrast through model buildings and environment the effect of good and poor sanitation on the farm. The location of buildings and water supply from recognized sources of diseases was realistically planned. This lesson in the development of proper health attitudes spoke for itself.

A new exhibit in our group was the display prepared by the Red Deer health unit. In addition to posters describing the service of the health unit, a model building of a health unit centre called attention to the functioning of the programme in preventive medicine.

The Hospital and Medical Services and Municipal Hospital Division illustrated their programme with appropriate posters and the model of a modern municipal hospital.

Vital Statistics. This division had a picture display illustrating the six most important periods in a man's life when he is required to produce a birth certificate.

Public Health Nursing. A model arrangement of a nurse's cottage, a home and a school suggested the close relationship between these three entities in any nursing district. Services were listed on an attractive background poster.

Tuberculosis Control. Again the staff of the Sanatoria had a most attractive display of handicrafts made by tuberculosis patients from the Edmonton hospitals. Because there was an excellent quality of workmanship throughout, these articles sold quickly.

Health Education. The educational tools used in our program were displayed. The outlet for this media was portrayed as being channelled through the home, the school, recreation centre and the church. The screening of health films on a variety of subjects attracted good audiences. Forty-five screenings were shown to approximately 1,500 people.

Nutrition Services. Canada's food rules dominated the centre of interest in the nutrition exhibit. Large models of vegetables, fruit, cereals, bread, fish, meat and a milk bottle, all in pastel tones, made this display one of the most effective.

The Provincial Laboratories supplied microscopes and slides to view a number of the pathogenic organisms.

The Guidance Clinics illustrated their services by posters.

Cancer Services. This division did not prepare an exhibit, but the Alberta Branch of the Cancer Society had an animated poster display. Representatives of this organization were in attendance each day.

Lecture Service.

Talks on various phases of public health were given by this division to twenty groups in the Province. Subjects discussed included communicable disease, services of the department, health education, family relationships, etc. A number of these requests were from district nurses, some from one-nurse health units, and the balance from organizations outside the department.

Speakers were obtained for the Home and School Association to address regular monthly meetings during the fall and winter. Blood donors, school health, cerebral palsy, city health services, care of the eyes, and dental health were subjects outlined by local men outstanding in their respective fields of medicine. This type of service is always appreciated, and speakers are most willing to respond to requests of this nature.

Seba Workshop.

In collaboration with the Department of Education, the public health nutritionist, the sanitary engineering division, and the health educator, a workshop in health education was held in Seba High School, March 24, 1950. The purpose of the workshop was to acquaint as many teachers as possible with some of the services of the Department of Public Health, to assist the teachers in the interpretation of the health program, and to encourage introduction of school lunches.

The weather made it impossible for us to hold our workshop on the date set, and it was postponed to March 24. Seventeen teachers, the superintendent, and one or two visitors were present. The morning was devoted to nutrition and sanitation. The nutritionist discussed school lunches and a survey of school needs in nutrition. The teachers were quite keenly alert to the needs in this field, and had an incentive for this program which might be felt in their school work.

Kits of literature were distributed to each teacher present, the use of the material explained and a list of other sources of information was supplied.

The next topic, sanitation, covered milk supplies, drinking and washing facilities and toilets, and the interpretation of public health in respect to these. The discussion period following was of interest in that it released a flood of questions which overflowed into the lunch hour.

The afternoon session was a demonstration lesson by the health educator. The subject requested was "Control of Venereal Disease." A film was used to complete the demonstration. The discussion again was well worth the time spent in preparation.

This was the first Health Education Workshop attempted in the Province. The teachers present voted it a success, and suggested topics for a future institute.

Women's Institute Cancer Conference.

The Cancer Society, Alberta Division, in co-operation with the Women's Institute, sponsored a conference on services of the Department of Public Health held in the Medical Building, May 2, 3 and 4.

Representatives from each council of the Women's Institute of the northern half of the Province were present at this conference. Divisional heads from the Department of Public Health were asked to explain the functions and services of their respective divisions. The division of health education attended two meetings, and spoke to the women on "Health Education Tools and Their Use."

As a result of the discussions held in Edmonton, some of the delegates have requested assistance from this division in their programme of health education.

Literature.

An attractively printed health booklet convincingly written and dealing with a subject of immediate concern, when given to a client by a person of authority and evident integrity, constitutes as potent a supplement to the spoken word as the health official has at his command.

In the past year we were fortunate to receive a number of new free publications covering interest levels from that of the school child to middle age and subjects running through child welfare, communicable disease, nursing, safety and dental health. Sponsors included National Health and Welfare, Metropolitan Life Insurance Co., and the Canadian Dental Association.

Revision of current provincial health publications is a continuing process from year to year. New literature from the department included one pamphlet on Rocky Mountain Spotted Fever and the preparation of a Health Education Services Catalogue. This book will include a descriptive list of all health films, filmstrips and free literature classified by title, posters, displays available and lecture service.

Additional Health Education Services.

Mimeograph Service. This type of service is utilized by most of the divisions. Newsletters, circulars, forms, lists, bulletins, etc., to a total of nearly 46,000 sheets have been prepared in a four month period. The type of material delivered by the mimeograph is equal to printing for this class of literature, while the service is much better.

Circulation Service. Provincial and extra provincial reports, publications, newsletters and public health literature generally are channelled through this office to other divisions of the department. On its return this material is filed for general reference.

Health Education Service Catalogue.

A new health education service catalogue has been prepared, bringing up to date the following:

Descriptive listing of all 16 mm films and 35 mm filmstrips in the public health library.

New public health free literature; provincial, dominion and voluntary health agencies.

Lecture service.

Other informational services.

Copies of this catalogue are distributed to each health unit centre, the district nurse and boards of health in Alberta cities. Copies are also made available to all schools and voluntary agencies having 16 mm projectors.

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Nutrition Services

ELVA M. PERDUE, B.Sc.H.Ec.

Nutrition is a rapidly changing science. Each month new data are worked out in research laboratories. One of the most important aims in any nutrition programme is to translate research into practical facts that may be directly applied and used in the home.

During the year the following methods were used by the Nutrition Services of the Alberta Department of Public Health to promote the dissemination of nutrition knowledge:

- (1) Distribution of educational materials.
- (2) Contact with nurses.
- (3) Direct consultation service in clinics and homes.
- (4) Work in schools.
- (5) Work with women's clubs, Women's institutes, Home and School Organizations, St. John's Ambulance classes, and similar groups.
- (6) Nutrition education at exhibitions and community affairs.
- (7) Consultant to small institutions.

Educational Materials.

The majority of the nutrition publications and posters distributed from this office are produced by the Nutrition Division, Department of National Health and Welfare, for and in consultation with provincial nutritionists.

A new publication, Meals for One or Two was received this year from the Nutrition Division. In addition the following materials were revised by the Federal Department and received at the provincial level for distribution: Healthful Eating; Good Red Blood; How Well Fed Are You?; The Lunch Box Is On The March; Mother, The School Lunch; Canada's Food Rules and Camp Feeding.

Mimeographed materials were prepared by the nutritionist for general distribution and for use in specific programmes. For example, to meet the need created by the larger number of enquiries concerned with the advisability of using aluminum cooking utensils. Materials were also prepared on food budgets and low cost meals stressing the protective foods.

Eighteen nutrition films and filmstrips, as well as slides and posters are all a working part of the nutritionist's teaching materials.

Contact with Nurses.

An opportunity is afforded the nutritionist while working with the public health nurses to summarize the latest advances in nutrition and interpret laboratory research in terms of practical applications to the needs of varying economic levels, nationality, backgrounds and conditions of health and disease. One of the most far reaching educational activities of the nutritionist is to be of service at all times to the nurses, providing for them such aspects of nutrition as requested and to discuss practical problems.

The Nutrition Services prepares and distributes a mimeographed release entitled "Nutrition News" to the public health nurses to keep them posted in the trends of the science of Nutrition. During the year, 20 nurses were visited and nutrition programmes carried out in the schools and in the communities.

Talks on nutrition have been given to the pre-clinical nurses at the various Schools of Nursing in Edmonton.

Consultation in Clinics and Homes.

During the pre-natal, post-natal and the period of early childhood, mothers are particularly concerned with health and wellbeing, and a more receptive attitude to new information on foods is often shown.

The nutritionist attended Well-Baby Clinics when working with the public health nurses. Direct consultation in the clinic not only gives immediate help in the food problems at hand, but provides an excellent opportunity for positive health teaching, preventing malnutrition, nutritional anaemia and minor digestive disturbances.

Home visits were arranged at the request of the public health nurse. In this service the nutritionist was afforded the opportunity to evaluate the need and make recommendations to assist the nurse and mother.

Work in Schools.

The nutritionist accompanied the health educator on visits to the schools. Talks, films, filmstrips and food demonstrations were used to arouse interest in better food habits. The direct work in schools also provided teachers with devices to re-emphasize the nutrition education programme for continuous implementation.

Assistance is given in improving or securing hot lunches in the smaller schools having no home economics teachers. Hot lunch projects for the schools have been sponsored by local, civic, or Home and School Associations once the impetus was provided.

In the current year the nutritionist assisted at a Health Institute for teachers conducted in one of the School Divisions.

From the work with teachers, public health nurses and children in schools, many requests for assistance in solving specific problems have been received and dealt with.

Work with Local, Civic and Welfare Groups.

Talks have been given in communities to groups such as the Women's Institute and home and school organizations. Providing the latest nutrition information to club women is often the means of promoting nutrition programmes and study groups within the community.

Classes on nutrition were given to Home Nursing groups.

Nutrition Education at Exhibitions and Community Affairs.

A display for the Nutrition Services was prepared for the Edmonton Exhibition. This exhibit, as well as other educational exhibits, were made available on loan to convention groups and to communities for special programmes, for example, during Education and Health weeks.

Consultant to Small Institutions.

During the year the office of the Public Health Nutritionist continued to prepare and distribute to the municipal hospitals, school dormitories and other agencies interested in group feeding, mimeographed material entitled "Institutional Supper Menus." This

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publication was released monthly, and included suitable recipes. The response to this material has been most gratifying.

The small hospitals requested assistance in solving their dietary problems. The nutritionist assisted seven of the hospitals in obtaining suitable quantity recipes.

Miscellaneous.

The Nutrition Services received numerous requests for information which required research in technical journals.

Public Health Nursing Division

M. M. FITZSIMMONS, R.N., P.H.N., Acting Director

During the year 1950 the Nursing Division had a total of 35 districts open, 3 Well Baby Clinics and 8 One-nurse Health Units. In the summer with staff changes and leaves of absence, there were several districts vacant, but when roads were difficult to travel the majority of districts were staffed.

In April, in view of the fact that Miss Jean Clark was taking a year's leave of absence to study in Scotland, Miss Fitzsimmons was appointed Acting Director, and Miss Blanche Emerson as Acting Assistant Director.

During the year there were six permanent appointments and eleven temporary appointments made. The two nurses from the Schools of Agriculture transferred to the department for summer relief work. One nurse returned from leave of absence after taking a Public Health Course at the University of Toronto. Two nurses retired from the staff: Miss M. Hagerman of the Well Baby Clinic, Medicine Hat, and Miss Amy Conroy from the Lindale district, both having given many years of outstanding service. One nurse was granted leave of absence to take her Public Health Course at the University of Toronto; two nurses were granted four months leave of absence to take the Advanced Course in Practical Obstetrics at the University of Alberta; Miss Laura Attrux was also on leave of absence to teach this course. One nurse transferred from a district to a one-nurse health unit; one nurse resigned to be married, one to join the armed forces, and seven for personal reasons.

In April the Nursing Service Act was passed, which allowed municipalities to have the services of a district nurse which formerly had been limited to local improvement districts. From the many new regulations developing from this Act, all districts had to have a new contract drawn up. This involved a great deal of extra organization for all parties concerned, but it is improving the standard of equipment in the cottages.

In March, the district of Maloy was closed in view of the opening of the Glendon Municipal Hospital.

A new Municipal Nursing Service was opened in August at Warner, with Miss Kathleen Ambrose in charge.

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

Regular clinics are held in connection with the following centres: Alder Flats at Buck Lake and Pendryl; Bow Island at Burdett, Conquerville, The Gas Company Camp at Whitla; Breton at Winfield; Fawcett at Jarvie and Flatbush; Foremost at Etzikom, Hoping School, Orion, Manyberries and periodically at Lucky Strike; Kinuso at Canyon Creek, Widewater and Faust; Milk River at Coutts; Peers at Haddock and Shining Bank; Smith at Slave Lake; Tangent at Eaglesham; Warner at New Dayton and Wrentham; Whitecourt at Blue Ridge; Fort Assiniboine at Timeu.

Urban and Child Welfare centres are operating at Calgary, Medicine Hat and Vegreville. Miss Black at Vegreville carries on a Well Baby Clinic, school health inspections and immunization programme and welfare problems for the surrounding area.

Miss Hagerman retired after many years of service in Medicine Hat, in June, and was replaced by Miss Marion C. Story. As well as regular Well Baby clinics in Medicine Hat, Redcliff and Suffield, school work in the rural area; 31 one-day Baby Clinics were held in surrounding centres; six Guidance Clinics were attended; 26 V.D. Clinics; 35 appointments were made for chest X-ray and 30 letters sent to T.B. contacts. Ten Rocky Mountain Spotted Fever Clinics were held. The nurse assisted in the Medicine Hat city schools in giving 2,935 immunizations for Pertussis, Diphtheria, Smallpox and Scarlet Fever. A total of five lectures were given, two of which were to the Junior Red Cross Home Nursing class.

Miss Lavell reports from Calgary that they had 8,865 infants and 3,386 pre-school children attending the clinic, making a total of 12,251, of which 172 were from rural areas. New cases included 1,696 infants and 775 pre-school children, making a total of 2,471. Total attendance was 197 over any previous year. Auxiliary clinics were held on the North Hill with 602 in attendance, Currie Barracks with 428, and Bowness 24. This clinic was closed early in the year.

In October, Bowness was re-opened, employing their own nurse on a part-time basis, and 174 cases were transferred from the City Clinic to Bowness, 114 attending in the three months.

Seventy-eight students from the City Hospitals and 193 students from the Nursing Aides School were observers, and received teaching instruction at the clinic.

One-nurse Health Units.

The Nursing Division continues to give supervision to eight one-nurse health units, which include: Athabasca Health Unit, Colinton; Brooks Health Unit, Brooks; MacLeod-Pincher Creek Health Unit, Granum; Pembina Health Unit, Barrhead; Rocky Mountain Health Unit, Rocky Mountain House; Spirit River Health Unit, Spirit River; Wainwright Health Unit, Wainwright; Wheatland Health Unit, Strathmore, Alta. The nurses working alone in these areas are the only full-time health personnel, and they are doing excellent work. They are faced with the complete responsibility of the staff of the average health unit, carrying on all services of a preventive and educational programme.

Staff Education.

The Spring Conference was held as usual at the St. John Ambulance House, and was well attended. Interesting and informative lectures were generously given by several medical personnel, namely: Differential Diagnosis in Pediatrics by Dr. Brock Armstrong; Newer Drugs, Dr. F. Elliott; Information on the Workmen's Compensation Board by Mr. E. E. Owens; Treatment of Skin Diseases by Dr. P. Rentiers; Orthopedics in Relation to Foot and Back Posture by Dr. G. Wilson; Films and Their Uses by Mr. C. C. Evoy. Dr. Bow introduced Dr. N. Baster, the new Director of Communicable Diseases and Health Units. Miss Attrux conducted a discussion on Obstetrics as applied to district nursing.

The Quarterly News Letter continues to be sent out to all staff member with information about Newer Drugs and their uses and treatment applicable to the district work. One page is devoted to news of fellow workers and general information in regard to the administration.

New staff members are given a few days orientation in the office and in a district with a senior nurse before going to a station of their own.

Supervision.

As many visits as possible were made to the different districts to assist the nurses in their problems and to meet with the Nurses Home Committees in regard to their responsibilities in maintaining and improving the nurses cottages, grounds, fences and water supply. Monthly reports and bi-monthly letters are sent in by the nurses.

Miscellaneous.

Along with the general administration duties, it has been an exceptionally busy year reorganizing the districts under the new Nursing Service Act.

A small display for the nursing office was arranged at the Edmonton Exhibition, as well as being on part-time duty at the Public Health Exhibit.

Lectures in Public Health Nursing were given to the senior nurses at each of the four city hospitals. Seven groups of fourth year medical students were shown the film, "On the District Nursing Service," and given a lecture on Public Health Nursing in Alberta.

A talk was given to each of the Alberta Women's Institutes groups for Northern and Southern Alberta, regarding the Public Health Nursing Service in the rural areas. Several lectures in Home Nursing were given to a St. John Ambulance group. The new sound-color film "District Nurse" was released for our use by the Extension Department.

The Public Health Nursing students from the University of Alberta received two weeks field work at the district nursing centres, and students from the four city training hospitals received experience at the Well Baby Clinic.

Layettes were supplied by the Provincial I.O.D.E., the F.W.U.A., and the Alberta Women's Institutes for the Alberta Maternity Fund, and were distributed throughout the Province to needy families.

Miss Frances Ferguson, and myself, as Acting Director had the privilege of attending the Canadian Nurses' Convention held in Vancouver in June.

Reports have come in of a very successful voluntary Well Baby Clinic being held at Jasper by the Edith Cavell Chapter of the A.A.R.N., with the assistance of information sent from this office.

The Public Health Nursing Division would like to extend their thanks to all those who have assisted them in their work. To the Minister of Health and the Deputy Minister of Health, who have thoughtfully dealt with problems. To the Department of Municipal Affairs, who have done such a great deal in drawing up the new

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contracts under the Nursing Service Act. To the Department of Public Welfare, who have solved many problems brought to their attention, to all other Divisions of the Department, and to other Provincial and National organizations. To the medical profession, hospitals and teachers who have assisted the nursing staff with their work. To the nursing staff, who have served so faithfully and still have an appreciation to help our citizens in the newer Alberta frontiers.

TABLE 1

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

Treatment Consultations	23,657
Miscellaneous P.H. Consultations	6.823
Antepartum Consultations	1.519
Postpartum Consultations	352
Infant and Pre-school Consultations	4.241
Treatment Home Visits	5.412
Miscellaneous P.H. Home Visits	1.157
Communicable Disease Home Visits	651
Maternal Welfare Home Visits	
Infant and Pre-school P.H. Home Visits	504
Deliverage	. 918
Deliverles	. 76
Abortions	. 53
Cases sent to Hospital or Doctor	
Deaths (under 1 year)	. 6
Deaths (over 1 year)	. 37
Doses of different Sera given	10.395
Cases Communicable Disease Reported	1,220
Pieces P.H. Literature Distributed	4.381
Fees Collected	
	1
IMMUNIZATION WORK DONE AT OFFICE OR CLINIC:	
Measles Prophylactic	30
Diphtheria Toxoid	3.398
Scarlet Fever Toxin	0,008
Construct rever to an	1,351
Smallpox Vaccine	1,322

Smallpox Vaccine Whooping Cough Vaccine Typhoid Fever Vaccine Mantoux and T.B. Patch Tests	1,351 1,322 2,934 1,339 21
Total	10.395
Miscellaneous: Old Age Pensioners Treated, free Lectures Demonstration to Teen Agers Home Nursing Classes	200 8 1 6

DEPARTMENT OF PUBLIC HEALTH

TABLE 2

TABI	JE Z		
REPORT OF CHILD	WELFARE CL	INICS	
Baby Clinic:	Calgary	Medicine Hat (Redcliff)	Vegreville
No. in Attendance	8.888	3,193	392
New Cases Admitted	1,696	457	77
Out of Town Cases	146	210	
Referred to Family Doctor	40	113	5
Discharged	48	4	30
Deaths	7	2	
No. of Cases on Roll	2,680	777	133
Transferred to Pre-school Clinics	1.434	1.789	21
Breast Fed	1.417	539	117
Bottle Fed	3,861	1.343	194
Other Feedings	3,587	1,267	94
Pre-School Clinic:			
No. in Attendance	3.410	1.032	14
New Cases Admitted	668	65	
Out of Town Cases	15	72	
Discharged	2.654	61	43
Referred to Family Doctor	17	0.	
Deaths	4	49	
No. of Names on Roll	7.480	2,232	14
Visits:	1,100		
Baby Visits	4,619	170	
Pre-school Visits	2,975	84	
Pre-natal Visits	2.015	5	
Special Visits	96	28	
Total No. Visits	7.692	437	61
Visits made to Private Hospitals	18		
Insulin Investigations	10		1010
Other Visits	99		
No. Letters written on work	9,886	582	25
Attendance:	5,000	002	20
Total No. Clinics Held	259	171	477
Total No. in Attendance	12.298	171 4.225	47
Total No. seen by Doctor	12,298	4,220	406
	51	115	Э
Immunization:			
Diphtheria Samlat Fauer		101	513
Scarlet Fever		673	
Whooping Cough		45	505
Smallpox Diphtheria & Wheeping Cough Combined		575	180
Diphtheria & Whooping Cough Combined		2,128	****
Rocky Mountain Fever		21	

TABLE 3

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

30 Districts	1950
1. Visits to Schools	348
2. Students Inspected	6.489
3. No. with Suspected Defects	3,894
(a) Defective Vision ;	892
(b) Defective Hearing	104
(c) Diseased Tonsils	1.646
(d) Unsound Teeth	2,583
(e) Eye Diseases	63
(f) Ear Diseases	43
(g) Enlarged Cervical Glands	758
(h) Enlarged Thyroid Glands	261
(1) Mainutrition	636
(j) Nervous Disorders	146
(K) Faulty Posture	394
(1) Orthopaedic Defects	1
(m) Kingworm	16
(n) Impetigo	36
(0) Scaples	27
(p) Pediculosis	99
(g) Other Skin Conditions	218
(r) Exclusions, Suspect Comm. Disease	99
4. Correction of Defects	499
5. Classroom Talks	141
6. Sanitary inspection of Schools	304
7. Consultations with Teachers	306
8. Consultations with Parents	284
9. School Follow-up Home Visits	166
Total number of doses of the following:	
Diphtheria Toxoid	1,752
Scarlet Fever Toxin	1,633
Smanpox vaccine	1.583
whooping Cough vaccine	1,048
Typhoid Fever Vaccine Anti-Measles Prophactic	12
Anti-Measles Prophactic Mantoux Tests and Patch Tests	3
And to the difference of the second s	155

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

The syphilis rate amongst our white population in this Province has recently been extremely low, varying from 0.7 per 1,000 in 1945 to a present rate of 0.3 per 1,000. Two spot surveys, one in 1921 and one in 1935, had disclosed no evidence of syphilis in the population of Northern Alberta in excess of that of the Province as a whole. However, during the early days of World War II and with the construction of the Alaska Highway, it was soon noticed that the Indian and Metis, or half-breed, population in northern Alberta was serving as a nidus of infection, not only to the sparse civilian population of the area, but also to the American and Canadian Armed Forces stationed or transient along this route. It was further noted that the greater problem existed along the first 400 miles of the route -this is to say, between Edmonton and Peace River. One must realize that this part of the Highway runs through at least 300 miles of near wilderness, broken only here and there by small villages, the inhabitants of which are in large part Indian or "Breed" (Metis). It is in no way a fixed population. These people are true nomads and will disappear for months at a time into the forest and lake country surrounding these hamlets. In fact, they may never reapper in the same village, but wander hundreds of miles to some other "camp", taking with them their entire families and all their possessions.

Needless to say, medical and nursing facilities in this territory were meager. In the greatest danger zone there existed a 200 mile stretch entirely without medical aid. However, in 1944 with the support of both provincial and federal health authorities mass blood testing of the inhabitants of an area covering 40,000 square miles was begun. The task required fourteen months for completion, as winter travel was practically impossible, and even during the summer months many encampments could be reached only by saddle horse or wagon travel. By the summer of 1946 all preliminary work was completed, and from a total of 1,300 blood tests taken, 145 patients (111 per 1,000) were found to have positive serologic tests (Kolmer and Kahn). It was of course impossible to determine the number of biologically false positive serologic tests in this group, and it was decided that all 145 patients should receive treatment.

In September of 1946, all 145 patients were brought together in a "military type" camp situated the northwestern tip of Lesser Slave Lake, and on second testing all but six were still serologically positive. Their attendance was largely voluntary, and had been assured by the simple expediency of offering free food and camping wherewithal. As the Indian will never travel without his family, the camp personnel soon found facilities taxed to the breaking point. Instead of the original number intended, the camp soon contained in the neighbourhood of 350 men, women and children. The typical Indian family listed not only parents and children, but in many cases grandparents, uncles and so on, who "came along." typically Indian. The patient population consisted of 89 females and 56 males ranging in age from one year to 70 years, with the average age of the group set at 33.5 years. Cerebrospinal fluid examination was done on all but 14 patients, examination being withheld in these cases either due to advanced age or to pregnancy. Thus 137 patients revealed a positive serologic test only, whilst eight patients revealed both positive blood and cerebrospinal fluid. Of these eight, one showed clinical and laboratory evidence of paresis, the remaining seven were asymptomatic and revealed grade two to grade three cerebrospinal fluid findings. Two cases of leuticaortitis with aortic insufficiency were discovered. A total of 18 patients had congenital syphilis. The remaining 117 patients were in an early or latent stage of the disease.

During the blood survey many of the group were found to be in the primary and secondary stages of the disease, and whenever possible these patients were started on treatment (Mapharsen and bismuth) immediately. Few of the group, however, had received more than ten arsenical and ten bismuth injections. Thus a total of 75 of the 145 patients had received some previous treatment.

Two treatment schedules were instituted. Firstly, all patients were given a total of 240,000 units of penicillin-G daily. The dosage was divided into four daylight doses of 30,000 units of aqueous penicillin given at three-hour intervals. A nightly dose of 120,000 units was administered in peanut oil suspension containing 2% beeswax. The total penicillin dosage amounted to 2.4 million units given in a ten-day period.

Secondly, 75 of the patients received, in addition to the penicillin, two injections per week of mapharsen, dosage 0.04 gms., and bismuth subsalicylate 1 c.c. intramuscularly every five days. This group received in this manner a total of five arsenical and three bismuth injections. The members of this group comprised those patients who had received little or no treatment prior to their attendance at camp. No reactions of sufficient severity to warrant discontinuing treatment were encountered.

The follow-up on this treated group has been extremely difficult. In the four years since treatment, we have been able to successfully follow only 99 of the original 145 patients.

A tabulation of results is as follows.

EARLY AND LATENT GROUP: Total 117-64 serologic tests negative and clinically well; 35 no follow-up; 12 serologic tests positive; 6 deceased.

CENTRAL NERVOUS SYSTEM SYPHILIS: Total 8-3 arrested; 4 no follow-up; 1 failure.

The one paretic of the group is included in the "arrested column. However, he has received an additional nine million units of penicillin to achieve this result. The one failure has gone on to develop a paretic formula, although he remains asymptomatic.

CONGENITAL: Total 18-11 arrested; 7 no follow-up; 1 failure.

In the "arrested" group, six patients have attained a completely negative serologic test. The other five have shown marked diminution in titre until at the present time they show from one to two dilutions by the Kahn Quantitative method.

CARDIOVASCULAR SYPHILIS: Total 2-2 no follow-up.

Summary.

Of the 99 patients who have been followed up, 84% are serologically negative and 14% have remained serologically positive. It is interesting to note the rapidity and the extent to which this population became infected with syphilis—111 per 1,000. Only 5.5% of the patients showed any evidence of central nervous system involvement.

During 1950 the Mobile Clinic undertook the following projects:

In February, 1950, five days were spent in the area around Grouard and White Fish Lake doing a serological survey. One hundred and ninety-three samples of blood were taken, and as a result five new patients were put on treatment for syphilis. In March a week was spent tracing and blood testing people who were treated at the Grouard treatment centre in 1946. During this trip, 73 blood tests were taken, and as a result three old patients were re-treated.

From the 21st of May to 30th of June a blood testing team accompanied the Indian Treaty party. 'Tests were taken at 'Treaty meetings at the following points: Slave Lake, Kinuso, Joussard, Driftpile, Sucker Creek, Sturgeon Lake, Grouard, Wabasca, Chip Lake, Lubican Lake, Desmarais, Atikameg, Calling Lake, Fort Vermilion, Boyer River Reserve, Little Red River, Upper Hay River, Hay Lake, and Lower Hay River, N.W.T. Total number of tests taken on this trip, 1,897. Nineteen new cases of syphilis were so discovered, and 23 patients are being further investigated. These people are all 'Treaty Indians, and further investigations and treatment are being carried out by the Indian Health Services.

This trip was undertaken as a joint project of this Division and the Indian Health Services. Part of the subsistence was provided by the Indian Health Services for members of the blood testing team as well as a portion of the car expenses and all the expense of the air travel. This Division provided a doctor and a nurse, their equipment and a vehicle.

From July, 1950, to October, 1950, the Mobile Unit undertook to carry out a further serological and follow-up survey in Lac La Biche and surrounding districts. The districts included in this survey were as follows: Caslan, Plamondon, Big Bay, Lac La Biche Mission, Beaver Lake, Owl River, Philomena, Mile 199, Conklin and Imperial Mills. A total of 410 blood samples were obtained, and the results showed 62 positive tests, 14 new cases; remaining positive tests were on cases treated previously.

During this time a clinic was established in Lac La Biche, at which point 12 new cases were treated and six old cases received further treatment. There were seven cases of gonorrhoea treated as well. The two remaining cases are still under investigation.

On three occasions, one of the medical staff of this Division visited the clinic, at which time he performed 36 spinal punctures. The results of these all proved negative. The majority of cases treated previously in 1949 and by the local doctors were located, and follow-up tests done.

ALLEGED SOURCES OF VENEREAL INFECTION OR CONTACTS For the Period January 1st, 1950-December 31st, 1950

Location of Source of Infection or Contact	Number of Sources of Infection or Contacts Reported	Number of Sources of Infection or Contacts Located	Percentage of Sources of Infection or Contacts Located
Edmonton Calgary Lethbridge Medicine Hat Slave Lake Area Remainder of Province	471 286 42 7 133 322	$\begin{array}{r} 412 \\ 251 \\ 33 \\ 6 \\ 128 \\ 292 \end{array}$	87% 87% 79% 86% 96% 91%
Alberta Totals	1261	1122	88%
Sources of Infection or Contacts re- ported outside of the Province of Alberta	107	58	54%
	1368	1180	86%
Unit Forwarding Information	Number of Sources of Infection or Contacts Reported	Number of Sources of Infection or Contacts Located	Percentage Sources of Infection or Contacts Located
Armed Forces Private Doctors and Provincial Clinics Other Provinces	121 1158 89	101 1022 57	83% 88% 64%
Totals	1368	1180	86%
Sources of Infection in Alberta who could cerned			
Sources of Infection outside of Alberta w ties concerned	ho could not	be located by	authori-
DETAILS OF INFORMATION ON	THE FACILIT	ATION PROC	ESS
How Informant Met Source of Infection or Contact	Where Informa of Infection	ant Met Source or Contact	
Pick-ups56942%Introduction766%Friend13410%Marital Partner or Common- law wife17512%House of Prostitution101%Appointment282%No Data Available37627%	Boarding Hous	se or Rooming Beer Parlor doors vate House	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

DETAILS OF INFORMATION OBTAINED ON THE CONTACT INVESTIGATION

Occupation of Source of

Marital Partner Recreation or Private Party Train, Railway Station, Bus Depot House of Prostitution Taxi or Taxi Office Service Station or Garage At Work No Data Available

6

1

1

28 %

0.43% %%

0.73%

9%

82

6

10

9

1

11

378

Place of Exposure			Infection or Contact			
Rooming House or Apt.	149	11 %	Waitress	150	11 6 5	%%%%
Private House	166	$ \begin{array}{ccc} 12 & \% \\ 7 & \% \end{array} $	Housewife	85	6	%
Outdoors	97	7 %	Prostitute or Street Walker	70	5	96
Car or Truck	133	10 %	Domestic, Hotel or Hospital			
Train, Boat, Auto-Camp	17	1.24%	Maid or Porter	111	8	%
House of Prostitution	10	1 %	Clerk, Salesman, Steno,			10
Taxi or Taxi Office	4	0.29%	Teacher or Cashier	66	5	0%
Hotel	202	15 %	Factory or Plant Worker.	11	1	10 % % %
Room, House or Shack	207	14.3 %	Service Personnel	5	0.4	0%
No Data Available	383	28 %	Unemployed	57	4.1	ela
		10	Laundress or Dry Cleaners	16		er.
			Truck, Taxi or Bus Driver	10	1	%
			Farmer, Trapper or Fisher-	10	-	70
			man	30	2	ot
			Student or Nurse	3	02	%
			Dressmaker, Hairdresser or		0.4	70
			Barber	8	1	er.
			Laborer or Transient	61	-	%%
			Business man, Conductor	01		70
			or Milkman	3	0.9	er.
			Tradesman, Electrician,	0	0.2	%
				0	0.4	9.01
			Plumber, etc.	6		3%
			Trainman or Railwayman.	one		3%
			No Data Available	675	49	%

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

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

	Under 1 yr.						15- yr		20 yr & ov		Age sta	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total
onorrhoea (all forms)							14	21	398	61			494
yphilis (Congenital)		1				1							
cquired-Primary									7				
cquired-Secondary									2	3			
cquired-Latent									4	2			
cquired—Tertiary													
(Cardiovascular) couired—Tertiary	++++	****	++++-	****			++++		++++	****	****		
(Neurosyphilis)													
cquired—Tertiary (other)			4.1.1.							1			
ype Undetermined										2			
			-						-				-
Totals		1				1	14	21	411	69			51
				-		-	-		-				

Number of cases of syphilis-Male 13, female 10 Number of cases of gonorrhoea-Male 412, female 82

Number and results of Wassermann tests: 7,280, of which 939 were positive.

Number and results of Cerebrospinal Fluid tests: 109, of which 18 were positive.

Number and results of Bacteriological tests for gonococci: 3,871, of which 562 were positive.

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

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

		Under 1 yr.		1-4 yrs.		14 s.	15-19 yrs.		20 y & o			not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total
onorrhoea (all forms)			(a			1	5	45	181	123			355
vphilis (Congenital)			1										1
cquired—Primary									3		4+++		3
cquired-Secondary			****						2	4			6
ouired-Latent								1	2	2	in and		5
cquired—Tertiary													
(Cardiovascular)													
cquired—Tertiary													
(Neurosyphilis)													
quired—Tertiary (other)													
vpe Undetermined													
pe ondetermined			-				-						
Totals			1			1	5	46	188	129			370
	1117		-			1.1.1.1.1			10000				

355 Number of cases of gonorrhoea-Male 186, female 169 Number and results of Kahn and Wassermann tests: 3,826, of which 295 were positive.

Number and results of Cerebrospinal Fluid tests: 58, of which 7 were positive.

Number and results of Bacteriological tests for gonococci: 3,538, of which 504 were positive.

PROVINCIAL CLINIC, MEDICINE HAT-Medicine Hat General Hospital, Medicine Hat

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

	Under 1 yr.		1-4 yrs.		5-14 yrs.		15-19 yrs.		20 y		Age	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)								++++	2				2
Syphilis (Congenital)		****		****				****			****		
Acquired—Primary		****							1				1
Acquired-Secondary												-	
Acquired-Latent				****				****				in a	
Acquired—Tertiary													
(Cardiovascular)													
Acquired—Tertiary													
(Neurosyphilis)									1				1
Acquired-Tertiary (other)													
Type Undetermined)									****			****	
- , , , , , , , , , , , , , , , , , , ,			-		-								
Totals									4				4
			-			-					-	-	
			fem										-

Number of cases of syphilis-Male 2, female 0 Number of cases of gonorrhoea-Male 2, female 0 2 Number and results of Kahn and Wassermann tests: 65, of which 9 were positive. Number and results of Cerebrospinal Fluid tests: 5, of which 1 was positive. Number and results of Bacteriological tests for gonococci: 12, of which 2 were positive.

PROVINCIAL GAOL-Lethbridge, Alberta

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

	Under 1 yr.		1 yr. yrs.		5- yr		15-19 yrs.		20 y & or			not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)									3				3
Syphilis (congenital)					1111	****						and a	
Acquired—Primary				****				****	1				1
Acquired-Secondary				****									
Acquired—Latent			****						2		1		3
(Cardiovascular)									****	••••	••••		
(Neurosyphilis)							****						
cquired—Tertiary (other)													
whe IIndetermined		****	and a		****					****			
spe ondetermined						ens.	****	****			****		
Totals		-	100	-	_	-	-	-			-		
a orang		****							6	1000	1	****	7
	_				-	-	-	-			-		
Number of cases of syphilis													4
Number of cases of gonorrh	oea-	-Male	8.9										3

Number of prisoners admitted, 1,491.

Number and results of Kahn and Wassermann tests: 1,365, of which 67 were positive.

PROVINCIAL CLINIC, LETHBRIDGE-315 10th Street South

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

	Under 1 yr.		1-4 yrs.		5-14 yrs.		15-19 yrs.		20 yr & ov		Age sta	not	
	M.	F.	Μ.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)								1	7	3		1	12
Syphilis (Congenital)		****		****									****
Acquired—Primary					****						****		
Acquired—Secondary		****	****			****					****		
Acquired—Latent Acquired—Tertiary	*1**			****		****			****	1		••••	1
(Cardiovascular) Acquired—Tertiary					••••			••••	****			••••	
(Neurosyphilis)						in							
Acquired—Tertiary (other)									****				
Type Undetermined						Ser.				1			1
	-	-	-	-	-	-		-		-		-	
Totals					****			1	7	5		1	14
		-	-				-	-	-	-			22

Number of cases of syphilis-Male 0, female 2 2 Number of cases of gonorrhoea-Male 7, female 5 . 12 Number and results of Kahn and Wassermann tests: 140, of which 45 were positive. Number and results of Cerebrospinal Fluid tests: 3, of which none were positive. Number and results of Bacteriological tests for gonococci: 151 of which 30 were positive.

PROVINCIAL GAOL-Fort Saskatchewan, Alberta

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

	Under 1 yr.						15- yr		20 yı & ov		Age	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)			****	****				12	11	47			70
Syphilis (congenital)	*****												
Acquired—Primary													
Acquired—Secondary	****		****	****	4114	****					in		
Acquired—Tertiary	****	****		****				1	2	1			4
(Cardiovascular)		****	****	****		****	****	****			••••		
(Neurosyphilis)			-										
cquired-Tertiary (other)		****											
ype Undetermined			****		****								
m-4-1-	-					-						-	
Totals						Sec.		13	13	48			74
								-		100	_	_	

Number of cases of gonorrhoea-Male 11, female 59

70

Number and results of Kahn and Wassermann tests: 2,016, of which 193 were positive. Number and results of Cerebrospinal Fluid tests: 15, of which 1 was positive.

Number and results of Bacteriological tests for gonococci: 3,687, of which 125 were positive.

McLENNAN CLINIC-McLennan, Alberta

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

	Under 1 yr.				5-1 yr:		15- yr	_	20 yı & ov		Age	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total
Gonorrhoea (all forms)							3	2	9	2			16
Syphilis (congenital)		****	****									****	
Acquired—Primary					****								
Acquired—Secondary				· ann									
Acquired—Latent								****		1			1
Acquired—Tertiary (Cardiovascular) Acquired—Tertiary											••••		••••
(Neurosyphilis)				****		1		****			****	****	****
Acquired—Tertiary (other)					****								
Type Undetermined													****
		-	-	-	-	-	-					-	
Totals		****					3	2	9	3		****	17
	-	-	-	-	-				-	_	-		

Number of cases of gonorrhoea—Male 12, female 4

Number and results of Kahn and Wassermann tests: 291, of which 7 were positive.

Number and results of Cerebrospinal Fluid tests: None.

Number and results of Bacteriological tests for gonococci: 80, of which 42 were positive.

PRIVATE PHYSICIANS REPORTING CASES

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

	Under 1 yr.		1- yr	-	5-1 yr		15- yr		20 y			not	
		F.	M.			F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)	1			1		4	20	20	202	56	25	21	350
Syphilis (Congenital)			1	1	1	1					1	1	6
Acquired-Primary							1		10	2	2	1	16
Acquired-Secondary								3	3	1		1	8
Acquired-Latent				****				1	14	22	1	1	39
Acquired—Tertiary													
(Cardiovascular)									4		1		5
Acquired—Tertiary													
(Neurosyphilis)									16	4	4	1	25
Acquired—Tertiary (other)								1	4	2	1		8
Type Undetermined									1			1	2
		-		-	-		-					-	
Totals	1		1	2	1	5	21	25	254	87	35	27	459
				-	-		-	-				-	
Number of cases of syphili	s—N	Iale	65, 1	ema	le 44								109
Number of cases of gonorrh	oea-	-Mal	e 24	R. fe	male	102							350
Number of doctors in the Pr				1.									257
Number of doses of Arsenia	cals	distr	ibute	ed to	o pri	vate	phy	sicia	ans				1767
Number of doses of Bismuth	h dis	tribu	ited	to p	rivat	e ph	vsici	ians					6320
Number of units of Penici							-						

Number of units of Penicillin distributed to private physicians: 612 Vials (3.000,000 units) Procaine G in Oil; 1223 Vials (300,000 units) Procaine G in Oil; 23 Vials (200,000 units) Crystalline Penicillin.

NEW CASES OF SYPHILIS AND GONORRHOEA REPORTED IN ALBERTA, 1950

	Under 1 yr.		1-4 yrs.		5-14 yrs.		15-19 yrs.		20 y & o			not ted	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Chancroid									1				1
Gonorrhoea (all forms)	1			1		5	51	101	885	292	30	22	1388
Syphilis (Congenital)		1	2	1	1	2				****	1	1	9
Acquired-Primary							1		22	2	2	1	28
Acquired-Secondary								3	7	8		1	19
Acquired-Latent								3	24	29	2	2	60
Acquired—Tertiary													
(Cardiovascular)									4		1		5
Acquired—Tertiary													
(Neurosyphilis)					ani.	ine			17	4	4	1	26
Acquired—Tertiary (other)								1	4	4	1		10
Type Undetermined									1	3		1	5
				-	-				-				-
Totals	1	1	2	2	1	7	52	108	965	342	41	29	1551
		-	-	-	-		-				-		
Total number of cases of st	unhil	ic_7	alel	93	fema	10 60							16

TOTAL	numper	OL	Cases	OT	syphinis-male 55, remaie 69	102
Total	number	of	cases	of	gonorrhoea—Male 967, female 421	1388
Total	number	of	cases	of	chancroid-Male 1	1

CASES REPORTED BY THE VARIOUS CLINICS OF THE DIVISION OF SOCIAL HYGIENE IN 1950

Sex	Syphilis	Gonorrhoea	Totals
Males	30	632	662
Females	22	319	341
Totals	52	951	1003
CASES REPORTED BY DOCTORS	AND MILITAR	Y AUTHORITIES	
		ans Armed Forces	Totals
Syphilis	109	1	110
Gonorrhoea Chancroid	350	87	437
Chancroid		1	1
Totals	459	89	548
tal number of cases of syphilis reported in	Alborto		100
otal number of cases of gonorrhoea reported	i in Alberta		162 1388
otal number of cases of chancroid reported	in Alberta		1
			1551
			1001
otal number of cases of syphilis reported i sonnel	n Alberta exclu	sive of armed per-	
otal number of new cases of gonorrhoea re	ported in Alb	erta evolusiva of	109
armed personnel			1301
otal number of new cases of chancroid repor personnel	ted in Alberta	exclusive of armed	
			1410
			1410

Report of the Provincial Laboratory

R. D. STUART, M.D., Director.

The year 1950 saw a number of important changes: the retirement of Dr. Shaw; the opening of the Southern Branch of the Provincial Laboratory in Calgary; the transference of this Laboratory to its new quarters.

Retiring Director.

Dr. R. M. Shaw joined the staff of the Provincial Laboratory in September, 1920, and succeeded Dr. A. C. Rankin as Director in September, 1945. Throughout his long association with the Laboratory he devoted his energies to it in an entirely selfless manner, and every credit should be given to his efforts, both as Director and in association with Dr. Rankin, for the rapid development of the Laboratory services in this Province. He possessed the rare and fortunate quality of inspiring respect and devotion in his staff. Indeed, he could scarcely otherwise have maintained the efficiency of the Laboratory with the ever-increasing handicap of lack of space and facilities under which it laboured for so many years.

Southern Branch of the Provincial Laboratory in Calgary.

The opening of this Branch Laboratory on January 3rd, 1950, marked the first significant development in the extension of laboratory facilities to the Province. Its location will lessen the difficulty in the transport of material from the southern part of the Province, and will obviate the serious delay in the receipt of reports due to the distance previously involved. The Laboratory has been fortunate in securing the services of Dr. Shute, an exceptionally welltrained and highly competent clinical pathologist, to direct its varied activities. As will be seen from his accompanying report, the services of the Laboratory are in ever-increasing demand by the practitioners of the area. This is particularly evident in the continued monthly increase in the number of tissue specimens sent for pathological histology examination and in the number of bloods for the diagnosis of syphilis. A total of 49,860 examinations were carried out during the year.

The New Provincial Laboratory.

The new Provincial Laboratory was occupied in December of this year, after a considerable and unfortunate delay due to unforeseen architectural difficulties. That the transference of material, equipment, and staff at this difficult time of year was achieved without any interruption in services, must be credited to the high sense of duty and to the exceptional efforts of the technical staff, who personally carried over all the current specimens and materials and continued working on them under the most unusual conditions. The late period of the year and the climatic conditions made it impossible to transfer the animals, used for diagnostic and experimental work, to their new quarters at the same time. This will entail considerable difficulty for some time, but it is hoped that the transference will be completed as early in 1951 as weather permits. The new institute is substantially built of brick and concrete, and its elaborate air-conditioning system is expected to provide reasonable working conditions. As yet it is too early to comment on the functional suitability of the laboratories, but the relief from the appalling congestion of the old quarters is commented on by everyone concerned. One obvious matter of immediate urgency, however, is the construction of a hard surface roadway by which the building may be approached.

Laboratory Services.

Bacteriological.—The number of examinations completed during the year amounted to 142,268, an overall decrease of 31,238 from the preceding year. It is very evident that this decrease is due mainly to the transference of examinations from the southern part of the Province to the new Laboratory in Calgary. For instance in syphilis serology alone the decrease amounted to 27,560 examinations, whereas the number of such examinations recorded from the Calgary Laboratory amounted to 29,903. Consequently, it is more fitting to point out that the total of Laboratory examinations carried out in the Province showed an increase of almost 19,000.

In addition to maintaining the standard and gradually extending the scope of what may be termed public health bacteriology, it is hoped that in its new quarters the Laboratory will be able to provide better service for individual diagnostic material derived mainly from hospitals. Significant in this type of examination is the increased number (1,075) of tests carried out on the antibiotic sensitivity of organisms. Indeed, it may be true that in relation to human disease, the function of the bacteriological laboratory may be more and more the determination of a suitable therapeutic agent than the absolute identification of the species of infecting micro-organism.

During the year the number of diagnosed cases of enteric fever and of Salmonella infections remained about average. One small epidemic of para-typhoid fever was encountered in Fort Smith, N.W.T. The infecting organism was S. paratyphi B, and thirteen cases were confirmed by laboratory investigation. The outbreak, according to our records, involved three families and a few isolated cases, and originated from river water contaminated by sewage from a building a short distance upstream.

The investigation of gonococcal infections by cultural methods, for which 1,788 examinations were recorded in 1949, was not pursued during 1950. This is ascribable partly to the inherent difficulties in the procedure, especially in the satisfactory transport of material, and partly to the loss of a considerable number of experienced workers who could not be replaced immediately. This activity may be revived in 1951, and an exploration of the problems concerned is already under way.

Pathological.—Gross and histological examinations of surgical specimens sent in from rural hospitals continued to form the major portion of the work done in the Department of Pathology. It is interesting to note that the number of specimens examined continues to increase year by year, in spite of the fact that the Southern Branch is now carrying on tissue examinations for districts south of Red Deer. Routine examination of tissue removed in surgical operations is well justified by the number of unsuspected and sometimes very early cancers which are disclosed. Smear examination as a procedure for the diagnosis of cancer is growing in popularity, and specimens of bronchial secretions, cervical secretions, gastric washings, etc., were forwarded for examination in increasing numbers. This form of diagnosis may be regarded as an adjunct to other diagnostic methods, but will not supplant surgical biopsy as the method of choice.

Examinations of autopsy tissues forwarded by rural physicians are also increasing each year, and it is gratifying indeed to see the numbers of rural practitioners who find time to carry out their own autopsies in the midst of a busy practice.

Medico-legal examinations, Ascheim Zondek tests, and haematological examinations continued at about the same level as in previous years.

Mycological.—The increasing importance of this section of the laboratory's activities deserves separate mention. The number of specimens examined, 356, may not appear significant compared with, say, the thousands of serological tests carried out in bacteriology, but each test indicates an investigation prolonged often over months and demands a very high degree of specialized knowledge and experience. Thus an increase of sixteen per cent over last year in the examinations carried out reveals an important development in the demand for this type of investigation. So far the diagnostic activities of this department have been supported largely through the courtesy of Dr. Keeping, working under a Federal Research Grant, but it seems evident that the increasing realization of the medical importance of fungal infections will soon demand a more formal organization to deal with it.

Staff and Equipment.

In July, 1950, the staff of the Department of Pathology was augmented by the addition of Dr. Douglas Waugh, M.D., Ph.D. Dr. Waugh is a graduate of McGill University, and his fine training in diagnostic histology and morbid anatomy has made him a very valuable addition also to the staff of the Provincial Laboratory.

No other significant appointments were made during the year, but it must be pointed out that the separation of the new Provincial Laboratory from the Departments of Bacteriology and Pathology entails a certain duplication of activities, and consequently a number of technical workers previously carrying out work in both laboratories will have to be transferred wholly to the department chiefly requiring their services.

Only equipment routinely required was purchased during the year, but the installation of new sterilizing equipment in the present building has relieved the previous dangerous situation in which partially derelict sterilizers were carrying loads far above their capacity. A new tissue processing machine was bought for the Pathology Department. Such machines are expensive, but its essentiality for the increasing load of histological work is demonstrated by its constant daily use.

The separation of the new building from the Medical School must also be remembered in connection with future equipment required. Workers cannot carry heavy and expensive equipment backward and forward, and a certain duplication of such equipment will be inevitable.

Note.

The appended tables show the number and character of the examinations carried out. An analysis of certain aspects of the work has been prepared along the customary lines.

TT A	DT	122	
TA	ы	10	1

	Total, 1949	Total, 1950	Increase	
putum Examinations	973	836		137
Diphtheria and Haemolytic Streptococci	4.704	5,492	788	
yphoid Fever (Agglutination test)	2,118	1,896		222
filk	1,125	1,386	261	
Vater	5,190	4,127		1,063
uinea Pig Inoculations	1.716	2,047	331	
liscellaneous Bacteriology	7.057	7,465	408	
llood Cultures	780	680		100
Interobacteria and Intestinal Parasites	1,079	2,928	1,849	
Irinalysis	16	25	9	
Aedico-Legal Examinations (Blood, seminal,				
etc.)	7	7		
Cerebro-Spinal Fluids for the Wassermann				
Test	3,043	2,414		629
Bloods for Quantitative Kahn test	2,845	1,639		1,206
Bloods for the Wassermann Test	11,286	6.819		4,467
loods for the Standard Kahn Test	10,903	6,748	hin	4.155
lloods for the Presumptive Kahn Test	85.230	68.127		17.103
mears for Gonococcus	12,701	8,763		3,938
ultures for Gonococcus	1,788	1		1,787
an Den Bergh Determinations	106			106
athological Histological Material	11.340	10.363		977
lood Smear Examinations	159	88		71
ost-mortem Examinations (Edmonton)	321	385	64	
ost-mortem reports (outside points)	137	104		33
scheim-Zondek Tests	737	564		173
Comparative Series	13	2		11
luids for Cancer Cells	177	294	117	
ancer Cytology	36	66	30	
one Marrows	40	51	11	
erebro-Spinal Fluid Examinations (Colloidal		and the second second		
Gold, Pandy)	3,426	3.331		95
acteriological Examinations (P.M.)	67	22		45
abortus Examinations (Agglutination test)	2.118	1.860		258
. tularensis (Agglutination test)	2.118	1.860		258
. melitensis (Agglutination Test)		2	2	
antibiotic sensitivities, etc.		1.374	1.374	
Iycological examinations		356	356	
attle Blood (Bang's Disease Agglutination				
test)	150	146	****	4
		-	-	-

*Not recorded separately.

TABLE 2

DETAIL OF EXAMINATIONS OF MILK PERFORMED THROUGHOUT THE YEAR 1950

	1949	1950
Number of milks examined bacteriologically	1.125	1.314
Number of milks examined for butterfat	155	178
Number of milks examined for B. coli	179	376
Number of milks tested by the Phosphatase Test	77	109
Number of ice creams examined	40	22
Number of rinse waters examined bacteriologically	20	50

TABLE 3

DETAILS OF THE BACTERIOLOGICAL AND CHEMICAL EXAMINATIONS OF WATER PERFORMED THROUGHOUT THE YEAR 1950

1070

	1949	1950
Number of samples of water examined bacteriologically and found fit for human consumption	2,511	1,825
Number of samples of water examined bacteriologically and found unfit for human consumption	853	609
Number of samples of water examined bacteriologically and chemi- cally and found fit for human consumption	386	361
Number of samples of water examined bacteriologically and chemi- cally and found unfit for human consumption	294	228
Number of samples of water examined chemically and found fit for human consumption	* 867	846
Number of samples of water examined chemically and found unfit for human consumption	261	246
Number of samples of ice examined bacteriologically and found		
fit for human consumption Number of samples of ice examined bacteriologically and found	18	12
unfit for human consumption		

TABLE 4

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

-- -- --

	examined by mear, animal inoculation and culture	Positive	% Positive	Negative	% Negative
Sputum and Gastric Washings.		57	9.03	574	90.9
Urine		49	8.89	502	91.1
Pleural Fluids	251	15	5.97	236	94.02
C.S.F.	100	17	12.5	119	87.5
Joint Fluids	95	13	13.6	82	86.31
Abdominal Fluids		1	5.55	17	94.44
*Miscellaneous Specimens		29	22.1	102	77.86
Total	1831	181		1632	
Sputums examined by smear only	ly 836	71	8.49	763	91.26
Grand Total	2649	252	and the second second	2395	

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

TABLE 5

TEST MADE IN RESPECT TO THE USE OF ANTIBIOTICS

DeterminationNo. DonePenicillin sensitivity of a variety of organisms isolated from cases of infection:
Qualitative plate method117
1064Qualitative plate method1064
2Penicillin blood level2Streptomycin sensitivity of Mycobacterium tuberculosis isolated from cases42
45Chloromycetin sensitivities21
1
1Chloromycetin levels1
8
70
Bacitracin sensitivities4

TABLE 6

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

		. Destalle				
	Salmonella	of Results S. para-	Other			
Source	Typhi	typhi B.	Salmonella	Shigella	Negative	Tot
tool cultures		11	16	29	645	72
rine cultures					70	7
lood cultures		9				1
uodenal drainage			1		3	
steomyelitis						
	-	_				
otal isolations		20	17	29	718	81
umber of cases		15	15	23		5
lumber of carriers	3	****	44.44			
kentucky bredeney Cultures received fro	1		otal cases			15
Cultures received in	Provincial	Veterinari	an			
ultures from Poultry:			her Animals			
S. oranienburg			erae-suis			
S. gallinarum		S. typi	typhi B.	**************		
S. thompson		S senf	tenberg			
S. typhi-murium S. barielly			npson			
S. kentucky		Di moi	in poore			
S. newington	4		Total			
S. bredeney						

78

Total

Shigella Isolations

Sh. sonnei Sh. paradystnteriae Flexner W type Sh. paradysenteriae Z type Sh. paradysenteriae Boyd 88 type	
Total	23

TABLE 7

INTESTINAL PARASITES

Number of specimens examine Showing Cysts and Protozoa: Entamoeba coli Entamoeba histolytica Endolimax nana Chilomastix mesnili Giardia lamblia	ed an 16 2 6 2 3 29	d found negative for parasites—160 Worms or portions of worms: Taenia saginata Ascaris lumbricoides Total	4 3 -7 206
Showing Ova: Enterobius vermicularis Hookworm Trichiuris Taenia saginata	5 2 2 1		

TABLE 8

BLOOD AND CEREBRO-SPINAL FLUID EXAMINATIONS BY SEROLOGICAL TESTS FOR THE DIAGNOSIS OF SYPHILIS DURING THE YEAR 1950

10

Bloods examined—Presumptive Kahn	68,127
Standard Kahn	6.748
Quantitative Kahn	1.639
Wassermann (Kolmer)	
Cerebro-spinal fluids examined by Wassermann (Kolmer) test	2.414
Bloods and cerebro-spinal fluids unsuitable for examination (N.S.Q., A.C., Haem.	
Accidentally broken)	2.243
Bloods broken and leaked in transit	117
Bloods and cerebro-spinal fluids "Positive" to reaction	1.413
Bloods and cerebro-spinal fluids "Negative" to reaction	67.127
Bloods and cerebro-spinal fluids giving "Doubtful Please Repeat" reaction	631
Bloods giving "Please Repeat" reaction	1.243
Bloods giving "N.S.Q. Please Repeat"	207
Number of bloods and cerebro-spinal fluids examined in 1949	89.173
Number of bloods and cerebro-spinal fluids examined in 1950	69,697
Decrease in number of specimens examined	19.476
Decrease in per cent	21.84%

TABLE 9

BLOOD AND CEREBRO-SPINAL FLUID EXAMINATIONS BY SEROLOGICAL TESTS FOR THE DIAGNOSIS OF SYPHILIS, BY THE MONTH, DURING THE YEAR 1950

					U	(N.S.Q.,
I	Presumptive Kahn Test	Standard Kahn Test	Quantitative Kahn Test	Blood Wasserm'n	C.S.F. Wasserm'n	A.C., Haem.)
January	4.898	549	105	569	231	519
February	5,160	692	174	705	211	120
March	5,539	716	168	717	229	142
April	5,555	598	127	597	228	77
May	6,512	594	120	594	219	126
June	7,213	513	93	523	228	164
July	5,792	540	120	535	165	171
August		639	174	650	204	208
September		484	143	487	201	200
October		485	161	486	181	118
November	. 5,546	536	157	-548	164	200
December	4,724	402	97	408	153	198
Totals	68.127	6,748	1,639	6,819	2,414	2,243

TABLE 10

	DUR	ING THE	ILAN	1990			
	Negative] Positive	Doubtful Please Repeat	Please Repeat	N.S.Q. Please Repeat	Unsuit- able	Total
January	597	1	2	3	2	135	740
February	535	2		4	1	14	556
March	586		1	8	2	20	617
April	854	1	****	7	2	11	875
May	877	6		5	1	16	905
June	1,219	1	1	4	1	37	1,263
July	1,126	2		6	1	29	1,164
August	998	2	****	10	3	31	1,044
September	854	2		13		29	898
October	1,207	3	2	15	1	29	1.257
November	1,025	1	1	16	1	45	1.089
December	754	5	2	2		38	801
Totals	10,632	26	9	93	15	434	11,209

PREMARITAL BLOODS SUBMITTED FOR SEROLOGICAL TESTS FOR SYPHILIS DURING THE YEAR 1950

TABLE 11

SERA AND VACCINE DISTRIBUTED DURING THE YEAR 1950

Smallpox Vaccine:	Total 1949	Total 1950
1 point	3,474	2.431
10 points		3,513
Diphtheria Antitoxin, in syringe:	010	197
1.000 units		197
20,000 units	468	154
10,000 units	53	92
Diphtheria Toxoid:	7,545	1.181
1 person 3 c.c.	1.331	37
6 c.c.		309
Diphtheria Toxoid and Pertussis (combined) Old:		
1 person (3x2 c.c. ampoules)	149	
Diphtheria Toxoid and Pertussis (combined) New:		
1 person (4x1 c.c. ampoules) 9 persons (6x6 c.c. ampoules)	14.189 4.021	6,707 1,541
Schick Test: 25 persons		258
Scarlet Fever Antitoxin:	014	200
3,000 units (syringe)	467	206
9.000 units (vial)	157	64
9,000 units (syringe)	242	13
Scarlet Fever Toxin: Strength "A"—30 doses (large)	57	56
Strength "B"-30 doses (large)	180	107
Strength "B"—30 doses (large) Strength "C"—30 doses (large)	80	89
Strength "D"—30 doses (large) Strength "E"—30 doses (large)	107 188	100 179
1 person	2,704	1,457
6 persons	1,691	667
Dick Test: 10 persons	547	222
Tetanus Toxoid: 1 person	150	91
Tetanus Antitoxin:	878	396
1,500 units		390
10.000 units		22
20,000 units		2
Pertussis Vaccine, old:	152	
1 person (3x2 c.c. ampoules) 6 persons (6x6 c.c. ampoules)	43	
Pertussis Vaccine, new:		
1 person (4x1 c.c. ampoules)	2,874	881
9 persons (6x6 c.c. ampoules)	278	96
Staphylococcus Toxoid: 2 c.c. vial	245	62
Staphylococcus Antitoxin:	6	8
10,000 units		0
Gas Gangrene Antitoxin:		
4,000 units		137
10,000 units	105	22
Typhoid-Paratyphoid Vaccine:	702	754
1 person 10 c.c.		754 1,563
Anti-Measles Serum: 5 c.c.		902

TABLE 11-Continued

	Total 1949	Total 1950
Immune Serum Globulin: 2 c.c. 10 c.c. Diluted Diphtheria Toxold:	$\begin{array}{c} 100\\ 25\end{array}$	112
1 person 2½ c.c. (Reactors)	136 1	36
Anti.H. Influenzae Serum: Type B (Serum- Rabbit)	2	
T.A.B.T. Vaccine: 3 c.c. Rocky Mountain Spotted Fever Vaccine:	558	809
1 c.c. 3 c.c.	12	1
Other Vaccines: Autogenous Vaccine, 25 c.c. bottle Stock Vaccine, 25 c.c. bottle	24	25
Diphtheria Toxoid & Pertussis & Tetanus Vaccine:		
1 person 9 persons		315 144
Diphtheria Toxoid and Tetanus Toxoid: 1 person		3

TABLE 12

MYCOLOGICAL EXAMINATIONS

Type of material examined Skin and nail scrapings Sputum Scalp hairs Beard hairs Vaginal swabs Mouth and throat	specimens .f 142 74 48 18 28	umber found positive or pathogenic fungi 40 15 29 12 9
Miscellaneous	12 34	4 5
Total	356	114
Fungi identified Trichophyton mentagrophytes faviforme tonsurans rubrum Microsporum audouini canis Epidermophyton floccosum Mosaic fungus Candida albicans Goetrichum sp. Molassezia furfur Actinomyces bovis Aspergillus fumigatus	hairs hairs skin and hairs hairs skin skin skin and nails, vagina,	14 3 1 sputum 22 7 3 1
Nocardia tenuis Nocardia minutissima	hairs	1
Other dermatophytes	ekin and hairs	

- m	Δ		LE	19	
	еж,	D,	LIE	4.0	

COMMERCIAL VALUE OF WORK IF M	INIMUM	CHARGE WERE	MADE.	1950
Sputum Examinations	836	\$ 1.00	S	836.0
Sputum Examinations Diphtheria and Haemolytic Streptococci	5,492	1.00	\$	5.492.0
Typhoid Fever (Agglutination tests)	1.896	1.00		1.896.0
Milk	1.386	3.00		4.158.00
Water	4,127	10.00		41.270.0
Guinea pig inoculations	2.047	3.00		6.141.0
Miscellaneous Bacteriology	7.465	3.00		22,395.0
Blood cultures	680	3.00		2,040.0
Enterobacteria and Intestinal Parasites	2,928	3.00		8,784.0
Urinalysis	25	1.00		25.0
Medico-Legal (Blood, seminal, etc.)	20	5.00		35.0
Cerebro-Spinal Fluids for Wassermann Test	2.414	1.00		2.414.0
Bloods for the Quantitative Kahn Test	1.639			
Bloods for Wassermann Test	6.819	1.00		6.819.0
Bloods for Standard Kahn Test	6.748	1.00		6.748.0
Bloods for Presumptive Kahn Test	68.127	1.00		68.127.0
Smears for the Gonococcus	8,763	1.00		8.763.0
Cultures for Gonococcus	0,703	1.00		8,703.0
Van Den Bergh Determination	-	1.00		
Pathological Histological material	10.363	5.00		51.815.0
Blood Smear Examinations	10,303	2.00		176.0
Ascheim-Zondek Tests	564	5.00		2.820.0
Comparative Series	2	3.00		2,820.0
Fluids for Cancer Cells	294	5.00		1,470.0
Pone Morroug	254	5.00		255.0
Bone Marrows	51 66			
Cancer Cytology Cerebro-Spinal Fluid Examinations (Colloidal	60	2.00		132.0
Cold Dondry)	0.001	0.00		
Gold, Pandy)	3,331	2.00		6,662.0
Bacteriological Examinations (P.M.)	22	5.00		110.0
Agglutination Test:	1.000	50		000 0
B. abortus Examinations	1,860	.50		930.0
P. tularensis Examinations	1,860	.50		930.0
B. melitensis	2	.50		1.0
Cattle Blood (Bang's Disease Agglutination	110	many and the second		
Test)	146	.10		14.6
Autogenous Vaccine	25	5.00		125.0
Stock Vaccine		3.50		
Antibiotic sensitivities, etc.	1.374	1.00		1,374.00
Mycological examinations	356	3.00		1,068.00
Total			52	53,832.60
			-	

Southern Branch Provincial Laboratory, Calgary.

This first annual report on the work conducted at the Southern Branch Provincial Laboratory, Calgary, is a summation of twelve monthly reports.

All specimens received by 1:00 p.m. Saturday, December 30th, which was the last working day of the month, are included in the December report.

As the Southern Branch commenced operations on January 3rd, 1950, we have almost completed a full calendar year. From January to March, 1950, there was a rapid increase in the volume of work, and for the succeeding nine months the work remained fairly steady with slight seasonal fluctuations. These variations appear to be related to the activities of a farming community (planting, harvesting, etc.). In spite of the dispatch of a concise and simple letter to announce our opening to all physicians and hospitals in the southern half of the Province, we still receive queries and requests which demonstrate that the letter was not read by many individuals.

This complete or partial ignorance of the Laboratory services offered in Calgary has considerably restricted our work, and this might be considered fortunate in that we have progressed smoothly through a difficult year without a major breakdown in any department.

It is probable that many more specimens will be received in 1951 as the knowledge of our existence slowly spreads to those who can benefit by the services offered. Animal work is restricted at present by lack of cage space and some overcrowding of the present guinea pig population of about 285 pigs. New cages are on order and when available should enable a more rapid turnover of specimens for the isolation of Myco. tuberculosis in guinea pigs and the conducting of the greatly needed Friedman Pregnancy test in rabbits.

There have been only four inadvertent deaths amongst the pigs (pneumonia in all cases) which speaks well for the good design of the cages, the suitability of the building provided as an animal house and the care of the animal attendant (Mr. W. Anderson).

It is hoped that accommodation for two sheep will be provided in the near future so that a ready supply of sheep's blood will be available to replace the risky mailing of sheep's red blood cells from Edmonton.

An increase of the work in connection with the control of Tuberculosis must be anticipated in the future following the work of the Mobile X-ray teams in their general survey of the population.

The numbers of milks and waters submitted for bacteriological examination have shown slight steady increase.

It was found necessary to be more rigid in the control of the techniques used for the examination of milks after complaints had been received from various dairies to the effect that the results did not demonstrate the true condition of their products. With the cooperation of the sanitary authorities, iced milk samples now reach the Laboratory with a maximum delay of 30 minutes. The samples are then examined strictly according to the techniques prescribed in "Standard Methods for the Examination of Dairy Products," 9th Edition. The results of this more rapid delivery of the samples and their examination under more rigidly controlled conditions have been seen in the fall in the Official Plate Counts to more reasonable (although not yet satisfactory) levels.

The work of the Serology Department in connection with the diagnosis of syphilis has, from the onset, been one of our largest commitments, and we have been assured by many physicians that this service has been greatly appreciated.

Similarly, the histological examination of biopsy and autopsy tissues has been of assistance to many practitioners in the southern half of the Province.

There have been no epidemic outbreaks of communicable diseases during the year, so that the bacteriology staff has been occupied with routine investigations (urethral smears for gonococci, throat swabs for diphtheria bacilli, etc.).

The Clinical Pathology conducted for the Central Alberta Sanatorium is unlikely to increase to any great extent, as this work is naturally limited by the number of beds available for in-patients.

The technical equipment was very adequate from the outset, so that the only major additions have been one English centrifuge and one English tissue processing machine. Both are giving satisfactory service and, compared with their American counterparts, are considered superior from both engineering and design points of view.

Training facilities in histological technique were given to one technician from the Galt Hospital, Lethbridge.

Similar training in the serology of syphilis has been offered to the Holy Cross Hospital, Calgary, and one trainee technician from that hospital is at present working in the Serology Department.

TABLE 1

WORK PERFORMED IN THE PROVINCIAL LABORATORY, SOUTHERN BRANCH. CALGARY, DURING THE YEAR 1950

Sputum Examinations	3.758
Diphtheria and Haemolytic Streptococci	368
	632
Typhoid Fever (Agglutination Test)	
Milk	518
Water	903
Guinea Pig Inoculations	522
Miscellaneous Bacteriology	442
Blood Cultures	95
Enterobacteria and Intestinal Parasites	88
Urinalyses	2,778
Medico-Legal (Blood, Seminal, etc)	
Blood Counts	1,581
Biochemistry Investigations	138
Cerebro-spinal fluids for the Wassermann Test	700
Bloods for the Quantitative Kahn Test	582
Bloods for the Wassermann Test	3,696
Bloods for the Standard Kahn Test	3.352
Bloods for the Presumptive Kahn Test	21.573
Smears for Gonococcus	3,919
Van Den Bergh Determinations	57
	2.038
Pathological Histological material	65
Blood Smear Examination	
Post Mortem Examinations	5 32
Histology from Post Mortems	32
Ascheim Zondek Examinations	
Fluids for Cancer Cells	46
Cerebro-spinal Fluid Examinations (Colloidal Gold, Pandy)	707
Bacteriological Examinations (P.M.)	1
B. abortus Examinations (Agglutination Test)	632
P. tularensis (Agglutination Test)	632
B. melitensis (Agglutination Test)	
Cattle Blood (Bang's Disease—Agglutination Test)	
Total	49,860

TABLE 2

DETAILS OF EXAMINATIONS OF MILK PERFORMED THROUGHOUT THE YEAR 1950

	1950
Number of milks examined bacteriologically	518
Number of milks examined for butterfat	7
Number of milks examined for B. coli	518
Number of milks tested by the Phosphatase Test	8
Number of ice creams examined	2
Number of rinse waters examined bacteriologically	

TABLE 3

DETAILS OF BACTERIOLOGICAL EXAMINATIONS OF WATER PERFORMED THROUGHOUT THE YEAR 1950

Number of samples of water examined bacteriologically and found fit for human consumption 63	34
Number of samples of water examined bacteriologically and found unfit for human consumption 26	57
Number of samples of ice examined bacteriologically and found fit for human consumption	2
Number of samples of ice examined bacteriologically and found unfit for human	

TABLE 4

LABORATORY WORK DONE IN RELATION TO THE CONTROL OF TUBERCULOSIS

sme	amined by ar, animal oculation d culture		% Positive	Negative	% Negative
Sputum and Gastric Washings	167	25	14.9	142	85.1
Urine	171	21	13.7	150	86.3
Pleural Fluids	77	11	14.2	66	85.8
C.S.F.	21	7	33.3	14	66.7
Joint Fluids	15	2	13.3	13	86.7
Abdominal Fluids	4	22	50.0	. 2	50.0
*Miscellaneous Specimens	67	16	23.5	51	76.5
Total	522	84		438	
Sputums examined by smear only	3753	935	25.0	2818	75.0
Miscellaneous examined by smear only	233	26	11.1	207	88.9
Grand Total	4508	1045		3463	

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

TABLE 5

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

Determination

No. Done

Penicillin sensitivity of a variety of organisms isolated from cases of infection	
Penicillin Blood Level	
Streptomycin sensitivity of Mycobacterium tuberculosis isolated from cases	5
Streptomycin sensitivity of other bacteria	
streptomycin Blood Level	
treptomycin Urine Level	

TABLE 6

BACTERIOLOGICAL EXAMINATIONS FOR EVIDENCE OF TYPHOID FEVER. DYSENTERY AND RELATED FEVERS

Salmonella Typhi	S. para-	0.0			
a prese	typhi B.	Other Salmonella	Shigella	Negative	Total
		3	33	62 11	74 14
				1	1
	****		****		
		33	63		
		Cases:			
: 2 1	Shigella Sh. sor	nnei			2
		Shigella 2 Sh. sor 1 Sh. par	Shigella Cases: 2 Sh. sonnei 1 Sh. paradysenteriae	3 3	3 11 3 3 3 3 3 3 3 3 1 Sh. paradysenteriae Boyd 103

TABLE 6A

INTESTINAL PARASITES

Number of specimens examined and found negative for parasites Ova identified—Ascaris lumbricoides	12
Insects identified—Larva of Colliphora Gross worms or portions—Taenia solium 1, Dibothriccephalus 1	1
Total	17

TABLE 7

BLOOD AND CEREBRO-SPINAL FLUID EXAMINATIONS BY SEROLOGICAL TESTS FOR THE DIAGNOSIS OF SYPHILIS DURING THE YEAR 1950

Bloods Examined—Presumptive Kahn	21,573
Standard Kahn	3.512
Quantitative Kahn	582
Wassermann (Kolmer)	3.696
Cerebro-spinal fluids examined by Wassermann (Kolmer) test	700
Bloods and cerebro-spinal fluids unsuitable for examination (N.S.Q., A.C., Haem.,	
Accidentally broken)	390
Bloods broken and leaked in transit	36
Bloods and cerebro-spinal fluids "Positive" to reaction	498
Bloods and cerebro-spinal fluids "Negative" to reaction	21.841
Bloods and cerebro-spinal fluids giving "Doubtful Please Repeat" reaction	244
Bloods giving "Please Repeat" reaction	475
Bloods giving "Report As Is" reaction	45
Bloods giving "N.S.Q. Please Repeat" reaction	90
moous gring more react reaction	10

TABLE 8

BLOOD AND CEREE FOR THE DIAGNO	RO-SPIN	THEY IS NOT A ROOM AND A	XAMINATIO	NS BY SER H, DURING	THE YEAR	TESTS 1950
Pre	esumptive Jahn Test	Standard Kahn Test	Quantitative Kahn Test	Blood Wasserm'n	C.S.F. Wasserm'n	(N.S.Q., A.C., Haem.)
January	898	136	6	146	33	51
February	1.377	296	16	314	59	27
March	1.751	402	30	401	77	22
Amail	1.682	311	18	315	59	23
3.6	1,900	363	77	387	63	28
Torrest	2,119	330	64	358	57	25
	1.856	219	52	246	52	14
July	2.143	284	69	305	70	15
August	1.995	303	55	326	56	17
September	2,116	295	67	303	66	54
October	2.098	348	68	363	55	70
November December	1,638	225	60	232	51	44
* Totals	21,573	3,512	582	3,696	700	390

TABLE 9

PREMARITAL BLOODS SUBMITTED FOR SEROLOGICAL TESTS FOR SYPHILIS DURING THE YEAR 1950

Month	Negative	Positive	Doubtful Please Repeat	Please Repeat	N.S.Q. Please Repeat	Report as is	Unsuit- able	Total
January	175			1	1	1	9	187
Palaman	949			3	1		2	248
Monah	272	1		2	1		4	381
	437	î		10			4	452
April	512	î	2	5	2		3	525
May	786	-	2	7			6	801
June	594	3		4			5	606
July	740	2	3	4		1	6	756
August	643	-		3			5	651
September	837	9	++++	2		1	13	855
October	686	-	4010	2		2	19	709
November				1	****		9	447
December	436	1		1			_	
Totals	6,461	11	7	44	5	5	85	6,618

TABLE 11

SERA AND VACCINE DISTRIBUTED DURING THE YEAR 1950

	Total 1950
Smallpox Vaccine: 1 point 10 points	1,701
Diphtheria Antitoxin, in syringe: 1,000 units	
5,000 units 10,000 units 20,000 units	18
Diphtheria Toxold: 1 person 3 c.c. 6 c.c.	. 76
Diphtheria Toxoid and Pertussis Vaccine, combined: 1 persons (4x1 c.c. ampoules) 9 persons (6x6 c.c. ampoules)	2,891
Schick Test: 25 persons	0.00
Scarlet Fever Antitoxin: 3,000 units (syringe) 9,000 units (vial) 9,000 units (syringe)	. 8
Scarlet Fever Toxin: Strength "A"—30 doses (large) Strength "B"—30 doses (large) Strength "C"—30 doses (large) Strength "D"—30 doses (large) Strength "E"—30 doses (large) 1 person (5x1 c.c. vial) 6 persons (6x5 c.c. vials)	33 15 19 16
Dick Test: 10 persons	
Tetanus Toxoid: 1 person	
Tetanus Antitoxen:: 1,500 units 10,000 units	200
Pertussis Vaccine: 1 person (4x1 c.c. ampoules) 9 persons (6x6 c.c. ampoules)	. 921

TABLE 11-Continued

To	tal	1950	
Staphylococcus Toxoid: 2 c.c. vial		100	
Staphylococcus Antitoxin, in vial: 10,000 units 20,000 units		20	
Gas Gangrene Antitoxin: 4,000 units 10,000 units		63 18	
Typhoid-Paratyphoid Vaccine: 1 person 10 c.c.		307 493	
Anti-Measles Serum: 5 c.c.		105	
T.A.B.T. Vaccine: 3 c.c. Antivenin North American Snakebite Serum:		22	
1 combination pkg. Diphtheria Toxoid, Pertussis Vaccine and Tetanus Toxoid:		1	
1 person (4x1 c.c. ampoules) Immune Serum Globulin (Human): 2 c.c. Other Vaccines:		806 3	
Autogenous Vaccine, 25 c.c. bottle		3	

TABLE 12

AMOUNT OF AUTOGENOUS AND OTHER VACCINE PREPARED AND DISTRIBUTED DURING THE YEAR 1950

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Total 1950

Autogenous	Vaccine	 3

TABLE 13

COMMERCIAL VALUE OF WORK IF MINIMUM CHARGE WERE MADE, 1950

Sputum Examinations	3.758	\$ 1.00	\$ 3,758.00
Diphtheria and Haemolytic Streptococci	368	1.00	368.00
Typhoid Fever (Agglutination Test)	632	1.00	632.00
Milk	518	3.00	1,554.00
Water	903	10.00	9,030.00
Guinea pig inoculations	522	3.00	1.566.00
Miscellaneous Bacteriology	442	3.00	1.326.00
Blood Cultures	95	3.00	285.00
Enterobacteria and Intestinal Parasites	88	3.00	264.00
Urinalyses	2,778	1.00	2,778.00
Medico-Legal (Blood, Seminal, etc.)			2,110.00
Blood Counts	1.581	6.00	9,486.00
Biochemistry Investigations	138	4.00	552.00
Cerebro-spinal fluids for the Wassermann		1.00	000.00
Test	700	1.00	700.00
Bloods for the Quantitative Kahn Test	582		100.00
Bloods for the Wassermann Test	3.696	1.00	3.696.00
Bloods for the Standard Kahn Test	3.352	1.00	3,352.00
Bloods for the Presumptive Kahn Test	21.573	1.00	21.573.00
Smears for Gonococcus	3.919	1.00	3,919.00
Van Den Bergh Determinations	57	1.00	3,919.00
Pathological Histological material	2.038	5.00	
Blood Smear Examination	2.038		10,190.00
Post-mortem Examinations	5	2.00	130.00
Histology from Dort mortoms		100.00	500.00
Histology from Post-mortems Ascheim Zondek Examinations	32	15.00	480.00
Aschelm Zondek Examinations		5.00	
Fluids for Cancer Cells	46	5.00	230.00
Cerebro-spinal Fluid Examinations (Colloidal			
Gold, Pandy)	707	2.00	1,414.00
Bacteriological Examinations (P.M.)	1	5.00	5.00
B. abortus Examinations (Agglutination			
Test)	632	.50	316.00
P. tularensis (Agglutination Test)	632	.50	316.00
B. melitensis (Agglutination Test)	****	.50	
Cattle Blood (Bang's Disease, Agglutination			
Test)	1014	.10	
Autogenous Vaccine	3	5.00	15.00
Total			\$ 78,492.00

4

Sanitary Engineering Division

J. A. BEVERIDGE, B.A.Sc., M.S.E., Acting Director.

More water and sewerage systems were installed throughout the Province during 1950 than ever before in its history. This unprecedented construction started after the Provincial Government made money available at 2% interest for self-liquidating projects, that is, projects which will earn sufficient money to repay the original capital expenditure plus interest within twenty years. Seventeen towns and villages ranging in population from 600 to 3,000 persons financed the installation of new water and sewerage systems. Another 17 municipalities borrowed money for major extensions to existing systems. As a result, at the close of 1950 Alberta is better served with sanitary facilities than any other province in Canada.

Rapid development of the oil and gas resources in the Province produced further industrial expansion and population growth. This activity, in turn, materially increased the quantity of industrial wastes and untreated sewage being discharged into the rivers and streams of the Province. To combat this pollution, a laboratory and engineering staff were obtained to conduct surveys of the major rivers. Their task is to establish standards of quality for these rivers and recommend the type and degree of waste treatment necessary to meet such standards. Many other disposal problems such as those caused by sewage effluent entering landlocked lakes or obnoxious odours arising from sugar beet wastes will also be investigated in the near future. Support for a pollution study was immediately forthcoming from the towns along rivers and from organizations such as the Fish and Game Association.

Engineering.

Municipal: A plan of extending our engineering services to the municipalities was initiated with gratifying response. Much time was spent studying and changing the design of new water and sewerage systems being installed in towns and villages. Proper design eliminates costly maintenance and operating expenses which small municipalities cannot afford.

Requests from town foremen, secretary-treasurers, and municipal councils for a short training course on the operation of these new utilities or town business increased to such a point that arrangements have been made to give an annual course each spring at the University of Alberta.

During the year the fluoridation of public water supplies to prevent dental caries was endorsed by the American Dental Association and many other national organizations of professional health workers. Since dental decay is one of the most widespread of all diseases and takes an enormous toll in terms of decayed teeth, toothaches, lost teeth and poor oral health, the sanitary engineering division took steps to investigate and gather data on the equipment and procedure required for the addition of fluorides. It is hoped that an experimental fluoridation unit will be installed in the near future. Stream Pollution: Extensive tests on the physical, chemical and biological characteristics of the North Saskatchewan River were made during the latter months of this year. From the results obtained to date, it is apparent that the City of Edmonton will have to cease discharging raw and partially treated sewage into the river. An outbreak of typhoid fever along the North Saskatchewan River during the winter accented the need for stream sanitation.

Sixty-one certificates were issued by the Provincial Board of Health during 1950 covering waterworks, sewage works, and hospital construction. The designs were checked by the engineering staff of this Division.

Plumbing:

All plumbing inspection, other than that in the larger cities and towns, was performed by Provincial inspectors. The tremendous increase in plumbing construction between 1945 and 1950 is shown by the number of permits issued: 1945, 321; 1950, 1,613.

It is also evident that with more water and sewerage systems being installed this year than ever before, the work of plumbing inspection will materially increase during 1951 and continue at a high level for five or more years. The northern section of the Province, that is, the area north of Red Deer, is rapidly increasing in population and expanding industrially. This development has now increased to a point where more staff is required to give adequate service.

The following tables show that 8,144 fixtures were installed last year. Such plumbing is worth over 1½ million dollars. Our Division has protected this large public investment by assisting home owners to install their own systems correctly and by inspecting all work performed by registered plumbers. Another effect of our work is to lower the cost of maintaining this plumbing. But above all, there will be few plumbing fittings from which dangerous sewage effluent can leak.

The large number of permits issued for septic tanks and cesspools indicate that modern plumbing on the farm is rapidly increasing. At each rural home, assistance is provided with the plumbing installation. Such assistance requires more time than just conducting inspection tests, and this is still another reason why the plumbing division has found work increasing to a point where additional staff is required.

It is particularly noticeable that during this year of extensive construction when no attempt whatsoever was made to make householders obtain permits, more inquiries were received from home owners and plumbers than ever before. This indicates that both the public and the plumbing trade feel our work is needed.

PLUMBING INSTALLATIONS

Premises	New Construction Total No. Fixtures	Reconstruction, Alter- ations & Extensions Total No. Fixtures
Dwellings and Apartment Houses	5,421	215
Hotels	634	293
Schools	301	68
Hospitals	182	94
Restaurants	196	17
Stores	179	34
Offices	104	• 27
Other Buildings	339	40
Watal		and part days in
Total	7,356	788

estaicen during to	FIXTURES	INSTALLED	
Water Closets Baths Laundry Tubs Wash Basins	1,584 202	Sinks Special Fixtures Total	1.48 310 8.14
wasii Dasiiis		MITS	0,11

New Con-Reconstrucstruction Inspections Made Total No. Permits Charges tion and Fixtures Extensions Granted Made \$10,625.00 Provincial 7.356 621 1.613 18,179 17,783.00 3.383 Edmonton 1.24113,770.10 10,918 1,000 3.350 Calgary Lethbridge 3,402 585 585 1,475.75 824 151 174 335.50 Medicine Hat 421.75 Red Deer 1.030 92 212 132.00 22 Drumheller 91 6 21 21 Hanna 60 163.50 368 56 Banff Jasper-not reported. 23.25 Waterton 12 62 13 42,201 2.686 9,429 \$44,729.85 Total.

TABLE 1

TABLE 2

Location	W.C.	Lavatory Basin	Showers and Bath	Sinks	Laundry Tubs	Special Fixtures	Septic Tanks	Outside Toilets Eliminate
Provincial	2,243	2,321	1.584	1.484	202	310	756	921
Edmonton	5,480	5.410	3.354	3,580	296	1,300	6	41
Calgary	3,079	2,214	2.214	2.214	1,100	1,097		
Lethbridge	924	920	568	774	17	766	2	82
Medicine Hat	283	249	162	226	4	51	1	28
Red Deer	300	275	186	239	8	44	5	62
Drumheller	36	35	8	14		4		
Hanna	14	12	10	12		1	*****	12
Banff Jasper—not reported.	106	110	35	48	6	123	4	
Waterton	21	21	9	12		11	9	3
Total	12,486	11,567	8,130	8,603	1,633	3,707	783	1,149

Sanitary Inspection.

During the year, the public requested more assistance from sanitary inspectors than from any other branch of the Division.. Fortunately, during the latter months of 1949, the number of inspectors on the staff was increased from two to five. As a result, some 3,061 inspections were carried out as compared to 458 in the preceding year. The inspectors concentrated on improving conditions in establishments handling milk and food. Standards in many of these premises were found to be extremely low during the first inspections. The operators, however, appreciated and acted on the advice given them, and by the end of the year marked improvement had been made.

There was an urgent need for educating the employees of food establishments in sanitation. To meet this, our inspectors developed a general program of education to replace their routine inspections. Copies of all reports were forwarded to the local Boards of Health, so that they too could press for better restaurant and general sani-

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tation. As usual, the inspectors also assisted the local boards with garbage disposal and other municipal problems.

A series of logging camp inspections were undertaken during the winter in conjunction with the Board of Industrial Relations. From a public health viewpoint, our camps are far below standard, and there is need for more inspection. One can visualize the size of this task after learning that some 800 camps operate in the Province each winter, and in most instances they are located in the more isolated regions.

Nine provisional and six final certificates were issued for new cemetery sites during the year. In addition, at the request of the Department of Lands and Forests, progress was made towards determining the exact location of cemeteries established in the early days of colonization. A total of 251 cemetery certificates were issued to protect these old cemeteries.

In general, a marked improvement was made in sanitation throughout the milk and food businesses in the towns, villages, and hamlets of the Province. Much of the credit for this change is due to the excellent co-operation given the sanitary inspectors by the Dairy Branch of the Department of Agriculture, the Licensing Office and Board of Industrial Relations of the Department of Industries and Labour, the Improvement District Inspectors, and the Canadian Restaurant Association.

SANITARY INSPECTIONS, 1950

2 5 3 4 3 1 11 2 4	9 32 18 8 1 21 10 3	294 67 7 1,373 66 2 74 222 35	34 19 251 3 11 7 2	339 86 7 1,661 90 14 89 251
5 3 4 3 1	32 18 8 1 21 10	7 1,373 66 2 74 222	251 3 11 7	7 1,661 90 14 89 251
5 3 4 3	32 18 8 1 21 10	66 2 74 222	251 3 11 7	90 14 89 251
3 4 3 1	18 8 1 21 10	66 2 74 222	3 11 7	90 14 89 251
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2	2		2	58
4		1910	1414	5
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4	15	17	2	38
	1	1	1	3
				3 12
3	20		1	59
6	3	19	1	29
	10	34		44
2	7	5	3	17
5	3	3	1	12
11	29	17	7	64
		0.040		
66	292	2,349	354	3,061
	6 2 5 11 66	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Milk		125	Prosecuti
Other	Material	1	

Staff Changes.

Mr. D. R. Stanley, Provincial Sanitary Engineer, was granted leave of absence in September to take a two-year post-graduate course at Harvard University. He was replaced by Mr. J. A. Beveridge, M.S.E., Acting Provincial Sanitary Engineer, who joined the staff in July.

A stream sanitation programme commenced in July under the supervision of Mr. P. Bouthillier, a lecturer in Civil Engineering at the University of Alberta. Mr. W. A. Dexter, B.Sc., worked with Mr. Bouthillier from July until September, at which time he obtained leave of absence to take post-graduate training for one term at the University of Toronto. Mr. H. Hogge, B.Sc., a chemical engineer, then joined the Division to continue work on the stream survey.

We wish to thank the Minister of Health and the Deputy Minister for the guidance and assistance they have given during the year. Further, we particularly appreciated the co-operation of the Canadian Restaurant Association, the National Association of Master Plumbers, the Alberta Fish and Game Association, the Imperial Oil Co. Ltd., and the British American Oil Company Ltd. All of these organizations provided useful and important assistance during the year.

Hospital and Medical Services Division M. G. McCallum, M.D., D.P.H., Director.

The number of hospitals in the Province increased during 1950 by the opening of a new municipal hospital at Glendon. The Nordegg General Hospital was closed temporarily for part of the year.

The nursing situation showed improvement during the year, although there was still a shortage of approximately 200 nurses at the close of December. The nursing aide school in Calgary has trained 487 persons since it opened in January, 1946, to the end of December, 1950. There were 454 of these working in Alberta at the end of the year. The number of aides in training was 162. This increase in nursing aides has helped compensate for the shortage of nurses.

Approved Hospitals.

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

	1950	1949
Catholic	31	31
Protestant	5	5
Municipal	50	49
Municipally operated	6	6
Industrial	3	3
Service Group	2	2
Lay Corporation	2	2
Provincial	1	1
		-
	100	99

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

Statistics.

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

- Table 1—Bed capacity, bed complement, patients under care during year, admissions, discharges, deaths, and stillbirths.
- Table 2—Patient days, average stay in hospital, and occupancy. Table 3—Staff.

Table 5-Stall.

Table 4-Operating expenditure.

Table 5—Operating revenue.

- Table 6—Costs and earnings per patient day with percentage costs.
- Table 7-Grants paid directly to hospitals.

Table 8-Hospitalization grant.

Table 9-Hospitalization of Alberta population by age and sex.

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

For convenient reference, the information in the above tables is herewith presented in summary form, together with corresponding entries for 1949 for comparative purposes.

HOSPITA	AL BEDS	1950			1949
Beds and Cribs Bassinets	4.992	Compleme 5,982 1,107		,684 910	Complement 5,617 1,079
	5,937	7,089		,594	6,696
Beds per thousand population (exclud- ing Bassinets) Patients accommodated per bed per year *Excluding newborn.	. 5.6	6.7 27.2*		5.4	6.4 28.6*
PATIEN	T DAYS				1010
Adults and children Newborn		1,4	950 68,312 15,799		1949 1,436,927 210,431
All patients		1.6	84,111		1,647,358
PATIENTS UNDER CAL	RE DURI	NG THE	YEAR		
			1950		1949
Adults and children Average stay		1	62,841 8.8		159,033 9.2
New born			24.612		23,653
Average stay Total			8.9 87,453		9.1 182.686
Average stay			8.8		9.2
Average in hospital daily % of population in hospital daily			4,611		4,513
% of population admitted per year			20.5		20.5
	AFF				1010
Administration: Executive			1950 108		1949 118
Clerical			347		328
Professional: Salaried doctors			46		37
Internes			75		78
Technicians	*		177		150
Graduate			1,104 995		1.033 980
Student Probation			246		269
Affiliates Nurses Aides			70 89		36 74
Dietitians:			00		
Graduate			23 8		22 12
Orderlies and ward helpers			705		648
Other employees			1.814		1,795
Total Staff			5,807		5,580
BIF	THS		and an		
Births (excluding Indian) in approved	d		1950		1949
hospitals			23,875		23,039
Total stillbirths Percentage of births in approved hos-			329		388
pitals to total births in Province (ex- cluding Indian)	-		97.9		97.2
NURSES IN	TRAINI	NG			
Number of schools			1950		1949 10
Number of schools			10 328		340
FINAN	ICIAL*				
	and shares a second	1950			949
Total operating revenue Total operating cost		\$13,395.415 13.266,924			7,500.96 4,949.73
Revenue per patient per day		7	.87		8.14 7.29
Cost per patient per day Salaries and wages			.95 8.7%		48.0%
Supplies			5.2% 3.0%		34.8% 3.2%
Purchased services Insurance			0.9%		0.9%
Depreciation Repairs and replacements			4.5% 3.6%		4.2% 3.9%
Interest and exchange			2.5%		1.9%
Miscellaneous			1.6%		3.1%
PROVINCIAL GRANTS TO HOSP	ITALS AI	ND LOCA			
D. Direction (Table)			Day:		Amount
Per Diem (70c) Grant Maternity Grant			1,464,4		\$1,025,087.20 947,189.80
Pensioners Grant *Hospitalization Grant to Local Authoritie			132,4 113,4		673,095.60 203,334.25
*Came into effect June 1, 1950	.		110,4		Loopooring
The second secon					

*Came into effect June 1, 1950.

	Bed C	Bed Capacity		Bed Complement	mplem	ent	Pa	atients	Patients Under	Care	During	ig Year		Admissions	dons	Discharges	rges	Deaths	18	
	Nu	Number		NU	Number		M.	F.	M.	Ŀ.	M.	H.								
	sbed	Bassinets	IetoT	spəg	Bassinets	IstoT	Adults and Children		Mewborn		feto?		IstoT	Adults and Children	Newborn	Adults and Children	Newborn	Adults and Children	Newborn	Stillbirths
	2422	64100	331 46	334 24 12 24 24 24	100	42 688 30 18 18	479 408 532 286 159	646 434 434 406 292	97 29 46 55	39 39 39 39 39 39 39 39 39 39 39 39 39 3	576 437 626 332 214	743 473 870 342 342	1,319 910 1,496 781 556	1,109 794 1,288 677 444	189 65 184 87 101	$1,103 \\ 789 \\ 1,277 \\ 662 \\ 662 \\ 438 \\ $	182 65 181 85 85 101	1181116	La m La m 4	N 440
Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass, Mun. Bonnyville, St. Louis Brooks, Municipal	115 228 31	100	38 33 51 23	18 24 36 36	10 10 10	49 49 49 49 49 49 49	175 188 706 456 500	268 257 1,099 742 729	28 42 97 98	23 33 141 108 116	203 203 230 810 553 598	291 290 850 845	494 520 2,050 1,403 1,443	434 433 1,776 1,180 1,215	49 72 241 201 212	$429\\431\\1.749\\1.166\\1.200$	71 239 196 211	10 222 38 4	00000	H 400
General General Isolation Holy Cross Junior Red Cross Salvation Army Grace	301 301 302 301	28 40 33	14 361 392 50 53	320 352 352 332 332 332 332 332 332 332 332	23 49 80 ³³	14 380 58 58	55 3,976 232 3,733 81	87 6,928 6,235 91 333	21 1,015 944 150	18 957 897 165	76 4.991 4,677 150	$ \begin{array}{c} 105 \\ 7,885 \\ 7,132 \\ 91 \\ 498 \\ 498 \\ \end{array} $	12,876 471 11,809 172 648	140 10,659 9,771 325 325	38 1.934 1,808 305	$\substack{10,281\\441\\9,613\\329}$	1.988 1,779 307	408 153	25 28	31
Camrose, St. Mary's Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	22 22 23	2040400	117 16 30 33 33	100 14 28 28 28	22 2 2 2 2 2 2 2 2 2 	125 18 18 20 36	1,047 209 462 94 333	1,673 216 836 116 506	237 35 31 33 33 33	185 22 100 44	1,284 244 549 106 366	1,858 936 123 550	3,142 482 1,48' 229 916	2,681 424 1,283 207 821	413 57 186 19 76	2,642 418 $1,272$ 207 812 812	404 57 179 18 72	13 13 1	00 4 - 01	10 4HH
	18215 ⁹		12 18 30 21 21 21	22 21 23 24 51 23 24 51 23	109914	26 26	92 94 94 164 203	128 691 193 244 272	33 33 8 F	23323	107 512 127 194 242	145 744 222 269 269 295	252 1,256 349 463 537	213 1.116 283 283 397 461	115 62 60	210 1,099 278 396 452	30 111 60 53 60	12 4	HI0 0101	010100
	16 141 25	10	16 32	212	816	351 16	186 97 261	251 177 421	27 7 53	20 10 64	213 104 314	271 187 485	484 291 799	426 269 666	45 17 113	421 269 647	47 17 114	11 3		01

TABLE No. 1

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		ANNUA	L REPOR	RT, 1950			97
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343 109 125 951 1,954	2,779	164 119 45 154	273 242 343 343	149 69 295 235 142	27 68 133 265 162	181 520 647 87	212 58 91
2,366 930 8,281 224 9,963	14,060 772 37 8,600 1,684 85 45	931 313 313 310 896	416 306 810 1,838 203	735 534 2,398 1,670 908	337 450 876 1,608 964	2,417 3,610 4,486 4,486	1,353 323 463
350 110 959 1,984	2.822	119 50 47 154	55 284 33 35 284 35 35 35 35 35 35 35 35 35 35 35 35 35	151 72 309 234 145	27 69 134 264 164	186 543 655 88 88	225 59 96
2,406 940 8,470 8,470 10,094	14,296 803 52 $8,819$ $1,764$ $1,764$ 47	944 1,387 317 310 906	419 309 816 1.878 213	754 536 2,441 1,706 933	$ \begin{array}{r} 345 \\ 462 \\ 896 \\ 1,648 \\ 985 \\ 985 \end{array} $	2,454 3,685 94 4,557 556	1,362 336 478
2,818 1,067 9,627 382 12,288	17,503 830 81 9,967 1,877 1,877 68	1,138 1,535 397 370 370 1,081	485 393 891 2,188 250	924 624 2,790 1,972 1,097	375 537 1,046 1,950 1,168	$2,700 \\ 4,330 \\ 5,316 \\ 5,316 \\ 657 \\ 657 \\$	1,613 401 575
1,537 594 199 5,530 7,620	7,114 10,389 404 426 41 406 4.824 5,143 notavailable notavailable notavailable	555 923 225 221 221 221 620	272 242 1,241 1,241	$^{551}_{1,526}_{1,154}$	215 244 631 1,200 667	$ \begin{array}{c} 1,540\\ 2,573\\ 3,251\\ 3,251\\ 383 \end{array} $	975 262 324
1,281 473 456 4,097 4,668	7,114 404 41 4,824 notava notava notava	583 612 154 149 461	213 151 396 947 117	$^{373}_{1,266}_{1,264}_{818}_{472}$	160 293 415 750 501	$1.160 \\ 1.757 \\ 63 \\ 2.065 \\ 274$	638 139 251
168 63 484 1,010	460	24 24 28 28 28 28	29 30 141 12	78 30 111 63	15 30 59 131 78	95 265 344 47	110 33 38
190 48 500 1,010	457	93 27 27	28 27 140 23	73 157 128 85	12 39 139 91	100 289 325 42	117 26 58
1,369 531 531 5,046 6,610	9.007 426 40 4.683 ailable ailable	472 858 201 201 542	243 212 471 1.100 121	473 328 1,370 1,043	200 214 572 1,069 589	1,445 2,308 2,308 2,907 2,907 2,907 336	865 229 286
1,091 425 3,597 3,658	5,615 404 41 4.367 notav notav notav	490 555 1127 382 382	185 124 356 800 94	300 222 690 387	148 254 337 611 410	$1.060 \\ 1.468 \\ 63 \\ 1.740 \\ 232 \\ 232 \\$	521 113 193
93 28 416 307	640	552255	88338	44 35 67 69	11 38 66 40	108 129 163 25 25	40 24 19
13 8 62 62	8 8 1	10 10	16	9 15 1 3 8	010000100	12 18 31 6	00 10 10
245 245	560 615	37 20 30	80 80 80	35 25 25 21 4	30 32 32	96 111 16 132 132	32 19 14
21 237 237 298	540	10 222 222	33 39 39	44 53 72 42	14 33 31 31 31	105 94 116 116 20	33 8 14
25.8 57 7	8 8 1 8	00040	20246	15126.9	44 16 16	10 8 18 6	4 4
65 16 14 212 212	460	37 26 16	28 15 79	32 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	22 22 22 12 19	95 86 98 14	29 8 10
Drumheller, Municipal Eckville, Municipal Edmonton, Beulah Home Edmonton, General (a) T.B. Division (a) T.B. Division Edmonton, Misericordia	Edmonton, Royal Alexandra	Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal Fairview, Municipal	Ft. McMurray, St. Gabriel's Ft. Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Hythe, SubHosp.	Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal	Islay, Municipal Jasper, Seton Killam, General Lacombe, Municipal Lac la Biche, St. Catherine's	Lamont, Archer Memorial Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's General Macleod, Municipal	McLennan, Sacred Heart Magrath, Municipal Manning, Battle River

Bed Capacity		Bed (Bed Complement	nent	Pat	ients U	Patients Under Care	are Du	During Year	ar	Admissions	sions	Discharges	ges	Deaths	ths	
Number		-	Number		M.	F. M	E.	M.	H.			İ	-	1	-		
Beds Bassinets Total		Beds	Bassinets	IntoT	Adults and Adults and	IE 190	Newborn		Total	IstoT	Adults and Adults and	Newborn	Children Adults and	Newborn	Children Adults and	Newborn	Stillbirths
15 5 20 26 8 34	-	262	10 00	34	263	343 487	47 58	42 3	310 385 499 533	5 695 3 1,032	599	88 103	593 908	88 102	44	1	1014
118 10 128		150	35	185	-	2,647	336 3	345 2.0	097 2,992	2 5,089	4	699	4.217	649	111	16	9
11 11 26 4 30 13 3 16 31 9 40	-000	3212	10 55	42831	310 219 340	451 300 511	22.23	90339	242 242 323 323 323 323 323 323 323 323	0 827 3 565 1 1,025	5142 5142 837	64 46 170	737 506 809	63 45 162	3.75		
17 37 64 64 10 56 10 5 18 18		5288455	8 9 8 9 8 9	27 37 30	158 483 429 264	228 666 677 743 422	26 78 68 60	120 101 101 101 101 101 101 101 101 101	184 248 561 739 567 745 530 844 324 465	8 432 5 1.300 5 1.312 4 1.374 5 789	0 1.129 1.156 1.156 1.156 9 674	44 146 132 198 198	380 1,111 1,128 1,135 669	46 145 132 197 99	222 202 8	040	HH00H
14 6 20 2 18 5 23 1 2 47 11 58 23 1 19 8 27 8 27 2 222 6 28 28 28 2		222 23 232 23	9 1- 6 30 X	31 339 256	256 165 321 321 428	436 319 519 481	77 530 54 64	77 38 55 58 11,1 58 58	333 513 228 357 228 1,932 380 574 492 539	3 846 7 585 2 3,219 4 954 1,031	688 477 9 2,751 827 827 827	150 99 107 121	672 473 2,683 825 874	141 95 415 112 116	848481	441- 0	
215 215 56 56 72 56 8 8 8 7 20 8 8 7 20 8 20 8 20 8 20 8 20		119 56 66 43	12 46 66	848868	126 589 761 727 470	226 751 1.141 1.178 768	44 67 114 133 133	646 1117 1355 154	875 875 1.2 860 1.3 90	272 442 815 1,471 258 2,133 313 2,173 922 1,531	2 346 3 1,321 3 1,861 3 1,861 1,321 1,321 1,321	89 131 227 264 285	347 1,301 1,823 1,851 1,198	87 124 214 256 284	12882	000000	
25 21 29 29 29 10 35 25 10 35 25 25 10 35 25 25 25 25 25 25 25 25 25 25 25 25 25		28228425	12 6 6 6 6 10	38833	252 304 288 288 266	501 518 195 311 479	47 52 32 32 50	3312449	299 356 37 320 320 320 5 320 5 320 5 320 5 320 5 320 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	570 869 562 918 215 312 342 662 517 833	2066 2066 2066 2066 2066 2066 2066 2066	113 92 38 61 86	729 795 578 723 723	109 38 59 86 86	NGRON	00 H	

TABLE No. 1-Continued

H0 00	01000	328			329	1	329
010000	128	447		11	447	I	447
37 11 12	2233	2,957		1 63	2,960	109	2,851
216 158 72 91 132	137 309 372 69	23,726	628	14	23,758	I	23.758
2.181 956 557 414 935	$ \begin{array}{c} 1,257\\2,101\\2,168\\629\end{array} $	56,173		134 78	56,385	2,195	54,190
216 160 74 92 139	147 306 379 68	24.051		16	24,084	i	24,084
2.211 974 565 427 952	1,287 2,124 2,220 630	159,183 24,051 156,173	1	141 77	159,401	2,343	157,058
2,468 1,157 656 528 1,103	1,457 2,479 2,640 7117			157 98	96,633 12,570 12,042 76,741 108,675 187,453 159,401 24,084 156,385	2,672	184,781 157,058 24,084 154,190
1,455 719 367 328 656	784 1,433 1,522 449	96.524 12,554 12,024 76,613 108,548 187,198		81 46	08,675 1		1
1,013 438 289 200 447	673 1,046 1,118 268	76,613 1		76 52	76,741 1	1	1
91 53 53 68	164 200 32	12,024		ສສັ	12,042		
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1,364 636 330 275 588	719 1.269 1.322 417	96,524		37	96,633		
884 357 248 158 376	588 891 930 230	64,059		69	7,089 64,171	1	
8238 4 23 8 23 8 24	61 23 29 29	7,053		11	7,089	626	6,463
100174	10 15 4	1,098		60	1,107		1,107
318 33 33 33 34 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35	544 255 255	5,955 1,098		13	5.982	626	5,356
85 20 20 40	62 58 58 16	5.901		17 19	945 5,937	383	5,554
40400	14 12 32	933		(~ 13	100		945
144 144 322	46 13 13	4,968		14	4,992	383	4,609
Vegreville, General Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal	Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Total for hospitals operating full year	Hospitals in operation only part of the year:	Glendon (7 months) Nordegg (6 months)	Grand Total	Less D.V.A., Orthopaedic, Polio, and T.B. Division Cases	

	Occu-		58.6 118.8 91.4 52.3 86.0	50.0 54.9 78.5 65.1	23.3 98.3 71.0 110.1 39.4	47.3 58.0 80.1 21.6 57.3	75.6 66.8 32.7 58.2 67.4	53.8 57.9 67.6 89.0 95.6
-	ints Dis-	Total	5.7 24.0 6.4 11.6 6.2	6.3 1.1 6.3 6.3	7.5 10.1 18.3 18.3 19.3 10.5	6.7 5.9 7.7 6.4	11.7 9.3 10.5 9.9	6 8 8 8 9 0 9 7 7 8 9 9
	tay of Patients ed or Deceased	Newborn	2133	10.0 10.0 8.7 8.7 6.3	9.4 9.4 9.1	9.9 6.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2	10.5 10.5 9.4 9.4	10.3 9.6 8.6 8.0 7.7
	Average Stay charged	Adults and Children	25.2 5.3 6.4 12.1	9964369 914889	6.4 10.3 18.3 18.3 18.3 159.1 10.1	603 1650 1650 1650 1650 1650 1650 1650 1650	12.2 9.1 16.3 10.7	8.8 8.8 9.1 6.0
, 1950	Patients Dis- Deceased	Total	7,365 20,746 9,494 8,900 3,410	3.131 4.451 15.536 9.797 8.900	1.353 128.120 8.086 107.803 197.901 6.718	20,880 2,856 8,629 1,746 5,777	2,918 11,425 2,311 4,752 5,232	3,170 2,558 6,371 24,653 6,517
PATIENT DAYS, 1950	or	Newborn	1,577 598 1,372 672 533	451 729 1,651 1,751 1,751	446 18,184 16,395 3,402	4,075 345 1,508 154 606	1,216 526 517 603	485 163 990 2,778 859
	Patient Days charged	Adults and Children	5,788 20,148 8,122 8,228 2,877 2,877	2,680 3,722 13,885 13,885 7,559	907 109,936 8,086 91,408 19,091 3,316	16,805 2,511 7,121 1,592 5,171	2,663 10,209 1,785 4,629	2,685 2,395 5,381 2,381 5,658
TABLE No. 2	ng 1950	Total	7.315 18,799 9,366 5,604 3,342	3,184 4,554 16,096 9,770 8,7706	1,381 117,520 8,222 107,799 20,089 7,021	20,792 2,886 8,541 1,734 5,846	2.744 11.505 2.319 5.162 5.022	3,621 3,124 7,128 23,923 6,453
	Days During 1950	Newborn	1.540 587 1.359 636 636 517	448 705 1,661 1,750 1,340	444 17,709 1.6515 3,428	4,030 345 1,521 154 613	1,268 530 590 590	476 163 979 2,809 870
	Patient	Adults and Children	5,775 18,212 8,007 4,968 2,825	2,736 3,849 14,435 14,435 7,366 7,366	937 99,811 8,222 91,284 20,089 3,593	16.762 7.541 7.020 1.580 5.233	2,485 10,237 1,789 4,670 4,432	3,145 2,961 6,169 2,1,114 5,583
	Hospitals		Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass Municipal Bonnyville, St. Louis Brooks, Municipal	Cadomin, General Calgary, General Isolation Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Cammore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	Cereal. Municipal Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal	Daysland, Providence Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal

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DEPARTMENT OF PUBLIC HEALTH

	interior in			
34.8 166.4 89.0 92.3 81.7	52.7 97.3 48.9 53.2 53.2 212.4 44.9 168.1 76.0 57.9	52.3 116.5 116.5 53.6 67.6 67.6 67.6 67.6 67.6 71.8 71.8	47.4 106.5 26.5 106.1 86.1	83.3 87.0 87.0 77.0 56.4
15.9 164.9 7.7 13.5 198.9 12.4 199.0	6.98 9.00 9.00 1.00 1.00 1.00 1.00 1.00 1.00	11.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.8 9.7.7.7.7.8 9.7.7.7.7.8 9.7.7.7.7.8 9.7.7.7.7.7.9 9.7.7.7.7.7.7.7.9 9.7.7.7.7	6.8 8.3 8.3 8.3 8.3 8.3 8.3	6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 6.13819 7.1381
17.7 8.5 8.9 9.3	10.3 7.7 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	9.2 10.1 9.2 9.2 10.8 10.8 10.0	8.3 9.0 8.9 10.2	8.1 7.4 9.6 10.2
14.1 14.1 164.9 6.6 6.6 13.5 13.5 138.9 138.9 138.9 138.9 139.0 112.7 113119	1282 159 2105 2105 2105 2105 2105 2105 2105 2105	11 145 178 178 178 178 178 178 178 178 178 178	6.7 8.8 15.4 15.4	60 99 99 99 99
3,937 86,334 40,247 92,733 92,733 157,236 10,626 8,952 120,311 Not availabl 4,618 Not availabl Not availabl	8,755 10,377 3,202 5,386 6,722 6,722 6,722 6,722 6,722 6,722 1,449	10,054 19,054 19,994 14,216 10,305 3,086 3,896 7,406 15,271 15,271	18,021 37,229 1,583 43,421 5,346	10,545 2,8,08 3,277 4,969 6,439
2,214 8,218 16,204 25,255 8,437 lable lable	1,748 991 497 1,192 593 593 287 2,026 287 286 287	1,376 2,389 1,970 1,338 2,389 1,338 2,512 2,512 1,659	1,584 4,819 5,783 891	1,811 436 757 824 1,055
1,723 2 78,136 8 78,136 8 76,529 16 76,529 16 131,981 25 10,626 8 8,952 8 111,872 8 111,874 8 Not available 4,618 Not available Not available	7,007 2,712 2,712 5,530 5,530 6,603 6,603 4,443 1,4113 1,156	8,678 4,560 17,560 12,246 8,967 8,967 3,117 5,938 5,938	16,437 32,410 1,583 37,638 4,449	8.734 23.72 2.520 4.145 5,384
3,999 87,472 49,712 92,249 157,881 10,765 10,765 121,114 47,462 47,463 6,893	8,891 10,223 3,349 4,968 6,615 5,181 10,258 17,748 17,748 17,748	8,028 5,323 19,865 14,327 10,270 3,156 3,156 3,156 3,156 3,156 3,156 15,308 15,308	18,004 38,261 1,550 43,689 5,310	10,641 2,984 3,314 5,038 6,404
2,219 8,408 16,215 26,148 8,315	1,769 985 495 1,188 1,188 591 591 591 2,040 288 288 288 288 288	1,343 765 765 765 1,930 1,390 1,390 2,466 1,422 2,466	1,575 4,822 5,747 911	1.821 444 767 824 1.053
1,780 79,064 49,064 76,034 131,733 131,733 131,755 131,755 131,755 131,765 112,545 112,545 112,545 112,545 112,545 8,693	7,122 9,238 2,854 2,854 5,427 5,427 5,427 5,427 5,427 5,427 5,427 5,427	6,685 4,558 17,458 17,458 8,880 8,880 2,855 3,113 6,027 6,027	16,429 33,439 1,550 37,942 4,399	8.820 2.547 2.547 4.214 5.351
Edmonton, Beulah Home Edmonton, General (a) T.B. Division Edmonton, Misericordia Edmonton, Royal Alexandra (a) Isolation (b) T.B. Division (a) D.V.A. (b) Polio (c) T.B.	Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal Fairview, Municipal Ft. Wermilion, St. Theresa Ft. Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Hythe, Sub. of Grande Prairie	Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal Jasper, Seton Killam, General Lacombe, Municipal	Lamont, Archer Memorial Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's General Macleod, Municipal	McLennan, Sacred Heart Magrath, Municipal Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal

	- Occu-		7.9 80.4 2.3 1.3 7.6 58.0 6.4 67.7 9.1 66.4	7.6 44.8 9.3 75.2 6.6 75.7 6.5 88.7	6.5 76.8 6.4 45.9 7.4 112.3 7.1 80.5 7.5 79.9	7.0 39.5 6.7 87.7 8.9 84.9 7.0 81.9 81.9 81.9 69.0	6.7 52.2 6.7 70.0 9.3 21.8 9.6 118.7 6.5 50.6	8.4 70.5 8.1 46.8 7.7 73.0 6.7 51.6 53.5
	ents Dis- ased	Total	101000	101000	OORICE			
	tay of Patients ed or Deceased	Newborn	9.1 9.4 8.4 9.0	10.5 10.0 9.6 8.1 6.1	7.9 955 995	994 833 10.0 10.0	9.7 10.0 10.0 10.0	10.1 8.9 9.9 10.6 8.1
	Average Stay charged	Adults and Children	7.7 12.3 7.5 6.2 9.1	199799	556 750 757 11	6.9 9.0 9.0 9.0 9.0 9.0	6.9 9.9 9.9 9.9 9.9	8 8 4 1 8 8 4 9 4 9
1950	Patients Dis- Deceased	Total	39,435 74 6,227 3,582 9,136	3,228 11,879 9,532 8,916 4,894	$ \begin{array}{c} 5,395\\ 3,706\\ 23,379\\ 6,651\\ 7,531 \end{array} $	3.059 9.724 18.540 14.992 11,567	5,750 6,059 6,232 5,305	20.353 9.379 4.940 3.498 7.200
ENT DAYS,	of or I	Newborn	6,052 593 388 1,524	486 1,451 1,283 1,621 614	1.554 723 4.271 1.061 1.163	836 1,256 1,828 2,634 2,294	1,094 717 379 576 683	2,213 1,438 739 989 1,117
PATIENT	Patient Days charged	Adults and Children	33,383 74 5,634 3,194 7,612	$\begin{array}{c} 2.742 \\ 10.428 \\ 7.295 \\ 4.280 \end{array}$	3.841 2.983 19.108 5.590 6.368	2,223 8,468 16.712 12,358 9,273	4,656 5,342 5,656 4,622 4,622	18,140 7,941 4,201 2,509 6,083
	g 1950	Total	40.732 54 6.107 3,602 9,111	3,252 11,615 9,984 8,802 4,819	5.524 3.741 2.3.190 6.589 7.597	3,000 9,913 19,240 15,219 11,647	5,868 6.081 2,681 6,220 5,297	20,503 9,005 5,002 3,632 7,345
	Patient Days During 1950	Newborn	6,097 599 388 1,598	1,459 1,459 1,278 1,617 610	1,598 3,723 3,924 1,008 1,180	835 1,273 1,892 2,657 2,657 2,330	1,103 714 374 590 680	2,223 1,484 738 996
		Adults and Children	34,635 54 5,508 3,214 7,513	2.780 10.156 8.706 7.185 7.185	3.926 3.018 5.581 6.417	2,165 8,640 17,348 12,562 9,317	4,765 5,367 5,630 4,617	18,280 7,521 4,264 6,244
and the second states	tranitala	trospitate	Medicine Hat, General Medicine Hat, Isolation Mundare, General Myrnam, Municipal Olds, Municipal	Oyen, Municipal Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal	Radway, St. Joseph's Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal	Smoky Lake, George McDougall Spirit River, Holy Cross Stettler, Municipal St. Paul, St. Theresa Taber, Municipal	Three Hills, Municipal Tofield, Municipal Trochu, St. Mary's Turner Valley, Oilfields General Two Hills, Municipal	Vegreville, General Vermilion, Municipal Viking, Municipal Vilina, Our Lady's Vulcan Municipal

TABLE No. 2-Continued

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DEPARTMENT OF PUBLIC HEALTH

65.5 114.5 76.4 96.0	80.9	33.4 24.4	80.8		1.9.1
8.1 6.3 7.6	8.8	5.5 8.2	*8.8		8.5
8.9 9.3 6.8 11.2	8.9	8.9	8.9		8.9
22.0 12.1 12.1 12.1 12.1 12.1 12.1 12.1	8.8	5.1 8.5	*8.8		00 12
12.450 15.446 15.335 5.373	1,618,786	816 804	*1.620406	*72,908	1,547,498
1,289 2,5936 788	214,989	125 126	215,240		215,240
11.161 12,510 12,743 4,585	1,403,797	691 678	*1,405,166	*72,908	1,332,258
12,809 15,406 15,467 5,337	1,682,518	849 744	1,684,111	141,319	1,542,792
1,339 2,867 2,641 782	215,539	134	215,799		215,799
11,470 12,539 12,826 4,555	1,466,979	. 715 618	1,468,312	141,319	1,326,993
Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Total	Hospitals in Operation for only part of the year: Glendon, Municipal (7 months) Nordegg, General (6 months)	Grand Total	Less D.V.A., Orthopaedic, Polio and T.B. Division cases	

*Does not include D.V.A. and T.B. Division of University Hospital (not available).

ANNUAL REPORT, 1950

		year during the Graduated		i I—I-I	1 1 4 <u>5 8</u> 1	1111	1111	
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		Training School	No No No	No No	No Yes No No	No No No No	No No No No	No on No
		No. of Doctors	0100	11 11	164 158 17	33	0 0	10
		Medical Matt	Yes Yes No No No	°N °N °N	No Yes Yes Yes	Yes No No No	Yes No No No	No No No No No
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	ers	Employees All Other	80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 000	6 134 134 11 5	12 8 8 8 3 3 5 1 2 4 8 3 3 5	H 00 1- 10 10	28.7 6
	Others	Orderlies and Ward Helpers	0400N	10 20	10 10	14	10 00 014	00004
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	al	Technicians	4	-	313	4	11111	31 2
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	Pro	Doctors Doctors		11 11		100 H		11111
	Administ'n	Clerical	1000	1	3332	9		
	Admi	Executive		1	N -104-14			
		Hospital	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crows Nest Pass Municipal Bonnyville, St. Louis	Cadomin, General Calgary, General Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	Cereal, Municipal Claresholm, Municipal Cold Lake, John Nell Consort, Municipal Coronation, Municipal	Daysland, Providence Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal

TABLE No. 3-STAFF

33.33	1111				14 14	13	1111
Yes Yes Yes Yes	°°°°°	°NN NN NN NN	NO ON ON	°°NN NN	Yes No No No	No No No Yes	No on No
No Yes Yes Yes	No No No No	NO ONNO ONNO ONNO ONNO ONNO ONNO ONNO	No o No	No o o o o o o o o o o o o o o o o o o	Yes No No No	No No No Yes	No No No No
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No Yes Yes Yes	No No No No	No No No No No	Yes No No Yes	Yes No No No	Yes Yes No No	No No No Yes	Yes No No No
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Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University of Alberta	Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal Fairview, Municipal	Ft. McMurray, St. Gabriel's Ft. Vermilion, St. Theresa Galahad, St. Joseph's Glendon, Municipal Grande Prairie, Municipal Hythe, Sub. of Grande Prairie	Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal	Islay, Municipal Jasper, Seton Killam, General Lacombe, Municipal Lac la Biche, St. Catherine's	Lamont, Archer Memorial Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's General McLennan, Sacred Heart	Magrath, Municipal Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General	Mundare, General Myrnam, Municipal Olds, Municipal Oyen, Municipal Peace River, Municipal

DEPARTMENT OF PUBLIC HEALTH

Administ'n Professional	Hospital Executive Glerical Salaried	Pincher Creek, St. Vincent's1 1 1 Parovst. Municipal 1 1 Parovst. Municipal 1 1 1 Parovst. Municipal 1 1 1 1 1 1 1 Parovst. Municipal 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Red Deer, Municipal 2 3 1 Rimbey, Municipal 2 3 1 Rocky Mountain House, Municipal 1 1 1 Smoty Lake, George McDougall 1 1	Stettler, Municipal 3 St. Paul, St. Theresa 3 Taber, Municipal 1 Tofield, Municipal 1	Trochu, St. Mary's Turmer Valley, Oilfields General Two Hills, Municipal Vegreville, General Vermilion, Municipal	Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal	Wetzskiwin, Community	108 346 45 75
ional	2001 Sandolaria San		N	0 H H	11111		T	15 173
	Graduate	10 00 1- 03 4	40000	99 B 20 B	10401	449112	04	1107
	trabute	11111			1 1 181 1	1111	11	995
Nurses	Probationers		1111	1111	14	11111	11	246
	Attiliates Nurses Aide			<u>8 </u>	11111	1111	-	68
Di	Graduate	- [m]	69.4	114	<u>∞ </u>	4	4	68
Dietitians	trabut2				<u> </u>			23 8
	Orderlies and Ward Helpers	0 400	12 2 5 4 13	0 000	CI 4 03 13 13	400	0101	700
ers	Employees All Other	110	2 7 7 7 7 7 7 7 7 7 9 9 9 9 9 9 9 9 9 9	21 14 16 9 9 0	13 8 6 51 8	6 4 11 18 18	12	1810
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	Medical	Yes No No No	Yes No No No	Yes No No No	No No No No	NN0 ONN	Yes No	1
	No. of Doctors	400 [01]	11 12 1	oo 4	9	1111	4	1
	School	o o o o o o o NNO	o o o o o o NNo	o o o o o o o NNO o O NNO O NNO O O O O	No No No No	No o o o o o o o o o o o o o o o o o o	No	1
	Attiliation with other Institutions	000NN NNNNN	NN ON NO	NNO ON NNO ON	No No No No	No o o o o o o o o o o o o o o o o o o	No	1
	Craduated				101 I		11	328

TABLE No. 3-Continued

Hospitals in Operation for part of the year:

Glendon, Municipal (7 months) Nordegg, General (7 months)	11		F	11	11	-	11	11	0	11		11	10		12 2	No No	11	No No	No	11
Grand Total	108	108 347 46 75 173	46	75	173	1108	995	246	70	88	23	00	705	1814	5807	1	1	1		328

Not Reporting: Macleod, Municipal; Medicine Hat, Isolation.

Total	\$ 52,437.19 157,527.41 62,239.09 42,731.61 27,541.81	30,073.79 23,696.92 143,912.81 53,111.98 78,229.32	1,006,529.93 912,038.71 111,720.43 35,228.51 178,753.11	26,320,09 66,139.30 20,690.27 38,292.47 23,184.82	72.168.20 17.337.23 40.085.29 33,472.40 23,835.19	14.047.01 62,120.17 197,611.12 45,349.76	30,055.78 965,046.46 671,213.36 1,573,606.73 1,861,440.17
Miscel- laneous	\$ 2,605.83 2,147.65 301.18 271.97 236.20	269.44 623.98 453.00 530.40	27,415.87 27,637.74 1,513.48 1,623.03 789.94	895.72 369.56 877.90 148.69 491.20	80.20 211.60 110.35 542.75 161.82	101.95 518.00 4,026.62 481.70	${ \begin{smallmatrix} 1,232.13\\ 15,182.87\\ 4,467.90\\ 25,743.45\\ 26,459.62\\ \end{split} }$
Interest and Exchange	\$ 1,767.09 155.87 47.35 564.21 223.79	2,307.22 546.28 10,171.31 2,701.06	10,474.16 12,662.88 15,453.75	52.41 335.54 20.11 69.33	2,164.21 3.63 1,852.55 9.91	3,734.20 38.49 2,103.76	174.53 4.375.18 19.229.94 29.539.77 90.659.86
Repairs and Replace- ments	\$ 476.79 1,575.71 2,239.38 3,806.06 634.96	464.83 716.88 7.653.45 6,888.07	32,056.63 37,044.76 777.23 1,248.06 1,617.63	3,209.27 636.81 1,709.14 279.60	2,685.86 1,266.09 1,596.88 2,903.66 1,424.73	245.00 3.521.91 9.653.33 1,368.18	3,464.77 24,394.58 12,779.60 37,928.90 71,931.63
Deprecia-	\$ 3,102.25 3,286.34 1,309.00 2,287.29 1,850.00	1,953.77 1,000.00 17,183.12 3,820.00	80,510.12 569.00 20,426.45	301.13 2,302.63 1,977.53	$ \begin{array}{c} 3,440.59\\ 461.26\\ 7,100.00\\ 2,147.48\\ 3,552.32\end{array} $	6,712.07 5,712.07 4,305.70	84,159.34 50,046.83 21,900.15
Insurance	\$ 560.18 1.830.96 298.76 214.22 166.19	336.40 303.40 261.92 395.88	4,950.59 9,048.20 507.02 116.72 942.52	392.93 350.82 53.33 109.33	364.49 50.00 422.00 194.78 225.00	46.15 425.64 1,551.19 493.18	$\begin{array}{c} 82.60\\ 13.041.60\\ 5.481.66\\ 44.046.43\\ 4.680.20\end{array}$
Purchased Services	\$ 2,647.52 4,667.55 3,194.87 4,082.09 1,258.71	1,322.34 1,612.38 3,422.74 2,082.35 2,777.62	18,767.18 18,504.71 4,484.19 2,505.29 7,048.35	1,618.24 3,256.50 1,125.13 1,712.34 1,679.16	3.065.73 529.12 1,472.67 1,446.90 1,564.56	$1,066.65\\1,744.40\\8,407.35\\2,720.58$	694.96 15,581.65 18,949.51 29,344.38 29,347.26
Supplies	\$ 17.526.72 59,200.24 25,928.90 13.271.26 11,142.96	11.777.70 7.395.35 47.963.70 16.147.81 24,108.62	357,026.02 287,438.95 31,249.67 10,943.08 47,795.56	9.242.03 27,630.57 6,505.03 22,594.97 8,441.77	$\begin{array}{c} 26,118.47\\ 4,667.79\\ 10,716.48\\ 10,813.62\\ 10,527.25\\ \end{array}$	8,477.26 18,251.40 73,279.16 16,289.26	12,628,24 308,397.15 272,170.76 523,920.72 639,267.30
Salaries and Wages	\$ 23,750.81 84,663.09 28,919.65 18,234.51 12,029.00	11,642.09 11,498.65 65,171.94 26,513.45 37,007.67	555,839.48 439,191.35 73,188.84 18,223.33 84,678.91	$\begin{array}{c} 14,210.56\\ 28,642.30\\ 11,174.47\\ 12,074.00\\ 10,136.90\end{array}$	34.248.65 10,147.74 16,814.36 15,397.93 6,369.60	3.750.00 27,212.55 94,942.23 17,587.40	11,778.55 499,914.09 288,087.16 861,182.93 998,494.30
Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass Municipal Bonnyville, St. Louis Brooks, Municipal	Calgary, General Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace Camrose, St. Mary's	Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary Cereal, Municipal	Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal Daysland, Providence	Desmarals, St. Martin's	Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University of Alberta

TABLE No. 4-OPERATING EXPENDITURES

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DEPARTMENT OF PUBLIC HEALTH

53,184,47	41,322.65	34,699.11	33,022.69	263,881.17	31,042.76	34,493.67	60.962.61
50,250,57	43,840.20	94,203.40	48,432.77	10,475.73	26,599.82	39,933.95	70.058.51
30,058,66	27,726.72	90,384.02	117,892.81	333,440.98	38,490.07	79,228.15	43.703.26
33,533,98	117,307.92	61,471.86	46,973.23	58,405.91	55,530.19	28,104.41	27.472.26
30,147.70	70,161.66	22,664.94	156,518.05	67,028.43	369,415.71	89,075.74	31.585.28
406.04 500.00 1.774.40 632.70	1,111.26 134.79 179.50 10,985.03 672.16	301.69 1,405.89 849.00 1,885.82	250.70 355.02 416.40 590.53 4,579.65	1,953.26 122.99 2,329.08 3,05.00 3,121.02	692.60 418.97 3.167.96 337.84 91.90	4,388.07 621.40 445.62 130.00 916.40	560.85 217.42 239.40 153.21
44.81 85.16 2.271.54 1.55	2,982.72 3,576.10 373.20 452.24	$\substack{1,456.75\\210.00\\111.11\\7.42}$	2,500.00 2,405.20 4,698.31 100.07	293.79 8.735.46 477.92 300.00	89.13 3.93 4,490.88 1,731.53	1,345.31 4,331.24 718.49 3,121.10	6,800.25 4,080.09 1,642.17
4.360.12	587.69	1,316.35	2,299.76	9,400.58	$\begin{array}{c} 558.56 \\ 1.045.44 \\ 2.019.92 \\ 1.095.70 \\ 5.517.99 \end{array}$	3,148.09	10,774.62
2.189.90	1,993.05	1,567.64	3,087.03	1,952.25		813.63	3,649.98
3.275.70	1,028.21	2,107.64	1,608.55	6,409.19		3,654.52	1,846.29
2.941.63	312.19	3,051.02	2,641.80	2,190.53		3,113.41	180.88
700.35	2,734.78	963.64	3,432.64	5,137.75		2,586.31	341.97
4,605.62 2,300.00	3,380.00 5,329.12 1,338.17 11,883.98 2,207.57	1,849.62 4,880.06 4,509.85 2,471.60 896.75	1,062.51 3,311.27 11,219.70 1,934.10	1,575.24 12,040.40 2,957.58 4,989.59	1,245.64 3,111.63 1,536.54 5,839.33 4,934.81	$\begin{array}{c} 1.922.17\\ 2.348.63\\ 9.441.57\\ 1.744.26\\ 9.922.00\end{array}$	1,408,42 8,955,87 1,559,95 1,645,96
280.88 312.50 702.30 835.76 630.54	50.00 1,332.50 371.17	20.94 557.20 626.55 356.60 189.99	540.00 230.00 870.00 60.00	708.47 21.61 1,213.08 436.06 746.64	128.03 92.30 126.73 546.60 2.083.66	74.10 186.75 555.22 176.14 434.75	788.99 722.58 248.77 15.00 170.74
2.517.32	$1,512.33\\868.00\\869.99\\4,314.10\\2,810.72$	1,233.56	1,000.20	8,619.14	1,565.91	813.21	1,555.79
4.670.99		3,861.21	1,396.68	507.20	1,345.04	1,775.70	1,798.62
1.208.72		4,663.94	4,718.29	8,264.39	2,337.73	3,070.01	2,541.34
931.72		2,863.15	2,250.81	1,358.87	2,859.32	1,430.88	1,528.17
2.244.16		1,172.73	8,836.14	1,808.18	15,078.24	5,186.78	1,478.97
17.397.23 20,596.36 8,605.39 13,762.57 15,279.68	$\begin{array}{c} 13.624.42\\ 21.105.82\\ 9.001.71\\ 41.526.02\\ 23.297.80\end{array}$	14.096.25 36.196.00 31.010.60 25.053.60 6.944.78	$\begin{array}{c} 12.170.92\\ 17.397.80\\ 41.567.25\\ 12.730.99\\ 65.649.86\end{array}$	129,013.01 2,711.99 123,450.51 26,000.23 24,037.13	10.736.35 10.861.63 12.814.58 21.851.03 187,322.14	11,656.77 13,370.64 26,231.77 9,194.31 29,394.60	19,033.34 18,528.56 16,304.14 11,251.29 12,017.44
23.572.45	18,074.23	15,878.77	13,198.60	112.317.68	16,026.54	11,145.95	20,601.20
21.895.66	10,833.32	44,278.65	20,249.77	5.159.69	9,724.81	20,817.20	31,761.96
12.220.61	14,067.80	47,255.44	52,147.47	170.998.87	16,482.68	31,498.20	20,985.35
15.037.30	46,580.90	26,715.78	25,954.00	24.679.72	18,509.49	11,596.92	13,221.80
17.358.72	37,615.22	10,603.81	73,859.69	26.888.12	152,655.34	37,513.80	14,134.82
Edson, St. John's	Ft. McMurray, St. Gabriel's	Hardisty, St. Anne's	Jasper, Seton	Lethbridge, Galt	Magrath, Municipal	Mundare, General	Pincher Creek, St. Vincent's
Elk Point, Municipal	Fort Vermilion. St. Theresa	High Prairie, Providence	Killam, General	Lethbridge, Isolation	Manning, Battle River	Myrnam, Municipal	Ponoka, Municipal
Elnora, Municipal	Galahad, St. Joseph's	High River, Municipal	Lacombe, Municipal	Lethbridge, St. Michael's General	Mannville, Municipal	Olds, Municipal	Provost, Municipal
Empres, Municipal	Grande Prairie, Municipal	Innisfail, Municipal	Lac la Biche, St. Catherine's	Macleod, Municipal	Mayerthorpe, Municipal	Oyen, Municipal	Radway, St. Joseph's
Fairview, Municipal	Hanna, Municipal	Islay, Municipal	Lamont, Archer Memorial	McLennan, Sacred Heart	Medicine Hat, General	Peace River, Municipal	Raymond, Municipal

Hospitals	Salaries and Wages	Supplies	Purchased Services	Insurance	Deprecia- tion	Repairs and Replace- ments	Interest and Exchange	Miscel- laneous	Total Expenditure
Red Deer, Municipal	83,774.88	55,447.94	10.179.68	1,089.93	9,300.51	4.275.51	6,187.81	1,633.20	
kimbey, Municipal Rocky Mountain House, Municipal	24,036.12	17,963.50	3.627.19	377.81	8.926.32		5,542.41	135.70	
Smoky Lake, George McDougall	11.803.36	6,943.87	1,601.54		3,149.91	440.35		231.49	24,206.61
11 MACL, MULT CLOSS	00.022,06	6T.646.01	10.02012	07.111	2,300.00		1,462.10	4,862.45	62,855.63
Stettler, Municipal	65,896.99	57,887.33	2,990.86	1.098.44	7,991.06	2,242.68	5,646.10	1,113.05	
St. Faul, St. Ineresa Taher. Municinal	43,197.15	28,275.12	3,001.18	308.28	4.335.35	11,597.23	1,523.43	748.92	
Three Hills, Municipal	26.044.60	16.902.81	3.927.33	637.38	75.616,6	11.110	2,808.18	10 90	
Tofield, Municipal	18,302.49	15,737.93	1,502.26	374.32	7,611.01	2,863.86	4,660.76	133.60	51,186.23
hu, St. Mary's	16.988.00	8.174.78	1,150.96	203.31	1.876.35	1.888.09	15	100.02	
Turner Valley, Olifields General	18,320.16	18,975.17	1.297.32	154.45	805.91	11.771.1	89.43	1,665.33	42,484.88
Two Hills, Municipal Vegravilla Canaral	22,908.85	16,694.46	2,759.02	453.47	7,124.86	1,045.45	4,616.81	1,583.00	
	25,282.64	17,737.12	3.247.87	00.069	4,178.26	3,414.59	523.05	143.65	130,251.16
Viking Municinal	10 000 57	11 971 64	1 690 44	OF A PO	010 010	1 100 10			
Vilna, Our Lady's	12,604.12	8,280.69	149.14	414.55	1,479.18	1.377.67	17.58	914.99	24.948.04
Vulcan, Municipal	25,688.81		3,224.17	311.12	5,236.50	1,412.80	2,546.61		
Westlock. Immaculata	41 663.48	30.111.92	3,233.46	1,333.30	16,109.92	4,806.88	7,990.88	480.16	
Wetaskiwin, Community	39,695.37		4,798.80	843.94	7.020.91	2.955.77	02'012'0	746.05	
Willingdon, General	16.031.80	10,288.91	762.02	156.97	2,136.14	2,102.01	12.57	5,335.30	36,825.72
Total	\$6,456,736.20	\$4,662,889.84	\$ 390,495.45	\$ 121.215.94	\$ 593,419.83	\$ 476,169.50	\$ 328,960.87	\$ 218,125.18	\$13,248,012.81
Hospitals in Operation for part of the									
year: Glendon, Municipal (7 months)	6,261.65	4,360.00	1,367.85	194.00			2,542.98	4,185.45	18,911.93
and the second sec								1000	
	\$6,462,997.85	\$4,667,249.84	\$ 391,863.30	\$121,409.94	\$ 593.419.83	\$ 476.169.50	S 331.503.85	\$ 222 310 63	\$12 966 G94 74

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DEPARTMENT OF PUBLIC HEALTH

Hospitals not Reporting: Cadomin, General; Medicine Hat, Isolation; Nordegg, General.

Total Revenue	\$ 51.040.18 157.289.35 57.289.38 50.739.70 29.510.85	30,357,66 31,348,46 155,147.39 40,328,60 79,773.91	932,957,23 894,160.08 111,720,43 35,131,16 145,374,88	45,456.72 70,006.29 20,569.88 30,801.80 25,442.28	78.845.68 9.030.00 40.630.12 39.945.77 21,239.49	12.781.85 69.781.17 224.381.98 53.787.97	30,334.96 946,104,42 780,149.00 1,573,606.73 1,901,899,45
Other Revenue	\$ 120.00 265.13 265.13 12,513.93 720.94	709.35 139.14 45.00	11,192,43 17,344.39 1,200.51	44.74 265.03 2,046.80 380.44	36,933.01 429.79 21,554.38 1,008.00 1,193.98	2,065.00 1,086.27 837.97 1,319.94	10,160.70 26,248.20 25,960.15 20,901.58
Out-Patient Earnings	\$ 20,004.60 1,013.05 1,774.60	1,073.75	10,222.75 11,887.69	3,080.12 732.74	1,699.12 1,365.77	514.85 1,681.67 1,518.00	5,399.05 33,893.51 100.071.76
Grants	\$ 33,409.08 8,695.40 6,524.71 22,328.22 15,011.65	$\begin{array}{c} 17,849.76\\ 17,838.45\\ 16,242.45\\ 6,201.70\\ 50,200.10\end{array}$	331,342.29 75,190.70 94,376.04 19,540.82 14,151.20	3,096.60 45,918.00 14,416.50 14,650 14,871.65	9.921.25 1.082.00 4.974.30 25,260.65 2,313.50	$\begin{array}{c} 5,338.50\\ 44,219.55\\ 114,370.60\\ 33,192.25\end{array}$	$\begin{array}{c} 10.863.40\\ 69.770.70\\ 89.513.35\\ 252.954.99\\ 273.048.41\end{array}$
Net Earnings	\$ 17,511.10 125,983.46 50,563.82 14,884.50 12,003.66	$\begin{array}{c} 11.798.55\\ 13.510.01\\ 13.510.01\\ 138.765.80\\ 33.008.15\\ 28.918.63\end{array}$	591,392.19 795,889.26 15,590.34 130,023.17	$\begin{array}{c} 42.360.12\\ 20.963.43\\ 5.888.35\\ 24.686.00\\ 9,457.45\end{array}$	30,292.30 7,518.21 12,735.67 13,677.12 17,732.01	4,863.50 22,793.68 109,173.41 17,757.78	9,310,86 850,085,52 659,276,45 1,265,856,65 1,528,779,28
Deductions	\$ 2.000.00 14,196.78 3.332.60 14,061.84 91.80	$\begin{array}{c} 6.634.07\\ 15.879.92\\ 42.386.57\\ 10.278.35\\ 21.233.22\end{array}$	338,527.99 114,297.33 3,441.40 15,890.22	19.791.77 5.238.00 4.250.56	28.323.30 1,467.00 11,552.55 1,403.28	$\begin{array}{c} 7,800.50\\ 16,457.07\\ 55,099.48\\ 15,202.47\end{array}$	$\begin{array}{c} 107.212.36\\ 70.691.50\\ 231.120.78\\ 162.236.48 \end{array}$
Gross Earnings	\$ 19,511.10 140,180.24 53,896.42 28,946.34 12,095.46	$\begin{array}{c} 18,432.62\\ 29,389.93\\ 181,152.37\\ 43,286.50\\ 50,151.85\end{array}$	929,920.18 910,186.59 19,031.74 145,913.39	40.755.20 5,888.35 29,924.00 13,708.01	58,615.60 8,985.21 12,735.67 25,229.67 19,135.29	$\begin{array}{c} 12,664.00\\ 39,250.75\\ 164,272.89\\ 32,960.25\end{array}$	957,297.88 729,967.95 1,496,977.43 1,691,015.76
Special Services	llable \$ 30,287.24 6.355.64 4,242.91	$\begin{array}{c} 6.632.02\\ 3.823.11\\ 104.963.82\\ 6.959.30\\ 14.945.55\end{array}$	284,260.36 315,367.07 2,785.20 53,763.09	Not available 8.793.20 6.055.80 2.379.21	7.794.55 1.349.71 2.470.87 4.739.17 5.517.28	9,515.50 9,515.50 57,408.05 6,771.25	Not available 280,817.54 253,028.01 472,428.13 512,798.31
Day Rate Services	\$ 109.893.00 \$ 3 35,133.90 \$ 3 7.852.55	11,800.60 25,566.82 76,188.55 36,327.20 35,206.30	645,659.82 594,819.52 16,246.54 92,150.30	31,962.00 5,849.35 23,868.20 11,328.80	$\begin{array}{c} 50.821.05\\ 7.635.50\\ 10.264.80\\ 20.490.50\\ 13,618.01 \end{array}$	$\begin{array}{c} 11.904.00\\ 29.735.25\\ 106,864.84\\ 26,189.00 \end{array}$	676,480.34 476,939.94 1,024,549.30 1,178,217.45
Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass Municipal Bonnyville, St. Louis Brooks, Municipal	Calgary, General Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace Camrose, St. Mary's	Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary Cereal, Municipal	Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal Daysland, Providence	Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal	Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University of Alberta

TABLE No. 5-OPERATING REVENUE

ANNUAL REPORT, 1950

Total Revenue	51,208.45 56,676.71 30,306.67 30,553.34 50,508.38	25,688,66 45,324,32 28,091,57 113,160,51 66,959,15	26,942.41 119,525.32 98,606.98 71,056.15 23,334.14	33.948.71 40.264.50 116.240.55 39.082.00 140,439.94	264,874.09 74,857.25 356,597.15 63,809.76 61,949.68	32.831.78 28.843.97 38.903.95 60.883.30 362,097.97	34,423.88 44,279.93 70,482.52 35,361.28 95,139.48
Other Revenue	105.77 1,231.66 17,588.02 270.20 1,199.00	3.075.54 2.107.00 2.223.26	752.08 2.766.68 4.740.00 1.525.22 307.49	7.789.39 2.018.05 2.883.00 50.00 13,141.15	4,265.48 3,152.24 20,140.58	395.36 10.423.75 1,221.00 4,206.14	5,641.22 422.00 1,015.00 912.26 1,405.70
Out-Patient Earnings	1,739.43	100.00	5,954.91	2,137.80 911.16 1,702.10	1,780.85	808.01 505.90 1,662.06	753.37
Grants	$\begin{array}{c} 5.987.80\\ 30.910.70\\ 3.057.55\\ 10.200.70\\ 29.018.65\end{array}$	$\begin{array}{c} 1.999.40\\ 1.446.90\\ 3.314.00\\ 61.956.76\\ 39.692.56\end{array}$	4,025.00 11,169.20 56,617.00 53,040.85 19,831.60	5,511.38 5,248.80 66,072.51 6,179.80 11,655.38	36,652.77 1.085.50 29,212.40 28,402.36 7,359.80	$\begin{array}{c} 22,203.82\\ 2,907.60\\ 24,659.48\\ 36,410.06\\ 115,542.69\end{array}$	3,454.50 31,149.50 38,961.95 24,972.94 53,252.53
Earnings	45,114.88 24,534.35 9,661.10 20,082.44 18,551.30	20,613.72 43,777.42 22,670.57 50,598.89 25,043.33	22,165.33 99,634.53 37,249.98 16,490.08 2,922.05	18,510.14 32,997.65 46,373.88 31,150.10 115,643.41	$\begin{array}{c} 222,174.99\\ 6,768.75\\ 324,232.51\\ 35,407.40\\ 33,913.30\end{array}$	9,424.59 15,512.62 12,517.57 22,811.18 242,349.14	24,574.79 12,708.43 29,798.09 9,476.08 40,481.25
Deductions	$\begin{array}{c} 6.066.49\\ 5.691.85\\ 5.691.85\\ 8.198.20\\ 21.273.85\end{array}$	2.783.56 9.727.58 3.381.96 45.281.83 17.291.17	4.213.33 22.452.74 34.477.04 10.939.15	3.000.76 7.101.67 28,723.32 3.379.25 7,702.37	34,680.37 21,261.59 8,549.25 13,237.54	6.394.10 2.973.38 12,386.99 16,458.37 8,449.13	4,116.34 7,811.70 19,081.40 6,170.40 30,515.52
Gross Earnings	51,181.37 48,615.15 15,352.95 28,280.64 39,825.15	23,397,28 53,505.00 26,052.53 95,880.72 42,334.50	26,378.66 122,087.27 711,727.02 16,490.08 13,861.20	21,510.90 40,099.32 75,097.20 34,529.35 123,345.78	256,855.36 345,494.10 43,956.65 47,150.84	$\begin{array}{c} 15,818.69\\ 18,486.00\\ 24,904.56\\ 39,269.55\\ 250,798.27\end{array}$	28,691.13 20,520.13 48,879.49 15,646.48 70,996.77
Special Services	14,904.63 6,570.65 2,882.20 5,685.14 9,178.05	3.221.92 8.817.60 7.752.83 27,000.32 11,808.50	6,499.61 30,184.02 14,113.92 6,422.39 2,753.85	6.277.96 11,887.36 14,945.35 9.777.85 30,021.78	Not available 5,504.35 10,713.22	4,177.00 5,801.70 3,297.26 9,770.55 60,639.57	4,172.53 5,922.23 10,156.64 2,341.65 19,181.47
Day Rate Services	36.276.74 42,044.50 12,470.75 22,595.50 30,647.10	20.175.36 44,687.40 18,299.70 68,880.40 30,526.00	19,879.05 91,903.25 57,613.10 10,067.69 11,107.35	15,232.94 28,211.96 60,151.85 24,751.50 93,324.00	184,172.70 209,138,40 38,452.30 36,437.62	11,641.69 12,684.30 21,607.30 29,499.00 29,499.00 190,158.70	24,518.60 14,597.90 38,722.85 13,304.83 51,815.30
Hospitals	Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal Fairview, Municipal	Ft. McMurray, St. Gabriel's Fort Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Hanna, Municipal	Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal Islay, Municipal	Jasper, Seton Killam, General Lacombe, Municipal Lac la Biche, St. Catherine's Lamont, Archer Memorial	Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's General Macleod, Municipal McLennan, Sacred Heart	Magrath, Municipal Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General	Mundare, General Myrnam, Municipal Olds, Municipal Oyen, Municipal Peace River, Municipal

TABLE No 5-OPERATING REVENUE-Continued

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DEPARTMENT OF PUBLIC HEALTH

68,461.52 71,174,41 51,497.55 27,660.56 34,371.75	181,455.80 56,898.11 51,887.90 20,654.20 59,345.02	140,271.39 80,735.03 87,227.64 62,885.81 53,257.44	29,308.21 42,525.87 63,303.94 132,829.09 51,811.20	39,097.72 18,071.60 66,347.54 112,472.41 104,354.20	88,159.94	\$13,378,434.45	16,980.65	\$13,395,415.10
14.040.00 2.059.58 714.75	11.757.32 988.00 570.00 902.67 4,915.00	210.71 2.974.01 365.92	12,782.32 572.00 1,834.25	1.599.93 345.64 17,634.92	74.87 14,147.80	\$ 404,093.44	156.84	\$ 404,250.28
1,863.95 2,108.17 450.02	2.291.82 1,666.88	2,394.03	1,170.16 1,231.85 4,440.25	545.05 1,143.35 247.50 4,281.66 1,625.63	187.35	\$ 247,091.36	235.53	\$ 247,326.89
13.673.65 41,532.25 32,322.55 3.759.70 25,033.67	73.950.24 33.945.70 28,400.50 5,867.40 15,651.00	81,787.46 17,653.81 39,608.11 35,535.36 35,586.85	$\begin{array}{c} 1,964.20\\ 4,928.20\\ 45,147.35\\ 13,880.90\\ 28,516.60\end{array}$	26,937.05 2,496.90 46,762.55 57,588.32 11,846.65	9,522.80 2,489.80	\$3,367,654.78	14,141.68	\$3,381,796.46
40.747.87 25.718.63 19.175.00 21.077.94 8.888.06	93,456.42 20,297.53 22,917.40 13,884.13 38,779.02	55,879.19 63,081.22 44,645.52 22,817.39 17,304.67	13.391.53 37.597.67 16.352.74 114.507.94 21,460.35	10,893.62 12,831.42 18,991.85 50,602.43 73,247.00	78,374.92 23,687.14	\$9,359,594.87	2,446.60	\$9,362,041.47
$\begin{array}{c} 5.092.67\\ 22.731.77\\ 14.143.67\\ 4.966.20\\ 111.103.50\end{array}$	49,571.58 14,154.03 17,826.79 978.13 10,558.36	58,442.41 14,920.86 18,349.53 8,988.21 19,967.43	$\begin{array}{c} 1.798.22\\ 6.044.00\\ 12.541.16\\ 32.682.46\\ 20.255.15\end{array}$	14.451.78 2986.56 24.928.65 26.526.94 7.533.43	10.969.61	\$2,233,653.82	1,464.96	\$2,235,118.78
45,840.54 48,450.40 33,318.67 26,044.14 19,991.56	143,028.00 34,451.56 40,744.19 14,862.26 49,337.38	114,321,60 78,002,08 62,995,05 31,805,60 37,272,10	15,189.75 43,641,67 28,893.90 147,190.40 41,715.50	25,345.40 15,3207.98 43,920.50 77,129.37 80,780.43	89,344.53 26,875.67	\$11,534,808.96	3,911.56	\$11,538,720.52
9,920.34 14,003.90 11,594.17 6,557.89 5,948.56	36,016,50 8,218,31 7,812,69 4,889,16 13,540,33	31,380,50 18,844,58 15,776,85 8,568,85 9,790,57	3,452,80 19,624,92 7,135,00 44,348,80 7,407,00	$\begin{array}{c} 5.279.90\\ 4.376.98\\ 10.451.60\\ 21.894.52\\ 22.542.93\end{array}$	23,600.04 6,093.67	\$3,446,307.23	709.46	\$3,447,016.69
35,920.20 34,446.50 21,724.50 19,486.25 14,043.00	107,011.50 26,233.25 32,931.50 9,973.10 35,797.05	82,941.10 59,157.50 47,218.20 23,236.75 27,481.53	$\begin{array}{c} 11.736.95\\ 24.016.75\\ 21.758.90\\ 102.841.60\\ 34.308.50\end{array}$	$\begin{array}{c} 20,065.50\\ 11,441.00\\ 33,468.90\\ 55,234.85\\ 58,237.50 \end{array}$	65,744.49 20,782.00	\$8,068,990.63	3,202.10	\$8,072,192.73
Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's Raymond, Municipal	Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougall Spirit River, Holy Cross	Stettler, Municipal St. Paul, St. Theresa Taber, Municipal Three Hills, Municipal Tofield, Municipal	Trochu, St. Mary's Turner Valley, Olifields General Two Hills, Municipal Vegreville, General Vermilion, Municipal	Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata	Wetaskiwin, Community Willingdon, General	Total	Hospitais in Operation for part of une year: Glendon, Municipal (7 months)	Grand Total

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	Revenue per per day	6.98 8.24 6.12 8.55 8.53	9.53 6.88 9.64 9.16	7.42 8.29 6.99 6.99	15.75 8.20 11.86 5.27 9.27	6.85 3.89 7.87 7.95 5.87	4.09 9.76 9.38 8.34	7.59 6.90 8.46 8.68 10.56
	Miscel- laneous	50 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	0.9 0.7 0.7	2.7 3.0 4.6 0.4 0.4	3.4 0.6 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	0.1 1.2 0.3 0.7	0.7 0.8 1.1	4.1 1.6 0.7 1.4
	Interest and Exchange	3.4 0.1 0.8 0.8	351 12 351 12 351	1.0 1.4 8.7	0.2 0.5 0.1	3.0 0.0 0.1 0.0	6.0 0.0 4.6	0.6 0.5 1.9 4.9
	Repairs and Replace- ments	0.9 3.5 8.3 8 2.3 9 8 8 3.5 9 8 8 9 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9	1.5 3.0 14.4 8.8	3.2 0.9 3.6 0.9	318 318 125	3.7 7.3 8.7 6.0	1.7 5.7 3.0 9.9	11.5 2.5 3.9 3.9 3.9
of Cost	Deprecia- tion	623 277 623 779 623 779 623 779 623 779 623 779 623 779 623 779 623 779 623 779 623 779 623 779 625 779 625 779 779 779 779 779 779 779 779 779 77	6.5 11.9 4.9	8.8 1.6 11.4	3.5	4.8 2.7 17.7 6.4 14.9	2.6 2.9 9.5	1787 144 1
Percentage of Cost	Insurance	1.1 1.2 0.5 0.5	11 055 055 055	0.5 0.4 0.3 0.3	0.6 0.1 0.1 0.5	0.3 0.3 0.9 0.9 0.9	0.3 0.7 0.8	0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38
	Purchased Services	692199 991199 991199	448 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	1.9 2.0 7.1 1.1 1.0 4.0	99595 297925 297925	4.2 3.1 6.6 8 3.7	6.03 6.03 6.03 6.03 6.03	23 16 16 16 16 16 16 16 16 16 16 16 16 16
	Supplies	33.4 37.6 41.7 31.1 40.4	39.2 33.2 30.4 33.2 3 3 3.2 3 3 3.2 3 3 3.2 3 3 3 3	35.5 31.5 28.0 28.1 26.7 26.7	35.1 41.8 31.5 59.0 36.4	36.2 26.9 22.3 26.1 41.2 41.2	60.4 29.4 37.1 35.9	42.0 33.5 34.3 34.3 34.3 34.3 34.3 34.3 34.3
	Salaries and Wages	45.3 45.3 42.7 43.7	38.7 48.5 49.9 47.3	55.2 655.2 51.7 51.7 7.4	54.0 53.3 314.0 314.0 43.7 43.7 43.7 43.7 43.7 43.7 43.7 43.7	47.5 58.5 58.5 56.0 266.0 266.0	26.1 43.8 38.8 38.8	39.2 51.1 53.6 53.6
	Operating Cost Per Patient Per Day	\$ 7.17 8.38 6.65 7.63 8.24	9.45 5.20 8.94 8.99 8.99	8.00 5.56 5.02 8.60	9.12 7.74 6.155 8.45	6.27 7.48 7.77 6.58 6.58	4.50 8.69 8.26 7.03	7.52 7.03 7.28 8.68 10.34
	Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass. Mun. Bonnyville, St. Louis Brooks, Municipal	Calgary, General Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace Camrose, St. Mary's	Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary Cereal, Municipal	Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal Daysland, Providence	Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal	Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University of Alberta

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TABLE No. 6

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DEPARTMENT OF PUBLIC HEALTH

5.76 5.54 6.15 6.15 7.64 4.42 5.95 5.92 5.92 5.92 5.92 5.92 5.92 $\begin{array}{c} 5.06\\ 6.02\\ 6.92\\ 7.39\\ 7.39\\ 7.39\\ 7.39\\ 7.39\\ 7.39\\ 7.39\\ 7.39\\ 7.39\\ 7.39\\ 8.19\\ 8.89\\ 8.89\\ 8.89\\ 8.89\\ 8.89\\ 8.89\\ 8.89\\ 9.51\\ 8.89\\ 8.89\\ 9.51\\ 8.89\\ 9.51\\ 8.19\\ 9.51\\ 8.19\\ 9.51\\ 8.19\\ 9.51\\ 10.87\\ 8.19\\ 9.51\\ 9.50\\ 10.87\\ 8.19\\ 9.51\\ 9.50\\ 10.87\\ 8.19\\ 9.51\\ 9.50\\ 10.87\\ 8.19\\ 9.51\\ 10.87\\ 8.19\\ 9.51\\ 10.87\\ 8.19\\ 9.51\\ 10.87\\ 8.19\\ 9.51\\ 10.87\\ 10.87\\ 10.89\\ 10.$ $\begin{array}{c} 0.08\\ 1.6\\ 0.1\\ 0.05\\ 0.07\\ 0$ 0.50 0.5 0.1 0.1 0.1 0.1 0.5 0.5 0.5 444.84 444.84 444.84 444.84 444.84 444.84 444.85 355.55 444.85 355.55 444.85 355.55 444.85 355.55 444.85 355.55 444.85 355.55 444.85 355.55 355.55 444.85 355.55 35 Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's General Mackeod, Municipal McLennan, Sacred Heart Pincher Creek, St. Vincent's ... Ponoka, Municipal Provost, Municipal Radway, St. Joseph's Raymond, Municipal Jasper, Seton Killam, General Lacombe, Municipal Lac la Biche, St. Catherine's Lanont, Archer Memorial Ft. McMurray, St. Gabriel's Fort Vermilion, St. Theresa Galahad, St. Joseph's Grande Prairie, Municipal Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal Islay, Municipal Magrath, Municipal Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Mundare, General Myrnam, Municipal Olds, Municipal Oyen, Municipal Peace River, Municipal Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal Fairview, Municipal

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			0.11		Percentage of Cost	of Cost			NO.	
Hospitals	Operating Cost Per Patient Per Day	Salaries and Wages	Supplies	Purchased Services	Insurance	Deprecia- tion	Repairs and Replace- ments	Interest and Exchange	Miscel- laneous	Revenue per per day
Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougall Spirit River, Holy Cross	7.41 9.25 6.05 8.07 6.34	48.7 39.5 46.9 48.8 48.1	9 4 9 9 9 9 8 8 9 9 8 8 8 9 8 9 8 9 8 9 8 9	5.9 7.9 8.6 3.2	0.6 0.8 0.8	5.4 14.6 3.7 3.7 3.7	255 118 39	3.6 9.1 2.3 2.3	1.0 0.2 0.1 1.0 7.7	7.82 8.64 6.83 6.88 5.99
Stettler, Municipal St. Paul, St. Theresa Taber, Municipal Three Hills, Municipal Tofield, Municipal	7.53 6.11 6.18 10.64 8.42	45.5 465.5 51.6 35.8 35.8	40.0 30.4 32.5 27.1 30.7	55555 172855 172855	0.7 0.2 0.2 0.7	5.5 15.7 14.9	125 125 1.1 5.6	3.9 1.6 6.2 9.1	0.8 0.9 0.9 0.9	7.29 5.30 10.72 8.76
Trochu, St. Mary's Turner Valley, Olifields General Two Hills, Municipal Vegreville, General Vermilion, Municipal	11.33 6.83 6.35 6.13 6.13	55.9 43.1 36.4 45.8	26.9 44.7 244.2 32.1	388 268 268 268 268 268 268 268 268 268 2	0.7 0.8 0.8 1.2 2.2 1.2	62 19 124 81 7.6	668886 18886 18886	0.0 8.1 0.1 0.0	008890	10.93 6.84 11.95 6.48 6.48 6.48 5.75
Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal Westlock, İmmaculata	7.41 6.87 7.66 8.71 7.95	53.8 50.5 37.1 34.0	32.0 332.0 31.7 24.6 24.6	44 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	0.1	22 59 194 194	8,4,7,4,8 8,4,7,4,8 9,4,7,4,8	0.3 1451 682 882 882 882 882 882 882 882 882 882	2.5 0.4 0.4	7.82 4.98 9.03 8.78 6.77
Wetaskiwin, Community Willingdon, General	5.47	46.9 43.5	33.7 28.0	5.7 2.1	1.0	8.3 8.8	3.5	0.0	0.9	5.70
Total	7.95	48.7	35.2	3.0	0.9	4.5	3.6	2.5	1.6	7.87
Hospitals in operation for only part of the year: Glendon, Municipal (7 months)	22.27	33.1	23.1	7.2	1.0	• 1		13.5	22.1	20.00
							ALL MADE LAND			

TABLE No. 6-Continued

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DEPARTMENT OF PUBLIC HEALTH

Not Reporting: Cadomin, General; Medicine Hat, Isolation; Nordegg, General.

		70c Grant		Materni	Maternity Grant	Pension	Pension Grant	
Hospitals	Grant Days	Non-Grant Days	Amount	Grant Days	Amount	Grant Days	Amount	Total Amount
Athabasca, Municipal Banff, Mineral Sperings Banrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	7,170 12,422 9,321 5,381 3,317	145 6,377 223 25 25	\$ 5,019.00 8,695.40 6,524.70 3,766.70 2,321.90	1,518 389 1,417 660 567	\$ 5,692.50 1,711.60 5,738.85 2,673.00 2,126.25	667 370 1,049 249	\$ 2.934.80 1,720.50 4.615.60 2.327.60 1,095.60	\$ 13.646.30 12,127.50 16.879.15 8.767.30 5,543.75
Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass, Municipal Bonnyville, St! Louis Brooks, Municipal Cadomin, General	3.077 4.531 15.808 8.897 8.342 1.342	107 23 23 873 364 39	2,153,90 3,171.70 3,171.70 6,227.90 5,839.40 939.40	446 692 1.566 1.727 1.372 448	1,806.30 2,595.00 6,890.40 6,994.35 5,909.40 1,814.40	96 1,409 1,528 1,528	384.00 1.958.00 6.551.85 6.723.20 558.80	4.344.20 7.724.70 24.507.85 19.945.45 12.307.60 2,753.80
Calgary, General Calgary, Isolation Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Salvation Army Grace	110,198 8,151 101,001 6,820 6,082	7,322 71 6.798 13,269 939	$\begin{array}{c} 77.138.60\\ 5.705.70\\ 70.700.70\\ 4.774.00\\ 4.257.40\end{array}$	15,580 13,666 2,548	85,690.00 75,163.00 11,211.20	9,694	54,286.40 36,820.00	217,115.00 5,705.70 182,683.70 4,774.00 15,468.60
Camrose, St. Mary's Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	20,170 2,878 8,462 8,462 5,793	622 79 53 8 53 8 53	$\begin{array}{c} 14,119.00\\ 2.014.60\\ 5.923.40\\ 1.208.20\\ 4.055.10\end{array}$	3.765 3.765 1.520 1.48 661	17,537.25 1,080.00 6,156.00 555.00 2,908.40	1.693 142 506 115 454	8,412.45 624.80 2,226.00 1,997.60	40.068.70 3.719.40 14.305.80 2.269.20 8.961.10
Cereal, Municipal Claresholm, Municipal Cold Lake, John Nell Consort, Municipal Coronation, Municipal	2.624 11.294 1.547 4.494 4.494	120 211 772 668 44	$\begin{array}{c} 1.836.80\\ 7.905.80\\ 3.145.80\\ 3.484.60\\ 3.484.60\end{array}$	1.104 1.104 4.36 4.36 6.14	862.50 4.780.95 1.635.00 2.000.70 2.302.50	1,019 1,019 195 648 359	1,772.00 4,661.35 780.00 2,851.20 1,436.00	4,471.30 17,348.10 3,497.90 7,997.70 7,223.10
Daysland, Providence Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal	3,303 703 6,531 23,829 6,391	318 2,421 617 62	2,312.10 492.10 4,571.70 16,680.30 4,441.70	469 73 2.659 838	1,899.45 273.75 4,294.40 12,630.25 3,687.20	496 32 306 1,515 310	2,182.40 1,422.90 7,650.75 1,364.00	6,393.95 906.65 10,289.00 36,961.30 9,492.90

TABLE No. 7-GRANTS PAID DIRECTLY TO HOSPITALS

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A LANDAR DA LANDAR		70c Grant		Maternit	Maternity Grant	Pension Grant	Grant	
Hospitals	Grant Days	Non-Grant Days	Amount	Grant Days	Amount	Grant Days	Amount	Amount
Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra* Edmonton, University*	3,403 80,435 90,708 157,770 115,331	7,037 1,541 1,541 5,783	2,382,10 56,304,50 63,495,60 110,439,00 80,731,70	1,276 7,584 14,666 22,490 7,180	5,167.80 41,712.00 80,663.00 123,695.00 39,490.00	11,535 6.315 16,404 11,202	64,596.00 35,364.00 91,862.40 62,731.20	$\begin{array}{c} 7.549.90\\ 162,612.50\\ 179,522.60\\ 325,996.40\\ 182,952.90\end{array}$
Edson, St. John's Elk Point, Municipal Elnora, Municipal Empres, Municipal Fairview, Municipal	8,559 9,931 3,349 3,552 6,569	332 292 1,416 46	5.991.30 6.951.70 2.344.30 2.486.40 4.598.30	1.835 964 516 476 1.178	8.074.00 3.615.00 2.089.80 1.915.50 4.417.50	1,488 512 379 379	1.362.45 6.547.20 2.252.80 941.60 1.667.60	$\begin{array}{c} 15,427.75\\ 17,113.90\\ 6,686.90\\ 5,343.50\\ 10,683.40\end{array}$
Fort McMurray. St. Gabriel's Fort Smith, General, N.W.T. Fort Vermilion, St. Theresa Galahad, St. Joseph's Glendon, Municipal	2.890 720 2.067 4.741 845	Not applicable 8.191 4	$\begin{array}{c} 2.023.00\\ 504.00\\ 1,446.90\\ 3.318.70\\ 591.50\end{array}$	305 305 331 66 331 636 131	1,235.25 247.50 1,241.25 2,575.80 530.55	73 293 159	292.00 1.312.00 1.289.20 699.60	3,550.25 751.50 4,000.15 7,183.70 1,821.65
Grande Prairie, Municipal Grande Prairie, Hythe, Sub Hospital Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence	16.188 1.659 7.922 5.278 15.918	986 188 106 3.947	$\begin{array}{c} 11.331.60\\ 1.161.33\\ 5.545.40\\ 3.694.60\\ 11.142.60\end{array}$	2,092 1,355 1,355 1,982	8.472.60 5.757.50 5.090.15 8.027.10	879 217 560 1,202	4.087.35 868.00 2.604.00 5.589.30	23,891.55 2,786.80 14,111.40 8,817.55 24,759.00
High River, Municipal Innisfail, Municipal Islay, Municipal Jasper, Seton Killam, General	14.222 9.560 3.121 3.158 7,487	105 710 746 33	9,955.40 6,692.00 2,184.70 2,210.60 5,240.90	2,010 1,210 257 1,363	8.140.50 5.324.00 5.324.00 2.519.10 5.520.15	807 937 236 83 584	3.752.55 4.357.05 1.038.40 365.20 2.669.60	21.848.45 16.373.05 4.186.85 5.094.90 13,430.65
Lacombe, Municipal Lac La Biche, St. Catherine's Lamont, Archer Memorial Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's General	15,248 7,379 15,090 35,003 1,555 41,724	60 300 3.258 1.965	10.673.60 5.165.30 10.563.00 24.502.10 1.088.50 29,206.80	2,475 1,597 1,597 4,380 5,584	10.890.00 6.467.85 7.908.75 20.805.00 26.524.00	1,372 627 3,214 3,292 2,701	6.379.80 2.758.80 11.180.70 16,624.60 13,640.05	27,943.40 14,391.95 29,652.45 61,931.70 1.088.50 69,370.85

TABLE No. 7-Continued

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DEPARTMENT OF PUBLIC HEALTH

18,408.55 8,727.40 16,220.20 4,321.70 5,939.40	8,492,90 10,178,45 75,588.95 13,655.95 13,655.95	6,942.65 1,235.50 16,306.85 5,775.65 16,209.35	13.673.55 15.017.75 8.045.25 11.449.85 6.819.50	42.557.95 10.741.75 12.785.90 6.593.75 15.648.30	29,805.95 25,212.70 20,784.65 9,516.00 11,551.15	4.534.70 8.141.75 9.855.00 36.957.25 15,868.20	$\begin{array}{c} 7,849.10\\ 6,251.75\\ 10,812.35\\ 24,104.60\\ 27,422.85\end{array}$
5,003.40 2,076.80 2,301.20 608.00	1,606.00 1,887.90 24,376.35 7,114.80	2,886,40 189,20 3,343,35 1,836,75 2,428,80	1.878.80 1.957.65 2.015.20 2.323.20 1.337.60	10,196.35 1,771.65 3,467.20 1,372.80 3,410.00	8,955.90 5,530.80 3,621.20 1,153.20 4,143.15	$\begin{array}{c} 1.245.20\\ 1.620.00\\ 3.134.10\\ 15.275.25\\ 3.146.00\end{array}$	$\begin{array}{c} 1.746.80\\ 1.236.00\\ 963.60\\ 9.365.10\\ 5.284.40\end{array}$
1,076 472 523 132 152	365 406 4,827 *	656 43 719 395 552	427 421 458 528 304	2,059 381 388 312 775	1,926 1,257 248 891	283 405 674 3,285 715	397 309 2.014 1.201
5,382.45 5,382.45 6,666.30 1,717.50 3,037.50	3,393.90 3,843.45 25,583.50 2,409.75	1,571.25 532.50 6,657.20 1,701.00 5,868.45	5,260.95 6,996.00 2,677.05 2,386.25 2,980.80	16,606.00 4,395.60 4,187.70 3,203.55 5,418.90	7,423.35 10,092.60 9,011.25 4,417.60 3,154.80	1,449.90 2,328.75 3,053.60 7,796.80 6,446.00	2,715.00 3,073.95 4,750.65 5,843.20 11,408.85
1,329 738 1,646 458 750	838 949 5,386 595	419 1,513 1,449	1,299 1,590 1,661 1,431 736	3,496 3,496 1,034 1,338	1,716 2,492 2,225 1,004 717	358 575 694 1,772 1,465	724 759 1,173 1,328 2,817
8,022.70 3,661.70 7,252.70 2,076.20 2,293.90	3,493.00 4,447.10 25,629.10 4,131.40 4,131.40	2,485.00 513.80 6,306.30 2,237.90 7,912.10	6,533.80 6,064.10 3,353.00 3,760.40 2,501.10	15,755.60 4,574.50 5,131.00 2,017.40 6,819.40	13,426.70 9,589.30 8,152.20 3,945.20 4,253.20	1,839.60 4,193.00 3.667.30 13,885.20 6,276.20	3.387.30 1.941.80 5.098.10 8.896.30 10,729.60
Vot applicable 79 280 37	48 51 4,119 205	312 312 312 312	650 139 152 152	682 54 267 118 171	1,520 1,520 232 5	394 867 897 897 897 897 897 897 897 897 897 89	163 858 100 78
11,461 [7 5,231 10,361 2,966 3,277	4,990 6,535 36,613 5,4 5,902	3.550 734 9.009 3.197 11,303	9,334 8,663 4,790 5,372 3,573	22,508 6,535 7,330 2,882 9,742	19.181 13.699 11.646 5.636 6.076	2,628 5,990 5,239 19,836 8,966	4,839 2,774 7,283 12,709 15,328
Lloydminster, Municipal Macleod, Municipal McLennan, Sacred Heart Magrath, Municipal Manning, Battle River	Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Medicine Hat, Isolation Mundare, General	Myrnam, Municipal Nordegg, General Olds, Municipal Oyen, Municipal Peace River, Municipal	Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's Raymond, Municipal	Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougall Spirit River, Holy Cross	Stettler, Municipal St. Paul, St. Theresa Taber, Municipal Three Hills, Municipal Tofield, Municipal	Trochu, St. Mary's Turner Valley, Oilfield's General Two Hills, Municipal Vegreville, General Vermilion, Municipal	Viking, Municipal Vilna, Our Lady's Vuican, Municipal Wainwright, Municipal Westlock, Immaculata

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A DESCRIPTION OF A DESC		70c Grant		Materni	Maternity Grant	Pensior	Pension Grant	
Hospitals	Grant Days	Non-Grant Days	Amount	Grant Days	Amount	Grant Days	Amount	Amount
Wetaskiwin, Community Willingdon, General	13,616 5,315	1,851 22	9,531.20 3,720.50	2,386 693	10,498.40 2,806.65	1,428	6,640.20	26,669.80 13,285.55
Total for Approved Hospitals	1,464,456	110,611	\$1,025,087.20	196,967	\$ 941,379.80	132,338	\$ 672,607.95	\$2,639,074.95
Coaldale Luscar Macklin (Sask.), St. Joseph's Mountain Park Sexsmith, Maternity Swalwell, Linden Nursing Home				585 97 924 496	1.755.00 291.00 2.772.00 992.00	66	430.65	$\begin{array}{c} 1,755.00\\ 291.00\\ 430.65\\ 57.00\\ 2,772.00\\ 992.00\end{array}$
Total for Private Hospitas		Not applicable		2,102	\$ 5,810.00	118	\$ 487.65	\$ 6,297.65
Total for all Hospitals.	1,464,456		\$1,025,087.20	199,069	\$ 947,189.80	132,456	\$ 673,095.60	\$2,645,372.60

*Excuding days for T.B. Division, D.V.A. and Polio cases.

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TABLE No. 8-HOSPITALIZATION GRANT TO LOCAL AUTHORITIES

3,113.25 13,774.25 4,279.50 2,133.20 584.85 2.014.252.189.001.189.751.297.151.139.25 $\begin{array}{c} 4,424.10\\ 2,020.50\\ 2,000.40\\ 918.50\\ 5,449.55\end{array}$ 2.745.75 11,209.75 2.887.75 3.454.75 919.75 1,507.252,601.255,163.251,003.251,003.258,437.402,824.905,164.55570.654,420.701,182.20Total Totals in 2,343 1,166 1,232 533 2,885 $\begin{array}{c}
1.460\\
5.816\\
1.730\\
2.088\\
2.333
\end{array}$ 172 264 687 808 808 1,835 6,331 2,535 1,267 1,267 3,615 615 615 4,603 1.512 2,780 334 2,413 638 Total $\begin{array}{c}
 7.50 \\
 6.25 \\
 6.25 \\
 7.50 \\
 7.50 \\
 \end{array}$ $\begin{array}{r} 41.25\\166.25\\103.75\\36.25\end{array}$ 18.75 5.00 61.25 46.25 6.25161.25 111.25 162.50 32.50 32.50 17.50 81.25 80.00 12.50 46.25 60.00 53.75 5.00 65.00 30.00 Years Amount -Year to \$ 0 20130 26 239 255 5 14 65 65 117 288888 316 49 15 Days -6.75 3.75 9.00 36.75 39.75 36.75 79.50 2.25 .75 822222 202 502022 00 1.00 00 00 -34.7 ÷ 4 21 Amount Months to 1 Year 5 20 18: 30 F- 00 4-10 64 99 649 649 33 12 49 538 53 10 115 115 115 68 68 28 Days 00 5.50 4.50 4.50 4.00 13.00 51.00 20.50 2.00 3.50 $\begin{array}{c} 4.00\\ 51.00\\ 18.50\\ 32.50\end{array}$ 18.00 68.50 12.00 38.50 02220 Amount 20.193 Under 3 Months s 9 1 8 1 S 41 41 41 1- 100 10 T 122 239 -Days 1,986.252,152.501,179.501,255.651,255.651,123.503,002.25 13,477.50 4,107.25 2,092.70 584.10 $\begin{array}{c} 4,396.60\\ 2,002.00\\ 1.932.15\\ 904.75\\ 5,399.80\end{array}$ 2.726.50 10,894.00 2.721.25 3.220.00 887.25 $\substack{1,482.25\\2,467.50\\4,828.50\\950.25\\8,201.65$ 2,756.90 5,076.80 558.15 4,299.70 1,152.20 Age Amount Over 3 Years of 50 1,435 5,447 1,555 1,555 1,840 847 1.410 3.219 543 4.341 2,314 1.144 1.171 517 2,842 1.451 2.672 315 2.263 614 135 674 674 642 1.727 5.9990 2.347 2.347 1.231 Days Claresholm Municipal Hospital District Consort Municipal Hospital District Coronation Municipal Hospital District Daysland Municipal Hospital District Crow's Nest Pass Municipal Hospital Dist. Empress Municipal Hospital District Fairview Municipal Hospital District Municipal District of Flagstaff Glendon Municipal Hospital District Grande Prairie Municipal Hospital Dist Athabasca Municipal Hospital District Bassano Municipal Hospital District Beaverlodge Municipal Hospital District Bentley Municipal Hospital District Berwyn Municipal Hospital District Didsbury Municipal Hospital District Drumheller Municipal Hospital District Eckville Municipal Hospital District Elk Point Municipal Hospital District Elnora Municipal Hospital District Hanna Municipal Hospital District High River Municipal Hospital District Hughenden Municipal Hospital District Innisfail Municipal Hospital District Irma Municipal Hospital District Brooks Municipal Hospital District City of Calgary Cardston Municipal Hospital District Castor Municipal Hospital District Cereal Municipal Hospital District Local Authority

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als	Total Amount	\$ 1,653.25 420.60 739.00 5,546.05 1,676.25	605.75 5,257.80 1,377.25 1,032.85 1,978.00	2,557.50 689.35 1,674.00 3,838.85	$\begin{array}{c} 1.313.35\\ 4.148.25\\ 1.712.50\\ 3.710.05\\ 299.25\end{array}$	1,777.75 1,094.25 6,821.25 2,805.70 2,638.50	$\begin{array}{c} 142.60\\9.279.10\\5.341.50\\93.65\\3.028.00\end{array}$	2,062.55 1,984.35 1,316.75 2,680.05 6,281.85
Totals	Total Days	1.005 226 451 3,006 834	347 2,838 795 701 1,201	1,390 435 1,003 2,096	2.473 774 2.042 171	1,043 631 3,635 1,512 1,552	78 5,003 3,375 1,808	1,106 1,062 792 3,532
o 3 Years	Amount	52.50 31.25 50.00 100.00	3.75 40.00 222.50 51.25	90.00 35.00 21.25 158.75	61.25 247.50 90.00	51.25 12.50 118.75 72.50	83.75 293.75 8.75 121.25	35.00 2.50 37.50 65.00 347.50
1 Year to	Days	42 25 80 80	61883 91883 919	72 28 127	49 198 72	41 95 31 58	67 235 97	28 26 26 278 278
Year	Amount	16.50 3.00 21.75 18.75 20.25	54.00 54.00 43.50 6.00	7.50 3.00 6.00	12.00 51.00 21.75	9.00 3.75 3.75 18.75 12.00	135.75 135.75 15.00	5.25 12.75 18.75 20.25 74.25
3 Months to 1	Days	22824	5º0 80	10 6 8 4 8	16 29 29	12 25 55 55 55 55 55 55 55 55 55 55 55 55	181 6 20	82814
Months	Amount	25.00 1.50 39.50 39.50	11.00 24.00 44.50	9.00 37.50 27.50 18.50	7.00 32.00	6.00 105.00 13.00	2.00 62.50 106.50 27.00	4.50 12.50 35.50 48.00
Under 3 Months	Days	20 20 20	22 89 89	18 35 37	14 10 64	12 210 13 26	4 125 213 54	96 25 96
irs of Age	Amount	1,559.25 416.10 682.50 5,437.80 1,546.00	5.152.80 5.152.80 1.351.00 914.10 1.916.25	2,451.00 612.35 1,622.25 3,655.60	1.233.10 3,844.75 1,712.50 3,566.30 299.25	$\begin{array}{c} 1.711.50\\ 1.078.00\\ 6.560.00\\ 2.741.70\\ 2.541.00\end{array}$	140.60 9,127.60 4,805.50 77.90 2,864.75	2,017.80 1.964.60 1.253.00 2,559.30 5,812.10
Over 3 Years of Ag	Days	891 219 2,390 2,862 707	2,712 772 554 1,095	1,290 326 927 1,924	2,197 2,197 174 1,877	978 616 3,280 1,443 1,452	74 4.804 2.746 1.637	1,062 1,034 716 3,059
	Local Authority	Islay Municipal District Village of Killam Municipal Affairs, Department of Lacombe Municipal Hospital District Municipal District of Leduc	Little Bow Municipal Hospital District Lloydminster Municipal Hospital District Macleod Municipal Hospital District Magrath Municipal Hospital District Mannville Municipal Hospital District	Mayerthorpe Municipal Hospital District Municipal District of Minburn Myrnam Municipal Hospital District Olds Municipal Hospital District	Oyen Municipal Hospital District Peace River Municipal Hospital District Municipal District of Pembina Ponoka Municipal Hospital District Municipal District of Provost	Provost Municipal Hospital District Raymond Municipal Hospital District Red Deer Municipal Hospital District Rimbey Municipal Hospital District Rocky Mtn. House Municipal Hosp. Dist.	Village of Sedgewick Stettler Municipal Hospital District St. Paul Municipal Hospital District Village of Strome Taber Municipal Hospital District	Three Hills Municipal Hospital District Tofield Municipal Hospital District Trochu Municipal Hospital District Two Hills Municipal Hospital District Vegreville Municipal Hospital District

TABLE No. 8-Continued

23,318.00 22,148.00 3,271.50 4,943.55 1,454.80	1 \$203,334.25	0.4	0	% Hospital- ized in each Age Group	366288119328 36628119328 36628119328	18
1,905 1,312 1,896 2,680 807	113,441	Imperio	Total	†Hospital- ized	$\begin{array}{c} 15,900\\ 111,900\\ 111,900\\ 111,900\\ 224,800\\ 7,100\\ 5,700\\ 5,700\\ 5,200\\ 5,200\\ 5,200\\ 5,200\\ 5,200\\ 6,900\\ 5,200\\ 5,200\\ 5,200\\ 6,900\\ 6,900\\ 5,200\\ $	160,400
6.25 55.00 46.25 37.50 27.50	4,206.25		I.		07,500 88,200 50,100 30,100 54,200 54,200 41,200 37,800 37,800 37,800 18,700 19,200	000
2334 ⁵	3,365 \$	SEX, 1956		*Total Population	107,500 88,200 150,100 150,100 130,100 54,200 41,200 37,800 337,800 337,800 18,700 18,700 19,200	895,000
5.25 38.25 13.50 24.75	\$ 1,407.75	AGE AND SEX, 1950		% of each Age Group Hospitalized	228 232 232 232 232 232 232 232 232 232	ន
51 18 33	1,877	POPULATION, BY	Females	†Hospital- ized	6,900 5,700 10,500 18,100 3,900 3,900 3,900 3,900 3,900 3,000 3,000 100	96,400
2.50 30.00 4.00 32.50 11.50	\$ 1,249.50			*Total Population	53,600 433,300 73,200 68,600 68,600 63,600 63,600 13,900 11,200 7,3900 11,200 7,900 8,600 8,600	425,300
338°80 51	2,499	OF ALBERTA		% of each Age Group Hospitalized	232 232 232 232 232 232 232 232 232 232	15
3.304.00 2.024.75 3.207.75 4.848.80 1.415.80	\$ 196.470.75	ALIZATION	Males	†Hospital- ized	9,000 17,700 8,400 8,400 3,200 3,200 3,200 3,200 3,200 3,200 3,200 3,300 3,300 3,300 3,300 3,300	64,000
1,888 1,157 1,833 2,552 762	105,700	TABLE No. 9-HOSPITALIZATION		*Total Fopulation	53.900 76.900 76.900 76.900 26.500 22.500 22.500 19.700 115.500 10.600	469,700
Vermilion Municipal Hospital District Viking Municipal Hospital District Vulcan Municipal Hospital District Wainwright Municipal Hospital District Municipal District of Wetaskiwin	Total	TABLE No.		Age Group	0- 4 5- 9 10-19 20-29 30-39 30-39 30-39 55-54 55-54 55-54 55-54 55-54 55-54 55-54 55-54 55-54 55-54 55-54 55-54 55-54 56-64 57-74 57	Total

*Population estimates for 1950 obtained from the Dominion Bureau of Statistics. \pm Excludes D.V.A. and T.B. Division cases. Newborn also excluded.

Division of Tuberculosis Control

DR. G. R. DAVISON, Director and General Medical Superintendent.

The programme of the Tuberculosis Division of treatment and control has, through the years, changed from the emphasis being placed on treatment alone to one of concentration of our efforts on prevention—the public health aspect. Case finding schemes of various kinds have been initiated to search out the infectious cases as well as those of early disease. The programme has evolved from the phase of examination of contacts, suspects and ex-sanatorium patients through the establishment of stationary clinics, travelling diagnostician services, and mass X-ray surveys of the apparently well population.

The Tuberculosis Division and the voluntary health organization, the Alberta Tuberculosis Association, were joined in 1946 by the Health Services of the Indian Affairs Branch of the Department of National Health and Welfare, with the result that Tuberculosis services are available to all sections of our population. The Federal Tuberculosis Control Grants, commenced in 1949, have been of the greatest assistance in rounding out the programme.

During the years a marked decrease in the mortality rates has occurred. This decrease is due to the preventive methods instituted as well as to the general decline that has been going on for many years. Some of this fall is also the result of the development of the antimicrobials—Streptomycin and Para amino salicylic acid. These drugs have been of the greatest assistance in saving many lives.

Optimism pervades our thinking, and the phrase "eradication of Tuberculosis" is frequently heard. The facts, however, do not warrant this optimism. More cases of Tuberculosis are under treatment in Canada than ever before. Waiting lists for Sanatorium beds are increasing. The incidence of disease is advancing. In Alberta this is in part due to our growing population. Some of these new residents come from countries with marked environmental hazards. Congestion in living quarters resulting from the housing shortage, particularly in urban centres, is no doubt of serious import. The susceptibility of the human host and adaptability of the Tubercle bacillus may also be factors. To obtain the proper perspective it behooves us to think in terms of the increasing number of cases of Tuberculosis living rather than in the decrease in the number of people who have died. In this way our campaign of prevention and control can be properly geared.

The work of the Division in 1950 expanded, as more of the projects implemented by the Federal Tuberculosis Control grant were put into effect.

On October 31st Dr. A. H. Baker, General Medical Superintendent and Director of the Tuberculosis Division, retired after thirty years' service. The Division developed under his guidance and has attained an eminent place in the Tuberculosis Field. A farewell party arranged by ex-patients, was held at the Central Alberta Sanatorium and attended by ex-patients, patients, friends and staff. Presentation of a well equipped automobile was made to Dr. Baker as a token of the high esteem in which he was held by everyone.

Dr. Baker's retirement necessitated some staff changes. Dr. G. R. Davison was named as his successor; Dr. L. M. Mullen was appointed Medical Superintendent of the Central Alberta Sanatorium, and Dr. H. H. Stephens as Medical Superintendent of the Edmonton Sanatoria.

New Construction.

The Aberhart Memorial Sanatorium in Edmonton is under construction, and should be available for occupancy late in 1951. This building is of modern design and adapted to the climate of the north temperate zone. All services other than laundry are housed under one roof. The main building faces south, and 90% of the patients' rooms have a southern exposure. In the planning, everything was done to ensure the comfort of the patients. The Nurses' Home and laundry facilities are also being erected.

The addition to the Administration Building at Central Alberta Sanatorium was started in the autumn. This extension will house on the main floor a second X-ray machine and another operating room. It permits more space for the Out-Patient Clinic and doctors' offices. Room for eighteen more surgical beds is provided on the second floor.

Diagnostic Services.

Clinics with ever increasing numbers attending were held throughout the year, 9,601 examinations being carried out. X-ray films submitted by physicians and hospitals for interpretation numbered 9,414. As all accessible areas of the Province had been surveyed at least once, the Mobile Units only operated for part of the year with 72,963 people availing themselves of the service.

By these various procedures, some form of diagnostic service has been extended to 141,024 residents of this Province, an increase of 17,024 over 1949. Of this number, 926 new cases of Tuberculosis were discovered, an increase of 45 over 1949.

CLASSIFICATION OF 926 NEW CASES OF TUBERCULOSIS (EXCLUDING INDIA	NS)
Active pulmonary Tuberculosis	427
Inactive pulmonary Tuberculosis	403
Inactive non-pulmonary Tuberculosis	11

ALBERTA INDIAN SURVEYS AND TREATMENT SERVICES

Conducted by Dr. W. L. Falconer, Charles Camsell Indian Hospital, Edmonton, Alberta (Department of National Health and Welfare)

1.	New cases of Tuberculosis discovered in Alberta in 1950 as a result of surveys	427
2.	No. of Alberta Indians treated in the Charles Camsell Indian Hospital during	050
	the calendar year 1950 for Tuberculosis	352
3.	No. of Alberta non.Indians (including D.V.A. Patients) treated in the Charles	
	Indian Hospital during the calendar year 1950 for Tuberculosis	54
4.	Total No. of Alberta Indians X-rayed at Surveys during 1950	8,677
	All Residential Schools were surveyed following commencement of school term	
	and children and staff X-rayed. Schools total	2,326
5.	Total No. of Alberta Indians X-rayed as Out-Patients (re-checks, etc.) at the	1
	Charles Camsell Hospital during 1950	543
6.	Total No. of X-ray films on Alberta Indian Out-Patients sent in for inter-	
	pretation during 1950	898
7.	Total No. of Indians in Alberta X-rayed at surveys in 1950	2,187
8.	Total No. of Non-Indians in Alberta (including D.V.A.) X-rayed (re-checks,	
	etc.) as Out-Patients at Charles Camsell Indian Hospital during 1950	1,257
9.	No. of B.C.G. Vaccinations given during calendar year of 1950	210
	Re. Item No. 3: This number (54) includes 7 patients who were treated in the C	harles
	Camsell Indian Hospital at the expense of the Tuberculosis Division-3 C	harles
	Camsell Hospital staff members; 3 non-treaty Indians classed as non-Indian; 1	half-
	breed child of one of the above noted Indians.	
	breed child of one of the above noted indians.	

In comparing the Department of Indian Affairs report with last year's, it is noteworthy that the number of new cases has decreased by 121.

Treatment Services.

Sanatorium treatment was provided for 1,384 residents of the Province in 1950. Of this number, 1,032 were treated in Provincial Sanatoria and 352 in the Charles Camsell Indian Hospital. The number under treatment did not change appreciably from 1949, as institutions were filled to capacity at all times. The average length of stay in hospital was twenty days less, but the waiting lists were larger than for many years.

Thirty-nine out patients were given pneumothorax treatments at various points in the Province by their attending physicians. Our sincere thanks is extended to the medical men concerned for their co-operation and assistance. Patients in residence were given 5,203 treatments.

After several years use, the antimicrobials have now definitely proven their worth, both as an adjunct to medical care and in cases receiving radical surgery.

Training of Nurses.

The courses in tuberculosis nursing, given to affiliates from training schools throughout the Province, are being carried on very successfully. Everything is being done to make their stay at the Central Alberta Sanatorium as interesting and enjoyable as possible.

Nurses aides from the Provincial School also take part of their training at the Sanatorium.

Many who have taken the courses have returned as members of the Sanatorium staff after graduation from their respective schools.

Educational Programme.

School work, from elementary subjects to Grade XII and commercial classes, are carried on in the Sanatoria under well qualified teachers.

Occupational Therapy also forms an important adjunct to treatment. It is considered as education rather than a time-passing activity. In many cases, handicrafts lead to satisfactory rehabilitation.

The Rehabilitation Branch of the Alberta Tuberculosis Association continues to function at a high level. The close liaison between the rehabilitation officers of the Association and teaching staff has done much to assist many ex-patients to attain economic security in employment that will safeguard their health.

Acknowledgments.

We wish to sincerely compliment the Indian Health Services Branch of the Department of National Health and Welfare for the extensive Tuberculosis programme that they are carrying on. Since the inception of this work, there has been a marked decrease in the mortality rate among Indians.

Grateful acknowledgment is made of the assistance rendered by the Alberta Tuberculosis Association through their many projects, some of which were mentioned above.

The Department of Veterans Affairs is also to be commended for the benefits extended to tuberculous veterans.

Staff.

The shortage of nursing personnel has been much less acute. The Sanatorium, therefore, is operating to capacity.

The complement of medical staff is not filled.

Since the completion of the quarters for women in 1949, adequate auxiliary staff has been quite well maintained with fewer changes in personnel.

Administration.

These figures refer to the fiscal year ending March 31, 1951, whereas those in the balance of this report are for the calendar year 1950.

Gross operating cost—Central Alberta Sanatorium Revenue Net cost—Central Alberta Sanatorium Gross cost per patient day Net cost per patient day Hospital cost—Edmonton and elsewhere Revenue		\$ 558,756.53 124,094.89 434,661.64 5.98 4.65 424,703.08 17,078.90 17,078.90
Net cost—Edmonton and elsewhere Cost of Clinic Service: Treatment—Out-Patient Pneumothorax Mobile X.Ray Units Other Diagnostic Services		407,624.18 45,084.67
Cost of projects under the Federal Tuberculosis Control C in the above figures.	Frant are n	\$1,028,544.28 not included
Patient Days: Pulmonary Tuberculosis: : Central Alberta Sanatorium Edmonton General Hospital Royal Alexandra Hospital University Hospital Other Hospitals Reciprocal Agreements	46.9 12,8 7,6 1,9	86 892 808 909 233
Non-Pulmonary Tuberculosis:: Central Alberta Sanatorium Other Hospitals		
Total Patient Days		175,647

The total number of meals served was 449,231 and the food cost per meal \$.3021.

Recommendations.

- 1. The building programme of Sanatorium beds should be extended.
- 2. For the Central Alberta Sanatorium:
 - (a) Increase in laundry facilities.
 - (b) Construction of quarters for male staff.
 - (c) Enlargement of Nurses' Home.
 - (d) Replacement of greenhouse.
 - (e) Erection of houses for medical staff.

DIAGNOSTIC CLINIC REPORT

	essions	New Tubero Pul. No	culosis				
Place STATIONARY CLINICS:	No. of Se	Active	Active	Number Exams.	Number Review Exams.	Total	
Calgary Camrose Central Alberta Sanatorium Drumheller	50 5 100 12	3 35 3	2	167 24 1421 103	232 90 2102 158	399 114 3523 261	
Edmonton Lethbridge Medicine Hat	103 9 10	179 6 1	7	2814 228 26	1149 296 144	3963 524 170	
Red Deer	6 5 8	5 2 2		$ \begin{array}{r} 122 \\ 38 \\ 141 \end{array} $	191 65 90	313 103 231	
Total	308	236	9	5084	4517	9601	

In addition to these 245 newly discovered cases of active tuberculosis, there were also discovered 402 cases of inactive tuberculosis.

TUBERCULIN TESTING AND X-RAY SURVEYS

	Number Tested	Number X-Rayed
Faculty of Education, Calgary	210	19
Blood Transfusion Service, Calgary		14
Student Nurse Aides	580	388
Workmen's Compensation Board, Calgary		13
General Petroleums Ltd., Calgary	27	8†
Medicine Hat Seal Survey Calgary Motor Products, Calgary	*****	15
Calgary Motor Products, Calgary	49	17†
Edmonton (Miscellaneous)	97	26
*Banff-Mineral Springs Hospital	785	142
Barrhead-St. Joseph's Hospital	73	132
Beaverlodge, Municipal Hospital Blairmore, Crow's Nest Pass Mun. Hospital	818	105
Blairmore, Crow's Nest Pass Mun. Hospital	50	484
Calgary, Holy Cross Hospital		2883
Camrose, St. Mary's Hospital	28	961
Cardston, Municipal Hospital	1.159	416
Castor, Our Lady of the Rosary Hospital	1,150	57
Cold Lake, John Neil Hospital	193	12
Consort, Municipal Hospital	108	12
Daysland, Providence Hospital	50	7
Didsbury, Municipal Hospital	332	16
Drumheller, Municipal Hospital	3,097	1,335
Eckville, Municipal Hospital	635	39
Edmonton, Royal Alexandra Hospital	250	10,134
Edmonton, General Hospital	350	717
Elnora, Municipal Hospital	75	10
Fairview, Community Hospital	673	80
Galahad. St. Joseph's Hospital	502	15
Glendon, Municipal Hospital	43	
Hanna, Municipal Hospital	420	123
Hardisty, St. Anne's Hospital High River, Municipal Hospital	720 1.823	13 127
High River, Municipal Hospital	1,025	6
Hythe, Municipal Hospital		53
Innisfail, Municipal Hospital	434	34
Islay, Municipal Hospital	261	17
Jasper, Seton Hospital	593	49
Killam, General Hospital	1.008	119
Lac La Biche, St. Catherine's Hospital	472	649
Lacombe, Municipal Hospital		2.610
Lamont—Archer Memorial Hospital Lethbridge, St. Michael's Hospital	60	6.088
Lethbridge, Galt Hospital	124	136
	124	1.238
Lloydminster, Municipal Hospital Magrath, Municipal Hospital	118	1,200
Manning, Battle River Hospital	278	27
Medicine Hat, General Hospital	210	1.210
Mundare, General Hospital	153	10
Olde Municipal Hospital	100	100
Olds, Municipal Hospital Oyen, Municipal Hospital	68	4
Peace River, Municipal Hospital	222	247
	649	90
Ponoka, Municipal Hospital Provost, Municipal Hospital	533	31
Raymond, Municipal Hospital	85	2
Red Deer, Municipal Hospital	1.611	1.885
Tofield, Municipal Hospital	66	9
Taber, Municipal Hospital	247	33
Three Hills Municipal Hospital	155	18
Three Hills, Municipal Hospital Trochu, St. Mary's Hospital	144	44
	1,239	1.279

	Number Tested	Number X-Rayed
Vermilion, Municipal Hospital	395	35
Viking Municipal Hospital	489	50
Wainwright, Municipal Hospital	1,309	102
Westlock, Immaculata Hospital	1,750	95
Wetaskiwin, Community Hospital	1,024	41
R. Marker of the state of the second	27,629	34,632

†Counted in Clinic X-ray number.

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

N.B.—Total number of persons receiving service through surveys is 45,799, i.e., number tuberculin tested plus those X-rayed without having been previously tuberculin tested as shown in table above.

MOBILE UNIT SURVEYS

	No.		No.
	X-rayed		X-rayed
Ashmont		Heinsburg	
Ardmore	709	Killam	. 925
Barons	1,485	Lougheed	. 396
Big Valley	. 774	La Corey	421
Bawlf	1.185	Lafond	268
Brierville	323	Mallaig	1.307
Bonnyville	1.638	Macleod	1,822
Cardston	. 2.174	Mossleigh	. 822
Czar	301	New Norway	070
Champion	907	Oliver Mental Institute	
Camrose	3,982	Picture Butte	
Bethany Home		Provost	1 0.000
Rosehaven		Redwater	1
Calmar	10 10 10 10	Riverside Hutterite Colony	104
Calgary	24.962	Rockyford	004
Donalda	619	Strome	-
Davsland	1.098	Sedgewick	011
Elk Point	. 1.124	Smoky Lake	1 705
Edmonton (University)	1.559	Spedden	810
Ferintosh	821	St. Paul	0 170
Frog Lake		Thorsby	1.818
Grand Centre	FOF	Vilna	1 500
Glendon	0.00	Waskateneau	705
Glenwood	FEO	The second	
Hughenden	000		72,963
Hardisty	TOF		12,000

SUMMARY

Number X-rayed		Further examination requested	812
Probable tuberculosis active		Non-tuberculous chest conditions	765
(6 previously discovered)		Pleurisy active	4
Probable tuberculosis inactive (252 previously discovered)	933	Pleurisy inactive No disease	451

SUMMARY-CLINICS AND SURVEYS

Stationary Clinics Surveys (all types) Mobile Unit Indians, Whites and Half-breeds (work done by Department National Health and Wel- fare	No. Sessions 308 63 47	Total No. Exams. 9,601 45,799 72,963 12,664
	418	141.027

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

(Indiano ere	ruucu)			
Clinics Referred for admission by family physicians	1949 622 226	% 70.5 25.6	1950 647 220	% 69.8 23.8
Surveys Referred by D.V.A. Staff, Central Alberta Sanatorium	53	.8	11	1.2
Provincial Laboratory Hospital admission films	6	.7	25 3	2.6 .3
C ther sources	19	2.1	20	2.2
	081		926	

DEPARTMENT OF PUBLIC HEALTH

CLASSIFICATION OF 830 NEW CASES OF ACTIVE AND INACTIVE PULMONARY TUBERCULOSIS (Indians not included)

TUBERCULOSIS (India					077
Minimal Moderately advanced Far advanced Primary				*****	377 201 85 88 79
Tuberculous pleurisy with effusion					830
No. of non-residents diagnosed as having tuber No. of known contacts of newly discovered ca No. of known contacts examined	ses of tul	berculosi	S	1,827	77.3%
TUBERCULIN MAIL	ING LIST	, 1950			
Clinics and Health Units Hospitals Miscellaneous					. 9
In addition to the above the following were					
Dilution No. 4 Dilution No. 3 Dilution No. 2 Dilution No. 1					. 125
INSTITUTIONAL		rs			
	Central Alberta Sanatorium	Edmonton General Hospital	University of Alberta Hospital	Royal Alexandra Hospital	Others
Patients under treatment January 1, 1950 Patients admitted during 1950 Patients transferred in	253 247 34	120 204 57	21 8 42	20 29 23	10 111 5
Total treated	534	381	71	81	126
Discharged and died Patients transferred out	279 8	178 65	19 31	35 10	58 47
Total discharged	287	243	50	45	105
Patients under treatment Dec. 31, 1950	247	138	21	36	21
Patient days, 1950 (calendar year)	93,315	51,236	13.026	10,476	1,846
No. patients under treatment Jan. 1, 1950 No. of admissions 1950					433 599

Total treated

NN N

0

DIAGNOSIS OF 599 PATIENT ADMISSIONS

1032

	Central Alberta Sanatorium	Edmonton Sanatoria	Others
Non-tuberculous	20	4	
For diagnosis	17	16	25
Pleural Effusion	9 .	16	5
Tuberculosis, Inactive	4		
Primary tuberculosis	12	13	5
Non-Pulmonary Tuberculosis Pulmonary tuberculosis active:	31	21	61
Minimal	41	40	3
Moderately advanced	57	78	17
Far advanced	55	48	16
Miliary	1	3	2
Silico tuberculosis		2	
	247	241	111
Number with positive sputum on admission.	92	74	25
positive later	2	6	
Number persistently negative	153	161	86
	247	241	111
Of the above 599 admissions, re-admissions			
were	62	69	10

Of the above 599 admissions, 7 were admitted and re-admitted during 1950, i.e., 592 persons were admitted during 1950.

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INSTITUTIONS SECTION

In addition to the above there were 3,231 patient days in other provinces under reciprocal agreement. Number of patients, 17. Total institutional patient days including 3,231 paid for in other provinces under re-ciprocal agreement, 173,130.

Number of institutional patient days provided for non-residents under reciprocal agreement, 1,384. Number of patients, 7.

OPERATING ROOM REPORTS

	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	Total
THORACOPLASTY:	0 403	HOH		
Number stages	116			116
Number of cases Number of revisions	62 2			62 2
Pneumolysis, closed	15	45		60
Aspiration, pleural Aspiration, other	311 61	38 5	13 1	362 67
Aspiration pus and irrigation	107			107
Aspiration, air Instillation oil and gomenal	2 14	******		2 14
Bronchoscopic examination		6	5	16
Vital capacity	55	12		67
Thoracoscopy Intracavity pressure and drainage	14 4			14
Rib section and pack drainage	4			4
Phrenic crush	1	3		13
Resuturing of incision	1			1
Implantation cortate pellets	1 3	ataria		1
Appendectomy	1			31
Laparotomy	1			1
Excision ischio rectal abscess Excision miscellaneous (moles, tumor, toe- nails, etc.)	2 10	1		2
Pelvic examination	15	6		11 21
Protoscopic examination	6	7		13
Spinal punctures Gastric lavages	151 27	194		345 27
Drainage and pack groin abscess	1			1
Abdominal paracentesis	****	3	1	13
Biopsy cervical node		1		1
	992	321	20	1233
	002	021	20	1200
	Ę	c		
	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	
	Central Alberta Sanator	Edmont General Hospital	al xar pit	E.
	andia	dien	Royal Alexa Hospi	Total
Summary of Pneumothorax Cases:	040	щощ	H A H	F
Under treatment Jan. 1, 1950	129	105	10	244
New cases started 1950 No. cases under treatment an admission	33 21	73 12	12	118 33
No. cases under treatment an admission				
	183	190	22	395
Number cases discontinued	66	64	6	136
Number transferred out of Alberta	6	1		7
Number transferred to other sections of Division	21	6	4	31
	93	71	10	274
Under treatment Dec. 31, 1950	90	119	12	221
Unsuccessfully attempted	11	22	****	33
Refills:				
Resident	2220	2568	415	5203
Out patient	1958	2086		4064
Total	4178	4,654	435	9267

In addition to the above 590 pneumothorax refills were given to 39 ex-Sanatorium patients at the following points: Beaverlodge, Drumheller, Elk Point, High Prairie, La-combe, Vermilion, Lethbridge, Medicine Hat, Ponoka, Provost, Red Deer, Wainwright.

DEPARTMENT OF PUBLIC HEALTH

Summary Pneumo-Peritoneum Cases:				
Under treatment Jan. 1, 1950	3	16		19
New cases started during 1950 Cases transferred in (1 from Charles Cam-	15	11		26
sell)	6		Inden Card State	6
	24	27	the same	51
		-	-	
Number discontinued Transferred to other sections of the	7	10	****	17
Division		5		5
			-	-
	7	15		22
		-	-	
Under treatment Dec. 31, 1950	17	12		29
Number of refills	482	672		1154

X-RAY DEPARTMENT REPORT

RADIOGRAPHS MADE:	Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital	University of Alberta Hospital	Total
Thorax	6.232	4.647	218	47	11.144
Spine	89	37	2	2	130
Pelvis	29	16		10.04	45
Knee	7	10	3		20
Cl.	5				53
Teeth	2 46	7	1		53
Shoulder	40		1	1	13
Hand	10	3	-		13
Wrist	5				5
Elbow	5	4			9
Sacro-iliac	15	read.			15
Ankles	15	6	100	1	22 10
Hips	8	2	110 Arres		10
Ribs	3		1	****	4
Jaw	ĭ		-		i
Mastoids	1				1
Heels				2	2
Bronchogram	4	4			8
Abdomen Gall Bladder	73	****	3	1	11
Stomach	5		4414	1111	35
Gastro-intestinal tract	11	****	****	****	11
Colon	4				4
Intravenous pyelogram	15	6			21
Retrograde pyelogram	4				4
Kidneys, ureters, bladder	4				4
	6,547	4.743	229	54	11,573
FLUOROSCOPIC EXAMINATIONS:					
Thorax	5,543	5.621	557		11.721
Gastro Intestinal Tract	11	22	2		35
Colon	4				4
Stomach	5				5
	5,563	5,643	559		11,765
Films referred for Interpretation	4.794	4,620			9.414
Basal Metabolism Rate	10				10
Cardiogram	17	****		****	17

LABORATORY REPORTS

N.B.—The Laboratory work for the Central Alberta Sanatorium is done by the Southern Branch of the Provincial Laboratory, and no report is available.

		Edmonton General Hospital	Royal Alexandra Hospital		University Hospital		Total	
SPUTUM EXAMINATIONS: Positive		509	197		26		73	2
Negative		1,239	359		162		1,76	
URINE EXAMINATIONS:		1,202	1,447		180		2,82	9
BLOOD EXAMINATIONS: Blood Counts Sedimentations Blood Sugar		1,206 843 70	51 195		31 71 16		1,28 1,10 8	9
MISCELLANEOUS: Pleural fluid Spinal fluid Pericardial Gastric analysis Gastric lavage Culture Guinea pig inoculation		38 201 1 4 75 26 126	26 1 4				7 2 13	7 1 5 5 6 9
Other		720		all interest	4		74	-
		6,260	2,296		499		9,05	5
		Central Alberta Sanatorium	Edmonton General Hospital	Royal Alexandra Hospital		University Hospital	Total	THIN
WASSERMAN REPORTS: Positive		8	7			5	2	:0
Negative		260	189	29		7	48	5
		268	196	29		12	50	5
	LIOTHERA						-	-
Number patients treated Number of treatments		13 667	69 648	3 39			1,35	15 14
	DENTAL	REPORT						
Number of patients		485	117	48 133			65	
Number of treatments Number prophylactic treatments		201 169	344 10	133		****	67 17	9
Number of fillings		502	169	62			23	
Number of extractions Number new dentures and repairs		245 59	159 6	54 8			45	3
CLASSIFICATION OF 569 DISCH	ARGED P	ATIENTS: Resider		1	On D	ischa	rde	
On .	Admission.	31 days	Over		-	-	-	-
	No.	or less 31		AA.	Q.	I.	U.	D.
For diagnosis Primary Tuberculosis Reinfection type pulmonary tuberculosis clinical::	56 23	39 2	17 21		3	19	1	
Minimal	83	9	74	2	21	56	4	
Moderately advanced Far advanced	78 10	9 2	69 8	3	13	53 6	3	62
 Reinfection type pulmonary tuberculosis bacillary: 	10	1	9		1	8	1	
Minimal Moderately advanced	75	2	73		21	46	2	6
Far advanced	103	18 1	85 2	18	42	6	37	3
Miliary 5. Tuberculous pleurisy	3 28	2	26	****	2	25	****	1
6. Non-pulmonary tuberculosis	100	19	81		3	79	11	7
Total active tuberculosis		65	448	5	83	334	29	62
Total number treated		104	465	23	81 2	312 17	11 21	42 22
		104	465			329	32	64
Grand Total	569	104	405		00	020	02	04

Explanation of abbreviations and terms used: The standard classification is that of the National Tuberculosis Association: "Minimal", "Moderately advanced", and "Far advanced" refer to the anatomical extent of disease; "AA" Apparently arrested, "Q" Quiescent, "I" Improved, "U" Unimproved, and "D" Died.

NOTE: Only those in residence over 31 days are classed as "Treated".

DEPARTMENT OF PUBLIC HEALTH

CLASSIFICATION ON ADMISSION OF 569 DISCHARGED PATIENTS:

	Central Alberta Sanatorium	Edmonton Sanatoria	Others	Total
For diagnosis	. 29	27		56
Primary tuberculosis	. 10	13		23
Pulmonary Tuberculosis, active	200	152	10	362
Tuberculosis pleurisy	. 8	20		28
Non-pulmonary tuberculosis	. 32	20	48	100
			ATC - 17	
	279	2,32	58	569

DIAGNOSIS ON DISCHARGE OF 56 PATIENTS ADMITTED FOR DIAGNOSIS:

	Central Alberta Sanatorium	Educates Constants
The home where he attend		Edmonton Sanatoria
Tuberculosis inactive	. 1	9
Non-tuberculous pneumonia	1	6
Non-tuberculous spontaneous pneumo- thorax		
Non.tuberculous branchial asthma	1	****
Non-tuberculous bronchiectasis	1	DOM: MARCHINE
Non-tuberculous pneumonitis	3	Second Party
Non-tuberculous debility (pneumonic)	2	1
Non-tuberculous debinty (pneumonic)	2	
Non-tuberculous pulmonary fibrosis Non-tuberculous pulmonary fibrosis with		g un the second with g
sepsis	5	9
Non-tuberculous pulmonary fibrosis		-
asthma, bronchitis with bronchiectasis		
and atopic dermotitis	1	
Non-tuberculous respiratory infection		1
Non-tuberculous pleuritis		ī
Bronchogenic carcinoma	3	ī
Myocardial disease	1	
Inflammation areola tissue left axilla and		
right inguinal region etiology	1	****
Sarcoidosis		1
Non-tuberculous spondylitis	. 1	
History pelvic tuberculosis (operated)	1	SETTIONED VALUE SERVICE
nodgkins disease		1
Undiagnosed	2	2
No disease		ĩ
		<u>_</u>
	29	27
150 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	A STREET STREET	

CLASSIFICATION ON DISCHARGE OF 448 TREATED CASES OF ACTIVE TUBER-CULOSIS AND TUBERCULOUS PLEURISY:

On Administ		On Di	scharge	
On Admission:	Number	Improved	I Unimproved	Died
Minimal	83	82	1	
Moderately Advanced	143	133	3	7
Far Advanced	92	65	and the second second	27
Primary	21	21	trial in the lot	
Non Distances man	2		CONTRACTOR WORLD	2
Tuberculosis Pleurisy	81 26	67	7	7
a doct curosis i reurisy	20	25	TO SCHEROLDING	1
Testionton On Multimeter	448	393	11	44
				4.5
*SEX:				
	Central Sanat		Edmonton Sanatoria	Takal
Male				Total
Female		29 50	159 131	288
		.50	151	281
	2	79	290	569
	-	performance.		
SOCIAL STATUS:				
Single	1	18	151	269
Plane and a l	1	44	123	267
Widowed		5	10101	
Separated		8	11	19
		4	5	9
	2	79	290	ECO
	-	_	200	909

9.47 10 1920

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
*OCCUPATIONS-WOMEN:			
At Home	8	11	19
Bakery worker	1	1	2
Bookkeeper	1		1
Cashler	1	1	2
Clerk (Sales)	3	5	8
Clerk (Bank)	2		22
Clerk (Office)	1	1	2
Cook	1	1	2
Child	5	3	8
Doctor	1	1111	1
Domestic	2	8	10
Gospel worker		1	1
Hairdresser	1	1	2
Housewife	77	58	135
Laboratory technician	1		1
Laundry worker	1		1
Nurse	11	3	14
Nursing aide	1		1
Nurse (practical)	1	and the second se	1
Stenographer	9	4	13
Student	16	21	37
Seamstress	1	1	2
March and	-	2	2
TT - Marcon	2	3	5
Ward Aide	2	6	8
X-ray technician (student)	ĩ		1
A-ray technician (student)	_		
	150	131	281
	100		

DEPARTMENT OF PUBLIC HEALTH

MPN.	Central Alberta Sanatorium	Edmonton Sanatoria	Total
MEN:			
Army Accountant	1 2		12
Attendant	-	2	2
At home		ī	ī
Boiler foreman	1		1
Bush worker Bank manager	1	1	1
Bookkeeper	1	1	i
Barrister	î		î
Barber	1	1	2
Butcher	1		1
Bus driver Car man C.P.R.	1		1
Cattle dealer	1		1
Clerk (office)	3	6	9
Clerk (store)	4	****	4
Cook	1	4	5
Carpenter Construction foreman	3	6	11
Caretaker	1		1
Cnild	9	10	19
Coffee shop proprietor	1		1
Contractor	1		1
Driver (underground) Doormaker	1	****	1
Draftsman	1		1
Decorator	î		1
Dry cleaner	1		î
Edger man (sawmill)	1		1
Electrician	1	1	2
Engineer	21	39	1 60
Fireman	21	1	60
Farm implement dealer	1		1
Field supervisor (retired)	1		ĩ
florist		1	1
Furniture dealer	1		1
Grain buyer Grader man	1	****	1
Gardener	1	ï	2
Iotel manager	î		1
Labourer, mine (above ground)	2		2
abourer	7	16	23
Jumberman (sawmill)		1	1
ogger oundryman	1	1	1
Mechanic	5	4	9
Merchant	1		ĩ
Mechanical engineer	1		1
Machinist	1.		1
Milk salesman	1		1
Ainer Manager (general store)	2	2	22
Orderly (medical)	1	****	2
Officer (Uemployment Ins. Com.)	î		1
Dilwell worker		2	2
Plasterer	2		2
Printer	1		1
hysician	2		2
Plumber Photographer	8.000	1	1
toot house man	1	1	1
teal estate agent	î	1	2
ancher	1		ī
etired		12	12
ace horse owner	- 410	1	1
ection man		1	1
tudent	9	27	1 36
ki instructor	ĩ		1
alesman	1	7	8
eedsman		1	1
'imekeeper	1	****	1
axi driver axi dispatcher	1		1
ruck driver	3	12	15
rapper	0	2	52
rainman	400	ĩ	1
fility man (packing plant)	1	1010	1
Valter (beer)	2		21
Vaiter Vatchman	1		1
A REAL PROPERTY AND A REAL	2		2
/atchmaker	1		
Vatchmaker	1		1
Vatchmaker Z-ray technician	1 	<u> </u>	1

*RESIDENCE OF DISCHARGED PATIENTS:

ITIES:	Sanatorium	Sanatoria	Total
Calgary	74	1	75
Drumheller	18		18
Edmonton	14	120	134
Lethbridge	9		9
Medicine Hat	7		7
Red Deer	8	3	83
Wetaskiwin		0	9
	130	124	254
ourse.	-	- /	
OWNS: Athabasca	,	2	9
Banff	3	-	3
Camrose	3	1	4
Cardston	ĩ		1
Claresholm	2		2
Edson	1	8151	1
Fairview	1		1
Grand Prairie	1	3	4
Hanna	1		1
High Prairie	1	1	23
Lac La Biche		3	3
Lacombe	3		3
Leduc		2	2
Lavoy	ï	1	1
Macleod Magrath	2	8111	1 2
Olds	ĩ	****	ĩ
Peace River	1	1	1
Pincher Creek	5	1	5
Ponoka	4	1	5
Raymond	i	-	1
Rocky Mountain House	2		2
St. Albert		4	4
St. Paul	1	2	3
Stettler	1		1
Strathmore	1	1111	1
Taber	3		3 2 3 2
Tofield		2	2
Vegreville	3		3
Vermilion Wainwright	1	1 3	3
wantwright			-
	43	27	70
LLAGES:		_	
Andrew	-3434	1	1
		1	1
Beaverlodge			
Beaverlodge Berwyn		1	1
Beaverlodge Berwyn Black Diamond		1	1 2
Beaverlodge Berwyn Black Diamond Bonnyville	222	1	2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden	2 2 2 2		1 2 2 2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness	2 2 2 2 2		2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett	2 2 2 2 1		2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay	2 2 2 2 1 1	 	2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville	2 2 2 2 1		2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point	2 2 2 2 1 1		2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher	2 2 2 2 1 1 4	 1	2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw	2 2 2 2 1 1 4		2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw Hythe	2 2 2 2 1 1 4	 1	2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw Hythe Hay Lakes	2 2 2 2 2 1 1 4	 1	2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw Hythe Hay Lakes Holden	2 2 2 2 2 1 1 4 4		2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw Hythe Hay Lakes Holden Kinuso Lamont	2 2 2 2 2 1 1 4	 1	2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw Hythe Hay Lakes Holden Kinuso Lamont Manville	2222211144		2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw Hythe Hay Lakes Holden Kinuso Lamont Manville Mundare	2 2 2 2 1 1 4 4 	2 1 1 1 1 1 1	2
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw Hythe Hay Lakes Holden Kinuso Lamont Manville Mundare Onoway	2 2 2 2 1 1 4 4	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	222 21 14 21 11 11 11
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw Hythe Hay Lakes Holden Kinuso Lamont Manville Mundare Onoway Redwater	2 2 2 2 1 1 4 4 		22211421111111313
Beaverlodge Berwyn Black Diamond Bonnyville Bowden Bowness Burdett Carmangay Eckville Elk Point Falher Grimshaw Hythe Hay Lakes Holden Kinuso Lamont Manville Mundare Onoway Redwater Sedgewick		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2222114221111111313131
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	Central Alberta Sanatorium	Edmonton Sanatoria	Total
SUMMARY:		Denne of the	
Cities	130	124	254
Towns	43	27	70
Villages	19	21	40
Enlarged Municipal Districts	53	47	100
Local Improvement Districts	26	71	97
Special Areas Board	2	****	2
Non-residents	6	****	6
	279	290	569
	219	230	505
		20.0	
*AGE ON ADMISSION:			
From 1 to 9 years	17	21	38
From 10 to 14 years	6	17	23
From 15 to 19 years	32	44	76
From 20 to 29 years	87	80	167
From 30 to 39 years	63	45	108
From 40 to 49 years	28	39	67
From 50 to 59 years	28	23	51
From 60 to 69 years	15	7	22
70 years and over	3	14	17
	279	290	569
	213	230	505
*NATIVITY:			
Alberta	145	185	330
Canada (other Provinces)	55	43	98
Austria	1	3	4
Czechoslovakia	3		3
China	3	1	4
Denmark	3	1000	3
England	18	6	24
Esthonia	1	****	1
Finland	1		1
Greece	1	****	1
Hungary	1	3	2 4
Ireland Latvia	1	2	3
Norway	2	2	4
Poland	7	14	21
Russia	5	1	6
Roumania	1 :	2	3
Scotland	6	8	14
Turkey	1		1
Ukraine	2		2
United States of America	19	6	25
Yugoslavia Switzerland	1		1
		1 4	1
Sweden	****	4	1
Belgium		1	1
Malta		î	î
Isle of Man		î	î
Italy		2	2
France		1	1
Holland		1	1
Wales	4444	1	1
	279	290	569

*RESIDENCE IN ALBERTA:			
	100	100	
Born in Alberta	136	180	316
1 year or less 1 to 5 years	10 28	8 25	18 53
	28	25	53 9
6 to 9 years 10 to 14 years	10	6	16
15 to 19 years	15	8	23
20 to 30 years	33 .	23	56
30 years or more	40	38	78
	279	290	569

DEPARTMENT OF PUBLIC HEALTH

	Central Alberta Sanatorium	Edmonton Sanatoria	Total
RACIAL ORIGIN:	Sanatorium	Sallatoria	Total
Austrian	4	1	5
Belgian	2		2
Chinese	4	1	5
Czechoslovakian	5	1	6
Danish	7	1	8
Dutch	9	4	13
English	52	46	98
Esthonian	3		3
Finnish	6		6
French	11	16	27
German	21	11	32
Greek	2		2 2 2
Hungarian	2		2
Icelandic	1	1	
Irish	32	23	55
Italian		2	2
Japanese	2	1	3
Jewish	2		2
Latvian	1	2	3
Metis	13	71	84
Manx		1	1
Norwegian	12	9	21
Polish	6	22	28
Roumanian	2 *	1	3
Russian	5	1	6
Swedish		8	15
Scottish	44	31	75
Ukrainian	13	25	38
Welsh	7	2	9
Unknown	4	9	13
	279	200	569
	210	400	505

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

LENGTH OF STAY IN SANATORIUM OF 569 DISCHARGED PATIENTS DEATHS:

Number in Sanatorium under 31 days	7	15	22
Number of patient days	74	115	189
Average number patient days	10.5	7.3	8.6
Number in Sanatorium 31 or more days	21	21	42
Number of patient days	12,599	7.788	20,387
Average number patient days	599.5	370.9	485.4
DISCHARGES:			
Number in Sanatorium under 31 days	30	52	82
Number of patient days	496	594	1,090
Average number patient days	16.5	11.4	13.3
Number in Sanatorium 31 days or more	221	202	443
Number of patient days	77.317	41.721	119.038
Average number patient days	349.8		
		206.5	268.7
Total number deaths and discharges	279	290	569
Total patient days	90.486	50.218	140,704
Average number patient days	324.3	173.2	247.3
No. non-pulmonary admissions(individual)	27	20	11
No. non-pulmonary patient days (calendar)	4,936	9.668	244
Average patient days, non-pulmonary	112.2	230.2	154.1
for the particular and s, non-particular gamme			
	(44 pts.)	(42 pts.)	(11 pts.)

DONATIONS AND ENTERTAINMENT

CENTRAL ALBERTA SANATORIUM

- ENTERTAINMENT—Hillhurst United Y.P.S., Concert; Al-San Club, Calgary, Entertain-ment; CFCN, Calgary, Entertainment; Canadian Red Cross, Christmas Concert and weekly showing 16 mm. films; St. Stephen's Church A.Y.P.A., Carols; Elks' Concert Party, Concert; Weekly Shows; Valentine Party; Hallowe'en Party; Cribbage Tourna-ment; Billiard Tournament.
- DONATIONS—Kinettes, Cash \$75.00 for Occupational Therapy, Canary; Ladies" Auxiliary Canadian Legion, Vulcan, Cash; J. W. Hughes, Kelowna, Tulips and Flowers, Dr. Baker's Farewell; Alberta Division Red Cross, Pyjamas; Hurson's Bay Co., Calgary, Decorations, Dr. Baker's Farewell and Christmas; A. M. Terrill Ltd. Calgary, Flowers, Dr. Baker's Farewell; Drumheller Mail, Subscriptions; Simmons Ltd., Candy; Camp-bell Floral Co., Calgary, Flowers; McGaven's Ltd., Calgary, Christmas Cakes; Palace Bakery, Calgary, Christmas Cake; Bowness Taxi, Christmas Cake; Canadian Red Cross, Gifts; Masonic Lodge, Candy and Gifts; Children's Hospital Aid, Calgary, Records; Salvation Army, Calgary, Gifts; Oddfellows Lodge, Calgary, Gifts and Santa Claus; Nursing Mission, Lethbridge, Gifts; Ladies' Auxiliary, Canadian Legion, Turner Valley, Gifts; Evening Auxiliary, Hillhurst United Church, Gifts; Diocesan Board, Women's Auxiliary of Anglican Church, Calgary, Gifts; Ladies' Auxiliary, Alberta Provincial Command, Canadian Legion, Gifts; Mrs. A. Buchner, Calgary, Flowers; Eaton's' Legion Christmas Tree, Gifts; Bowness Catholic Women's League, Gifts; St. John's Catholic Women's League, Gifts; Ste. Famille Church, Calgary, Gifts, City of Edmonton, Anniversary Cake. City of Edmonton, Anniversary Cake.

GIFTS, DONATIONS AND ENTERTAINMENT

ROYAL ALEXANDRA HOSPITAL

Salvation Army, Gifts of Fruit, Candy, etc., Carol Singing Christmas Eve; Choral Club of Royal Alexandra Hospital, Music and Carols at intervals during winter season; Central Christian Church, Travelogue with pictures and music; Beulah Tabernacle Choir, Music and Pictures; Women's Auxiliary of the Royal Alexandra Hospital, Gifts of Candy and Soap, Christmas Party; Donation of Life Magazine from the Ukranian Church Ladies' Aid Society.

EDMONTON GENERAL HOSPITAL

BASKETS OF FRUITS, NUTS, AND CANDIES:

- No. 202 Jack Wong and No. 202A George Mah. The Chinese Ladies' United Church Club, Mrs. Lee Toy, Dec. 20, 1950.
- No. 241 Walter Hunka, No. 238 Thomas Bamford, and No. 218 Clark Barrett, Central United Church W.M.A., Mrs. W. B. Yule (President), 9366 Cameron Ave., Edmonton (also one other lady), Dec. 20, 1950.
- 3. No. 234 D. Collier and No. 233 F. Baton, Eastwood United Church W.M.S., Mrs. Hackett, Dec. 21, 1950.
- No. 256 J. Gray and No. 262 H. White, Metropolitan United Church W.M.S., Mrs. Taylor and Mrs. Sommerville, Dec. 21, 1950.
- No. 200 L. Wilcox, No. 208 M. Way, and No. 220 A. Brassnett, Metropolitan United Church W.M.S., Mrs. Leech (President, Mrs. A. G. Andrews).
- No. 235 J. Rash, No. 242 F. Ahlgren, No. 243 George Steffler, No. 247 Edwin Anderson, and No. 248 P. Hartlage, St. Peter's Bethlehem and Grace Lutheran Churches, Mrs. Harold Brown, 11151 70th Street, Mrs. Harry Patterson, 11315 70th Street, Dec. 21, 1950.
- No. 260 M. Theroux and No. 261 J. Mason, Buchanan United W.M.S., Mrs. Derby-shire and daughter, Dec. 21, 1950.

OTHER CHRISTMAS GIF

- Year's subscription to Maclean's Magazine for Men's Ward Sanatorium, Fort Edmonton Chapter I.O.D.E. 1.
- A subscription to Reader's Digest for Men's Ward Sanatorium, Fort Edmonton 2. Chapter I.O.D.E.
- Women's Auxiliary of General Hospital, Mrs. Wm. Schlader, 10728 125th Street, Edmonton (Chairman of the Recreation Committee for Children): 2 Christmas films for all patients, clothing and fruits, nuts and candies for five needy children, a Santa Claus, and a lunch for all patients, Dec. 18, 1950.
- Lady Bessborough Chapter I.O.D.E.: Mrs. W. H. Begg, 10952 125 Street, Edmonton, 3 Jap oranges, 1 box candy and 1 package of cigarettes for each of 15 veterans, 1 crokinole board for all patients, Dec. 20, 1950.
- Ukrainian Catholic Ladies' Goodwill Club: Mrs. Zarsky (President), 1140 Edmonton, 2 cases of oranges for all tuberculosis patients, Dec. 21, 1950. 11401 86th St.,
- Lutheran Youth Federation of Edmonton: Mr. Alfred Querengesser (President). 11107 132nd Street, Edmonton, a group of approximately 40 to 50 carol singers, Dec. 20, 1950.
- 7. St. Mary's High School: Miss Audrey Cyr, Director, 12950 124th Street, Edmonton, carol singing, Dec. 21, 1950.
- 8. Ken Fenton: Jap oranges, candy and nuts, Dec. 24, 1950.
- Parcels of fruit, etc., to all veterans from Ladies' Auxiliary Canadian Legion, Provincial Command, Dec. 24,1950.
- 10. Christmas gifts, cash, and candies from Legion, Dec. 24, 1950.
- 11. Carol singers from the Augustana Lutheran Church, Dec. 25, 1950.
- 12. Women's Auxiliary of General Hospital: Various films for all patients, December 20, 1950.
- 13. Two potted flowers from Rene Flowers, Jan. 3, 1951.
- 14. Flowers from the funeral of Mr. William Rice, Jan. 6, 1951.

Division of Mental Health

RANDALL R. MACLEAN, M.D., Director.

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

Eugenics Board. Provincial Guidance Clinics. Provincial Mental Hospital, Ponoka. Provincial Mental Institute, Edmonton. Provincial Auxiliary Mental Hospital, Claresholm. Provincial Auxiliary Mental Hospital, Raymond. Provincial Training School for Defectives, Red Deer.

The total patient population in the various institutions in this Division on January 1st, 1950, was 3,171 (males 1,943, females 1,228). This represented a gain of 198 patients (males 100, females 98). The Provincial Mental Hospital, Ponoka, serving as the chief admission hospital, admitted 647 patients (male 314, female 333) during the year. This was 60 more admissions than the previous The Provincial Mental Institute, Edmonton, admitted 297 vear. patients (males 176, females 121) during the year. This was 37 more than the previous year. The Provincial Mental Hospital, Ponoka, and the Provincial Mental Institute, Edmonton, gave extensive service treatment to all cases requiring this. The Provincial Training School, Red Deer, increased its admission rate as a result of its increased accommodation. During the year, 101 children were admitted (male 56, females 45). This was 61 more than the previous year. With improvement in the accommodation for the children, and with increased activity in the training programme, there was an improvement in the discharge rate, 19 children being allowed to leave the School as compared with 10 during the previous year.

During the year, 153 patients were involved in transfers to and from the various institutions. Twenty-nine patients were discharged from the Provincial Mental Hospital, Ponoka, and the Provincial Mental Institute, Edmonton—14 and 13 respectively and immediately accepted at Rosehaven in Camrose.

Work continued during 1950 on the new Psychiatric Ward of the University of Alberta Hospital, Edmonton, in the hope of opening it during 1951. Work was commenced on the Psychiatric Ward of the Calgary General Hospital.

During the year there was a considerable amount of new building construction in connection with a number of the institutions. A new dormitory for girls was opened at the Provincial Training School, Red Deer. Work continued on the alterations of the kitchen and staff dining halls at the same institution. The new power house was practically completed here also, as well as a new root cellar and new stores' accommodation. Work continued on the new Tuberculosis wing at the Provincial Mental Institute, Edmonton. A new section of the corridor system was erected and, certain alterations were made to the kitchen. The services of the Provincial Guidance Clinics were somewhat expanded. In addition to the points visited in previous years, two visits were paid to the Peace River area. The clinic staffs continued to participate in public education activities, including lectures, talks to community groups, radio work, and group discussions and institutes. The new case load was materially increased during the year.

Nine meetings of the Eugenics Board were held; five of these at the Provincial Mental Hospital at Ponoka and four at the Provincial Training School, Red Deer. A total of 98 cases was presented for the Board's consideration. Sixty-seven operations (male 21, female 46) were performed during the year. The total number of cases operated upon to December 31st, 1950, was 1,242 (male 496, female 746). The operations were performed at the Provincial Mental Hospital, Ponoka, by duly appointed honorary surgeons, assisted by the medical staff of the said hospital.

TABULATED SUMMARY-INSTITUTIONS: MOVEMENT OF PATIENTS

Hospital			in Hosp. , 1950		Admissions			char	rges	D	eat		Patients in Hosp. Dec. 31, 1950		
		M.	F. T.	1	I. F.	т.	M.	F.	Т.	M.	F.	T.	M.	F.	T.
Ponoka Oliver Red Deer	839 945 159		1394 1273 293	$314 \\ 176 \\ 56$	333 121 45	647 297 101		276 108 13		41 41 7	15 15 3	56 56 10	891 950 202		$ \begin{array}{r} 1488 \\ 1285 \\ 365 \end{array} $
Claresholm	135	98 113	98 113		9 27	9 27		15 7 6	7 6		21	21		98 133	98 133
Total	1943	1228	3171	546	535	1081	365	410	775	89	36	125	2043	1326	3369

NOTE: Admissions in this table include "Transfers In"; Discharges in this table include "Transfers Out".

PROVINCIAL MENTAL HOSPITAL, PONOKA

Patient Population Changes.

The number of patients in residence on January 1st, 1950 was 1,394, of whom 839 were male and 555 female. On December 31st, 1950, there were in residence 1,488 patients, of whom 891 were male and 597 female. There was an overall increase of 94 in the patient population.

Admission of Patients.

Exclusive of transfers from other mental institutions, 607 patients were admitted. This was an increase of 55 over 1949. Of these, 307 were male and 300 female. There were 131 patients admitted voluntarily, 134 admitted by medical certificate, 332 by Warrant of the Attorney General, and 10 under "The Mental Defectives Act"; 40 patients were transferred to this hospital from other Provincial mental institutions. The number of those admitted with senile disorders was relatively unchanged, but there was a further decided reduction of those with disorders due to Syphilis. In 1950, the latter amounted to only slightly more than 2% of admissions. For some years there has been a steady decrease in the number of syphilitic patients admitted to this hospital. The proportions in the other diagnostic categories were essentially the same as in the previous year.

Separation of Patients.

The number of separations was 551, including 61 who were transferred to other Provincial mental institutions. There were 434 discharged, and 56 patients died.

Accidents and Elopements.

There were in all 12 patients who suffered from fractured bones, the number being equally divided among the sexes. There were no other serious accidents.

There were no suicidal deaths, but many patients were prevented by the staff from ending their lives in this manner.

There were 27 elopements, most of whom were returned within a short time by the hospital staff or the local branch of the R.C.M.P.

General Health.

There were no epidemics during the year, and the general health of the patients was good. Continual vigilance was maintained to keep those with Tuberculosis isolated from the others.

Clinical Work.

An active treatment programme was maintained. Augmented laboratory equipment was made available. Diagnostic facilities in general were satisfactory. Every effort was made by the medical officer to maintain the physical health of patients and to correct abnormalities.

Psychotherapy in its various aspects was made available to as many patients as possible. Whenever indicated, the shock therapies, both electro and insulin, were utilized. Malarial therapy was used to a lesser extent.

Occupational Therapy.

The facilities for this form of treatment were much improved. A newly constructed building, especially designed for this Department, was opened. Additional equipment was purchased and installed. It was possible to offer patients instruction in a wide variety of crafts, and therapeutic results were gratifying. 'The Library and Canteen continued to operate to the advantage of patients.

Recreational Therapy and Physical Training.

An active programme was maintained throughout the year. During the winter months, regular physical training classes were held for men. Music appreciation classes were conducted for men and women. Group activities on the wards and skating parties on the hospital rink were arranged frequently. There was much interest by patients in curling, of which there was a heavy schedule. Dances were held every second week. The hospital staff and a number of interested visiting groups gave most valuable assistance in entertainment.

Beauty Parlour.

A visit to the Beauty Parlour has now become accepted practice for all women patients. Not only is this much appreciated by the women, but it is also stimulating therapy. Nearly 8,000 procedures were carried out during the year. Selected patients regularly assisted the operators.

Religious Services.

As in previous years, services were conducted each Sunday by visiting clergymen of the major denominations. The services were always well attended. Many patients also were seen individually by the visiting clergy, usually at the request of the patient or relatives.

Social Service.

This Department fully proved its value during the year. The Social Worker's services were utilized for many patients in the hospital, and particularly with a view to re-establishment in the community. Many discharged patients were visited, and it is of interest to note that almost invariably these visits were welcomed and appreciated. Many relatives were interviewed at the hospital. The Social Worker was called on frequently for duties ordinarily carried out by a Psychologist.

Dental Services.

The Dental Office carried on with efficiency. The staff consisted of a full-time dentist and a nurse assistant. All patients were referred regularly for examination, and whenever necessary treatment was carried out. Following is a list of the services randered to patients during the year:

	Ponoka	Claresholm	Raymond	Total
No. of patient appointments	2,101	60	78	2,239
Operations are divided as follows:: No. of examinations	1.596	60	76	
No. of teeth filled	372	15	10	
No. of extractions	347	16	7	
No. of prophylaxis	416	18	34	
No. of peridental treatments No. of sundry operations (X.rays, den-	353	11	11	
ture impressions and adjustments)	226		7	
No. of new dentures	31		2	****
No. of dentures repaired	45		2	****
No. of gold inlays	1		****	
No. of bridge repairs	3			3.659
Totals	3,390	120	149	3.659

X-Ray Services.

The recently installed X-ray plant proved very satisfactory, under the direction of a nurse technician. There has been a steadily increasing demand from the medical staff for X-ray examinations. The number of procedures in 1950 exceeded by approximately 500 those done in the previous year. All chest X-ray plates were referred to the Central Alberta Sanatorium, Calgary. Their valuable interpretations were highly appreciated by the medical staff of this hospital. Following is a detailed list of the procedures carried out during the year:

Item	No.	Item	No.
Chest	. 2620	Ankle	. 21
Dorsal Spine	895	Foot	18
Lumbar Spine	25	Toe	9
Cervical Spine	0	Flat Plate of Abdomen	
Skull	57	Symphysis Pubis	1
Skull (stereo)	1	Intravenous Pyelogram	
Rib	24	Gall Bladder Region	10
Shoulder	18	Gall Bladder	9
Arm	8	Barium (Stomach)	. 10
Elbow		Barium Enema	. 7
Wrist	22	Esophagus	. 4
Hand	20	Abdomen (pregnancy)	. 2
Finger	12	Sacro-iliac	. 2
Jaw	. 2	Mastoid	. 6
Pelvis	11	Dental	. 7
Hip	30	Zygomatic Arch	. 1
Femur	7	Bladder	. 1
Hip (for Bismuth)		Flurescopic examinations	. 18
Knee	27	and the second second second second second second second second second second second second second second second	
Heel	. 4	Total	3,657
Leg	5		

Laboratory Services.

The Laboratory continued to function efficiently. The needs of the hospital for the usual laboratory examinations were adequately met. The position of Pathologist remained unfilled, no applicants being available. In so far as possible, the regular medical staff provided technical advice and assistance. Following is a list of procedures carried out during the year:

Urinalyses Blood Counts Blood Chemistry Sputa Cerebrospinal fluids	2,809 1,416 527 968 596
Smears: Vaginal, Throat Differential Counts and Malarie Basal Metabolism estimations Miscellaneous, Cardiographs, etc. Post-mortem examinations	58 172 38 61 18
Total	6,663
Specimens to the Provincial Laboratory: Wassermann, Blood Chemistry, Cultures, etc.	1,492
The Canadian Red Cross Blood Donor Service: 25.00 Blood received (for 14 patients) 25.00 Blood returned 3.00	00 c.c. 00 c.c.

Nurses' Training School.

The teaching programme, with minor modifications, was maintained as in recent years. The staff consisted of three instructors, fully qualified in general and psychiatric nursing, as well as in teaching. Instruction was given to 19 student nurses and 34 student attendants from this hospital. Ten registered nurses completed the eight month graduate course in phychiatric nursing. Twenty-two nursing students in public health spent two weeks here in a planned programme of instruction and observation. The Archer Memorial Hospital of Lamont and the Galt Hospital of Lethbridge each sent 12 students as undergraduate affiliates, for eight week periods. This arrangement has proved highly satisfactory. The training of students at this hospital from the School of Nursing Aides in Calgary was discontinued in June, 1950, because of a change in plans by the latter school. It is hoped that at some future time the facilities of the School of Nursing of this hospital will again be utilized by the School of Nursing Aides.

Appropriate instruction was extended to ward aides and other members of the staff, the better to enable them to give service to the patients.

Medical Library.

A considerable number of volumes were added. Journals were bound and placed in the shelves. The Library continued to serve efficiently as a reference source to the staff.

Visitors.

During the year the hospital had a number of distinguished visitors. On various occasions the hospital was honoured by Dr. W. W. Cross, the Minister of Health, and Dr. M. R. Bow, the Deputy Minister of Health. Their interest was highly appreciated, as well as their advice and direction. It was pleasing to receive informal calls from individual members of the Provincial Legislature.

Dr. Randall R. MacLean, Director of The Division of Mental Health, maintained his headquarters here. He frequently inspected the hospital, and his advice was sought on many occasions. His sympathetic understanding and wise counsel were greatly valued, and lessened many of the problems of administration.

The visiting Board, comprised of members of the Eugenics Board, made its annual inspection of the hospital. This was searching, and inquiry was made regarding all aspects of the care of

patients. A very desirable feature of the inspection was the opportunity made available by the Board for the discussion of problems, with the senior members of the medical staff.

Throughout the year, a great number of relatives and friends visited patients in the hospital. Visiting hours were maintained daily without exception.

Eugenics Board.

Five meetings were held by the Board at this hospital during the year. There were 67 patients presented to the Board here, of whom 26 were male and 41 female. Sixty-five eugenical operations were carried out, of which 21 were on males and 44 on females. A number of those so treated surgically were referred from the Provincial Training School at Red Deer, Alberta.

Surgical Services.

Minor surgery was carried out by the regular medical staff. Major surgical procedures were undertaken by Dr. J. W. Richardson and Dr. J. Ross Vant. The latter was most helpful in many consultations.

Maintenance Department.

The buildings were maintained in a proper state of repair. Much redecorating was done. Various changes were carried out in the main kitchen to promote efficiency. A regular programme of insect pest control was maintained with excellent results.

Fire Protection.

The equipment was maintained and regularly inspected. Frequent fire drills were held on the wards, and with the equipment. The members of the Volunteer Fire Department demonstrated commendable zeal.

Business Office.

This department continued to function satisfactorily as in previous years.

Farm.

There has been a steady improvement in the quality of the dairy herd. The proportion of registered stock was increased. Pork and poultry produces were supplied to the hospital in adequate amounts. Due to unfavourable weather conditions, the grain yield was below normal, but the potato crop was fair.

Gardens.

The season was dry, but there was an adequate supply of vegetables for immediate use and storage.

Cannery.

Over 23,000 cans of food were processed. Much of the food canned was raised on the hospital grounds.

Dietary Department.

The Dietitian maintained supervision over the preparation of food and the dining facilities. A great many special diets were provided to patients. Whenever possible, improvements were made in the quality and preparation of foods.

Housekeeping Department.

The Housekeeper carefully supervised maintenance, repair and replacement of furnishings and supplies. A careful inventory was maintained in all departments. There was close liaison between the Housekeeper and the maintenance department in all redecorating operations through the hospital.

Laundry.

The new Laundry functioned with reasonable efficiency, but minor difficulties were encountered in the operation of the recently installed machinery. These problems were, however, gradually eliminated during the year, and in general, the new installation proved much more satisfactory than the former plant. Work continued in the preparation of the new ironing and pressing room.

Linen Room.

This department functioned efficiently as in previous years. Preparation was made for transfer of the linen room to quarters made available in the former mangle room of the Laundry.

Tailor Shop.

It was necessary that this department operate at full capacity to fill the requirements of the male patients, and to supply uniforms for attendants. Some difficulty was encountered in obtaining materials. This department is exceptionally well equipped with power machinery.

Sewing Room.

It was with difficulty that this department met the needs of the hospital for women's clothing and uniforms for the female staff. The number of articles manufactured was in excess of 23,000. A change from two to one-piece dresses was made in the uniforms worn by the domestic staff. This entailed increased work during the year for the sewing room, but should minimize requirements in the future.

Print Shop.

This department continued to meet the needs of the hospital in the printing of nearly all forms used. From time to time, orders were filled for other branches of the Department of Public Health.

Department of the Chief Engineer.

The Chief Engineer and his staff co-operated to the fullest extent with the personnel of the Department of Public Health in providing appropriate facilities to the hospital, and at all times were prepared to offer technical advice. The hospital was well heated, and there was an adequate supply of light and water.

Conclusion.

The treatment and care of patients was maintained at a level in keeping with departmental policy. Wherever possible, methods of therapy were improved, and the staff kept abreast of new developments in the field of psychiatry. The morale of the staff was good, and this was reflected in the sustained effort to promote the welfare of patients. Those responsible for the administration of this hospital were very grateful for the co-operation of the staff and the helpful interest shown by the authorities of the Department of Public Health.

TABLE 1

MOVEMENT OF PATIENT POPULATION DURING 1950

In residence as of December 31st, 1950 On leave or otherwise absent	Male	Female	Total	Male 839 12	Female 555 6	Total 1394 18
Admissions:						
First Admissions: (a) Voluntary (b) Certificates (c) Warrant (d) M.D. Act	$40 \\ 32 \\ 145 \\ 4$	43 58 91 2	83 90 236 6			
Total first admissions				221	194	415
Re-Admissions:						
(a) Voluntary (b) Certificates	13 16	35 28	48 44			
(c) Warrant	49	47	96			
(d) M.D. Act	1	3	4			
Total re-admissions	distriction	of the second	and per	79	113	192
Transfers in				14	26	40
Total Admissions				314	333	647
				1165	894	2059
Separations:						
Discharges: As recovered	64	65	129			
As improved	56	89	145			
As unchanged Without psychoses	53 34	26 47	79 81			
Total discharges				207	227	234
Deaths Transfers out				41 12	15 49	56 61
Total separations				260	291	551
On books as of December 31st, 1950 In residence as of December 31st, 1950				905 891	603 597	1508 1488
in residence as or December 31st, 1950						
On leave or otherwise absent				14	6	20

DEPARTMENT OF PUBLIC HEALTH

TABLE No. 2

	TABLE No. 2			
	RESIDENT PATIENT POPULATION BY PSYCHOSES, DECEM	IBER	31, 1950	
~ *	Psychoses		Female	
01 02	Psychoses with syphilitic meningoencephalitis (general paresis). Psychoses with other forms of syphilis of the central nervous	51	10	61
02	system:			
	021 Meningo-vascular type (cerebrals)	4		4
	022 With intracranial gumma 023 Other types (Taboparesis)	1 6	3	1 9
03	Psychoses with epidemic encephalitis	2	3	5
04	Psychoses with other infectious diseases:			
05	044 With other infectious disease	2		2
00	051 Pathological intoxication	1		1
	052 Delirium tremens	3		3
	053 Korsakow's psychoses 054 Acute hallucinosis	3 9		3 10
	055 Other types	1	1	10
06	Psychoses due to drugs or other exogenous poisons	1		ĩ
07	064 Due to other drugs (specify)	1		1
0.	071 Traumatic delirium	1		1
	072 Post-traumatic personality disorders	î		î
	073 Post-traumatic mental deterioration	2		2
08	074 Other types (specify)	1 37	13	1 50
09	Psychoses with other disturbances of circulation:	31	10	50
	091 With cerebral embolism	2	1	3
10	093 Other types (specify) Psychoses with convulsive disorders::	2	****	2
10	101 Epileptic deterioration	11	8	19
	102 Epileptic clouded states	7	3	10
	103 Epileptic, other types	4	5	9
11	Senile psychoses: 111 Simple deterioration	11	19	30
	114 Depressed and agitated	1	15	2
	115 Paranoid types	5	3	8
12	Involutional melancholia: 121 Melancholia		10	0.0
	122 Paranoid types	11	12 2	23
13	Psychoses due to other metabolic, etc., diseases:	1	-	
	131 With diseases of the endocrine glands	1		1
	133 Alzheimer's disease 135 With other somatic diseases (specify)		1	12
15	Psychoses associated with organic changes:			4
	151 With multiple sclerosis			4
	152 With paralysis agitans 153 With Huntington's chorea	2	****	2
	153 With Huntington's chorea 154 With other brain or nervous diseases	4	1	52
16	Psychoneuroses:			-
	161 Hysteria 163 Neurasthenia		2	2
	163 Neurasthenia 164 Hypochonriasis		2	22
	165 Reactive depressions			4
	166 Anxiety state 167 Mixed psychoneurosis		1	1
17	167 Mixed psychoneurosis Manic-depressive psychoses:		1	1
	171 Manic type	30	32	62
	172 Depressive type	8	21	29
	173 Circular type 177 Other types	1	5	6
18	Dementia Praecox (Schizophrenia):		6	6
	181 Simple type	8	15	23
	182 Hebephrenic type 183 Catatonic type	22	15	37
	183 Catatonic type 184 Paranoid type	250 155	196 79	446
	185 Other types	100	2	234 3
19	Paranola and paranold conditions:		-	
	191 Paranoia 192 Paranoid conditions	19	1	20
20	Psychoses with psychopathic personality	48 2	43	91 2
21	Psychoses with mental deficiency	68	36	104
22 23	Undiagnosed psychoses	5	11	16
20	Without psychoses 231 Epilepsy	6 5	1 4	7 9
	2311 Epilepsy only		1	1
	2312 Epilepsy with mental deficiency	2	4	6
	232 Alcoholism 233 Drug addiction		2	2
	234 Mental deficiency:		5	5
	2341 Idiot		1-	1
	2342 Imbecile	4	1	1
	2343 Moron 2344 Unspecified	2 51	1 15	3
	235 Disorders of personality due to epidemic encephalitis	2	15	66 4
	236 Psychopathic personality	ī	ĩ	2
	2361 With pathological sexuality 242 Neurosyphilis	1		1
24	Primary behaviour disorders::	1	ina	1
	241 Simple adult maladjustment	1		1
	Totale			-
	Totals	891	597	1488

. TABLE No. 3

PSYCHOSES OF ADMISSIONS, RE-ADMISSIONS AND TRANSFERS IN

	PSYCHOSES OF ADMISSIONS, RE-ADMISSIONS AND TRA	ANSFERS	5 IN	
	Psychoses	Male Fe	male 1	Fotal
01	Psychoses with syphilitic meningoencephalitis (general paresis)	4		4
02	Psychoses with other forms of syphilis of the central nervous	3		3
	old Meningo-vascular type (cerebrals)	2		2
	021 Meningo-vascular type (cerebrals) 023 Other types (Taboparesis)		****	****
03	Psychoses with epidemic encephalitis	1	****	1
04	Developee with other infectious diseases:			1
0.5	044 With other infectious diseases	1	****	
05	Alcoholic psychoses: 051 Pathological intoxication	1	and .	1
	052 Delirium tremens			7
	053 Korsakow's psychosis	0	5	82
	054 Acute hallucinosis	2	****	-
06	055 Other types Psychoses due to drugs or other exogenous poisons	1		1
07	Traumatic nevchoses			-
	071 Traumatic delirium	2	****	2
	072 Post-traumatic personality disorders	1 26	14	40
0.0	074 Other types (specify) Psychoses with cerebral arteriosclerosis	1		1
08	Psychoses with other disturbances of circulation:			
00	091 With cerebral embolism	1	****	1
	092 With cardio-renal disease	32	1	3
	093 Other types (specify)	-	*	
10	Psychoses with convulsive disorders: 101 Epileptic deterioration	5	1	6
	102 Epileptic clouded states	1	1	2
	103 Other epileptic types	13	14	27
11	Senile psychoses:	1	2	3
	111 Simple deterioration	4	1	5
	114 Depressed and agitated 115 Paranoid types	4	9	13
12	Involutional nevchoses'			
	121 Melancholia	1	1	22
	122 Paranold types	1 2	1 6	8
10	123 Other types (specify) Psychoses due to other metabolic, etc., diseases:	-		
13	135 With other somatic diseases (specify)	1		1
14	Developees due to new growth'			150
	141 With intracranial neoplasms	94	56	150
15			1	1
	153 With Huntington's Chorea 154 With other brain or nervous diseases	3		3
16	Psychoneuroses	1	6	7
10	161 Hysteria	1	2	3
	162 Psychasthenia or compulsive states		4	6
	163 Neurasthenia 164 Hypochondriasis		11	19
	165 Reactive depression	Ð	2	7
	166 Anxiety state	2	1	3
	167 Mixed psychoneurosis	14	19	33
17		7	16	23
	171 Manic type 172 Depressive type	3	8	11
	173 Circular type	+	2	3
	174 Mixed type	6	2	63
	177 Other types	1	-	5
18			1	1
	182 Hebenbrenic type	50	80	136
	183 Catatonic type	. 9	12	21
	184 Paranoid type		3 22	3 41
	185 Other types			**
19	102 Darapoid conditions			
20	0 Psychoses with psychopathic personality	0	3	11
2	1 Psychology with mental deficiency	. 10	10	23 35
23	9 Undiagnosed psychoses	. 66	13 1	1
2				-
	231 Epilepsy: 2312 Epilepsy with mental deficiency	. 6	4	10
	999 Alashalism		17	2
	233 Drug addiction	. 9	17	26
	234 Mental deficiency:		22	31
		. 4	7	11
	2343 Moron 2344 Unspecified	. 1	1	2
	and Developethic personality			
	2262 With nathological emotionality	. 1	****	1
	241 Tabes Dorsalis		****	
	A Delmont hehemieur dicorders'			10. 10
	A Delmort hohoviour disorders	. 3	1	4
-	241 Simple adult maladjustment		5	8
			333	647
	Totals			

.

TABLE No. 4

NATIVITY OF FIRST ADMISSIONS DURING 1950

Nativittes	Male	Femal	e Total	Nativities	Male	Female	Total
Australia	1		1	Lithuania		2	2
Austria	4	3	7	Norway	3	2	5
Belgium	1		1	Poland	12	13	25
Canada	108	124	232	Roumania	5		5
China	2		2	Russia	6	4	10
Czechoslovakia	2		2	Scotland	8	6	14
Denmark	1		1	Sweden	6	in a	6
England	14	16	30	Switzerland	1		1
Finland	1		1	United States	26	13	39
Germany	1	1	2	Other British Possessions	1	2	3
Holland	2		2 .	Other Countries	3	1	4
Hungary	5	2	7	Not given	1		1
Ireland	6	5	11	and the second se		-	-
Jugoslavia	1		1	Totals	221	194	415

TABLE No. 5

AGES OF PATIENTS ADMITTED DURING 1950

	M.	F.	Т.		M	F. T.
Under 15 years		10	10	50 to 54 years 2	0 11	31
15 to 19 years	9	8	17	55 to 59 years	5 9	24
20 to 24 years	23	23	46	60 to 64 years 1	6 7	23
25 to 29 years	21	18	39	65 to 69 years 1	1 9	20
30 to 34 years	16	19	35	75 years and over 3	5 19	54
35 to 39 years	16	24	40	- sile closels below a lot		
40 to 44 years	15	18	33	Totals	1 194	415
45 to 49 years	24	19	43			

TABLE No. 6

DISCHARGES BY PSYCHOSES AND CONDITION ON DISCHARGE

		Re M.		Im M.	р. F.		mp. F.		fota F.	
01.	Psychoses with syphilitic meningo- encephalitis (general paresis)			1	1	1		2	1	3
02.	Psychoses with other forms of syphilis of the central nervous system: 021 Meningo-vascular type (cerebrals)					1		1		1
	023 Other types (Taboparesis)			2				2		2
03.	Psychoses with epidemic encephalitis						****			
04.	Psychoses with other infectious diseases: 045 Post-infectious psychoses	1		Same				1		1
05.	Alcoholic psychosis: 051 Pathological intoxication	1						1		1
	052 Delirium tremens	3						3	****	3
	053 Korsakow's psychoses 054 Acute hallucinosis	2	4	1			****	12	4	6
	055 Other types	ĩ		1				2		2
06.	Psychoses due to drugs or other exo- genous poisons									
07.	Traumatic psychoses: 071 Traumatic delirium			1				1		1
	073 Post-traumatic mental deteriora- tion			-		1		1		1
	074 Other types (specify)	1				ĩ		2		2
08.	Psychoses with cerebral arteriosclerosis	3	3	2	1	2	5	7	9	16
09.	Psychoses with other disturbances of circulation:									
	093 Other types (specify)	1		****			****	1		1
10.	Psychoses with convulsive disorders: 102 Epileptic clouded states 103 Other epileptic types	4			1			5	1	6 1
11.	Senile Psychoses:							-		-
11.	111 Simple deterioration				1	6	4	6	52	11 3
	114 Depressed and agitated types 115 Paranoid types					3	1	3		3
12.	Involutional psychoses:									14
	122 Paranoid types 123 Other types (specify)	1	5	2	6			3	11	14 2
13.	Psychoses due to other metabolic, etc., diseases: :					1 boot				
14	135 With other somatic diseases Psychoses due to new growth::		****		1		****	1	2	3
14.	141 With intracranial neoplasms				1		1	1		1
15.	Psychoses associated with organic changes									

TABLE No. 6-Continued

			eg. F.		np.		imp. L. F.	N	Total M. F.		
16.	Psychoneuroses:								-	. т.	
	161 Hysteria	1	1		4		1	1	6	7	
	162 Psychasthenia or compulsive states				3	1		1	3	4	
	163 Neurasthenia					î		î		i	
	164 Hypochronriasis			2	4			2	4		
	165 Reactive depression		1	4	6	2		6		13	
	166 Anxiety state	1		5	2			6	2	8	
	167 Mixed psychoneurosis			2				2		2	
17	Manic-depressive psychoses:										
	171 Manic type	9	10	2	10	1		12	20	32	
	172 Depressive type	6	6	1	6		1	7	13		
	173 Circular type		2	1	1			1	3	4	
	174 Mixed type		2						2	4	
	177 Other types			2		1		3		3	
18.	Dementia praecox (Schizophrenia):										
	181 Simple type				inter .					and the second	
	183 Catatonic type	19	21	19	28	12	8	50			
	184 Paranoid type	1	1	2	3	9	1	12	5	17	
	185 Other types		1		1	1		1	2	3	
19.	Paranoia and paraoid conditions:										
	192 Paranoid conditions		1	1	5	5	5	6	11	17	
20.	Psychoses with psychopathic personality	1						1		1	
21.	Psychoses with mental deficiency		2	1			1	2	2		
22.	Undiagnosed psychoses	6	4	2	2	3	1	11	7	18	
23.		0			-	1.00	Sec. 25.	022		1.11.1.1	
20.	Without psychoses				****	16	12	16	12		
	2311 Epilepsy only 232 Alcoholism						1		1	1	
	233 Drug addiction	1111				7	3	7	3	10	
	234 Mental deficiency::		*****	0.010	****		1		1	1	
	2342 Imbecile					2	13	2	10	15	
	2343 Moron						8		13	15 8	
	2344 Unspecified						2		2	2	
	235 Disorders of personality due to						-		-	-	
	epidemic enceppalitis										
	236 Psychopathic personality					2		2		2	
	2362 With pathological emotion-							-		-	
	ality	inter .		****		1	iner	1		1	
	241 Tabes dorsalis	++++				1		1		1	
1	242 Neurosyphilis					3	1	3	1	4	
24.	Primary behaviour disorders:										
	241 Simple adult maladjustment				1	2	5	2	6	8	
	Totale		or		00						
	Totals	64	65	56	89	87	73	207	227	434	

		F	0	0	-	-	13		16	-	-	16	16	e	-		11	27	17		* C	130	8	34	
	Total	i.	-																				9		
	F		01						e 1-														61		
		M.														14		-						12	
	-	H	1	1			-										-	00	-			1		1	
	ver		:																						
	Over 3 years			-																					
		M.						-						-		-	-				:00				
		.:	01			:		:		:		÷	-	-		:	:0	110		-	:		1	13	
	der	H																							
	Under 3 years	-		:																				-	
		M.		;	-				: :				;		+	•	:	1065	:	-	:	: :	-		
		.:		-			:		: 00		61	-	~		-			00	-	-				19	
CE	Under 2 years	H																					1 1		
DEL	Und 2 ye	14 ·	-																				. 1		
22		M.	-	-	-	-	:	-		1	64	-	-	-	-	1	1			-	1	1		12	
4							_					~					- 10		01					11-	
5	Under 1 year	H	-																				-		
101	Und 1 ye	Ei,					:																		
THE	-	M.			-		-		-	-		-				-	. 00	6	1	-	-			17	
DO O												_		_				-	~						
2	er	H	1																						
TTM	Und	H	1																				-		
DHO	Under 8 months	M.	1						-	:		~	61				200	15	1			100	.1.	36	
Ĩ		-																							
FAT	er	H	-			1000	6		10	-	~	00	10	64		100	3.8	222	2			32	-	218	
SC	Under 4 months	F.	-			1000	4		4			00	4	-			55	35	-	c	10	15	10	124	
UKI	14	M.	1	1		1111	ND.		N 10	-	00	10	-	-			100	18	63		- 10	17	51	6	
P																									
E	14	H	-		-	-	3	1		1	¢1	-	-		-		54	-1-	63			33	1	69	-
IAH	Under 1 month	Ŀ.	1		-				-		1	-	-				100	0.01	-		-	22	1	33	
DISCHARGES	2-	M.				-	3	1		-	-				-	1		110	1	1.		11	1	36	
ä																									
			cenpalitis.	IIIIS OI MIG		es		ns	rlarneie	circulation				eases		angee				lity	clency		rs		
		Psychoses	With	UZ. With other lorins of symmetry of the	03. With epidemic encephalitis	With o	Alcoh	06. Due to drugs or other poisons	Traumatic psychoses		With	-						18. Schizobhrenia	Paranoid condi	20. With psychopathic personality		23. Without psychoses	-	Total	
			00	5	0	0	0	0	00	0	T	-	1	1:	i	T			T	610	Ne	10	i cù		

TABLE No. 7 DISCHARGES DURING 1949—SHOWING DURATION OF RESIDENCE

DEPARTMENT OF PUBLIC HEALTH

TABLE No. 8

RECORD OF DEATHS DURING 1950

Sex.	Age.		ne in Ho Months		. Cause of Death
M	68	5	9	19	Pulmonary Embolish, infected left leg. General
					Paresis of the Insane.
M	73	Sec.	3		Senility with Senile Psychosis.
M	53		8	17	Coronary Occlusion, Cardiac Infarction.
M	58			19	Chronic Nephritis, Arteriosclerosis.
M	49	14	8	23	Auricullar Fibrillation, Myocardial Fibrosis.
M	49	4		6	Acute Right Heart Failure, Mqocarditis.
M	62	12	4	4	Infection of legs, Fracture of right femur.
M	50			27	Acute Exhaustion, Manic Delirium.
M	60	6	2	14	Bilateral Pulmonary Tuberculosis.
M	83	25	9	3	Coronary Occlusion, Coronary Sclerosis.
M	38	11	8	1	Status Epilepticus.
M M	73	****	5	12	Senility with Senile Dementia.
M	85 70	12		20	Senility with Senile Dementia.
			3	12	Bronchopneumonia, Senility, Epilepsy.
M	62	22	4	17	Bronchopneumonia, Secondary Cancer of both
A.F	63	E			lungs, Generalized Carcinomatosis.
M M	63 80	5	1	5	Coronary Occlusion, Air Embolism.
M	58	13	****	21 4	Cerebral Hemorrhage, Generalized Arteriosclerosis.
M	58 62		10		Myocarditis, Myocardial Fibrosis.
AT.	02	4	10	16	Renal Failure, Hydronephrosis, Carcinoma, Second-
M	69			5	ary Carcinoma of right lung.
M	50	1113	1	9	Uremia, Chronic Nephritis, Arteriosclerosis.
	00	++++	1	9	Cerebral Thrombosis, Cerebro Vascular Accidents
M	64			5	(two). Cerebral Hemorrhage Arteriosalarosis
M	77	1	****	15	Cerebral Hemorrhage, Arteriosclerosis.
M	59			9	Arteriosclerosis with Psychosis.
M	58	12	****	22	Myocarditis, Arteriosclerosis. Meningitis Pneumocssus Psychosis
M	16	2		26	Meningitis, Pneumocssus, Psychosis. Pulmonary Tuberculosis, Mental Deficiency
M	70	12	5	1	Pulmonary Tuberculosis, Mental Deficiency. Tabes Dorsalis, Syphilis.
M	72	31		11	Pulmonary Tuberculosis.
M	69	11	11	13	General zide Arteriosclerosis.
M	59	2	7	22	Cerebro.Vascular Accident with mitral stenosis.
M	79			8	Auricular Fibrillation, Arteriosclerosis.
M	75	1	8	9	Generalized Arteriosclerosis, Senility.
M	67			22	Chronic Myocarditis, Myocardial Degeneration.
M	58	2	10	28	Chronic Myocarditis, Myocardial Degeneration.
M	75			5	Hipertensive heart disease withe anteriolar
					nephrosis.
M	68	11		6	Pulmonary hemorrhage, Actinomycosis.
M	65	35	9	23	Mesenteric Infarction, Arteriosclerosis.
M	66		5	13	General Paresis, Arteriosclerosis.
M	82			7	Chronic Myocarditis, Myocardial failure.
M	29	8	6	7	Spontaneous subarachanoid Memorrhage.
M	52			7	Cerebral Hemorrhage.
F	63	1		23	Infarction of lower lobes, Lungs, Embolii.
F	27	10	6	27	Status Epilepticus, Mental Deficiency.
P	67			21	Auricular Fibrillation, Psychosis,
F	86			10	Chronic Myocarditis, Myocardial Degeneration
£	86	38	9	7	Chronic Myocarditis, Myocardial Degeneration. Pulmonary Tuberculosis, Senility.
F	68	9	8	13	Pulmonary Tuberculosis, Psychosis.
F	63			3	Auricular Fibrillation, Myocarditis.
7	74	1000		12	Auricular Fibrillation, Senility.
P	64	27	10	8	Disease of Coronary Arteries and Angina Pectorus.
P	59	1	4	2	General Paresis of the Insane.
2	68			18	Chronic Myocarditis, Diabetes Mellitus.
F	72	4	9	27	Acute Dilation of Stomach, Operation, Cholecys-
111	8 33.1	ALL STREET	118 14		tectomy.
F	69	32	5	27	Bronchopneumonia, Fractore of right femur.
F	83			27	Bronchopneumonia, Generalized Arteriosclerosis.
F	59			13	Bronchopneumonia, Diabetes Mellitus.
					provident and a state of the st

Totals:: Male 41, Female 15-56.

TABLE No. 9

DEATHS BY PSYCHOSES, 1950

	Psychoses	Male	Female	Total
01	Psychoses with syphilitic meningoencephalitis	3	1	4
05	Alcoholic psychoses	1		1
07	Traumatic psychoses	1		1
08	Psychoses with cerebral arteriosclerosis	9	2	11
09	Psychoses with other disturbances of circulation	3	Same	3
10	Psychoses with convulsive disorders	1	2	6
11 12	Senile psychoses	9	1	3
13	Involutional psychoses Psychoses due to other metabolic diseases	1	3	4
17	Manic-depressive psychoses:			
	171 Manic type		1	1
	172 Depressive type	1	1	2
18	Dementia Praecox (Schizophrenia):			100
	183 Catatonic type	3	3	6
	184 Paranoid type	4	Tano	4
10	185 Other types	1		1
19 23	Paranoid conditions	4	****	
40	Without psychoses: 231 Epilepsy	1		1
	234 Mental deficiency	î	1	2
	241 Tabes dorsalis	î		ī
	Totals	41	15	56

PROVINCIAL MENTAL INSTITUTE, EDMONTON

Patient Population Changes.

On December 31, 1950, there were in residence 950 male patients and) 335 female patients, making a total of 1,285. On leave or otherwise absent were 44, making a total patient population of 1,329. This is a loss of four during the year. During the year there was a total of 297 admissions under the Mental Diseases and Mental Defectives Acts. In addition, a total of 126 cases were remanded by police authorities for examination. Four juveniles were admitted through the Department of Child Welfare. There were five transfers. This gave an admission total of 432 for the year.

During the year there were 243 discharges and five transfers out. There were 56 deaths. These were practically all in the old age group, and deaths were due to chronic degenerative diseases.

General Health.

This has been good. There were no epidemics. Routine chest examinations were made on all admissions, and an annual check was done on all other patients. The mobile clinic X-rayed approximately 900 cases for us. T.A.B. injections were given to all patients.

There was one accidental death.

Treatment of Patients.

Electric shock treatments were given to 258 patients. Insulin treatments were given to a total of 114 patients. Each new patient was given whatever type of therapy was required. Hydrotherapy was in constant use. Combined electric shock and insulin treatment was given where indicated. In addition to the treatments given to new patients, a large number of treatments were given to the more chronic cases.

Occupational Therapy.

This department continued very active. The average daily attendance in the department was 75 to 80. Special attention was paid to patients undergoing electric shock and insulin treatment.

Recreational Activities.

This work has expanded in scope during the year. A full-time schedule involving all wards was maintained. Various athletic activities were carried out constantly, and during the evenings shows, dances and social evenings were provided. The recreational staff of the D.V.A. visited weekly throughout the year, and, in addition, provided one dance per month during the winter. Tickets were obtained for most of the major athletic events in town. The work of this department on the whole expanded remarkably during the year.

Library.

More books were added. The library has been consistently popular with the patients and staff.

Beauty Parlour.

This has been operated on a half-time basis. It is hoped to expand it to a full-time service shortly.

Religious Services.

Services were held throughout the year. The United and Anglican Churches provided services on alternate Sundays. The Roman Catholic services were held on week days at regular intervals. The Rev. M. Appelt of the Lutheran Church visited frequently throughout the year.

X-Ray Department.

This department continued to be very busy. A total of 1,624 examinations were made. This is an increase of approximately 20% over the work of the previous year. In addition the department supervised or carried out diathermy treatments.

Laboratory.

A total of 3,765 examinations were carried out by this department. Tuberculin tests were carried out on all new staff and B.C.G. vaccine given where indicated.

Surgical Service.

There was very little major work done in this department during the year. Several cases were referred to the University Hospital for major surgery. A large amount of minor surgical and fracture work was done by our own staff.

Dental Department.

This department remained very active throughout the year. A total of 2,510 examinations were made. Dental work was completed on a total of 895 patients. All types of dental work were done. By the end of the year most of the patients in residence had the necessary dental work completed. Liaison with the School of Dentistry has continued, and clinics were held here for the dental students.

Training School.

A total of 11 men and four women graduated in psychiatric nursing, completing the three-year course. All members are required to take the course or leave the service by the end of the year.

Department of Building Maintenance.

The maintenance work in general has been well kept up except for painting. It has been difficult to get enough qualified painters to keep this work up to date. The installation of a new sewage system was completed, and work has been started on major alterations to the kitchen. Construction of the new T.B. dormitory has continued at a satisfactory rate.

Fire Protection.

Fire practices were held at regular intervals, and all new staff were given instruction in steps to be taken in case of fire. Inspections were carried out by the Fire Inspector's Branch.

Farm.

During the year we rebuilt our dairy herd. At the present time it consists almost entirely of registered stock. The rate of increase is quite satisfactory. The question of pasturage and food remains difficult because of the limited amount of land.

Garden.

Production of vegetables, in spite of severe damage by hail, was quite good. Flowers and plants were provided in their usual profusion until damaged by hail.

Laundry.

This department remained very busy. Some alterations were made in the building to increase the efficiency of the laundry. These alterations are being continued.

Tailor Shop.

This has also remained very busy. It is expected that we will be able to increase its facilities shortly.

Shoe Shop.

This department continued at its usual high level of efficiency.

Sewing Room.

The sewing room remained very busy with repairs to patients' clothing and the supplying of female staff uniforms.

Dietary Department.

Mrs. McLeod remained in charge of the department throughout the year. The department worked at its usual high level of efficiency.

Police Court.

The work we were required to do for the police lessened somewhat this year because of the appointment of a city psychiatrist on a part-time basis. However, consultations were provided to the City and R.C.M.P. courts and also to the Provincial Gaol at Fort Saskatchewan.

Business Office.

The business office continued to be very busy. We have been able to overcome the chronic shortage of staff in this office.

Medical Records.

The work of this department has increased markedly each year. We have been able to add more stenographic help. The most serious handicap at present is lack of space.

Staff.

The staff situation on the male side has remained quite good. We have been able to maintain our establishment although there has been a somewhat increased tendency on the part of some of the new members to leave the service. The situation on the female side is considerably better. All new staff are required to take a three-year training course unless already qualified.

Several members of the medical staff left, Drs. Fraser, Davis, and Gish all going to the United States. We were fortunately able to replace them immediately.

D.V.A.

The D.V.A. recreational department has continued to assist us. Their services have been especially useful during the winter months.

Visitors.

The hospital was visited at frequent intervals throughout the year by Dr. Cross and Dr. MacLean. We have also been visited by a considerable number of groups and representatives of organizations interested in the work of the hospital. The visiting board inspected the hospital in the fall.

	Male	Female	Total	Male	Female	Tota
In residence December 31, 1949				945	328	1273
On leave or otherwise absent				41	22	63
Admissions:						
First Admissions:	27	10	37			
(a) Voluntary (b) Certificate	46	10 51	97			
(c) Warrant	40	7	47			
(d) Mental Defectives Act	8	i	9			
(u) menui percentes ner minimum	_	_	_	121	69	190
Re-Admissions:						
(a) Voluntary	23	28	51			
(b) Certificate	12	10	22			
(c) Warrant	20	8	28			
(d) Mental Defectives Act	- 24.8.8	1	1	55	17	100
Transfers		5	- 5		47	102
Iralisters		0	5	****	9	0
				1162	471	1633
matel Administrations	170	101	007			
Total Admissions	176	121	297			
Separations:						
Discharges:						
(a) As Recovered	17	11	28			
(b) As Improved	88	75	163			
(c) As Unimproved	32	20	52			
Total Discharges	137	106	243			
Transfers	3	2	5			
Deaths	41	15	56			
Total Separations	181	123	304			
Total Separations				181	123	304
n hospital December 31, 1950				950	335	1285
On leave or otherwise absent				31	13	44
Patal an backs Descenden 01 1050						
Fotal on books December 31, 1950				981	348	1329

TABLE No. 1

VEMENT OF PATIENT POPULATION DURING 1950

DEPARTMENT OF PUBLIC HEALTH

TABLE No. 2

	PSYCHOSES OF THE PATIENT POPULATION, DECEMBE		1950 Female	Total
01 02	Psychoses with syphilitic meningoencephalitis (general paresis) Psychoses with other forms of syphilis of the central nervous	35	6	41
	system:: 021 Meningo-vascular type (cerebral syphilis)	2	112220	2
	023 Other types (taboparesis)	32	1	3
)3)5	Psychoses with epidemic encephalitis		do aligo	11
	053 Korsakow's psychoses	1 3		1 3
	054 Acute hallucinosis 055 Other types (chronic hallucinosis)	3	1	4
7	Traumatic neveloses.	4		4
18	073 Post-traumatic mental deterioration Psychoses with cerebral arteriosclerosis	22	5	27
9	Psychoses with other disturbances of circulation:	1		1
0	091 With cerebral embolism Psychoses with convulsive disorders (epilepsy)		3	3
	101 Epileptic deterioration	4	35	7 26
	102 Epileptic clouded states	21 2	2	4
1	Senile psychoses	1	8	1 21
	111 Simple deterioration 112 Presbyophrenic type	13	1	1
	114 Depressed and agitated types	1	1	2
12	115 Paranoid types Involutional psychoses:	10	3	13
-	121 Melancholia	2	4	6
13	122 Paranoid types Psychoses due to other metabolic, etc., diseases:		1	1
1.5	135 With other somatic diseases	1		1
14	Psychoses due to new growth: 141 With intracranial neoplams		1	1
15	Psychoses associated with organic changes of the nervous system:		-	-
	151 With multiple sclerosis	12		12
16	154 With other brain or nervous diseases Psychoneuroses: :	-		-
	161 Hysteria (anxiety hysteria, conversion hysteria and sub-	1		1
	groups) 162 Psychasthenia or compulsive states (and sub-groups))	1	1
	164 Hypochrondriasis	2	1	2
	165 Reactive depression (simple situational reaction, others) 166 Anxiety state		1	1
	167 Mixed psychoneurosis	1		1
17	Manic-depressive psychoses: 171 Manic type	13	16	29
	172 Depressive type	19	10	29
	173 Circular type 174 Mixed type		12	12
	177 Other types	1		1
18	Dementia Praecox (schizophrenia) 181 Simple type	4 8	3	7 9
	182 Hebephrenic type	58	8	66
	183 Catatonic type 184 Paranoid type	283 195	112 41	395 236
	185 Other types	7	2	9
19	Paranoia and paranoid conditions 191 Paranoia	41 3	8 8	42
	192 Paranoid conditions	2		2
20 21	Psychoses with psychopathic personality Psychoses with mental deficiency	59	29 3	88 10
22	Undiagnosed psychoses	4		4
23	Without psychoses: 231a Epilepsy only	1	3	4
	231a Epilepsy only 231b Epilepsy with mental deficiency	19	5	24
	232 Alcoholism	2	2	4
	233 Drug addiction 234a Mental deficiency—Idiot	22	14	1 36
	234b Mental deficiency—Imbecile	59	31	90
	234c Mental deficiency—Moron 234d Mental deficiency—Unspecified	24 2	3	27 3
	235 Disorders of personality due to epidemic encephalitis	2	î	3
	236 Psychopathic personality: 2361 With pathological sexuality	1		1
	2362 With pathological emotionality	1		1
24	Primary behaviour disorders: 241 Simple adult maladjustment		2	F
	2422 Conduct disturbance	2	2	52
	2423 Neurotic traits	1		1

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TABLE No. 3

PSYCHOSES BY ADMISSION, 1950

	TOTOTOGIO DI ADMISSION, 1500	Male	Female	Total
01	Psychoses with syphilitic meningoencephalitis (general paresis)			1
04	Psychoses with other infectious diseases: :			
05	044 With other infectious disease Alcoholic psychoses:	1		1
	055 Other types	2		2
06	Psychoses due to drugs or other exogenous poisons:			~
00	064 Due to other drugs		1	1
08	Psychoses with cerebral arteriosclerosis Psychoses with convulsive disorders (epilepsy):	11		15
10	101 Epileptic deterioration			
	102 Epileptic clouded states	4474	1	1
	103 Other epileptic types	2	1 2	1 4
11	Senile nevenace:			
	111 Simple deterioration	12	8	20
	114 Depressed and agriated types	1		1
12	115 Paranoid types Involutional psychoses	1	3	4
	121 Melancholia		1 4	16
13	121 Melancholia Psychoses due to other metabolic, etc., diseases:	2	4	0
	100 with other somatic diseases	2	1	3
16	Psychoneuroses:			
	161 Hysteria (anxiety hysteria, conversion hysteria)	1		1
	162 Psychasthenia or compulsive states		1	1
	164 Hyprochondriasis		2	2
	165 Reactive depression	1 3	1 3	2 6
	100 Anxiety state	1		1
	167 Mixed psychoneurosis	î		î
17	manic-depressive psychoses:			
		3	3	6
	172 Depressive type 173 Circular type	6	5	11
	174 Mixed type		1	1
18	Dementia Praecox (schizophrenia)	10	9	19
	181 Simple type	4		4
	182 Repeptrenic type		1	1
		31	31	62
19	184 Paranoid type Paranoia and paranoid conditions: :	6	5	11
	192 Paranoid conditions	3	1	4
20	192 Paranoid conditions Psychoses with psychopathic personality Psychoses with month doficiences	1		1
21	* oy choses with mental denciency	3	2	5
22 23	Undiagnosed psychoses	5		5
20	Without psychoses	7	1	8
	231a Epilepsy only 231b Epilepsy with mental deficiency			-
	231b Epilepsy with mental deficiency	42	32	7 4
	LOE AICOHOHSIII	23	4	27
	200 Drug Addiction		9	9
	234 Mental Deficiency:			
	234a Idiot 234b Imbecile	4		4
	234C Moron	2	1	3
	234d Unspecified 235 Disorders of personality due to epidemic encephalitis	4 3	3	73
	235 Disorders of personality due to epidemic encephalitis	1		1
	236 Psychopathic personality 2361 With pathological sexuality	3	****	3
	2361 With pathological sexuality 2362 With pathological emotionality	2	1124	2
			1	1
	2363 Fith asocial or amoral trends 2364 Mixed types		1	1
24	Primary behaviour disorders	1		1
	241 Simple Adult Maladjustment	4	3	7
	242 Primary behaviour disorders in children	2		2
	2422 Conduct disturbance	1	*****	1
	Totals	170	101	
		176	121	297

TABLE No. 4

NATIVITIES OF PATIENTS ADMITTED DURING 1950

	Male	Female	e Total		Male	Female	e Total
Australia	1		1	Norway	. 3		3
Austria	2	****	2	Poland	. 7	2	9
Belgium	2		2	Russia	1	2	3
Canada	112	93	205	Scotland	. 9	2	11
Czechoslovakia		1	1	Sweden			3
China	1		1	Switzerland			1
Denmark	3		3	Ukraine		4	5
Engnland	13	6	19	United States	0	2	8
Germany		2	2	Haknowa		ĩ	6
Gibraltar	1		1	Yugoslavia		*	1
Holland	1	1	2	i ugosiavia	-	1111	
Ireland Jamaica	3	4	7	Totals	176	121	297
Jamaica	NAME.	1	1		-		

DEPARTMENT OF PUBLIC HEALTH

TABLE No. 5

AGE OF PATIENTS ADMITTED DURING 1950

		Fi	rst		Re	-	-		
	Ad	Imis	sions	Adn M.	F.	ons	M	F	T
Ages	IM	. 1	. 1.	INT.	E.	1.	Ter.		
	2		2				2	2	2
Under 15 years	10		14				10	4	14
15 to 19 years		4			7	14	18	19	37
20 to 24 years	11	12	23		4			13	36
25 to 29 years	13	6	19	10	1	17	23		
	12	17	29	8	8	16	20	25	45
30 to 34 years	10	5	15	7	10	17	17	15	32
35 to 39 years	13	6	19	2	7	9	15	13	28
40 to 44 years				7	3	10	18	6	24
45 to 49 years	11	3	14		0	01			16
50 to 54 years	11	3	14	1	1	2	12		
55 to 59 years	4	3	7	2	1	3	6	4	10
	6	2	8	5	1	6	11	3	14
60 to 64 years	Ä		7	3	2	5	7	5	12
65 to 69 years		10		2	-	2	17	10	27
70 and over	14	10	24	0		0	**	10	
								101	007
Totals	121	74	195	55	47	102	176	121	291

TABLE No. 6

TABLE	No. 6								
DISCHARGES, CLASSIFIED WITH REFERE CONDITION OF DISCHARG	ENCE TO	O PH THE	RINC E YI	CIPA EAR	L PS 1950	SYCH	OSES	S AN	ND
Psychoses R	Recovered	d Im	prov	ed L	Inimp	prove	d T	'otal	
01 Psychoses with syphilitic meningo-en-									
cephalitis (general paresis)			. 1	1				1	1
04 Psychoses with other infectious diseases: 44 With other infectious disease	1								
045 Post-infectious psychoses	1							1	1
05 Alcoholic Psychoses:									*
054 Acute hallucinosis	1	1	1	1				2	2
055 Other types	1	1					-	1	1
06 Psychoses due to drugs or other exo- genous poisons:									
064 Due to other drugs			1	1	****			1	1
08 Psychoses with cerebral arteriosclerosis			3 1	4	2	1 3	5	2	7
10 Psychosis with convulsive disorders								1	
(epilepsy)	**** **** **					1 1		1	1
101 Epileptic deterioration 102 Epileptic clouded states			1				41114	1	1
103 Other epileptic types					2	1 3	2	1	3
11 Senile Psychoses:						1		3	
111 Simple deterioration								1	1
112 Presbyophrenic type 114 Depressed and agitated types	**** **** *			1			1	1	1
115 Paranoid types	2 1	3	. 4	4	**** **	2 2	2	7	9
12 Involutional Psychoses:							-		~
121 Melancholia			1	1				1	1
13 Psychoses due to other metabolic, etc., diseases:									
135 With other somatic diseases			1	1				1	1
16 Psychoneuroses:			-	-				-	-
161 Hysteria			. 1	1				1	1
162 Psychasthenia or compulsive states			2	22				2	2
163 Neurasthenia 164 Hypochondriasis	1			7	1	1 1	6	3	3 9
165 Reactive depression	1 1					1	2	1	3
166 Anxiety state					1	1	1		1
167 Mixed pesychoneurosis 17 Manic-depressive psychoses::	2	2 :	2 3	5	4.0.00 1.0		4	3	7
171 Manic type	2	2 :	3 2	5	1	. 1	4	4	8
172 Depressive type			1	1				1	1
173 Circular type	2	1			mil in			1	1
174 Mixed type 18 Dementia praecox (schizophrenia)	2	2	3 8	11	1110 11		5	8	13
181 Simple type	3 4	7 2	4 25	3 49	5		3 32	30	3 62
183 Catatonic type	1			7	1		6	5	11
184 Paranoid type				3			2	1	3
185 Other types 19 Paranoit and paranoid conditions:			1 1	2			1	1	2
192 Paranoid conditions			1	1			1		1
192 Paranoid conditions 20 Psychoses with psychopathic personality	2	2 :	2 1	3			2	3	5
21 Psychoses with mental deficiency			1				1		1
22 Undiagnosed psychoses 23 Without psychoses			3 2	5		1 4		12	4 5
231a Epilepsy only 231b Epilepsy with montal definition			2					2	2
2310 Ephepsy with mental deficiency	2	2 1		15		2 10	24	3	27
232 Alcoholism			. 8	8		2 2		10	10
233 Drug addiction 234b Mental deficiency—Imbecile			3			$ \begin{array}{c} 2 & 2 \\ 2 & 3 \end{array} $		2	2
234c Mental deficiency-Moron			2	32		2 3	43	2	63
235 Disorders of personality due to epi-				-			0		5
234d Mental deficiency—Unspecified			1	1			1		1
demic encephalitis 236 Psychopathic personality	**** **** **		1	1	2		3		3
2361 With pathological sexuality			1	1		1	1	1	1
2362 With pathological emotionality								î	1
2363 With asocial or amoral trends				****	1	1	1		1
2364 Mixed types 24 Primary behaviour disorders:	**** **** **		1 1	2			1	1	2
241 Simple adult maladjustment		1			1	. 1	1		1
242 Primary behaviour disorders in chil-								****	*
dren: 2422 Conduct disturbance				-					
EAST CONDUCT DISTURDANCE									
			2	2			2	****	2
Totals	17 11 2		8 15			0 52		106 2	

DEPARTMENT OF PUBLIC HEALTH

	E	-	0100		~~~~	9	6 -		-		- 10	- 00	10	62
	Total F.			10					9 17					
	T.W.			10										
												-		1
	, so Ei	:	11	1	1	-	ł			4 1*		4	-	16
	year F.	:	11	1			1		1					
	2 years M. F. T.		11	1	11	1	1						1	
	Under 2 years M. F. T.	1	11	11	1			-			11	11	C1	50
	Jude yea	1	11	1	1	1	1			1	11	11	-	3
	M.2 d	1	11	1)	1	-	1	-	1		11	11	c3	63
	10-1					_								_
NCE	Under 18 months M. F. T.	-				-					11			
DE	Under monti		11	1					1					63
SESI	18 M	I	1	1	1				1	• 1		-	-	C1
OF I	21 21		-	.01	1		;		μα			-	: 1	3
	Under months	:	11											
OIL	Un 12 m													
DURATION	AR						•		I	-	11	1	1	-
	SE.	1	11	1		11	-	1		100	11	-	- 1	10
BNG	onth F.		11			T								
SHOWING	9 months M. F. T.			1					10			1		
HS	0.14										• •			
1950-	SE.	1	-	0101		-	01	9	4	3 :	01	10	11	49
	nder F.	-		112		-			e 1			101		
JRING	Under 6 months M. F. T.	-		01 01		11						100		20
5														
GES	nder F. T.	1	63	- 03		10 4	9	13	6 9		. 00	56	CN	146
IAR	M. F. T	-		- 01		2	4	9	4 9	1	01	19	- 1	59 146
DISCHARGES I	M.S.		- 01	-	•	- 00	63	-1-	54	1	-	31	- 1	87
ā				2.00										
		-en-	ses.	exo-			etc			154.00	6m			
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	8	ares	infe	ral	visit		SS		chos	d c	al de	es	sorc	
	chos	sypl	ther	di di	onvi		hose		psy	anoi	sycr	s	ur d	
	Psychoses	with syphilitic meningo-en-	with otherinfectious diseases psychoses	h the	the	loses	psyc	y	sive	par	h m	psyh	vior	Totals
		-		oisor with	wi	vcho	all	ITOS	Dres	and	wit	sed	oeha	otals
		litis	olic	us pe	oses	psy bs	retion	e e	-de	oia	0Ses	ut	try 1	F
		Psychoses	Psychoses with otherinfectious diseases Alcoholic psychoses	Psychoses due to drugs or other exo- genous poisons	"sychoses with convulsive disorders	(epilepsy) Senile psychoses	Involutional psychoses metabolic etc.	disease Pserviroses	Manic-depressive psychoses	Paranoia and paranoid conditions	Psychoses with psychopautic personancy Psychoses with mental deficiency	Undiagnosed psychoses Without psychoses	Primary behaviour disorders	
		C P		H CD H						-			-	
		0	04	06	10	11	12	16	112	61	22	222	24	

TABLE 7

TABLE 8

RECORD OF DEATHS, 1950

Regist		A		ne in Hospita		and but
No.	Sex.	Age.		Months. Da	2	Cause of Death
80	M	68	37	7	3	Splenic leukemia.
168	M	76	36		1	Pulmonary tuberculosis.
281	M	65	29	5 1	3	Carcinoma of bowel.
304	M	71	25	2	1	Myocardial degeneration.
396	M	89	30	7 1	2	Cerebral haemorrhage.
415	M	61	26	8 2		Chronic myocarditis.
460	M	56	19	8 1		Pulmonary tuberculosis.
515	M	75	23		0	
696	M	76	12		ŏ	Chronic myocarditis.
733	M	42	2		7	Chronic myocarditis.
743	M		2		7	Pulmonary tuberculosis.
		42				Myocardial degeneration.
743	M	68	15		6	Carcinoma of pancreas.
765	M	66	24		8	Myocardial degeneration.
791	M	62	26	9		General paresis of the insane.
877	M	34	20		0	Rupture of the left atrium.
894	M	51	14	5 1	5	Ruptured myocardium.
938	M	47	14	11 1	5	Cerebral haemorrhage.
1016	M	65	12	4 2	1	Myocardial degeneration.
1247	M	77	8	1 2	3	Lobar pneumonia.
1423	F	67	8	2 1		Acute rheumatic pericarditis.
1510	M	56	1		7	Fatty degeneration of the heart.
1552	M	52	13		8	
1572	F	42	10	9 1		Myocardial failure.
1612	F	69	7	10 2	-	Myocardial degeneration.
1730	M	76	6			Cerebral haemorrhage.
1735				11 2	-	Cerebral haemorrhage.
	M	62	6	1 2	-	Chronic myocarditis.
1819	M	26	7			Pulmonary tuberculosis.
1919	M	61	10	8 1		Asphyxia.
1920	M	22	6	10 2	2	Status epilepticus.
2033	F	70	5	4		Pneumonia.
2063	M	61	3	8 1	4	Chronic myocarditis.
2125	F	66	3	11 2		Rupture of right atrium.
2315	F	18		7 2		Paraldehyde poisoning.
2349	F	66	28			Septic bronchopneumonia.
2415	M	55	1	10 1	-	Hypostatic pneumonia.
2440	M	63			-	
2537	M	79	1	1 2		Myocardial degeneration.
2545	M	79		7 1	-	Rupture of right atrium.
			****		~	Toxaemia.
2631	M	76		6 2		Carcinoma of head of pancreas.
2644	F	84		1 1		Myocardial degeneration.
2647	M	76			-	Chronic myocarditis.
2655	F	76	****	2		Hypostatic pneumonia.
2679	M	18			8	Chronic myocarditis.
2686	F	75	1000	1 1	7	Acute cardiac dilatation.
2702	M	34		5	4	Acute endocarditis.
2712	M	19	****			Acute miliary tuberculosis.
2732	M	68				Acute circulatory collapse and acute pul-
Tool Server	10000	A STATE				monary oedema.
2739	F	79		7 1	1	Coronary occlusion.
2741	F	69	****	4.		Cerebral haemorrhage.
2748	F	74	****	0.		
		22	****			Cerebral thrombosis.
2756	F		****			Pulmonary tuberculosis.
2763	M	59	****			Chronic passive congestion of lungs.
2770	M	88				Myocardial degeneration.
2808	F	79	****	3		Chronic myocarditis.
2832	M	74				Myocardial degeneration.
2840	M	68			5	Myocardial degeneration.
2841	M	53			2	Exhaustion.
		-	1 50			
		Tota	al, 56			

TABLE 9

DEATHS DURING 1950 BY PSYCHOSES

-

		Male	Female	Total
01 08	Psychoses with syphilitic menengoencephalitis (general paresis) Psychoses with cerebral arteriosclerosis	38	3	3 11
10	Psychoses with convulsive disorders (epilepsy)	1	1	2
11	Senile psychoses	4	5	9
13	Psychoses due to other metabolic, etc., diseases	1	1	2
15	Psychoses associated with organic changes of the nervous system	1	1	2
17	Manic-depressive psychoses	3		3
18	Dementia praecox (schizophrenia)	10	2	12
19	Paranoia and paranoid conditions	1	1	2
21	Psychoses with mental deficiency	1	1	2
22	Undiagnosed psychoses	2		2
23	Without psychosis	6		6
		# 1210		
	Totals	41	15	56

DEPARTMENT OF PUBLIC HEALTH

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NUMBER OF OFFICERS AND EMPLOYEES ACCORDING TO	CAIEC	JORIES	
	Male I	Female	Total
Medical Superintendent	1		1
Medical Officers	4	1	5
Dentist	1		1
Business Superintendent	1	Same	1
Clerical and Stenographic Staff	3	6	9
Laboratory Technicians	1		1
X-Ray Technicians	1		1
Occupational Therapists	1	3	4
Industrial Therapy Instructors	2	2	4
Recreational Therapists	2		2
Social Workers	1		1
Nurses (Registered)		11	11
Nurses (mental graduates)	50	19	69
Attendants and Ward Aides (non-student)	34	22	56
Attendants and Ward Aides (1st year students)	26	11	37
Attendants and Ward Aides (2nd year students)	12	13	25
Attendants and Ward Aides (3rd year students)	8	4	12
Dietitian		1	1
Kitchen Help	15	****	15
Laundry Help	2	5	7
Domestic Help		10	10
Garden and Farm Help	14		14
Engineers and Mechanical Help	40		40
Other maintenance help	3		3
The second particular in the second s		-	-
Total	222	108	330

NUMBER OF OFFICERS AND EMPLOYEES ACCORDING TO CATEGORIES

PROVINCIAL AUXILIARY MENTAL HOSPITAL, RAYMOND

Movement of Patients.

On January 1, 1950, there were 113 patients in residence. There was one death during the year. There were 19 patients received from the Provincial Mental Hospital, Ponoka, and one from the Auxiliary Mental Hospital at Claresholm. There were four first admissions on medical certificates and one first admission by warrant. There was one re-admission on medical certificate and one re-admission by warrant. One patient was transferred to the Auxiliary Mental Hospital at Claresholm and three were transferred to the Provincial Mental Hospital at Ponoka. There were two discharges. Thus leaving in residence December 31, 1950, 133 patients.

Accidents and Elopements.

There were no accidents to patients during the year. There was one elopement.

General Health.

One patient was transferred to the Provincial Mental Hospital at Ponoka with suspected active tuberculosis of the lungs. One patient was transferred to the Provincial Mental Hospital at Ponoka after X-rays showed an obstruction of the esophagus. There was one death. The general health of the patients has remained very satisfactory, with a few colds in October and November. All patients and staff were innoculated against Typhoid Fever in April.

Dentistry.

In July, the Dentist of the Provincial Mental Hospital, Ponoka, spent a week at this hospital doing the necessary work on patients' teeth. Some received new dentures and some dentures were relined. Every patient with teeth received attention, and their teeth were cleaned and polished. Emergency extractions are done by the local dentists.

Occupational Therapy.

All patients are encouraged to do some light tasks and are given what responsibility they can assume. Tasks on the wards and dormitories give employment to approximately 80 patients. Others work in the laundry, kitchen, nurses' home and annex. One collects the eggs and another works in the root cellar. The Occupational Parlor is for needlework of all kinds, knitting, sewing, etc. Many patients read there and follow the radio programmes. In the summer time, three work in the garden and many help pick peas, beans, etc., in season. Several patients keep the lawns free from garbage.

Library.

The Library is situated in the Occupational Parlour, and one patient is responsible for listing new and loaned books. One new book is purchased each month, and this year several new volumes were added through the Dominion Government.' Grant. Several books for the nursing and medical staff were also added to the medical library. Several patients receive regular monthly magazines and friends from town bring quantities of back numbers. These are a good source of entertainment for the low grade mental defectives, who enjoy looking at the colored pictures, and many patients make Valentines, Xmas cards and Easter cards with cutouts from them.

Religious Services.

United Church services are held once each month. The minister, Rev. J. Ward, from Magrath, comes to the hospital for the service, and one of the patients plays the piano for the hymns. The Catholic priest also visits once each month. These clergymen also attend patients' funerals.

Recreation and Entertainment.

During the summer months all patients are taken out on the lawns every afternoon. Some play games and others lie and sleep. Supper is often served on the lawns, and this is always enjoyed.

Twice monthly approximately 60 patients are escorted to town to a picture show. This stimulates them to dress up in their best clothing, and many hours are spent on hair do's.

On special days—Valentine's Day, Easter, Hallowe'en, etc., the wards are suitably decorated and a dance and lunch given. These dances are well attended and enjoyed.

Last July, the annual spirts day and picnic was again a huge success. Games and sports events were well entered into, and prizes for each event were furnished. Fresh fruit, ice cream cones, candy and punch are served all afternoon, and supper on the lawn also.

This year the Women's Music Club again gave a splendid concert with choir numbers, skits, solos and piano solos. They brought Santa with oranges, ice cream, fancy cakes and candy. The Rotary Club brought a bag of treats for each patient, an orange, chocolate bar, and bag of peanuts. The Occupational Therapy Department has a special party for all workers, and patients provide the concert themselves. They receive a small gift off the Xmas tree and a fancy lunch. The department also provides a gift for each, which is fancy wrapped and placed under the Christmas tree on the ward on Xmas Eve and is given out Xmas morning. They also receive a stocking of treats from the hopsital.

There is a piano on the ward and also one in the new annex for patients who wish to play. Radios are placed on the ward, the Occupational Therapy Parlour and in the annex.

Visitors.

The hospital has been visited periodically by Dr. R. R. MacLean, Director, Division of Mental Health. The Eugenics Board, acting as a board of inspection, visited the hospital in October. 'The hospital has been visited by fire inspectors and several members of the Department of Public Works, maintenance department, boiler inspector, electrical inspectors, etc. The vegetable garden was inspected by Dominion Government representative of Health, and instructions were given as to the disposal of garbage. The cows were tested for Tuberculosis and Bangs disease.

Gardens and Grounds.

More curbing and roadwork was done on the grounds last year, and the lawns were prepared for seeding.

The vegetable gardens yielded abundantly, and enough vegetables were raised for the minter months. Two severe hailstorms did damage to peas, beans, corn, pumpkin and tomatoes, so very little was canned this year.

New Buildings.

The new annex was completed and opened in January, and houses 18 patients. It is comfortably decorated and much appreciated by them. The doors are not locked, and patients go out on parole as they please. None has attempted to run away.

Conclusion.

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

In residence Jonuary 1, 1949	Male	Female	Total	Male	Female 113	Total 113
In residence January 1, 1949					115	115
Admissions:						
(a) Voluntary						
(b) Certificates		4	4			
(c) Warrant		1	1			
(d) Order		-	-			
The second second		20	20			
(e) Transfers					25	25
			_		20	20
reduction of the second states of the second states and the second					138	138
Re-Admissions:				1117	199	199
(a) Voluntary						
(b) Certificates	4 4 9 10	2	2			
(c) Warrant						
(d) Order		****				
(e) Transfers	1.00					
			-		2	2
				-		
and the second se					140	140
Discharges: :						
(a) As recovered		-				
(b) As improved		2	2			
(c) As unimproved						
(d) Transferred to other hospitals		4	4			
(e) Eloped						
(f) Deported						
(g) As without Psychoses						
(h) Deaths		1	1			
			_		7	7
In Residence December 31, 1950					133	133

TABLE 1 MOVEMENT OF PATIENT POPULATION DURING 1950

TABLE 2

SHOWING THE PSYCHOSES OF PATIENTS IN RESIDENCE IN 1950

	Patient Psychoses	F	'emale
300	Schizophrenic disorders:		
	300.0 Simple type		
	300.1 Hebephrenic type	9	9
	300.2 Catotonic type	25	25
	300.3 Paranoid type	26	26
301	Manic-depressive reactions:		
	301.0 Manic and circular	2	2
	301.1 Depressive	2	2
303	Paranoia and paranoid states::		
	Paranoia and paranoid conditions	9	9
	Paraphrenia	4	4
304	Senile psychoses:		
	Simple deterioration	 3	3
	Paranoid reactions	3	3
306	Psychoses with cerebral arteriosclerosis	3	3
308	Psychosis of other demonstrable etiology:		
	308.1 Psychosis with epilepsy	3	3
309	Other and unspecified psychoses:		
	309.1 Psychoses with psychopathic personality		
	309.2 Psychoses with mental deficiency	12	12
325	Mental deficiency:		
	325.0 Idiocy		
	325.1 Imbecility	 24	24
	325.2 Moron	2	2
	325.4 Mongolism	2	2
	325.5 Mental deficiency with epilepsy	2	2
026	Syphilis of central nervous system:		-
	026.1 Psychoses with cerebral syphilis	 1	1
083	Late effects of acute infectious encephalitis:	-	1
130.0	083.1 Postencephalitic personality and character disorders	1	1
	in character and a second seco	 	
	Total	133	133
		100	100

TABLE 3

RECORD OF DEATHS DURING THE YEAR 1950

Register No.	Sex	Age		in Hosp Months		Cause of Death	
5224	F	80	18	9	4	Acute bronchopneumonia due to chronic bronchiectasis and hypertension.	

PROVINCIAL AUXILIARY MENTAL HOSPITAL, CLARESHOLM

Movement of Patients.

There were 98 patients in residence on January 1, 1950. On December 31, 1950, there were 98 patients. During the year there were seven patients transferred from the Provincial Mental Hospital, Ponoka, to this hospital, and one patient from the Provincial Auxiliary Mental Hospital, Raymond. One patient was admitted by certificate.

General Health.

The general health of the patients was good throughout the year.

Weather permitting, all ambulatory patients were taken out on walking parties or on the lawn. Many patients enjoyed parole privileges, and spent three or four hours a day out on the grounds during the summer.

Occupation Department.

This department continued to do excellent work. A very successful sale of work was held in December.

During the summer months a group of 15 or 20 patients worked in the garden and grounds under the supervision of a ward aide. The patients enjoyed this work very much.

Recreational Activities.

Parties during the year and the annual sports day were held for the patients.

The United Church choir and the Nazarene Church choir presented musical programmes at Christmas and Easter.

Picture shows were held twice a month for the patients.

Books were added to the library for the patients, and several people donated magazines.

Beauty Parlour.

The beauty parlour is used regularly for weekly shampoos and finger waves.

Religious Services.

Local clergymen conducted services each Sunday for the patients.

Dentistry.

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

Fire Protection.

Regular fire practices were held. The fire fighting equipment was carefully checked. A tubular fire escape has been put up on the north side of the hospital.

Buildings.

Repairs and redecorating were carried out by the maintenance staff. The buildings have been kept in good repair.

Gardens and Grounds.

The flower gardens and lawns were well kept during the summer. There were sufficient vegetables grown to supply the hospital throughout the year.

Visitors.

Dr. R. R. MacLean, Director, Division of Mental Health, visited the hospital.

The Eugenics Board, acting as a Visiting Board, visited and inspected the hospital in October.

Relatives and friends of the patients visited the hospital regularly.

TABLE 1

MOVEMENT OF PATIENT POPULATION DURING 1950

In residence January 1, 1950	Male	Female	Total	Male	Female 98	Total 98
(a) Voluntary (b) Certificates	****	 1	 1			
(c) Warrant (d) Order	****		****			
(e) Transfers		8	8		0	
	-	-		****		
Discharged during the year:				*****	107	107
(a) As recovered		1	1			
(b) As improved (c) As unimproved		1	1			
(d) As without psychoses						
(e) Transferred to other hospitals (f) Eloped	****	5	5			
(g) Deported to other countries (h) Deaths						
(n) Deaths		_	-		9	9
					98	98

TABLE 2

	SHOWING THE PSYCHOSES OF PATIENTS IN RESIDENCE IN 1950	
03	Psychoses with epidemic encephalitis	2
08	Psychoses with cerebral arteriosclerosis	3
12	Involutional Psychoses: 121 Melancholia	2
16	Psychoneuroses: 163 Neurasthenia	1
17	Manic-depressive psychoses 171 Manic type	1
	177 Other types, defective basis	1
18	Dementia praecox (Schizophrenia):	
	181 Simple type	3 3 26
	182 Hebephrenic type	3
	183 Catatonic type	26
	184 Paranoid type	24
	185 Other types, undetermined	1
19	Paranoia and paranoid conditions:	
	192 Paranoid conditions	9
21	Psychoses with mental deficiency	8
23	Without psychoses:	
	231 Epilepsy:	
	2312 Epilepsy with mental def.	2 5 1 6
	2342 Imbecile	5
	2343 Moron	1
	2344 Unspecified	6
	Total	98

TABLE 3

RECORD OF DEATHS DURING 1950

Register				in Hosp	Cause of Death
No. 3042	Sex F	Age 72	Years 25	Months 6	 Hepatitis following carcinoma of gall
14717B	F	68		10	 bladder. Hypertensive sclerotic heart failure due to hypertensive sclerosis.

PROVINCIAL TRAINING SCHOOL, RED DEER

In Residence, Admissions, Paroles and Deaths.

There was a great increase of population during the past year. A total of 101 patients were admitted, of which there were 56 male patients and 45 female patients.

Of these admissions, 84 were first admissions, 13 were re-admissions, and four were transfers from the Provincial Mental Institute.

Eighteen patients were paroled and one was transferred.

There were 10 deaths (7 male and 3 female). Details of these groups are given on Tables 1, 3, 4, 5, 6 and 7.

The list of patients awaiting admission was reduced from 507 last year to a new low of 361. It is contemplated that with the erection of two middle-grade wards, the coming year will see still further diminution of the current waiting list.

Applications for Admission.

During 1950, 61 applications were received for admission. The majority of admission requests were for children requiring permanent institutionalization, imbeciles and bed patients. During the past years the tendency has been for an increasing percentage of admissions to be of prognastically hopeless types.

Eugenic Board Visits: Sterilization, Operations, etc.

The Eugenics Board visited the School on four occasions. A total of 33 trainees were seen by them, one having been presented at the Provincial Mental Hospital. All cases presented were passed for eugenic operations. In conformity with the Board's instructions, 19 salpingectomys and 11 vasectomies were carried out. Two sterilization operations were carried out which remained as a backlog from the previous year.

Health of Staff and Patients.

There has been little to report on the general health of both staff and patients. There were two fractures sustained by patients, one a fracture of radius and other a Pott's fracture. Both occurred during play, and have healed satisfactorily.

The health of the staff has shown little significant variation from last year, and there was little time lost due to ill-health.

It has been the practice during the year to Tuberculin test and X-ray chests of all new members joining the staff, and a complete survey was carried out by the Red Deer Full-time Health Unit on all extant members of the staff. There was no tuberculosis activity detected.

The year's dental work (a half-day per week) is tabulated below:

Mouths examined Extractions Fillings	Prophylaxis Corrections of bite Cases of Vincent's' Infection de.	
Scalings	 tected and successfully treated.	16

Training Programme for Nursing Personnel.

The training of nurses and attendants contiues as last year. Due to the larger number of applications for employment at the School, we have been able to select people with a grade 11 or 12 education. It has also been possible, via psychometric examinations prior to employment, to select personnel who will be most capable of absorbing the high standard of training courses now being presented. Emphasis is placed on treatment, comprehension, and management of the mentally retarded child. Intensification has also been made of mental hygiene classes, since it is felt that the understanding of one's own attitude towards life is essential before one may attempt to solve the problems of the trainees.

Training Programme for Trainees.

The type of training given may be divided into five main categories: Academic Training, Sense Training, Occupational Therapy, Vocational Training, and Recreational Training.

Academic Training: During the year there was an increase in the number of trainees who could benefit by attending School; therefore, another classroom was opened. The School department is now composed of four classrooms—pre-primary, primary, elementary and junior. The material covered corresponds roughly to that which is dealt with in the first five grades of elementary school, although greater emphasis is placed on the development of skills and habits.

A tentative course of studies which was drawn up during the summer and introduced into the classroom in September provided the teachers with a definite curriculum to follow throughout the grades. After a year's trial the course of studies will be reviewed and revised and amended where needed.

The teachers on several occasions took their classes on tours of Red Deer, visiting stores and local plants and factories.

Regular periodic meeting were held between the Director of Education and the teaching staff, in which school problems were discussed.

Sense Training: Four sense training classes were held daily. During the spring and summer, one of these classes was devoted to older trainees who have some specific sense defect. In September, due to an increase in the number of younger trainees who would benefit by attending sense training, handling of these older trainees was taken over by the occupational therapy section, and all four sense training classes were devoted to younger children.

Occupational Therapy: Instruction was given the trainees in (a) various types of handicraft, such as weaving, bead work, rug and mat making, and in (b) dressmaking, sewing, embroidery, and fancy work, and general care and repair of clothing. The weight of instruction was on those skills listed under (b).

In December arrangements were made to secure the services of a certified Occupational Therapist. She will commence duty early in January, 1951. The occupational therapy section will be completely reorganized, and greater emphasis placed on handicrafts and on the training of spastics and other chronic patients.

Vocational Training: All trainees who are of mid-grade imbecile status and above received regular training along various lines which will enable them—

- (a) if they are of dischargeable calibre, to adjust more easily and efficiently when placed out to work in the community;
- (b) if they are of non-dischargeable calibre, to be kept employed for at least part of tach day in a manner beneficial to themselves and the School.

The girls received actual training in the following departments laundry, sewing room, dining room, kitchen and domestic. Special cooking classes were carried on for some time, but had to be discontinued due to the pressure of work in the kitchen. These classes will recommence early in the coming year in the new high-grade girls' ward, which is now ready for occupancy.

The boys received training as gardener's and carpenter's helpers, in general janitor and handyman work, and in general farm work.

The appointment of a full-time Farm Instructor increased the efficiency of the farm training, and resulted in an increased number of trainee placements.

Recreational Training: Two full-time Recreational Therapists were added to the staff of the Training Department, and much new equipment was received through the Federal Health Grant. The recreational section operated twelve hours daily, from 8:30 a.m. to 8:30 p.m. All trainees who would benefit by or enjoy either organized or free recreational activities were enrolled in at least one recreational period each day. In addition to daily recreational classes the trainees had weekly movies, monthly dances, and a number of special functions such as parties, hikes, picnics, trips to the lakes, weiner roast, sleigh rides and skating parties. Two mornings weekly during the summer months the trainees had the use of the Red Deer swimming pool. All middle and high-grade trainees were taken to the Red Deer Exhibition in August. Competitions were held in softball, badminton and volleyball between staff and trainee teams.

Psychotherapy.

The Psychotherapeutic interviews, instituted last year to help those trainees who had presented behaviour and discipline problems, were continued. The addition of a trained Social Worker to the staff enabled the extension of this service to include most middle and high-grade trainees who were not making favourable progress and/or who presented minor behavioural problems. This programme has resulted in noticeable improvement in the behaviour and general adjustment of the trainees involved.

An attempt was made to introduce a Group Therapy programme and several interviews were held with groups of older boys and girls.

Social Work Services.

Social work services at the Provincial Training School commenced on 3rd July, 1950, with the appointment of a professionally trained Social Worker.

Since inception of this service the Social Worker has placed 12 trainees (9 girls and 3 boys) into permanent homes. Twenty-eight temporary job placements, ranging from 3 days to 2 months, were found for 13 trainees. These trainees are prospective placements. The job experiences will be invaluable to their future permanent placement and adjustment.

The Social Worker visited homes where placements were made regularly to aid with the adjustment of the trainee to the new environment. In addition to this, the Social Worker has visited and supervised six trainees who were placed out prior to July, 1950. A total of 85 visits were made in the latter part of 1950 to homes where placements were made to help trainees to become self-respecting and self-supporting members of society.

Some trainees adjust favourably to the new environment, but many require unlimited supervision both socially and in regard to their work experiences. One of the outstanding factors that hinder the trainee's adjustment is the failure of the home to recognize the trainee's self, his achievements and work. In too many homes the relationship between the employer and trainee is on the employeremployee basis. Such a relationship does not meet the trainee's need for security and recognition.

The Social Worker recognizes that there needs to be greater care in the selection of homes. Emphasis must be placed on the needs of each trainee in relation to the atmosphere of the home and the personality of the employer. This can now be accomplished by personal contact and visits.

New Construction.

This consisted of a new ward for higher grade girls, a store house and a root cellar. A new power house was also commenced, but will not see completion until the spring or early summer of 1951.

It was also possible to build a calf shed from a derelict house on the School grounds, which will enable us to raise a selected dairy herd, which had to be sold in previous years due to lack of space for them.

Farm and Garden Produce.

There were personnel changes made in the farm this summer, and the overall increase in produce and efficiency associated with this change on the farm has been apparent.

Using artificial insemination, we have cleared up the contagious vaginitis which was widespread through our herd. A total of 17 calves was produced, 7 heifers, and 10 bulls. The progeny, without exception, were of excellent type, and until we are able to build up a thoroughbred herd, will furnish good replacement material for our present herd.

Laundry and Sewing Room.

We are now reaching a level in population where, in the not too distant future, further accommodation will have to be provided for both these departments. Additional staff has already been provided, and the number employed seems adequate for our present needs.

Kitchen and Dining Room.

The kitchen was renovated during the year. It is now a bright, airy department.

New meat cooking ovens have been installed, which included two compound unit gas stoves. It is hoped to be able to replace the present coal burning oven this coming year.

The diet both for trainees and staff has kept at a nutritious and highly palatable level. It is not improbable that this has largely contributed to the overall health of the population at the school.

Acknowledgement.

It would not be fitting to end this report without expressing thanks for the co-operation which has been given by the members of the staff at the school, and their devoted efforts during the year to the well-being of the trainees.

We would like to express our thanks to the Minister of Health for his sympathetic consideration of our requirements, and to the Director of the Division of Mental Health, who has never failed to regard our problems as though intimately linked with his own, in enabling us to pursue and solve them successfully.

TABLE	1					
MOVEMENT OF FEEBLE-MI	ND	ED POP	ULATI	ON		
				Male	Femal	e Total
Defectives on books of Institution as at Januar, In Provincial Training School, Red Deer, Alb				159	134	293
ADMISSIONS: M 1. First admissions, voluntary 2. Re-admissions 3. Transfers from P.M.I., Edmonton	tale 47 6 3	Female 37 7 1	Total 84 13 4			
Total number of admissions	-	_	-	56	45	101
Total number of Defectives on books dur OUTGOING:	ing	1950		215	179	394
1. Parole 2. Transfers, P.M.H., Ponoka 3. Deaths	5 1 7	13	$ \begin{array}{c} 18 \\ 1 \\ 10 \end{array} $			
Total number outgoing	-	-	-	13	16	29
Defectives on books of the institution at	De	c. 31st,	1950	202	163	365

TABLE 2

AGE OF RESIDENT POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS

Age Group			Idio	t	In	Imbecile			ford	n	Totals		
		M.	F.	Τ.	M.	F.	T.	M.	F.	T.	M.	F.	Т.
5-9		6	6	12	24	10	34	5	5	10	35	21	56
10-14		11	13	24	29	15	44	17	11	28	57	39	96
15-19		12	4	16	19	11	30	15	15	30	46	30	76
20-24		9	5	14	14	12	26	1	4	5	24	21	45
25-29		6	5	11	13	6	19	2	3	5	21	14	35
30-34		4	8	12	6	6	12	1	2	3	11	16	27
35-39		2	3	5	3	6	9	1	1	2	6	10	16
40-44			3	3	2	3	5				2	6	8
45-49			2	2	1	2	3			****	1	- 4	5
50 - 54					1	and.	1				1		1
		-	-	-		-			14440			-	
	Totals	50	49	99	112	71	183	42	41	83	204	161	365

TABLE 3

MENTAL STATUS OF FIRST ADMISSIONS, RE-ADMISSIONS AND TRANSFERS

First		nissi	ons	Re-admissions			Transfers			Totals		
Mental Status M	4. I	F. 1	Г.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Idioa	8	5	13	2		2				10	5	15
Imbecile		18	42	1	1	2				25	19	44
Moron	15	14	29	3	6	9	3	1	4	21	21	42
			-		-	-	-	-		-		
Totals	47	37	84	6	7	13	3	1	4	56	45	101

TABLE 4

NATIVITY OF INCOMING PATIENTS

First A	First Admissions			Re-as	sions	Tra	nsfe	ers	Totals			
M	. F	r. 7	Г.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Saskatchewan	2 43 1	44 2	2 77 3	6	7	13	2	1	3	$\begin{array}{c}2\\51\\1\end{array}$	42 2	2 93 3
U.S.A. Unknown	1	1	2				1		1	1	2	13
Totals	47	37	84	6	7	13	3	1	4	56	45	101

TABLE 5

AGE GROUP OF ADMISSIONS, RE-ADMISSIONS OR TRANSFERS

	Fir	rst Admissions			Re-admissions			Tra	nsfe	ers	Totals		
		M.	F.	Т.	M.	F.	Τ.	M.	F.	Τ.	M.	F.	Τ.
		21	10	31							21	10	31
10-14 15-19 20.24 25-29 30-34		16	13	29	3		3	****	1	1	19	14	33
		8	9	17	2	4	6	3		3	13	13	26
			4	4		2	2					6	6
		1	1	2	1		1				2		2
		-	-	-		1	T				1	2	3
	Totals	47	37	84	6	7	13	3	1	4	56	45	101

TABLE 6

OUTGOING PATIENTS CLASSIFIED WITH REFERENCE TO MENTAL STATUS CHRONOLOGICAL AGE, YEARS IN RESIDENCE

DISCHARGES:

Age	Group		Idi I. F	iot 7. T			cile T.		Ioro F.		Condition on discharge	Years in residence
10-14									1	1	Unimproved	2/4
15 10						1	1		-	-	Unimproved	1 month
15-19				****					1	1	Unimproved	1/4
								1		1	Improved	2/9
								1		1	Improved	6/0
									1	1	Improved	4/9
									1	1	Improved	11 months
								1		1	Improved	1/5
									1	1	Improved	6/5
									1	1	Improved	1/0
									1	1	Improved	5/2
				2400					T	1	Improved	5/3
20-24								1		1	Improved	6% months
20-24	*******	****					****		1	1	Improved	12/7
									1	1	Improved	22/10
30-34		T		T							Improved	9/2
35-39				****		-	1	****			Improved	13/3
00-00						Т	1				Improved	18/5
TRAN	SFERS	:										
40-44									1	1	Indications of senility	20/4
-		-	-		-	-	-	-		-		
Tot	tals				1	3	4	5	10	15		110/6

TABLE 7

DEATHS CLASSIFIED WITH REFERENCE TO CAUSE OF DEATH, AGE GROUP, MENTAL STATUS, YEARS IN RESIDENCE

Cause of Death	Age Group	Age G	Idiot Imbecile M. F. T.			Imbecile Moron M. F. T.			Years in residence Years in		
Duon als ann anns an la								MI.	r.	1.	Residence
Bronchopneumonia	10-14	4	1	5	2	1	3	1	1	2	144/5
Suffocation from epileptic seizure	15-19	1		1							7/10
Pulmonary T.B. with laryngeal								1		1	12/1
involvement	10 00	1		1						-	15/7
Asphyvia	0.00	-		-				404			
Hypostatic provincela							1111			T	7/5
Hypostatic pnoumonic					1		1				20/1
					1		1				13/6
		1		1							21/9
Bronchopneumonia	35-39	1		1							16/7
Coronary thrombosis	40-44					1	1				27/1
Bronchopneumonia	4 1 4 10		1	1		-	-		****		
			-	_							2/6
Totals		4	1	5	2	1	3	1	1	2	144/5

DEPARTMENT OF PUBLIC HEALTH

TABLE 8

STAFF-DECEMBER 31st, 1950

STAFF—DECEMBER 31st, 1950	Malo	Female	Total
A LANT CARDEN TO AN AVAILABLE AND AND A LANT AND A	Male 1		1
MEDICAL SUPERINTENDENT	-		-
Medical Secretary		1	1
Stenographer		î	î
Teachers: Grade (Normal Graduate)		î	ĩ
Sense Training		ĩ	ĩ
Occupational Therapist		ī	1
Gym Instructress		1	1
BUSINESS SUPERINTENDENT	1		1
Clerk/Storekeeper		1	î
Steno-Clerk		2	2
Clerk/Storekeeper	1		1
Assistant Clerk/Storekeeper	1		1
Kitchen Staff		7	7
Dining Room Staff		7	7
Laundry Staff		6	6
Sewing Room Staff		5	5
Gardener	1		1
Farmer and Farm Help	3		3
Dairyman	1		1
MATRON, S.R.N. Eng.		****	
Assistant Matron, Acting only, M.D.G.		1	1
Day Supervisor, M.D.G.		1	1
Surgery Nurse, R.N.	1		1
Night Supervisors, M.D.G.		2	2
Attendants and Ward Aides:	-	3	8
Approved	5 21	38	59
Student		5	5
General Maids Extra Assistance	3		3
SHORTAGES: Medical Officer	1		1
		7	7
Matron Ward Alde	6		6
	0		°.
PUBLIC WORKS:	6		6
Boller Room Staff	0		1
Maintenance Staff	1		î
	•		-
EMPLOYED UNDER DOMINION HEALTH PROGRAMME: Educational Psychologist	1		1
Social Worker	1		1
Farm Instructor	1		î
Teachers, Grade (Graduates)		3	3
Recreational Therapist		1	1
Dentist (part time)	1		1
Secretary (part time)		1	1
	-	-	-
Total number of Employees	57	97	154

Guidance Clinics

The Provincial Guidance Clinics maintained a full load of work during 1950 in the established clinics. Some 146 more new cases were seen in 1950 than in 1949, and there was an increase in the number of cases previously seen who came in for further consultations or treatment. The Peace River-Grande Prairie districts were visited twice during the year, and 142 new cases were examined plus 23 cases previously seen who came in for re-examination. In general, the established pattern of clinics throughout the Province was continued.

During the year a plan was adopted whereby the Province was divided into three zones and twenty areas for administrative pur-The Northern Zone, made up of eleven areas, extends poses. roughly from an east-west line just south of Wetaskiwin north through the Peace River district. The Southern Zone, made up of six areas, extends roughly from an east-west line just north of Olds to the southern boundary of the Province. The Central Zone, made up of three areas, lies between the Northern and Southern Zones. Each area has from three to nine focal or key points designated at which clinics may be held as required and as staff permits. On an average clinics are held regularly in two centres in each area. With the exception of Edmonton and Calgary, each of which is considered as one area, each area contains approximately 20,000 to 50,000 population. The headquarters of the Northern Zone is in Edmonton, that of the Southern Zone in Calgary, while the Central Zone is served from the Provincial Mental Hospital and the Provincial Training School.

The third annual Clinic Staff Conference was held on the 30th of November and the 1st of December at the Provincial Mental Hospital, Ponoka, under the Director. The medical superintendents of the mental institutions, and other staff members associated with the work of the clinics were present also. Papers were given and discussions held on a number of phases of clinic and related institutional work.

The clinic staff members continued to take part in group and community educational work in the Mental Health field. This included addresses to parent and parent-teacher groups, local discussion groups, and assistance with radio programmes.

It may be noted that of the 1,629 new cases seen, 1.471 were 18 years and under, and 63.3% of the total new cases were under 15 years old. This is considered significant in that the preventive aspect of clinic work is stressed throughout.

Further details of the clinic activities in the different zones and areas are contained in the statistical tables and explanatory comments which are given below.

Edmonton and District Guidance Clinics (Northern Zone)

During 1950 there was considerable expansion of clinic work in general, although services to Camrose, Lamont, Stony Plain, Two Hills and Westlock were terminated in March, 1950. Throughout the year the staff was increased by a Social Worker and a stenographer-receptionist.

There were 788 new cases examined, and the total work load for the zone was 5,341, which represents an increase of almost 20% in the amount of treatment done. Of the new cases approximately 15% were referred by private medical practitioners, 14% by friends or self-referred, 57% by school authorities or health units, and 14% by community agencies other than the schools and health units, such as the Department of Child Welfare and Children's Aid Department.

City of Edmonton—The clinic gives about one-third of its time to Edmonton and the district immediately surrounding it. The service to this district has been improved by the staff increases. New cases examined in Edmonton numbered 371, an increase of 37 over 1949, and the work load was 3,596 including 884 treatment periods.

Barrhead-Westlock—Forty-eight new cases were examined at these points with the total work load 195, although no clinics were held at Westlock after March.

Stony Plain—Although clinics were discontinued in March, 10 new cases had been seen, with a total work load of 33.

Wetaskiwin-Camrose—At these points 57 new cases were examined, and the total work load was 220. There were no clinics at Camrose after March.

Holden-Wainwright—At these two points 41 new cases were seen, and the total work load was 195. The case load was cut down in this area because of very inclement weather at the times of scheduled clinics in the first part of the year.

Vegreville-Vermilion—Forty-seven new cases visited the clinics at these points, and the total work load was 181.

Peace River-Grande Prairie—On the two trips through these areas, on each of which a series of clinics were held, 142 new cases were seen, and the total work load was 623. Trips through these areas are made normally in the spring and fall.

Athabasca-Lac La Biche—These points were visited twice and 47 new cases examined. The total work load was 130.

Smoky Lake-St. Paul-Bonnyville—Two trips were made to these points during the year, except that only one clinic was held at Smoky Lake because of transportation difficulties. Forty-one new cases were seen, and the total work load was 109.

In addition to the above new cases seen at the designated points, there were 217 cases seen previously who were in for re-examination throughout the zone, which, in effect, brings the patient or case load to 905 cases.

Ponoka and Red Deer District Guidance Clinics (Central Zone).

This Zone is serviced from the Provincial Mental Hospital and the Provincial Training School, Red Deer, no full-time clinic having yet been established there. However, the Medical Superintendent, Provincial Training School, and his staff hold regular clinics in the health unit offices each Wednesday and Thursday afternoon. Clinics were held at Rocky Mountain House also.

The clinics held at Ponoka, Rimbey, and Stettler are serviced by the Provincial Mental Hospital staff with help from the Edmonton Clinic staff. Red Deer-Rocky Mountain House—At these two clinic centres 126 new cases were examined, with a total work load of 589. This last figure includes a number of treatment periods at the Red Deer Clinic.

Ponoka-Rimbey-Stettler—Sixty-six new cases were seen at these clinics, with a work load of 168.

Calgary and District Guidance Clinics (Southern Zone).

The Guidance Clinic with headquarters in Calgary was under the direct charge of Dr. G. D. Carson during 1950.

A total of 649 new cases were examined during the year as compared with 580 new cases in 1949. This brings the total new cases seen in the Calgary district during the years of clinic services to 5,004. In addition to the 649 new cases noted above, 142 cases seen previously were in for further treatment or advice. The total work load for 1950 was 3,725, which includes 519 psychological examinations. Approximately 32% of the new cases examined in 1950 were referred by private physicians, 30% by school authorities, and 26% by community agencies other than schools.

Further details regarding the different clinic centres are given below.

City of Calgary—Calgary is the headquarters for the Southern Zone. About 50% of the clinic time is available for the City of Calgary and the surrounding district, although this has to include a certain amount of administrative work for the whole Zone. In 1950 there were 286 new cases examined in Calgary, and 77 cases previously seen were in for further examination, consultation or therapy. The total work load was 2,226, which includes a number of play and psychotherapy periods. The staff at the Calgary headquarters is less than that in Edmonton, and this is reflected in a smaller work load.

Lethbridge—At Lethbridge during 1950 there were 105 new cases, and a number of cases previously seen were in for further examination or consultation. More than half of the new cases seen were in the school age group. The total work load was 489.

Medicine Hat-Brooks—There were 142 new cases examined at these two points during the year, and the total work load was 562. Between 20 and 30 cases previously seen returned for further study and advice.

Pincher Creek-Crow's Nest Pass—In this district, 37 new cases visited the clinic, and the total work load was 93. A high proportion of these cases were medical-psychiatric referrals.

Didsbury—At this centre, 31 new cases were examined, and 7 were in for re-examination. The total work load was 124.

Drumheller—Fifteen new cases were seen at Drumheller, and 4 were back for further interviews. The total work load was 74.

The Provincial Guidance Clinics appreciate the continued cooperation of the various agencies with which they have been working. Among the latter are the Children's Aid Departments, the Child Welfare Department, the Health Units and their staffs, the Public Health and District Nurses, the School authorities, including superintendents and teachers, physicians in private practice, and various other health and welfare departments. The clinics also appreciate the use of the quarters of many of these agencies, and the offices of physicians in private practice.

DEPARTMENT OF PUBLIC HEALTH

TABLE 1

SUMMARY OF NEW CASES EXTMINED, TREATMENT PERIODS, INTERVIEWS, AND PSYCHOLOGICAL EXAMINATIONS

ce rk

	Ne	ew Ca	ises	T	otal W	ork Lo	ad	Total Wo Load	otal Nev ases Sin 29
Location	M.	F.	T.	Pat.	Col.	Gen.	P.E.	FA	FUH
Edmonton and District Calgary and District Ponoka and Red Deer District,	483 375 106	305 274 86	788 649 192	$ \begin{array}{r} 1362 \\ 1560 \\ 382 \end{array} $	$2049 \\ 1480 \\ 253$	1062 166 3	868 519 119	5341 3725 757	
Totals	964	665	1629	3304	3782	1231	1506	9823	10560

NOTES:

Edmonton and District includes all of the area served from Wetaskiwin north. It includes Clinics held in the Peace River-Grande Prairie area, and at such points as Athabasca, Barrhead, Bonnyville, Holden, Lac La Biche, Smoky Lake, St. Paul, Vegreville, Vermilion, Wainwright and Wetaskiwin.

Calgary and District includes the area served from Didsbury south. It includes Clinics held at such points are Claresholm, Crow's Nest Pass towns, Brooks, Didsbury, Drumheller, High River, Lethbridge, Medicine Hat, and Pincher Creek.

Ponoka and Red Deer District includes the area from Didsbury on the south to Wetaskiwin on the north. It includes Clinics at such points as Castor, Ponoka, Stettler, Rimbey, Rocky Mountain House, and Lacombe.

Pat.-Patient contacts including treatment periods.

Col.-Contacts with a patient's parents, or relatives, or others closely interested.

Gen.—General contacts regarding Clinic activities and work, including those with other Agencies and Community Services.

P.E.-Psychological tests and examinations.

Total New Cases since 1929—Clinic services were started in 1929. Due to rearrangement of territory accurate figures by Districts are not available.

TABLE 2

AGE AND SEX CLASSIFICATION OF NEW CLININC CASES, 1950

	Ed	mon	ton	C	alga	ry 1	Pono	ka ð	& Red						
	and	Dis	trict	and	Dist		Deer	Dis	strict		Tota	al	Pe	ercen	tages
Age Group	M.	F.	Т.	M.	F.	T.	M.	F.	Т.	M.	F.	Т.	M.	F.	T.
0-4	30	15	45	31	22	53	6	2	8	67	39	106	4.1	2.4	6.5
5-9	172	82	264	132	59	191	25	11	36	329	162	491	20.2	10.0	30.2
10-14	170	84	254	88	51	139	24	16	40	282	151	433	17.3	9.3	26.6
15-19	78	68	146	38	27	65	21	25	46	137	120	257	8.4	7.4	15.8
20-24	10	17	27	19	28	47	8	6	14	37	51	88	2.3	3.1	5.4
25-29	3	9	12	13	26	39	3	10	13	19	45	64	1.2	2.8	4.0
30-34	8	10	18	11	16	27	1	5	6	20	31	51	1.2	1.9	3.1
35-39	5	5	10	12	17	29	3	1	4	20	23	43	1.2	1.4	2.6
40-44	3	1	4	1	7	14	5	2	7	15	10	25	0.9	0.6	1.5
45.49	3	2	5	11	3	14	2	2	4	16	7	23	1.0	0.4	1.4
50 and over	1	2	4	13	18	31	8	- 4	12	22	24	46	1.4	1.5	2.9
Unknown								2	2		2	2	0.0	0.1	0.1
Totals	483	305	788	375	274	649	106	86	192	964	665	1629	59.2	40.9	100.1
M—Male;							2.50	50		501	0.00	1040	00.14	10.0	100.1

TABLE 3a

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES—PRE-SCHOOL GROUP, 1950 (0 to 5 YEARS, 11 MONTHS)

Nature of Case	Edn	Dist		and District Calgary		Deer District Ponoka & Red			Totals		ls	
	M.	F.	T.	M.		T.		F.		M.	F.	Т.
Educational Problem with Ade-												
quate Intellect	4	2	6	5	5	10		1	1		8	17
Intellectual Inadequacy	16	15	31	7	5	12	4	2	6	27	22	49
Emotional Disorders	11	5	16	14	9	23	1	-	1	26	14	40
Thinking Disorders				20			-		-	100		
Speech Disorders		3	10	7	8	15	1		1	15	11	26
Faulty Feeding Habits	2		2					****		2	**	20
Sleep Disturbances	1	1	2		4	4				4	5	4
A she Could' Marine As			-							T	Э	0
a i picel ut	2		3						****			
Adda als Philase dama		-		2	1	4		****		3	22	5
Development	2		2	2	2	4	2		2	6	2	8
Psychoneuroses				1111						****		
Psychoses									****			
Non-Psychotic												
Undiagnosed		****		4	1	5				4	1	5
Totals	45	27	72	40	35	75		3	11	93	65	158
M-Male; F-Female; T-	Total						10 050				-	

TABLE 3b

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES—SCHOOL AGE GROUP, 1950 (6 YEARS TO 18 YEARS 11 MONTHS)

Nature of Case	Edmonton and District			Calgary and District				& Red istrict	Totals			
	M.	F.	т.	M	F	. т.	M.	F	т.	M	. F.	Т.
Educational Problems with Ade- quate Intellect Intellectual Inadequacy Emotional Disorders Thinking Disorders Speech Disorders	103 68 8 18	54 69 45 6 10	$192 \\ 172 \\ 113 \\ 14 \\ 28$	71 43 42 18 9	36 23 21 6 1	$ \begin{array}{r} 107 \\ 66 \\ 63 \\ 24 \\ 10 \end{array} $	14 18 12 6	19 16 11	33 34 23 6	223 164 122 26 33	109 108 77 12 11	332 272 199 38 44
Faulty Feeding Habits Sleep Disturbances Anti-Social Trends Sexual Difficulties Attack Disorders Psychoneuroses Psychoses NNon-Psychotic Undiagnosed	45 6 4 2 1 2	17 6 5 4 2 7 1	62 12 9 6 3 9 1	2 41 2 5 4 3 5	14 5 4 4 1 7	2 55 7 9 4 5 4 12	9 1 1 4	1 1 1 1 1 1	10 1 2 1 1 5	2 95 8 10 2 5 6 9	32 12 10 9 3 8 9	2 127 20 20 11 8 14 18
Totals	395	226	621	245	123	368	65	51	116	705	400	1105

M-Male; F-Female; T-Total.

TABLE 3c

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES—ADULT GROUP, 1950 (19 YEARS AND OVER)

Nature of Case	Edmonton and District			Calgary and District			Ponoka & Red Deer District			Totals		
	M.	F.	т.	M.	F.	т.	M.	F.	T.	M.	F.	Т.
Educational Problems with Ade-				100							-	~
quate Intellect	13	3	16	2	4	6	3		3	18	7	25
Intellectual Inadequacy	13	92	22	10	8	18	5	38	8	28	20	48
Emotional Disorders			4	4	14	18	1	8	9	7	24	31
Thinking Disorders	3	10	13	6	5	11	1		1	10	15	25
Speech Disorders	1		1	1		1				2		2
Faulty Feeding Habits				1		1					1	1
Sleep Disturbances					1	1	****				1	1
Anti-Social Trends				3		3	1		1	4		4
Sexual Difficulties		1	1	3	3	6	2	6	8	55	10	15
Attack Disorders		1	1	4		4	1	1	2		2	7
Psychoneuroses		10	15	17	50	67	6	8	14	28	68	96
Psychoses	-	12	17	23	24	47	12	6	18	40	42	82
Non-Psychotic		3	4	11	3	14	1		1	13	6	19
Undiagnosed		ĩ	ĩ	5	4	9				5	5	10
Totals: Table 3c	43	52	95	90	116	206	33	32	65	166	200	366
	OOF	226	621	245	123	368	65	51	116	705	400	1105
		27	72	40	35	75	8	3	11	93	65	158
Table 3a	40			-10		10	-					
Grand Totals	483	305	788	375	274	649	106	86	192	964	665	1629
M-Male; F-Female; T-	Tota	1.										

TABLE 4

SOURCES REFER	Edn and	ont	on	CASE Ca and J	Igar	y		ka	950 & Red strict		Tota	als
	M.	F.	Т.	M.	F.	Т.	M.	F.	Т.	M.	F.	T.
From Mental Hospitals (1) From General Hospitals	7	3	10 1	4	15	55	1	1	2	12	56	17 6
From Private Doctors	57	49	106	92	115	207	39	42	81		206	394
From Factory Doctors	7		7	11		11		1	1	18	1	19
	299		442 104	145 90		193 169	35 16	27	62 23	479	218 142	697 296
From Community Agencies (2). Attended Voluntarily	48 63		115	14	10	24	1		1	78	62	140
From all other sources	2	1	3	19	16	35	14	8	22	35	25	60
Totals	483	305	788	375	274	649	106	86	192	964	665	1629

NOTES: (1) Includes referrals from all Mental Institutions. (2) Includes referrals from Health Units, Child Welfare and Children's Aid. M—Male; F—Female; T—Total.

DEPARTMENT OF PUBLIC HEALTH

TABLE 5

MAJOR RECOMMENDATIONS (DISPOSALS) MADE IN REGARD TO NEW CLINIC CASES, 1950

Disposal				Calgary and District			Ponoka & Red Deer District				Totals		
	M.	F.	Т.	M.	F.	т.	M.	F.	Т.	M.	F.	Т.	
To Mental Hospital (1) To Psyshiatric Hospitals or Psy- chiatric Wards in General		31	57	40	34	74	15	13	28	81	78	159	
Hospitals To Convalescent or Nursing		1	2	1	3	4		1	1	2	5	7	
Homes (2) Reported to Hospital Consultant	22	14	36	4	4	8				26	18	44	
or Private Doctor	21	24	45	52	66	118	2	4	6	75	94	169	
Reported to Community Agencies	237	130	367	61	47	108	6	3	9	304	180	484	
Advice to Parents or Relatives	167	98	265	151	70	221	47	21	68	365	189	554	
Other Methods	9	7	16	66	50	116	36	44	80	111	101	212	
Totals	483	305	788	375	274	649	106	86	192	964	665	1629	

NOTES: (1) Includes recommendations for admission to the Provincial Training School, Red Deer. (2) Includes recommendations for Foster Home placement, and Special Class placement.

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M-Male; F-Female; T-Total.

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TABLE 6

SUMMARY OF NUMBER OF MENTAL DEFECTIVES EXAMINED BY YEARS, 1950

Year	I.Q.: 0 to 25 Probably Idiots	I.Q.: 26 to 50 Probably Imbecile	I.Q.; 51 to 75 Probably Morons	I.Q. Unknown but Mental Deficiency Indicated	Totals	Percentage of New Cases	Cumulative Totals
	M. F.	M. F.	M. F.	M. F.	M. F. T.		
Number		tal Defect	tives exam	ined to 1941	(based in part		
	timates)					32.3%	1325
1941	3 2	23 16	43 25	13 8	82 51 133	38.7%	1458
1942		18 15	34 16	3 2 3 7	61 41 102	32.9%	1560
1943 1944	6 12	17 11	15 14	3 7	41 44 85	40.1%	1645
10.10	65 66	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	26 30 32 24	10 7 4 5	58 61 119	44.6%	1764
1945	2 2	16 13	40 43	9 9	57 46 103 67 67 134	40.7% 40.6%	1867 2001
1947	3 1	$\begin{array}{ccc} 16 & 13 \\ 28 & 14 \end{array}$	77 48	19 14	127 77 204	41.9%	2205
1948	6 8	34 33	86 47	24 12	150 100 250	21.9%	2455
1949	3 4	27 29	54 63	9 7	93 103 196	13.2%	2651
1950	13 20	44 40	148 80	2	207 140 347	21.4%	2998
M-	-Male:	F-Femal	e: T-Tota	I.			

The Eugenics Board

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

The Eugenics Board for the Province of Alberta held nine meetings during the year of 1950. Five meetings were held at the Provincial Mental Hospital, Ponoka, and four were held at the Provincial Training School, Red Deer. The dates of the meetings held during 1950 are as follows:

20 January, 1950—The Provincial Mental Hospital, Ponoka.

20 January, 1950-The Provincial Training School, Red Deer.

21 April, 1950—The Provincial Mental Hospital, Ponoka.

21 April, 1950-The Provincial Training School, Red Deer.

14 July, 1950—The Provincial Mental Hospital, Ponoka.

14 July, 1950—The Provincial Training School, Red Deer.

15 September, 1950-The Provincial Mental Hospital, Ponoka.

15 September, 1950—The Provincial Training School, Red Deer.

16 November, 1950—The Provincial Mental Hospital, Ponoka.

Cases Presented.

The Board considered 97 cases, 37 of which were male and 60 female. The majority of these were passed subject to the consent of the patient or parent or guardians, or to both patient and parent or guardian.

Of the 97 cases passed by the Board during the year, 46 had been first examined at a Provincial Guidance Clinic, although some of these had been institutionalized before presentation. This group of 46 cases was made up of 10 males and 36 females.

Operations.

Operations were performed on 67 cases during the year, 21 being male and 46 female. All of these operations but one were performed at the Provincial Mental Hospital, Ponoka. 'The exception was performed at the Calgary General Hospital at the request of the patient's mother, who assumed the responsibility of hospital expenses.

Of the 67 cases operated upon during the year, 61 had been presented and passed in 1950; 3 had been presented and passed in 1949; 1 had been presented and passed in 1948; and 1 had been presented and passed in 1947.

The surgical operations mentioned above were performed by the surgical consultants, Dr. J. W. Richardson of Calgary, or Dr. J. Ross Vant of Edmonton.

Board Member Changes.

In January, 1950, Dr. R. K. Thomson was, on the recommendation of the Senate of the University of Alberta, appointed to the Eugenics Board to fill the vacancy caused by the death of Dr. E. L. Pope.

Appreciation.

The Eugenics Board wishes to express its appreciation and thanks to the Director, Division of Mental Health, to the Medical

DEPARTMENT OF PUBLIC HEALTH

Superintendents and their respective staffs, and the Guidance Clinics for their co-operation in connection with the work of the Board.

Tables.

A tabular summary of the work of the Eugenics Board to December 31st, 1950, is appended.

CASES PRESENTED AND PASSED (To December 31, 1950)

	Y	early To	tals	Cumulative Totals				
	Male	Female	Totals	Male	Female	Totals		
1929-1933	87	201	288	87	201	288		
1934-1938	557	438	995	644	639	1283		
1939-1943	339	299	638	983	938	1921		
1944	56	73	129	1039	1011	2050		
1945	54	64	118	1093	1075	2168		
1946	52	53	105	1145	1128	2273		
1947	38	53	91	1183	1181	2364		
1948	37	68	105	1220	1240	2469		
1949	63	57	109	1272	1306	2578		
1950	37	60	97	1309	1366	2675		

OPERATIONS ONLY (To December 31, 1950)

To December 01, 1000)

	Yearly Totals			Cum	Totals	
	Male	Female	Totals	Male	Female	Totals
1929-1933	 48	158	206	48	158	206
	 198	240	438	246	398	644
1939-1943	 13	27	40	381	576	957
1944	 18	29	47	399	605	1004
10.15	24	31	55	423	636	1059
1946	 122	151	273	368	549	917
1947	 16	15	31	439	651	1090
	 16	22	38	455	673	1128
	 20	27	47	475	700	1175
	 	46	67	496	746	1242













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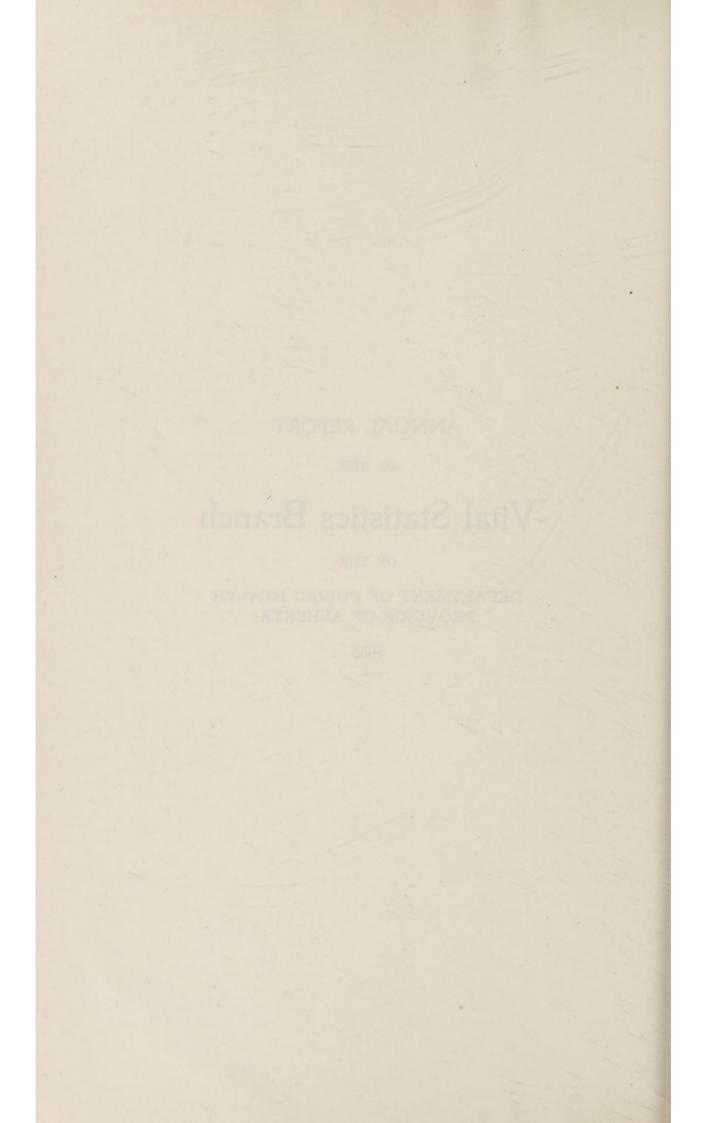
Vital Statistics Branch

OF THE

DEPARTMENT OF PUBLIC HEALTH PROVINCE OF ALBERTA

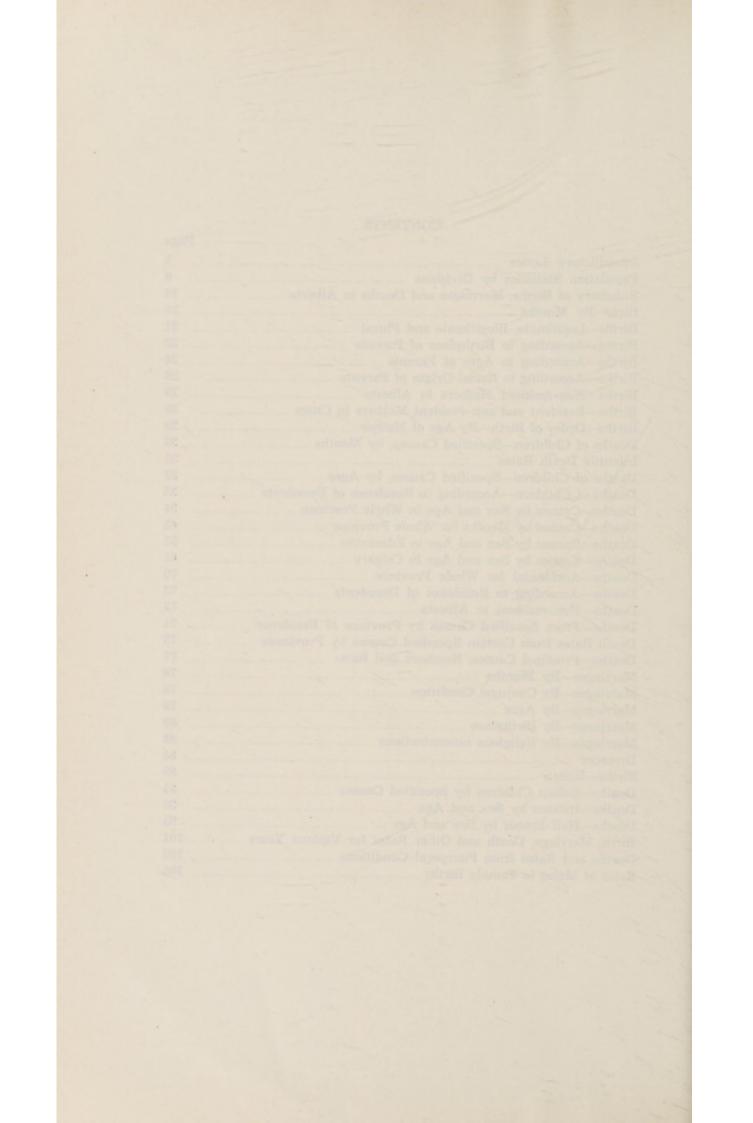
1950

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Vital Statistics Division

(ARTHUR PACKFORD, Deputy Registrar General)

The 1950 Report of the Vital Statistics Division of the Department of Public Health is the 46th Report published since the establishment of the Province, and shows that the birth and marriage rates are the same as that of the previous year; and that there is a decrease in the death rate. There was a considerable decrease in the death rates from the communicable diseases, maternal and infantile mortality. The death rates from heart diseases and accidents were slightly less than the preceding year and the cancer rate shows a small increase.

POPULATION

The population of the Province for 1950 has been estimated by the Dominion Bureau of Statistics as 895,000, an increase of 24,000. All rates in the report are, therefore, based on that figure.

BIRTHS

There were 25,625 children born to residents of the Province during the year. The rate being 28.7 per 1,000 population; 690 more births than in the previous year. Indian births numbered 1,221. Of the total births, 13,138 were males and 12,487 were females. The ratio being 1,052 males to each 1,000 females. Mutiple births comprised 309 twin births and 3 cases of triplets. There were 1,185 illegitimate births registered during the year; 39 less than the previous year; the rate being 4.6 per cent of all live births.

There were 11,108 children born to residents of cities and towns of 1,000 population and over, and 14,517 to rural residents.

The number of births to residents of the four large cities were as follows: Edmonton, 4,745; Calgary, 3,135; Lethbridge, 647; and Medicine Hat, 385. The total number of births in these cities were: Edmonton, 6,854; Calgary, 4,060; Lethbridge, 1,200; and Medicine Hat, 666.

For purposes of comparison the following are the birth rates for Canada, the Provinces and certain other countries for 1950:

BIRTH RATES

Canada Newfoundland	26.8	Australia New Zealand	23.3
Prince Edward Island	30.1	Belgium	16.3
Nova Scotia	26.2	Denmark	18.6
New Brunswick	31.4	Finland	24.1
Quebec	29.9	France	20.4
Ontario	24.1	Italy	19.2
Manitoba	24.1	Austria	15.1
Saskatchewan	24.8 28.7	Austria Norway	19.3
British Columbia	23.8	Portugal	23.8
England and Wales	15.8	Spain	19.8
Scotland	17.9	Sweden	16.4
Eire	21.0	Switzerland	18.2
United States	11.2	South Africa	25.7

MARRIAGES

Marriages in 1950 numbered 9,294, being 257 more than in the preceding year and 601 more than the average of the 5 preceding years. The rate per 1,000 population was the same as the previous

VITAL STATISTICS BRANCH

year, being 10.4; 113 of the bridegrooms were 18 years of age or under, and 206 of the brides were 16 years of age or under; 2,288 of the brides were 17 to 19 years of age and 4,006 were 20 to 24 years of age; 178 bridegrooms and 81 brides were 60 years of age and over; 11 grooms and 4 brides were over 75. Of the bridegrooms, 90.5 were bachelors, 4.1 were widowers, and 5.4 were divorced; and of the brides, 89.9 were spinsters, 5.3 were widows, and 4.8 were divorcees.

The following are the marriage rates for Canada, the Provinces and certain other countries for 1950:

MARRIAGE RATES

Canada	9.0	Australia	9.2
Newfoundland	7.1	New Zealand	9.2
Prince Edward Island	6.4	Belgium	8.3
Nova Scotia	7.7	Denmark	9.1
New Brunswick	8.4	Finland	8.5
Quebec	8.6	France	7.9
Ontario	9.7	Italy	7.5
Manitoba	9.0	Netherlands	8.2
Saskatchewan	7.9	Austria	9.1
Alberta	10.4	Norway	8.3
British Columbia	9.8	Portugal	7.6
England and Wales	8.1	Spain	7.4
Scotland	7.8	Sweden	7.7
Eire	5.4	Switzerland	8.0
United States	11.2	and a second a second a second	

DIVORCES

There were 550 final Divorce Decrees granted during the year. This is 44 less than the previous year and 186 less than the average for the preceding 5 years. Of the divorces, 249 were granted to husbands and 311 to wives. In addition to the divorces, 6 Decrees of Nullity were also granted.

DEATHS

The deaths of 6,856 residents of the Province were registered during the year; of these 342 were Indians. Male deaths numbered 4,182 and female deaths numbered 2,667. There were 227 less deaths than the previous year, but 123 more than the average number of deaths for the preceding 5 years. The death rate was 7.7 per 1,000 population; the rate for 1949 being 8.2. The number of deaths of residents of the four large cities were as follows: Edmonton, 1,183 Calgary, 1,154; Lethbridge, 173; and Medicine Hat, 131. The actual number of deaths which occurred in these cities were: Edmonton, 1,642; Calgary, 1,305; Lethbridge, 242; and Medicine Hat, 168.

The deaths are classified this year for the first time according to the sixth revision of the International List of Causes of Death. This manual is revised and brought up to date every ten years and the sixth revision was adopted in 1948, and put into use in 1950. It is now known as the Manual of the International Statistical Classification of Diseases, Injuries and Causes of Death, and due to the changes made in the lists of categories and inclusions, strict comparisons with figures for preceding years is possible only in certain causes.

Diseases of the heart, which has long been the chief cause of death, were responsible for approximately the same number of deaths as the previous year, the number being 2,046 and the rate 228.6 per 100,000 population. In 1949 the number was 2,033 and the rate 233.4.

Deaths from all forms of cancer, including Hodgkins Disease, Leukemia and Aleukemia, numbered 997, the rate being 110.4. The number and the rate the previous being 957 and 109.9.

Tuberculosis deaths numbered 171, of which 80 were Indians, Deaths from tuberculosis of the respiratory system numbered 135; of these 63 were Indians. The death rate for all forms of tuberculosis was 19.3 and for tuberculosis of the respiratory system 15.3. The previous year's rates were 24.2 and 17.9 respectively.

Pneumonia deaths numbered 273, this number being 103 less than the previous year, and there were 27 deaths from influenza, 14 less than the preceding year.

There were 8 deaths from poliomyelitis, one less than in 1949.

Violent deaths from all causes numbered 655; of these 82 were suicides, an increase of 2, and 12 were homicides, 3 less than the previous year. Motor vehicles accidents accounted for 159 deaths, a decrease of 5; and other transport accidents caused 41 deaths, comprising 7 street car, 8 water transport, 21 railway, and 5 aircraft accidents. In addition, there were 5 deaths due to aircraft accident which were not included in above figures, as the wreck was not found and the deaths registered until the tables were compiled. Accidents in mines and quarries accounted for 25 deaths, agriculture accidents 28, and forestry 17. Accidental drowning caused 35 deaths, conflagration 39 deaths, and injury by firearms 20.

DEATH RATES

Canada	8.9	Australia	9.6
Newfoundland	8.6	New Zealand	9.3
Prince Edward Island	9.5	Belgium	12.2
Nova Scotia	9.2	Denmark	9.2
New Brunswick	9.4	Finland	10.3
Quebec	8.4	France	12.6
Ontario	9.7	Italy	9.7
Manitoba	8.3	Netherlands	7.5
Saskatchewan	7.1	Austria	12.1
Alberta	7.7	Norway	8.9
British Columbia	10.2	Portugal	11.9
England and Wales	11.6	Spain	10.6
Scotland	12.4	Sweden	10.0
Eire	12.6	Switzerland	10.1
United States	9.6	South Africa	9.1

MATERNAL MORTALITY

There was again a decrease in the number of deaths due to puerperal causes, the number of maternal deaths this year being 19, as compared with 25 the preceding year, the rate being 0.7 per 1,000 live births, the lowest maternal death rate in the history of the Province.

MATERNAL DEATH RATES PER 1,000 LIVE BIRTHS

Canada Newfoundland	1.1	Alberta 0.7 British Columbia 1.0	1
Prince Edward Island	1.0	Eire 1.2	
Nova Scotia	1.2	Italy 1.3	3
New Brunswick	0.9	Northern Ireland 1.1	
Quebec	1.5	Portugal 1.7	
Manitoba	0.9	Scotland 1.1 United States 0.7	
Saskatchewan	1.0	United States	2

INFANT DEATHS

There were 831 deaths of children under one year of age, 8 more than in the preceding year; 470 of this number were males and 361 were females. Of these children, 250 were under one day old and 518 were under the age of one month. The infantile death rate was 32 per 1,000 live births, the rate for the preceding year being 33.

VITAL STATISTICS BRANCH

INFANT MORTALITY RATES PER 1,000 LIVE BIRTHS

Canada	41	Australia	25
Newfoundland	58	Scotland	39
Prince Edward Island	37	Eire	45
Nova Scotia	40	United States	29
New Brunswick	57	Austria	64
Quebec	51	Finland	43
Ontario	34	France	47
Manitoba	35	Italy	64
Saskatchewan	32	Netherlands	25
Alberta	32	Portugal	94
British Columbia	30	Spain	64
England and Wales	30		

Still births numbered 372. This was 29 less than the previous year, the rate being 14.5 per 1,000 live births.

e definites of 5 and other, insurport accidents coursed 41 danths

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 ϵ dvisable to use as smaller areas, the Dominion Census Divisions.

The Province is divided into 17 census divisions. These divisions are further subdivided into organized municipal areas. These municipal areas, which were each originally within the boundaries of a single census division, have been reorganized by the Provincial authorities into larger units, and now, in many cases, part of the new municipality or improvement district is in one census division and part in another.

The following table shows the census divisions divided into municipalities, improvement districts, cities, towns and villages, with the 1946 and 1941 division population figures. The table is arranged to show the population of each of the former municipal districts, improvement districts or parts of districts included in the new units. Each new unit in the table is in blackface type. The former area or areas which make up the new units are listed directly beneath.

Division and Subdivision	T	otal	Division and Subdivision	Te	otal
Division and Subdivision	1946	1941	Division and Subdivision	1946	1941
ALBERTA	803.330	796,169	Division No. 1-Continued:	20 3	~
Rural		489,583	Continueur.		
Urban		306,586	Division No. 2	60.982	58,56
Orbitit	001,000	000,000	Rural		29,72
Division No. 1	31,256	29,595	5. Sugar City	5.116	4.74
Rural				376	4,74
1. I.D.			7. I.D. 8. I.D. (pt.)	179	20
1. I.D.					
		148	37. Sugar City	2,844	2,39
2. I.D.		169	38. I.D.		1,28
3. I.D.			67. I.D. (pt.)		44
31. I.D.			6. Cochrane		4,23
32. I.D.			8. I.D. (pt.)		1,10
2. Burlington			9. I.D.		1,53
33. Flowery Plains		487	10. Cochrane		1,58
34. Burlington			8. I.D.		
3. I.D.		2,505	39. Kerr (pt.)		
4. I.D.		521	40. Castle River (pt.).	41	
5. I.D.		1,067	9. Pincher Creek	3,135	3,36
6. I.D.		541	39. Kerr (pt.)	1,422	1.53
35. I.D.		376	40. Castle River (pt.)	605	61
4. Warner		1,871	70. Livingston	1,108	1,21
36. Warner		1,871	10. I.D.	4.153	4.14
11. I.D.	3.774	4.756	71. I.D.	4.153	4,14
61. I.D.	565	740	15. I.D. (pt.)	7.171	6,69
62. I.D.	. 534	615	67. I.D. (pt.)	4,530	4.26
63. I.D.	. 514	609	16. Bright	2.264	2.42
91. I.D.		1.164	68. I.D. (pt.)	2,641	2.42
92. I.D.		890	39. Kerr		6
93. I.D.		738	68. I.D. (pt.)	374	423
12. Forty Mile		959	69. Bright	1.187	1.15
64. Forty Mile		959	99. Argyle (pt.)	454	47
13. Bow Island		535	100. I.D. (pt.)	249	30
94. Bow Island		535	26. Argyle (pt.)	1.248	1.51
14. Eureka		1.098	99. Argyle (pt.)	1.009	1.23
65. Eureka		1,098	100. I.D. (pt.)	239	27
15. I.D. (pt.)		2,297	27. I.D. (pt.)	95	16
66. I.D.		2,297	101. I.D.	95	16
		2,201	Waterton Lakes Nat. Park	210	26
Urban	16,229	13,187	Indian Reserves	2,483	2,16
Cities:	10,000	10,101		-,100	
Medicine Hat	12.859	10,571	Urban	31,331	28,83
Towns:	12,000	10,011	Cities:	01,001	20,00
Bow Island	432	291	Lethbridge	16.522	14,613
Irvine		240	Towns:	10:022	14,01
		1.331	Blairmore	1.767	1.73
Taber	1,100	1,001			
Villages:	110	123	Clarashalm	2,334	1,86
Burdett			Claresholm	1,306	1,26
Milk River		335	Coleman	1,809	1,87
Warner	370	296	Granum	238	23

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946

VITAL STATISTICS BRANCH

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Division and Subdivision		tal	Division and Subdivision	Total		
	1946	1941	and the second second	1946	1941	
Division No. 2—Continued:			Division No. 4-Continued:			
Towns-Continued:			Rural-Continued:			
Macleod	1,649	1,912	192. I.D.	39	6	
Magrath Dischart Creak	1,295	1,207	193. I.D.	719	2 927	
Pincher Creek Raymond	1,148 2,116	994 2,089	Bow West Areat (pt.) 96. I.D. (pt.)	176	245	
Villages:	-,	2,000	127. I.D. (pt.)		595	
Coaldale	413	290	157. Marquis (pt.)	65	87	
Cowley Frank	94 194	125 204	Urban	9.270	7.068	
Stirling	446	437	Towns:	0,210	1,000	
			High River	1,674	1,430	
Division No. 3	14,749	15,518	Nanton Okotoks	873 694	718 591	
Rural 21. I.D.	10,963	12,151 2,404	Stavely	299	273	
121. Many Islands (pt.)	1.011	2,101	Vulcan	786	732	
I.D.	1,927	2,404	Villages:	200	051	
122. Jubilee I.D. (pt.) 22. I.D.	614 631	633 637	Arrowwood Barons	206 270	251 233	
125. I.D. (pt.)	17	4	Black Diamond	1,380	890	
125 I.D. (pt.)		1,180	Blackie	222	223	
23. I.D.	1,308	1,359	Carmangay		229 133	
127. I.D. (pt.)	204 5,480	179 5.475	Caley Champion		320	
123. Bow Slope (pt.)	5,480	5,475	Milo		129	
34. Acadia (pt.)	12	9	Lomond		129	
241. Acadia (pt.)	12	9 317	Nobleford Picture Butte		111	
Army Experimental Range 121. Many Islands		12	Turner Valley	1,157	676	
122. Jubilee I.D. (pt.).		305				
Berry Creek-Sullivan Lake		-	Division No. 5		18,926	
Area (pt.) 122. Jubilee I.D. (pt.)	661 661	752 752	Rural 34. Acadia (pt.)		15,560	
Bow West Area (pt.)	944	1.198	241. Acadia (pt.)		739	
96. I.D. (pt.)	398	536	42. I.D. (pt.)	2.761	2,428	
127. I.D. (pt.)	546	662	276. I.D. (pt.)		2.428	
Urban	3.786	3,367	47. Starland 277. Michichi	2,627	3,214	
Towns:	0,100	0,001	306. Lambton (pt.)	688	848	
Bassano	590	582	307. Starland	1.060	1,248	
Brooks	1,091	888	Berry Creek-Sullivan Lake		4 650	
Redcliffe Villages:	1,289	1,111	Area (pt.) 214. I.D. (pt.)		4,658	
Duchess	207	149	305. I.D. (pt.)	2,383	2,986	
Empress	417	341	306. Lambton (pt.)	338	421	
Enchant Jenner		76 27	Sounding Creek-Neutral	3.667	4.521	
Tilley	192	193	Hills Area (pt.) 214. I.D. (pt.)		185	
	1052		242. I.D.	2,087	2,506	
Division No. 4		29,383	273. I.D.		553	
Rural 25. Barons		22,315 22,315	331. I.D. (pt.)	992	1,277	
97. I.D.		2,939	Urban	3,310	3,366	
98. Little Bow		1,363	Towns:			
127. I.D. (pt.)	40	71 1.994	Hanna Villages:	1,756	1,622	
26. Argyle (pt.) 129. Clear Lake	1.544	1,728	Cereal	111	142	
130. I.D. (pt.)		266	Chinook		142	
27. I.D. (pt.)	155	107	Craigmyle		186	
130. I.D. (pt.) 131. I.D.	59 96	39 68	Delia Morrin		315	
Rural:	50	00	Munson		139	
29. Vulcan		2,726	Oyen	339	326	
127. I.D. (pt.)	26 621	72 845	Rumsey		90	
128. Harmony 157. Marquis		442	Youngstown	235	188	
158. Royal	1,174	1,367	Division No. 6	157,556	146,990	
30. Blackie	2,171	2,433	Rural	45,914	46,679	
157. Marquis (pt.) 189 Dinton		857 1,576	28. I.D. (pt.)	663	663	
189. Dinton 31. Highwood		3,552	123. Bow Slope I.D. (pt.)	663	668	
159. Riley	1,686	1,721	32. Turner Valley (pt.)	63	8	
190. Sheep Creek	1,811	1,831	222. I.D. (pt.)	63	84	
32. Turner Valley (pt.)	4,540	6,175	39. I.D.	458	55	
160. I.D. 161. I.D. (pt.)	1,461	2,422 47	217. I.D. 40. Bow Valley		553 2,907	
and a second sec						
191. Stockland	3.061	3,706	218. Blackfoot	1,244	1,451	

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POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Division and Subdivision	To	otal	Division and Subdivision	Total	
	1946	1941	and more than the	1946	1941
Division No. 6—Continued:			Division No. 7—Continued:		
Rural-Continued:		10.011	Rural—Continued:		
247. I.D.	686		421. Ribstone	1,229	1,41
42. I.D. (pt.) 276. I.D. (pt.)	3,840	4,061 4,061	422. Gilt Edge 423. Battle River	1,322	1,48
43. Serviceberry		3.013	62. Flagstaff	1,086	7.80
248. Grasswold	1,332	1,400	364. Flagstaff	998	1,53
249. Keoma 44. Conrich	4,892	1,613 4,273	394. Asquith 395. Wheatland		1,04
220. Shepard		2.134	424. Kinsella	1,465 993	1,69
250. Beddington	2,051	2,139	425. Sterling	1,688	1,87
45. Springbank		3.241	455. Iron Creek (pt.)	482	5
221. Springbank		3,241 3,598	73. Beaver (pt.) 455. Iron Creek (pt.)	$1.347 \\ 1.347$	1.5
222. I.D. (pt.)	286	405	Berry Creek-Sullivan Lake	1,011	1.0
223. I.D.	1,693		Area (pt.)	126	1.
251. I.D. 252. I.D.		1,314 333	305. I.D. (pt.) Sounding Creek-Neutral	126	14
254. I.D.			Hills Area (pt.)	2,555	3.01
224, 253. I.D.	-		331. I.D. (pt.)	2,555	3,01
48. Kneehill		8,097	Buffalo National Park	17	
278. Carbon 279. Norquay	1.982	1,580 2,184	Urban	7.915	7.10
308. Ghost Pine	1,786	2,023	Towns:	1,010	
309. Stauffer	2,176	2,310	Castor	647	63
49. Mountain View		9,800 2,233	Coronation Hardisty	633 494	58
281. Beaver Dam		2.327	Wainwright	1,261	90
310. Mountain View		2,580	Villages:		
311. Westerdale 50. I.D.		2,660	Alliance	243	2:
50. I.D. 282. I.D.		1,085	Cadogan Chauvin	383	34
283, 284. I.D.			Consort	325	20
51. Banff National Park	2,244	2,545	Czar	121	13
Banff (not) Indian Reserves		2,187 1,859	Edgerton Forestburg	273 243	2: 2:
indian incorres	2,000	1,000	Galahad	166	14
Urban	111,642	100,311	Hughenden	168	16
Cities: Calgary	100,044	88.904	Irma Killam	345 430	27 34
Drumheller		2,748	Lougheed		19
Towns:			Monitor		8
Didsbury		892 435	Provost Sedgewick	645	51 33
Gleichen Olds		1.337	Strome	417 233	23
Strathmore	603	560	Veteran	191	19
Three Hills	. 952	706	Viking	526	4
Villages: Acme	282	285	Division No. 8	64.789	67.63
Airdrie		191	Rural	44,097	49,2
Beiseker		240	54. Stettler	6.093	7,1
Carbon Carstairs		409 371	336. Success	1,236 686	1,3
Cluny		138	366. Dublin	1.071	1,2
Cochrane	405		367. Waverly	1,790	1,8
Crossfield Forest Lawn	433 646	409 899	396. Haig (pt.) 397. Lakeside (pt.)	811 499	1,0
Hussar		116	55. Red Deer (pt.)	6.681	7.7
Irricana	. 150		338. Hays	2,411	2,7
Langdon		95	339. Pine Lake	2,011	2,7
Rockyford Rosebud		201 99	340. Arthur 63. Camrose	2,259 11,456	2,3
Standard		212	396. Haig (pt.)	413	5
Swalwell		114	397. Lakeside (pt.)	922	1.0
Trochu	515	480	426. Melrose 427. Evergreen	2,760 2,469	2,9
Division No. 7	29,928	33,285	456. Parkland (pt.)	2,197	2,3
Rural	22,013	22,116	457. Lloyd George	2,695	2,90
52. Provost			64. Lacombe (pt.) 398. Lamerton	6,020	6.5
362. Hillcrest 363 Stocks (pt.)		986 617	399. Crown	2,169 3,851	2,4
391. Sifton	1,454		66. Ponoka (pt.)	5,625	6,2
392. Vale (pt.)	310	384	428. Waterglen	1,277	1,4
393. Huamha		1,041 4,160	429. Fertile Valley 73. Beaver (pt.)	4,348	4,74
53. Paintearth 334. Coronation			456. Parkland (pt.)	398	5
363. Stocks (pt.)	. 286	318	74. Wetaskiwin (pt.)	6,496	7,2
365. Progress	1,723	2.002	458. Montgomery	3,185	3,4
61. Wainwright (pt.)		4.755	459. Bigstone (pt.)	3,311	3.7

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Division and Subdivision	Total		Division and Subdivision	Total	
1042	1946	1941		1946	1941
Division No. 8—Continued:			Division No. 9-Continued:	115.4	
Urban	20,692	18,337	Rural-Continued:	1000	
Cities:	1.040		80. Jasper National Park	1.588	1,62
Red Deer Wetaskiwin	4,042	2,924 2,318	Jasper (not)	1,419	1,33
Towns:			Urban	4,150	3,18
Camrose Daysland		2,598 438	Towns: Rocky Mountain	1.017	80
Innisfail		1,223	Sylvan Lake		80
Lacombe		1,603	Villages:	0.00	
Ponoka Stettler		1,306 1,295	Bentley Bowden		27 23
Villages:	12133		Eckville	195	13
Alix Bashaw		360 494	Rimbey	698 634	52 41
Bawlf	231	227	runnbey	0.04	41
Big Valley	209	291	Division No. 10		58,80
Bittern Lake Blackfalds		50 113	Rural 61. Wainwright (pt.)	42,510	49,98 42
Botha		111	451. Merton (pt.)	259	30
Clive	227	224	452. Grizzly Bear (pt.)	74	12
Delburne Donalda		308 206	71. Vermilion River (pt.) 451. Merton (pt.)	10,572	11,86
Edberg	163	152	452. Grizzly Bear (pt.)	973	1,24
Elnora	201	195	481. Wellington	1,566	1,79
Erskine Ferintosh	186	172 169	482. Vermilion Valley 511. Streamstown	1,819	1,87
Gadsby	120	141	512. Ethelwyn	2,815	3,15
Gull Lake Halkirk	39 121	21 118	72. Minburn	6,218	7.05
Millet		325	453. Buffalo Coulee 454. Lakeview	1,130	1,37
Mirror	562	570	483. Melberta	1,716	1.89
New Norway Ohaton		169 53	484. Birch Lake	2,130	2,43
Penhold	134	183	73. Beaver (pt.) 485. Patricia (pt.)	3,173	3,68
	12200110	0.000	486. Beaver Lake (pt.)	2.093	2.42
Division No. 9 Rural			81. Eagle 485. Patricia (pt.)	11,787	14,48 84
55. Red Deer (pt.)	5.006	5.735	513. Ukraina	2,549	3.17
341. Poplar Grove	2,762	3,113	514. Sobor	2,664	3,27
371. Golden West 56. Waterloo	2,244	2,622 1,402	515. Norma 545. Eagle		3,02 4,15
312. Waterloo	1,482	1,402	82. Lamont	10,427	12,47
57. Raven 342. Raven		2,254	486. Beaver Lake (pt.)	585	67.
58. I.D.		2,254 94	516. The Pines 546. Wostok	2,966	3,54
313, 314. I.D.	11	12	547. Leslie	3,064	3,59
316. I.D. 344. I.D.		472	Urban	9,371	8.82
374, 375. I.D.	6	6	Towns:	0,011	0,02
315, 345, 346. I.D.		0.070	Lloydminster (pt.)	698	57
64. Lacombe (pt		2,670 2,670	Vegreville Vermilion	1,563	1,69
65. I.D.	3,865	4,307	Villages:	2,000	
343. I.D. 401. Lochearn	2,716	833 3,037	Andrew Raudorhoim		32
403. I.D.	368	437	Bruderheim Chipman	232	23 24
66. Ponoka (pt.)	1.685	1.800	Derwent	207	17
430. Blindman 67. Last West	1,685	1,800 1.898	Hairy Hill Holden	235	36
431. Last West	1,482	1,898	Innisfree	258	25
68. I.D.		135	Islay Viteootr	0.40	13
432. I.D. 69. I.D.		135 1.234	Lamont	240	23 43
376. I.D.	1,263	768	Lavoy	127	17
433. I.D. 434. I.D.		114 240	Manville Minburn	472	39
435. I.D.		240	Minburn Mundare	198 727	12 75
436. I.D. (Pt.)	2		Myrnam		21
463. I.D. 464, 465. I.D.	119	102 2	Ranfurly Ryley	338	12 32
347, 348, 377, 437 (pt.)			Two Hills		210
76. I.D. (pt.)	3.187	3,877	Willingdon	436	42
460. Columbia	1,760	1,951 1,486	Division No. 11	168 331	149 10
462. I.D.	381	440	Rural	48,548	
79. I.D. (pt.)		2,017	73. Beaver (pt.)	2.629	2,99
436. I.D. (pt.) 466. I.D. (pt.)		3 2,014	487. Cornhill 74. Wetaskiwin (pt.)	2,629	2,997
437 (pt.), 468. I.D.			459. Bigstone (pt.)		3

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Division and Subdivision	T	otal	Division and Subdivision	Te	otal
Line Rest	1946	1941		1946	1941
Division No. 11-Continued:			Division No. 12-Continued:		
Rural-Continued:			Dunal Continued		
75. Leduc	11.629	12.741	Rural—Continued: 529, 530, 561, 587. I.D.		
488. Black Mud	3,798	4,239	108. I.D. (pt.)	131	106
489. Liberty 490. Pioneer	4,394 3,437	4,883 3,619	612. I.D. (pt.)	131	100
76. I.D. (pt.)	1.385	1,479	109. I.D. (pt.) 583. I.D.	1,189 830	
491. I.D.	1,385	1.479	612. I.D.	319	27
83. Strathcona 517. Clover Bar	6.383	6,725 2,740	615. I.D.		4
518. Strathcona	3,868		616. I.D. 110. I.D. (pt.) 589. I.D. (pt.)	45	
84. Stony Plain	11,816				191
519. Spruce Grove 520. Inga	6,923 2,693	4.824 3.013	590. I.D. (pt.)	45	0.000
521. Tomahawk	1.960	2,198	111. I.D. (pt. 591. I.D. (pt.)		
551. Morthen (pt.)	240	26			
90. Sturgeon (pt.) 548. Sturgeon	5,429	$5.115 \\ 5.115$	Urban Towns:	1,874	1,934
91. Morinville (pt.)	3.248	3,542	Edson	1,571	1,499
549. Ray 93. Lac Ste. Anne (pt.)	3,248 5.109	3,542 5,654	Villages:		
550. Woodford	2.590	3,045	Entwistle Mayerthorpe	303	218 217
551. Morthen (pt.)	2,519	2,609			
Elk Island National Park Indian Reserves		50 997	Division No. 13		
			Rural 71. Vermilion River (pt.)	27,775 441	30,805 587
Urban	119,783	99,793	541. I.D. (pt.)	441	587
Cities: Edmonton	113 116	03 817	85. I.D.	360	513
Towns:	110,110	00,011	541. I.D. (pt.) 571. I.D.	132 228	153 359
Beverly	1,171	981	86. St. Paul	9,234	10,122
Fort Saskatchewan	921 920	903 871	542. Lincoln 543. Laurier	1.079	1.221
Morinville		580	544. Champlain	1.964	2.213
St. Albert		697	573. St. Vincent (pt.)	1,241	1,351
Stony Plain Tofield		566 551	574. St. Lina 605. Ashmont (pt.)	1,267 891	1,347
Villages:		001	87. Bonnyville	1.737	1.867
Alberta Beach		59	572. Bonnyville	1,737	1,867
Hay Lakes Kapasawin	199	154	88. St. Vincent 573. St. Vincent (pt.)	1.628	1,965
Onoway	175	156	89. Smoky Lake (pt.)	4.103	4.837
Sangudo Saba Basah		173	575. Vilna	3,087	3,590
Seba Beach Wabamun		84 201	605. Ashmont (pt.) 635. I.D. (pt.)	872 144	1,069
			101. I.D.	5,719	6,259
livision No. 12 Rural			601. I.D. 602. I.D.		1,466
77. I.D.			603. I.D.		1,311
522. I.D.		2,004	604. I.D. (pt.)	288	313
78. I.D. 493. I.D.	2,016	2,487 34	631. I.D. 632. I.D.	953 11	1,007
495, 524. I.D.	24	35	633. I.D.	92	131
523, I.D.	83	1 210	634. I.D. (pt.)	20	64
553. I.D. 554. I.D.	773	$1,318 \\ 1,001$	102. I.D. (pt.) 604. I.D. (pt.)	2,577 312	2,743
494. I.D.	is our		634. I.D. (pt.)	140	216
79. I.D. (pt.)	2.558	1.862	635. I.D. (pt.)	919	1,013
466. I.D. (pt.) 498. I.D.	2,555	1,803 59	664. I.D. (pt.) 666. I.D.	32 832	751
93. Lac Ste. Anne (pt.)	2,148	2,484	695. I.D.	342	353
582. Kitchener	2,103 45	2,458 26	121. I.D. (pt.) 661, 662. I.D.	13	52
612. I.D. (pt.) 94. Pembina	2.710	2.667	663. I.D.	1	35
552. Pembina	2,710.	2,667	664. I.D. (pt.)		35
95. I.D. 525. I.D.	2,236	2,560 43	Indian Reserves	1,963	1,859
525. I.D. 526. I.D.	72	225	Urban	2,577	2,367
527. I.D.	356	344	Towns:		
555. I.D.	860	930 291	St. Paul	1,187	1,018
556. I.D. 584. I.D.	472	690	Villages: Bellis		128
585. I.D.	37	37	Bonnyville	730	603
586. I.D.	100		Elk Point	338	307
96. I.D. 528. I.D.	166	85 30	Vilna	322	311
557. I.D.	25	100	Division No 14	44,546	47,899
558. I.D.	30	. 44	Rural	40,075	44,526
559, 560. I.D. 588. I.D.		47	89. Smoky Lake (pt.) 576. Smoky Lake	8,167 3,294	9,884 3,974

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Division and Subdivision	and Subdivision		Division and Subdivision	Total	
Division and Subdivision	1946	1941		1946	1941
ivision No. 14—Continued:			Division No. 15-Continued:		
			Rural—Continued:	(indicas)	
Rural—Continued: 577. Unity	3.924	4,798	675, 676, 677, 678, 679,	and the last	
606. I.D. (pt.)	21	46	I.D.		
607. I.D. (pt.)	928 2.619	1,066 3,166	620, 621 (pt.), 647, 648, 674. I.D.		
90. Sturgeon (pt.)	2,619	3,166	111. I.D. (pt.)	211	26
91. Morinville (pt.)	2,563	2,838	622. I.D. (pt.)		1:
579. Hazelwood (pt.) 92. Westlock	2,563	2,838 10,469	623, 650, 651. I.D. 681. I.D.		4
579. Hazelwood (pt.)	673	653	709. I.D.	99	9
580. Lockerbie (pt.)	1,903	2,309	710. I.D.	112	8
608. Tawatinaw 609. Pibroch	2,123	2,256 2,476	591 (pt.), 621 (pt.), 624, 649, 680, 711.		
610. Shoal Creek	2,665	2,775	I.D.		
93. Lac Ste. Anne (pt.)	2,487	3,006	123. I.D.		1
580. Lockerbie (pt.)	514	723 2.283	700, 702. I.D. 672, 673, 701, 703. I.D.		1
581. Pershing	3.392	3,557	124. I.D.	2,731	2,54
606. I.D. (pt.)	25	28	730. I.D.	88	15 69
607. I.D. (pt.)	997	1,123 505	731. I.D. 732. I.D.	691 866	75
636. I.D. (pt.)	1,508	1,412	733. I.D.	1,086	93
726. I.D.		489	125. I.D.	2,713	3.04
103. Cartier 637. Cartier	1,423	1,397 1,397	705. I.D. 734. I.D.	28	9
104. I.D.	1 0001	2,112	735. I.D.	200	24
636. I.D. (pt.)	159	171	864. I.D.	1,312	1,08
667. I.D.	1,750	1,941 1,808	765. I.D. 794. I.D.	856	1,38
105. Nelson 638. Nelson	1.733	1,808	704. I.D.		
106. Grosmont	835	863	126. I.D.	1,719	1,68
668. Grosmont (pt.)	835	863 3.166	706. I.D. 707. I.D.	422 274	41 20
107. I.D. 639. I.D.	2.925	903	708. I.D.	41	9
640. I.D.	976	1,029	736. I.D.	149	13
668. Grosmont (pt.)	27	COF	737. I.D.	206	73
669. I.D. 698. I.D.	501	695 63	738. I.D. 767. I.D. (pt.)	19	'i
699. I.D.		476	130. I.D.	3,571	4,32
108. I.D. (pt.)		1,088	766. I.D.	725	60
611. I.D. 122. I D.	978	1,000	767. I.D. (pt.)	286	87
696. I.D.	243	281	796. I.D.		2,75
697. I.D.		588 57	131. I.D. (pt.)	1.624	1.82
727. I.D. 728. I.D.	173	79	825. I.D. 826. I.D.	903	97
729. I.D.	327	167	855. I.D.	447	58
	4 471	0 070	824, 854. I.D.	938	1,1
Urban Towns:	4,471	3,373	Indian Reserves	000	1,14
Athabasca	747	578	Urban	2,742	1,46
Villages:	739	399	Towns: Peace River	997	87
Barrhead Clyde			Villages:		
Lac La Biche	642	517	Fahler		24
Legal		462	Grouard High Prairie		34
Radway Smoky Lake		430	McLennan	1	
Waskatenau	258	237			1.000
Westlock	854	590	Division No. 16 Rural	28,733	30,34
ivision No. 15	17,097	17,484	111. I.D. (pt.)	1	1
Rural	14,355	16,020	741. I.D. (pt.)		
108. I.D. (pt.) 641. I.D.		917 875	742. I.D. (pt.) 127. Grande Prairie	9.505	10.6
670. I.D.	31	42	739. Grande Prairie	1,962	2.3
671. I.D.			740. Bear Lake		2.6
109. I.D. (pt.) 613. I.D.			741. I.D. (pt.) 742. I.D. (pt.)		1,6
614. I.D.		3	769. I.D. (pt.)		
642. I.D.	37	8	770. I.D. (pt.)	352	
643. I.D.		75	771. I.D. 772. I.D.		1,9
110. I.D. (pt.) 589. I.D. (pt.)	1		132. I.D.		2.2
590. I.D. (pt.)	53	64	769. I.D. (pt.)	600	6
617, 644, 645. I.D.			797. I.D. 827. I.D.		
618, 619, 646. I.D. 622. I.D.			827. 1.D. 828. I.D.		

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1946—Continued

Divisions and Subdivisions	To	otal	Divisions and Subdivisions	Total	
	1946	1941	Difference and Dubury Months	1946	1941
Division No. 16-Continued:			Division No. 17-Continued:		
133. Spirit River	1.404	1.828	Rural-Continued:		
829. Spirit River	1,404	1,828	760, 820, 848-850. I.D.		
134. I.D. 770. I.D. (pt.)	2,560 602	2,728 644	129. I.D. 761, 762. I.D.	378	33
800. I.D.		393	763, 793, I.D.	22 243	19
801. I.D. 830. I.D.	76	93	852, 853. I.D.	52	7
830. I.D. 831. I.D.		1,022 538	880, 881, I.D. 791, 792, 821-823, 851.	61	6
860. I.D.		10	I.D.		
861. I.D. 135. Peace		28	131. I.D. (pt.)	136	5
135. Peace 857. Peace	1,791	2.003 2,003	882. I.D. 915. I.D.	127	4
136. Fairview	2,074	2.326	137. I.D.	112	4
858. Fairview		2,326	878, 879, 910. I.D.	112	4
138. I.D. (pt.) 886. I.D.	1,641 451	1,844 516	877,908. I.D. 138. I.D. (pt.)	2.033	1.97
887. I.D.	578	666	946. I.D.	1.657	1.57
916. I.D.	290	268	947. I.D.	55	8
917. I.D. 139. I.D.	322 2.110	394 2,506	977. I.D. 978. I.D.	129	13
859. I.D.	884	824	143. I.D.	192 2,555	2.31
888. I.D.	411	564	782. I.D.	35	3
889. I.D. 890. I.D.	446	681 62	843. I.D. 791 792 794 I.D	2,520	2,28
891. I.D.	182	164	781, 783, 784. I.D 144. I.D.	89	1
919. I.D.	55	80	907. I.D.	24	
920. I.D. 918, 921. I.D.	87	131	1092. I.D.	65	3
Indian Reserves	115	161	909, 938, 940, 969-971, 1000-1002, 1029-1031,	1	
Urban	5,253	4.000	1059, 1119. I.D. 145. I.D.	58	9
Towns:			945, 975. I.D.	16	4
Grande Prairie Villages:	2,267	1,724	1005. I.D. 911-914, 941-944, 972-	42	4
Beaverlodge	443	331	974, 976, 1003, 1004,		
Berwyn	308	206	1032-1036. I.D.		
Clairmont Fairview	487	102 432	1037, 1038. I.D.	379	27
Grimshaw	287	169	146. I.D. 1006, 1016. I.D.	382	27
Hythe	288	247	948-951, 979-982, 1007-	-	
Rycroft Sexsmith	272 302	325	1011, 1017-1020, 1039-	1	
Spirit River	362	276	1042, 1067-1071, 1096- 1098, I.D.		
Wembley	237	188	147. I.D.	1,339	1.37
Division No. 17	10,131	9,712	1065. I.D.	323	38
Rural	10,131	9,712	1094. I.D. 1124. I.D.	612	55 32
102. I.D. (pt.)	****	3	1125. I.D.	90	11
694. I.D. (pt.)	010	3	1066, 1123. I.D.	·	
121. I.D. (pt.) 693. I.D.	219 16	224	148. I.D. 1122. I.D.	12 12	1
694. I.D. (pt.)	48	26	1129-1134, 1147-1152,	10	
723. I.D.	109	139	1179-1184, 1209-1214,	1	
725, 756, 786. I.D. 752, 753. I.D.	17 29	47 12	1238-1243. I.D. 149. I.D.	59	ï
691, 692, 721, 722, 724,	20		149. I.D. 1138-1140. I.D.	52 52	6
751, 754, 755, 785.			1099-1101, 1135-1137,		
128. I.D.	381	356	1153-1158, 1185-1190,		
757, 758, 759, 787, 790.	100	330	1215-1220, 1244-1249, I.D.		
ID.	6	1	Wood Buffalo National	-	
817, 818, 847, I.D.	40	355	Park (pt.)	24	4
819. I.D.	335	300	Indian Reserves	2,361	2,50

TABLE 1.—GENERAL SUMMARY OF BIRTHS, DEATHS AND MARRIAGES IN ALBERTA BY DIVISIONS, INCLUDING CITIES, TOWNS AND VILLAGES OF 1,000 POPULATION AND OVER, BY PLACE OF RESIDENCE, 1950

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VITAL STATISTICS BRANCH

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	TABLE 2.—GENERAL SUMMARY OF BIRTHS, DEA AND VILLAGES OF 1.000		PROVINCE AND DIVISIONS		TOTAL FOR THE PROVINCE	Division No. 1 Division No. 2 Division No. 2 Division No. 5 Division No. 5 Division No. 6 Division No. 11 Division No. 11 Division No. 12 Division No. 13 Division No. 14 Division No. 15 Division No. 14 Division No. 14 Division No. 15 Division No. 15 Division No. 14 Division No. 15 Division No. 15 Divi

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							MONTHS	S					
	Total	January	February	March	April	May	əunr	tint	tsuguA	September	Octoper	November	Decemper
ALBERTA Rural Urban	25625 14517 14517 11108	2034 1134 900	1873 1120 753	2197 1257 940	3213 1243 970	2354 1332 1022	2296 1313 983	2337 1321 1016	2189 1260 929	2038 1148 890	2088 1166 922	1973 1102 871	2033 1121 912
DIVISION No. 1 Rural Urban City of Medicine Hat Town of Taber		85049 870349	70 35 26 26 28 28 28 28 28 28 28 28 28 28 28 28 28	44 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	28 28 28 28 28 28 28 28 28 28 28 28 28 2	76 37 33 39 16	87 30 38 30 87 87 87 87 87 87 87 87 87 87 87 87 87	100 582 34 24 24	89 40 39 39	34 34 9 27 9 27	91 38 38 17	2333 70 8 2333 70	70 25 25 25 25 25 25 25 25 25 25 25 25 25
DIVISION No. 2 Rural Urban City of Lethbridge Town of Blairmore Cardston Magraholm Magraholm Magraholm Pincher Creek Raymond	2062 971 647 73 73 73 73 73 73 73 73 73 73 73 73 73	8666 8666 8666 8666 8666 8666 8666 866	100000 849 840 850 850 850 850 850 850 850 850 850 85	198 198 57 57 57 57 57 57 57 57 57 57 57 57 57	164 968 968 968 14 14 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	191 171 161 162 163 164 164 164 164 164 164 164 164 164 164	100 100 100 100 100 100 100 100 100 100	1000 1000 1000 1000 1000 1000 1000 100	202 901 689 338 689 338 689 338 689 338 689 338 56 689 338 56 689 338 56 56 56 56 56 56 56 56 56 56 56 56 56	1004 1004 1004 1004 1004 1004 1004 1004	100000 0000 0000 000 000 000 00 00 00 00	168 455 4 17 85 4 17 85 1 4 10 10 10 4 10	808 40 F 0 F 4 F 6 0
DIVISION No. 3 Rural Urban Town of Brooks Redcliff	474 376 59 39 39	48000 48000	8880004	4800.4 1980	40 60 60 60 60 60 60 60 60 60 60 60 60 60	33 31 28 33 11 8 8 30	1975 I	440 nn	125.38	36 36	288940 799	198000	688 4 6 H
DIVISION No. 4 Rural Urban Town of High River Village of Black Dlamond Turner Valley	837 729 108 45 26 37 37	202	48 11 33 33 11 12 8 11 12 8 11 12 8 12 12 12 12 12 12 12 12 12 12 12 12 12	12212 624	88 10 4 0 4 10 8 10 8 10 8 10 8 10 8 10 8 10 8 10 8	19 0 0 4	11 12 12 12 12 12 12 12 12 12 12 12 12 1	100 100 144	129 0 4 1 4	0.000000	0.000-16.68	1285 1997 1997 1997 1997 1997 1997 1997 199	680×00

VITAL STATISTICS BRANCH

ION No. 5 ral Dan Town of Hanna	DIVISION No. 6 Rural Urban City of Calgary Drumheller Town of Olds	DIVISION No. 7 Rural Urban Town of Wainwright	DIVISION No. 8 Rural Urban City of Red Deer Town of Camrose Innistail Lacombe Ponoka Stettler	DIVISION No. 9 Rural Urban Town of Rocky Mountain House	DIVISION No. 10 Rural Urban Town of Vegreville Vermilion	DIVISION No. 11 Rural Urban City of Edmonton Town of Beverly	DIVISION No. 12 Rural Urban
376 312 64	4770 1500 3270 89 46	791 744 47	1998 1294 704 232 95 95 74 77	715 711 64 64	1206 1101 52 53	6430 1643 4787 4745 42	483 408 75
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288 21 28	406 133 273 270 2 1	99700	111 24 24 24 24 24 24 24 24 24 24 24 24 24	72 62 10	102 94 6 2 8 4 2 8 4	546 143 398 398 5	880
2200	393 106 287 274 3	35.5	192 74 10 10 10 10 10 10	71 55 55	99 1874 4	541 128 413 412 1	1944
28	434 135 299 287 8 8 8 4	85.0.0	171 122 49 111 55 6 6 8 8 8 8	85 9 9 9 9	109 6 1 103 4	614 155 459 457 2	55 49 6
26 J	456 131 325 309 7 7	88 48 44 44 44	1283 128 128 128 128 128 128 128 128 128 128	2000	105 95 6 6 4	513 138 375 374 1	824
328	466 159 307 290 10 7	6.2	187 113 74 27 27 11 6 6 5 11	11 66 66	127 118 9 6 3 3	576 145 431 428 3	48 14 7
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MONTHS, CLASSIFIED AS RURAL	ALRERTA. BY PLACE OF RESIDENCE OF MOTHERS.
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	November	19 10 10 10 10 10	16	67	80 10 10	22
	October	69 63 69	100	69	87 74 13 13	22
	September	61 4 4	108 108	56	89 78 11	22
	şsn3n¥	75 75 4 4	113	99	80 88 88 88 88 88	82.82
SHU	Luly	88 81 80 80 80 80 80 80 80 80 80 80 80 80 80	114	69	10 10 10	22.22
MONTHS	anut	88 87 99	120	74	99 15 15	21
	May	91 855 6	121	76	225 4 5 2 4 8 0 00	88
	lingA	82 % % %	136	88	96 85 11	88
1	Магећ	88	122	26.23	30 10 10 10 10 10 10 10 10 10 10 10 10 10	23
	February	8 19 mm	117	67	325 133 133 133	26
	January	28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	HH	68 68	112	19
	Total	948 855 85 85 85 85 85 85 85 85 85 85 85 8	1359	838 838	1003 883 120 120	318 318
	Douto of Spinston Tablets This of Spinston This of Spinston This of Spinston	DIVISION No. 13 Rural Urban Town of St. Paul	DIVISION No. 14 Rural	DIVISION No. 15 Rural	DIVISION No. 16 Rural Urban Town of Grande Prairie	DIVISION No. 17 Rural

VITAL STATISTICS BRANCH

TABLE 4.—LEGITIMATE AND ILLEGITIMATE BIRTHS (EXCLUSIVE OF STILL-BIRTHS), IN CITIES OF 5.000 POPULATION AND OVER IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHERS, 1950

	Tot	al Bi	rths	Le	gitim	ate	Ille	gitim	ate
Province, Cities and Towns	Total	Male	Female	Total	Male	Female	Total	Male	Female
FOR THE PROVINCE		13138	12487	24440	12530	11910	1185	608	577
Cities:				5		100			
Calgary	3135	1603	1532	2938	1485	1453	197	118	79
Edmonton	4745	2411	2334	4501	2289	2212	244	122	122
Lethbridge	647	330	317	629	321	308	18	9	9
Medicine Hat	385	186	199	369	174	195	16	12	4

TABLE 5.—MULTIPLE BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDREN BORN ALIVE AND STILLBORN, BY SEX IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHERS, 1950

Classification of Births	Number
TWIN BIRTHS Two males (both living) One male and one female (both living) Two females (both living) Two females (both living) One male living and one male stillborn One male living and one female stillborn One male still born and one female living One female living and one female stillborn Two males (both still born) Two females (both stillborn)	$309 \\ 91 \\ 106 \\ 94 \\ 2 \\ 2 \\ 2 \\ 4 \\ 4 \\ 4 \\ 4$
TRIPLET BIRTHS Three males (all living) Two males and one female (all living)	$3 \\ 2 \\ 1$
Fotal multiple births Male Female	312 312 315
Fotal single live births Male Female	25024 12838 12186
Fotal single still births	346 176 170
	25682

TABLE 6.—BIRTHS (EXCLUSIVE OF STILL BIRTHS) CLASSIFIED ACCORDING TO BIRTHPLACES OF PARENTS, IN ALBERTA, BY PLACE OF RESIDENCE

	VI	TAL STATISTICS BRANCH
11	Unspecified	9 0
	Other Countrie	
[initano]	Other American	
	United States	478 266 696 698 10 10 10 55 69 55 69 55 55 55 55 55 55 55 55 55 55 55 55 55
et	Other	
Asia	ueder	00 III 00 00 00 00 00 00 00 00 00 00 00
	China	
	Other	
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	eissna	11144
	Roumania	26
	Poland	413 33115 222 3 3 1 1 2 2 1 1 2 2 1 1 2 2 2 2 2 2 2 2
	Norway	8
	Netherlands	53 20 10 11 11 11 11 11 11 11 11 11 11 11 11
Lope	Italy	11 1 1 1 1 1 1 1 1 1 1 1 1
Europe	Hungary	36 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Germany	38 38 1 1 2 2 6 6 6 3 3 3 3 3 3 3 3 1 1 1 1 1 1 1 1 1
	France	4 1 1 1 1 1 1 1 1 1 1 1 1 4
	Finland	N
	Denmark	20 23 25 11 25 25
		39 33 30 30
	Czechoslovakia	n
	Belgium	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	Wales	
OF British	Scotland	75 247 75 247 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
Br	Ireland	
	England	89 674044 511 6 6 F
	Prov. Un-	
	British	409 409 112 255 505 91 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10
		2515 4 4 55 13 79 79 57 246 57 371 1250 246 4 4 4 4 57 378 378 378 378 378 378 378 378 378 37
	Alberta	
a	Saskatch-	2407 2407 2407 2407 2407 1255 1259 1259 1259 1250 1500 1500 1500 1500 1500 1500 1505
Canada	Manitoba	662 2 1 1 1 1 1 1 1 1 1 1 1 1 1
Car	Ontario	524 6 6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Solution	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Brunswick	8 0000040000 0000 0 0 0 0
	Nova Scotla	126 111 111 111 111 111 111 111 111 112 125 55 55 55 55 55 55 55 55 55 55 55 55 5
	P.E. Island	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	Total Fathers	19195 7 30 30 345 878 878 878 878 878 471 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 2451 342 5 5 7 7 2451 342 5 872 875 875 875 875 875 875 875 875 877 877
		CANADA Newfoundland Prince Edward Island Nova Scotta New Brunswick Queber Ontario Manitoba Saskatchewan I British Columbia Saskatchewan Province un- province un- province un- province un- province un- province un- province un- province un- specified Contario Marita British Isles England Scotland Sco
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Finland France Germany Hungary Netherlands Norway Poland Roumania Russla (U.S.S.R.) Sweden Yugoslavia	Asia China Japan Other	United States Other American Countries Other Countries	Children born to married mothers Children born to unmarried mothers Children born to all mothers

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Not stated	
48 4	
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46	North Contraction (Contraction
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42	1100 1100 1100 1100 1100 1100 1100 110
41	101-10-10-10-10-10-10-10-10-10-10-10-10-
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Total, Fathers	HARAAAAAAAA
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TABLE 7.-BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO AGES OF PARENTS IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHER, 1950

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40400-0000	312 166 146 6 4 4 2 2 318 170 148
0040-000 - 4	440 232 208 232 9 9 754 237 217 217
000 001 11111 101	514 267 267 5 5 267 5 272 272 272
01-100 0101-100 00	592 305 5 5 287 287 5 5 308 308 292 292 292
400 1 1 1 111	698 379 319 11 11 11 11 320 320
	778 6 3391 3 387 3 387 3 387 3 387 3 387 3 387 3 387 3 387 3 387 3 387 3 387 3 387 3 387 3 387 3 5 5 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	77973 338633 338633 338633 15 15 15 10 10 33863 33963
7 7 7 7 7	928 591 3 427 3 427 3 19 12 12 7 7 947 7 513 3 513 3 434 3
* _ H H H H	996 9 497 5 499 4 6 6 6 6 010 9 505 5 505 5
	60 60 11 12 12 12 12 12 12 12 12 12 12 12 12
	1401 719 682 682 682 15 15 16 1432 1432 734 698
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	1569 777 777 772 772 143 24 19 191 791
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	850 850 30 30 835 888 888 888
	1644 884 884 884 33 31 31 31 31 791 791
1111111111111	1586 804 71 37 37 34 34 841 841 841
	1438 749 689 88 88 42 42 1526 731 731
	1314 678 636 636 636 62 62 62 62 62 741 698
-	178 577 601 52 60 112 60 1290 629 661
	226 477 792 1 125 243 389 101 234 403 71 117 134 142 55 67 29 59 67 29 59 4926 8157 301 456 8157 20 293 470
	477 7 477 7 2343 2 2343 2 59 59 59 594 3 301 2 293 2 293
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		Chinese		111111111111111
		Ofher European	1440	8 88 R
		Yugoslavic		6 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		Ukrainian	295 131 76 81 7	1978 8 8 94 116 116 12 22 126 174 24 126 174 26 174 26 174 26 174 26 174 26 176 176 176 176 176 176 176 176 176 17
		dsibawa	271 76 82 82 5	277 1 22 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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		Roumanian	36 12 12 12 12 12	411 18 8 1 1 88 5 4 4 1 1 8 8 1 1 8 8 5 5 4
	ter	Polish	155 74 34 52 5	$\begin{smallmatrix} 607 \\ 607 \\ 88 \\ 88 \\ 88 \\ 823 \\ 823 \\ 823 \\ 823 \\ 811 \\ 11 \\ 11 \\ 11 \\ 11 \\ 11 \\ 11 \\ $
1950	Mother	Norwegian	417 163 124 114 16	$\begin{smallmatrix} 422\\ 2355\\ 135$
20100	of	Netherland	307 146 69 79 13	574 55 55 55 55 55 66 62 62 62 63 87 7 7 7 7 7 7 7 87 6 62 62 62 62 62 62 62 62 62 62 62 62 6
MOTHER.	Origin	Lithuanian	9000H	6 0 0 0 0 0 0
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0000010	R	nsinsanH	37 14 14 15	4 101010 80 100 100 100 100 100 100 100 1
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RESIDENCE		German	818 353 225 225 225 225 225 225	1902 112 122 1314 1314 15 112 15 1314 15 15 87 58 87 587 587 587 587 587 587 587 5
		French	541 207 169 150 150	1194 19 19 11 11 11 11 11 11 11 11 11 11 11
OF		Finnish	27 14 9	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ACE		Danish	150 73 32 40 5	132 132 52 52 13 13 13 11 11 11 11 15 55 52 52 52 52 52 52 52 52 53 55 52 55 52 52 52 52 52 52 52 52 52 52
BY PLA		Czech and Slovak	50 13 13	146 153 153 153 153 153 153 153 153 153 153
BY		Bulgarian		
		Belgian	24 6	339
;		nsitizuA	53 24 19 28 28	70 16 16 16 16 16 16 16 16 16 16 16 16 16
		Other British	190 78 58 58 9	91 16 16 16 10 10 17 17 12 22 22 10 10 12 22 22 22 22 22 22 22 22 22 22 22 22
		Scottish	2183 866 467 788 62	860 14 14 15 11 10 10 10 15 15 15 15 15 15 15 15 12 12 12 12 12 12 12 12 12 12 12 12 12
		Irish	670 2 577 577 429 429	867 13 13 13 13 13 13 13 14 19 19 19 19 19 19 19 19 19 19 19 19 19
		Fnglish	4157 1670 2 2412 622 705 577 948 429 92 42	1666 167 111 111 111 112 112 112 112 112 112 11
		Total Fathers	11709 5481 2748 3176 304	111570 1 124 94 94 94 94 176 366 366 366 366 366 366 1554 1559 1559 1559 1559 1559 1559 1559
ò			Harris	
		Eacial Origin of Father	British English Irish Scottish Other	European Austrian Belgian Bulgarian Czech and Slovak Pranish French German Greek Hungarian Lithuanian Norwegian Polish Russian (Races of U.S.S.R.)
	1	ěi (8	

TABLE 8.-BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO RACIAL ORIGIN OF PATIENTS, IN ALBERTA

$ \begin{bmatrix} 120\\ 18\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	44
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$ \begin{bmatrix} 18 & 17 & 85 & 16 \\ 2 & 1 & 12 & 1439 \\ 2 & 1 & 1 & 23 \\ 2 & 1 & 1 & 23 \\ 2 & 1 & 1 & 23 \\ 2 & 1 & 1 & 2 \\ 2 & 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 &$	94 46 48
$ \begin{bmatrix} 18 & 17 & 85 & 16 \\ 2 & 1 & 12 & 1439 \\ 2 & 1 & 1 & 2 \\ 2 & 1 & 1 & 2 \\ 2 & 1 & 1 & 2 \\ 2 & 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 &$	1188 567 621
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18 17 2 2 2 2 3 2 1 1	572 2 288 1 284 1
181 181 111 1111 547 543 543 543 543 543 544	466 246 226 220
120 11 11 11 11 3374 339 3374 339 3374 339 3374 331 17	60 120 4
	794 388 388 406
41 22 22 22 22 22 375 22 22 22 22 22 22 22 22 22 22 22 22 22	861 476 385
22 22 23 23 24 4405 24 4405 24 104	909 459 450
11133 11338 1138 11358 11358 11358 11358 11358 11358 11358 11358 1	30
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11 8 11 8 11 8 11 8 11 8 11 8 11 1 11 8 12 8 11 1 11 8 12 8 13 8 13 8 13 8 13 8 13 8 13 8 13 8 13 8 13 8 13 8 14 8 13 8 14 14 14 14 14 14 14 14 14 14 14 14 14 1	200 293 107 150 93 143
824	76 34 42
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9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	293 1 148 145
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5994 2644 3184 3122 1365 1591 2872 1279 1593
2099 44 46 46 57 172 57 13 861 97 23 11 7 7 11910 11910 11910	25625 13138 12487
Swedish Ukrainian Vigoslavic Other Asiatic Chinese Hindu (East Indian) Japanese Chinese Hindu (East Indian) Japanese Syrian Other Nego Other Nego Unspecified Children born to married mothers: Total Female Female Female	2111

. 27

CURRENCE AND PLACE OF RESIDENCE OF MOTHER,	
BY PLACE OF OCCURRENCE	1950
BY P	TA, 1
IRTHS IN INSTITUTIONS	IN ALBER'
OTAL LIVE BIRTHS AND LIVE BIR'	

Place of rence Mother's residence elsewhere Births to resident mothers occurring Place of cocur- elsewhere Place of elsewhere Place of cocur- elsewhere Place of cocur- elsewhere Place of cocur- tence Place of cocur- tence Place of				All Live	e Births					Births in 1	Births in Institutions		
TenceIn CanadaIn UnitedIn CanadaIn CanadaIn CanadaIn Canada255431801026392562524475	Province	Place of occur-		residence here	Births to : mothers of elsewl	resident ccurring here	Place of	Place of occur-	Mother's 1 elsew	residence here	Births to resident mothers occurring elsewhere	resident ccurring here	Place of
25543 180 10 263 9 25625 24475		rence		In United States	In Canada	In United States	residence	rence	In Canada	In United States	Canada	In United States	residence
	Total for the Province	25543	180	10	263	6	25625	24475	175	00	258	6	24559

TABLE 10-TOTAL LIVE BIRTHS AND LIVE BIRTHS IN INSTITUTIONS IN CITIES OF 5,000 POPULATION AND OVER, BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE OF MOTHER, IN ALBERTA, 1950

			All Live	All Live Births	A DAME	NA REAL			Births in Institutions	nstitutions		
Cities	Place of	Mother's residence elsewhere	residence	Births to resident mothers occurring elsewhere	resident ccurring here	Place of	Place of occur-	Mother's residence elsewhere	residence here	Births to resident mothers occurring elsewhere	resident ccurring here	Place of
	rence	In Canada	In United States	In Canada	In United States	residence	rence	In Canada	In United States	In Canada	In United States	residence
Calgary Edmonton Lethbridge Medicine Hat	4060 6854 1200 666	967 2154 575 288	Ø 0	84 84 9 9	81	3135 4745 647 385	4055 6850 1197 664	967 2153 573 286	0 N	648 888 88	01H	3130 4741 646 385

28

Tota	CAUSES OF DEATH	Total	831	1 1 1	Diarrhoea of newborn (under 4 weeks) 11 Antenatal toxaemia 12 Erythroblastosis Nutritional maladjustment 66 Ill-defined diseases peculiar to early infancy 24 Ill-maturity 174 Ill-defined and unknown causes 174 Other specified and unknown causes 196
Total under 1 year		Male	470 361		5 9 11 13 104 7 1164 7 118 7
	January	N.	1 52	4 4 4 1 4 1 4 4 1 4 1 4 1 4 1 4 1 4 1 4	6 1 5 1 70 11 78 19
		F. M.	25 27		4 12 12 12 12 12 12 12 12 12 12 12 12 12
	Eeptnary	. F. M.	35	H	
	March	i ii	31 26		0 0 0
1	II1qA	M. F	43	<u></u>	1 - 0 00 - 1-
		F. M.	27 36	010 010 010 010 010 010 010 010 010 010	
HINOM	May	1 Bi	37		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1.12	əunr	M. F.	49 35	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OF DE	1 njà	M. F	42 31		
DEATH	tsuguA	M.	1 36	H	6252 1
		E.	31	<u>0 0 -0.4 - 0 </u>	9 11 19
	September	M. F.	37 34		L 1 1 0 6
	October	W.	35	2	0101 10
	November	F. M.	30 41	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	12011121011	F. M.	21 41	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0

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TABLE 12.—DEATHS OF CHILDREN UNDER ONE YEAR (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES, BY SEX AND CALENDAR MONTH OF DEATH IN ALBERTA. BY PLACE OF RESIDENCE, 1950

TABLE 13-INFANTILE DEATH AND STILLBIRTH RATES, ALSO NUMBER OF LIVE BIRTHS WITH OR WITHOUT A PHYSICIAN, BY DIVISIONS AND CITIES IN ALBERTA, BY PLACE OF RESIDENCE, 1950

	Death rate one year 1,000	of children of age to live births	a under each	Births with physician i	irths with or without physician in attendance	hout a dance	Rates of children live	Rates of stillborn children to 1,000 live births
Divisions and Cities	Rate per 1000 live births	Number of deaths	Total Live births	With physician	Without physician	Not stated	Number of stillbirths	Rate per 1000 live births
1.6 202	28	16	572	539	33	1	6	15.7
No. 3	88	43	1415	1304 470	106	10	88	12.7
Division No. 4Nanton	8	24	837	818	19	1	20	23.9
No. 6	56	14	1546	1482	~ Z		57.8	17.5
Division No. 8-Red Deer (Citles of Red Deer and Wetaskiwin excepted) Division No. 9-Rocky Mountain Proves	888	30 48 10	1671	1634	37] [°	28 °	16.8
No. 10-	388	1212	1206	1194	3118	10	1991	14.9
Division No. 12—Edson Division No. 13—Beaver River	84	19	483	458	24	10	00 3	16.6
No. 14	285	22	1359	1285	13	1	283	16.9
Division No. 15—Clearwater Division No. 16—Peace River	60 34	34	838 1003	735	88	10	11	13.1
Division No. 17-Athabasca	82	26	318	181	132	10	64 8	6.3
of	23	16	3135	3133	0 01		47	15.0
of Lethbridge	28 26	18	647	1985			12	18.5
10	41	in i	232	232	. 1	1 1	000	12.9
City of Wetaskiwin	30 42	04	28	28	1	1	10	21.1
	34	555	16297	15451	814	32	242	14.8
Whole Province	33	831	25625	24772	821	62	879	14.5

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TABLE 14.—DEATHS OF CHILDREN UNDER ONE YEAR (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES, BY SEX AND AGE AT DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1950

•		۷.	IIA	L DIA	11510	~ 11		CII			
1	som 21 rebun	H.	~	111	1111		01		1111		
	pus suffrom II	M						(R)			01
	10 months and	M.F	9		1111		-				3
	9 months and	M.F.	10 6	111			6 2				1 3
	som 6 rabnu	A	6 1	111				HHH			01
	pue suiton 8	M	4		1111	-	1 1	1 5	-		3 1
	7 months and under 8 mos.	M.F.	9 13	0			01	1 1 10	0		0
	.som 7 rebau	þ.	00	5		-	- 4-		-	-	1
	pue suffrom 8	M	7 13		1111				0		
	5 months and under 6 mos.	M.F	19		1111		10	100	-		10
DEATH	4 months and	M.F.	26 21			-	00	1 2			8 9
DE/	nuder 4 mos.	1 14	17 2	111			in)	244	0		- 10
AT	3 months and	M	28	TH	1111		0 12	90010	4 4	-	1010
	2 months and under 3 mos.	M.F.	21 31			5 1	8 10	-01	-	-	
AGE	nuder 2 mos.	1 Bi	32	111			9	3 I2 33	0	01 0	
	bus dinom I	W	9 27	111	1111	-	9	40 0	0 00		1 14
	3 weeks and	M.F	17	111				1 5	- 90-		10 10
	nuder 3 weeks	E I	H	111	TIT	-	TI	0	0 00		1 01
	2 weeks and	M.	6	111	1111		11	4 0	33 1	1111	-
	under 2 weeks	1 BL	18	111	1111		11	0	00-00		*
	I week and	W.	18	111	1111		11	10 00	000000		4
	under I week	E.	80	111			1	- ²⁰	1-400H0		
	1 day and	M.	106	111		-		10	400	1	8-8
		E.	93	111	1111	1111		6 4	1175	01 10 g	20
	Under 1 day	W.	157	111	1111	[]]]	11	4-4	C1 :	04 01	8.000
ler	ale all	Fema	361	4	1111			14624	34		_
al under		Male	470	с г	1 17 1	Sec.33		33.52	16 26		
Tota		Total	831	L I	1 .T .	0410	00 G 10	339 112 38 38	61 26 11	22 ° 21	196
	CAUSES OF DEATH	dis m pultation dis or summarian	SISU	Tuberculosis Syphilis Scarlet fever	Erysipelas Diphtheria Whooping cough Meningococcal infections	Meaning the thymus gland Meningitis (non-meningococcal) Others media	ver) .	Entertitie (4 weeks and over) Congenital malformations of circulatory system Congenital hydrocephalus		Antenatal toxaemua Erythroblastosia Nutritional maladjustment Ill-defined diseases peculiar to early infancy	Immaturity Ill-defined and unknown causes Other specified causes
			ALL CAUSES	-019	052 055 056 057	273 340 391, 392	490-483 490-493	571, 572 571, 572 750-759 754 752 750,751,	753,755- 759,761 763 764	770 772 773	774-776

32

TABLE 15.-TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS OF CHILDREN UNDER ONE YEAR, IN CITIES OF 5.000 POPULATION AND OVER, BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE, IN ALBERTA, 1950

		A	ll Deaths ur	All Deaths under one year	Li I				Deaths in	Deaths in Institutions		
Cities	Place of	Residence elsewhere	ence	Deaths of residents occurring elsewhere	esidents lsewhere	Place of	Place of	Residence elsewhere	nere	Deaths of residents occurring elsewhere	Deaths of residents occurring elsewhere	Place of
	occur-	In Canada	In United States	In Canada	In United States	residence	rence	In Canada	In United States	In Canada	In United States	residence
Cities: Calgary Edmonton Lethbridge Medicine Hat	110 196 28 19	22 11 9	m	0 -		91 137 18 10	101 178 27 17	22 11 9	ÊIII		1111	80 121 17 8

Place of residence TABLE 16.—TOTAL DEATHS (EXCLUSIVE OF STILL BIFTHS) AND DEATHS IN INSTITUTIONS OF CHILDREN UNDER ONE YEAR, BY PLACE OF TABLE 16.—TOTAL DEATHS (EXCLUSIVE OF STILL BIFTHS) AND PLACE OF RESIDENCE, IN ALBERTA, 1950 Deaths of residents occurring elsewhere Deaths in Institutions Residence Place of occur-rence Place of residence Deaths of residents occurring elsewhere All Deaths under one year Residence Place of occur-rence

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33

589

-7

10

590

831

10

9

832

Total for the Province

In United States

In Canada

In United States

Lanada

In United States

In Canada

In United States

Canada

34

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VITAL STATISTICS BRANCH

		VI	TAL	SIL	1113	5110	Co	DR	Al	NCI	1							
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	sud over 100 years	1	11	11		11	11	11	11		11	11	11	11	1 1	1 1		111
	92-99 Years	33 15 18	11	1.1		11	11		11	11		11	11	11		11	[]	111
	90-94 years	107 45 62	11	1	+	11	11	-	11		11		11	11	1.1	11	11	111
	82-89 years	360 184 176	1	11	1			11	11		11	11	11	11	1 1	11	11	111
	80-84 Years	557 309 248	-		1		11	11	11	11	11	11	11	11	1 1	: :	11	111
	75-79 years	800 483 317	10 11	11	1	11			1.1			0	11	11	11	11	11	111
	70-74 years	809 519 290	901	1		-	11	11	1 1	01	11		-	11	11	11	11	111
	65-69 years	853 567 286	44	11	-	11	1.1	11	1.1	1	-		11	11	1.1	11	1.I	111
	60-64 years	623 422 201	0.01			11		1 1			. 1		-					
2	22-23 Xests	392 259 133	4	1	1	1.1	11	11	11				11	11	11	11	1.1	111
	20-24 Xests	295 183 112	10.4	11	1	11	11	1 :			11	-	- 1	11	11	11	1 :	111
AGES	42-49 Years	249 156 93	0110	11	1	-	11	-		11	11		11	11	11	11	11	
AG	40-44 years	105	1-00	11	1	11	11	11		1.1	11		11	11	1 1	11	11	111
	32-39 Years	7 142 9 86 8 56	00	-			1 1	11	1.1	1 1	11	-	1 1	11			11	111
	30-34 Years	3891	0110	-		-	-			1 1	11		1 1	11	11		11	111
	52-59 Years	98 99 65 66 33 33 33	11	01		11	1 1	1	1 1	1 1	11	1	1.1	1 1	1 1		11	1.1.1
	20-24 years	828	44	-	1		4	1 1			11			-			11	
	12-19 years	24 23	61			11	-	N			11	11	11	1 1	1-1	-	11	111
	2-9 Aests	885	60 60	100		11	F	1 1	11	T	+ 1	1 :	11	11	11	11	11	111
	4 Years	18 10 8	01	1	T	11	11	11	11	11	11	11	11	11	11	11	11	111
	3 years	17 24	11			[]	11	11	-	11		11	11	11	11	11	11	111
	5 Years	19 16	60	-		11		-	11	11		11	11			11	11	111
	l Year	13 53 51	-			11			-		11		1.	T	-		11	111
	Under 1 year	831 470 361	0100			1.1	11	1			11		11				11	TT
-	Total	6856 4189 2667	71 64	00 00	1	- 10	6	0	11	.00	100	11	2	-		1	11	
		040	11	11	-	11	1	1	1			-	-			-	1	111
		Total Male Female	Male Female	Male		Female	Male	Female Male Female	Male	Female Male	Female	Female	Male	Male		Male	Female	Female Male Female
	CAUSES OF DEATH	ALL CAUSES	Tuberculosis of the respirat	z luberculosis ol meninges and central nervous system	3 Tuberculosis of intestines, peritoneum and mesen- teric glands	4 Tuberculosis of bones and joints	5 Tuberculosis, all other forms	6 Congenital syphilis	7 Early syphilis	8 Tabes dorsalis	9 General paralysis of insane	10 All other syphilis	11 Gonococcal infection	12 Typhoid fever	13 Paratyphoid fever and other Salmonella infections	14 Cholera	15 Brucellosis (undulant fever)	16 Dysentery, all forms
		TT		4	¥	¥	¥	V	A	A	A	A 10	A 11	A 12	A 13	A 14	A 15	A 16
		-																

TABLE 17.-CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950

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TABLE 17.-CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950-Continued

Ages

	VI	TAL SI	ATIS	FICS I	BRA	NCH					
beind Not Stated					111	11	111	-	ĩ	1111	11
sud over 100 years				1111	111	11	111	1	1	1111	11
62-33 Aests		-		TIT	111	11		1	1	1111	11
80-84 A6912	111		1111	1111	111	11	00	1	1	1111	11
82-89 Years	1.1.1			10101	111	01		-	01		0010
80-84 Years	111	61		9.4.	101	-	9	1	10		12-1
12-13 Aests		C1 -	10010	- 10 00 00 0		0100	-	-	12	1111	17
10-14 Aests	111		00 - 00 I	- 010010		10 00	61	-	13		
		01 4	N 191	1110	• ; ;	[~ 17	13 10	-	-1	01-100	18 28
65-69 years						0,01	-11	62	6	- 01-	
60-64 years	III.	1 11	- A		111	a					20
22-23 Aeste	111		13	4 10 00 01 0	101	12	00 45	60		1111	16
20-24 Aests	111		- 10	-00	-	13	9	*	60	1111	12
42-49 Years	111			20000000000	• • •		10	-	-		44.70
40-44 Years		1 1 1 1	4	N	• • •	-	00 00	-	1		6.0
32-33 A68L8	111	1 111		1111	111	101	10 44	-	1	1111	10 4
30-34 Aests	111			1111	• []	-	0100	1	1		4.00
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S0-24 AGBLS	111		1:11	1111	111		111	1	1		01
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TABLE 17.--CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950--Continued

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65-69 years	208 208 110 110 110 110 110 110 110 110 110 1
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TABLE 17.-CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950-Continued

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classification of e (external cause)	ile accidents	port accidents	poisoning	alls	used by machinery	used by fire and material	tused by hot sub	used by firearm	drowning and sul	ccidental causes	self-inflicted in	nd injury purpose (not in war)	Iting from operati	classification of e (nature of inju	skull	spine and trunk	limbs	without fracture	l strains of join
ve classification of nce (external cause)	hicle accidents	nsport accidents	l poisoning	l falls	caused by machinery	caused by fire and de material	caused by hot sul-	caused by firearm	1 drowning and sul	accidental causes	nd self-inflicted in	and injury purpose as (not in war)	sulting from operati	ve classification of nce (nature of inju	of skull	of spine and trunk	of limbs	in without fracture	nd strains of join
dive classification of dence (external cause)	vehicle accidents	transport accidents	ital poisoning	ttal falls	it caused by machinery	at caused by fire and tible material	it caused by hot sub uid, steam, and radiati	it caused by firearm	ital drowning and sul	er accidental causes .	and self-inflicted in	de and injury purpose sons (not in war)	resulting from operati	ative classification of olence (nature of inju	te of skull	re of spine and trunk	te of limbs	tion without fracture	s and strains of join
mative classification of violence (external cause)	r vehicle accidents	r transport accidents	lental poisoning	lental falls	tent caused by machinery	lent caused by fire and ustible material	lent caused by hot sub iquid, steam, and radiati	lent caused by firearm	lental drowning and sul	ther accidental causes	de and self-inflicted in	icide and injury purpose ersons (not in war)	y resulting from operati	mative classification of violence (nature of inju	ture of skull	ture of spine and trunk	ture of limbs	eation without fracture	ins and strains of join
ternative classification of d violence (external cause)	vtor vehicle accidents	her transport accidents	cidental poisoning	cidental falls	cident caused by machinery	cldent caused by fire and bustible material	cident caused by hot substance liquid, steam, and radiation	cident caused by firearm	cidental drowning and sul	l other accidental causes	icide and self-inflicted in	persons (not in war)	jury resulting from operati	ternative classification of d violence (nature of inju	acture of skull	acture of spine and trunk	acture of limbs	islocation without fracture	vrains and strains of join
Alternative classification of accidents, poisonings and violence (external cause)	Motor vehicle accidents	Other transport accidents	Accidental poisoning	Accidental falls	Accident caused by machinery		Accident caused by hot substance, corrosive liquid, steam, and radiation	Accident caused by firearm	Accidental drowning and submersion	All other accidental causes	Suicide and self-inflicted injury	Homicide and injury purposely inflicted by other persons (not in war)	Inju	Alternative classification of accidents, poisonings and violence (nature of injury)	Fracture of skull	Fracture of spine and trunk	Fracture of limbs	Dislocation without fracture	Sprains and strains of joints and adjacent muscles Male Fema
Alternative classification of and violence (external cause)														Alternative classification of and violence (nature of inju					
Alternative classification of and violence (external cause)	AE138 Motor vehicle accidents	AE139 Other transport accidents	AE140 Accidental poisoning	AE141 Accidental falls	AE142 Accident caused by machinery	AE143 Accident caused by fire and bustible material	AF144 Accident caused by hot sub liquid, steam, and radiati	AE145 Accident caused by firearm	AE146 Accidental drowning and sul	AE147 All other accidental causes	AE148 Suicide and self-inflicted in	AE149 Homicide and injury purpose persons (not in war)	AF150 Injury resulting from operati	Alternative classification of and violence (nature of inju	AN138 Fracture of skull	AN139 Fracture of spine and trunk	AN140 Fracture of limbs	AN141 Dislocation without fracture	AN142 Sprains and strains of join

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VITAL STATISTICS BRANCH

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		Head ir Interna Lacerat Superfi inta Effects Burns Effects All oth cau
		0 4 0 W W W W W
		AN143 Head injury (excluding fracture) Male AN144 Internal injury of chest, abdomen, and pelvis. Femal AN145 Laceration and open wounds Male AN146 Superficial injury, contusion and crushing with Femal AN147 Effects of foreign body entering through orifice. Femal AN147 Effects of foreign body entering through orifice. Femal AN147 Effects of foreign body entering through orifice. Femal AN147 Effects of foreign body entering through orifice. Femal AN148 Burns Femal AN149 Effects of polsons Femal AN150 All other and unspecified effects of external Male AN150 All other and unspecified effects of external Male

TABLE 17.--CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950-Continued

TABLE 18.—CAUSES OF DEATH (INTERMEDIATE LIST)	BY SEX AND MONTH	TH OF	F DE	THIN	N ALF	DEATH IN ALBERTA, BY PLACE OF RESIDENCE, 1990	BX PI	ACE	OF RE	autes	NCE,	nee	
							MON	SHLNOW					1
CAUSES OF DEATH		IstoT	January	February	March	IirqA YeM	əunr	July	‡suguA	September	October	November	Decemper
ALL CAUSES	Total Male Female	6856 4189 2667	665 407 258	513 279 234	550 341 209	364 364 205 21 21 21	610 646 367 387 243 259	569 359 329 329	549 346 203	528 330 198	316 212 212	353 327 226	576 366 210
A 1 Tuberculosis of respiratory system	Male	17	9	44	94	11	10.0	00		1- 12	47 07	00.00	00 00
A 2 Tuberculosis of meninges and central nervous system	Male	5 00 0	11	-	• 1	• 61			0.4	10	-		-
A 3 Tuberculosis of intestines, peritoneum and mesenteric glands		h c	1 1	• ;	1 17	11	1	-		•	-	1	
A 4 Tuberculosis of bones and joints	Male	1 1	11	1.1	•	1	11	11		11	•	1	11
A 5 Tuberculosis, all other forms	Female Male	6	I	1.1	-	-	EI		010	1	61	1 1*	1
A 6 Congenital syphilis	Female Male	9	-			11		11	, e	11		• [11
A 7 Early syphilis	Male	-	11	11	11		TT	14	1	11	11	11	
A 8 Tabes dorsalis	Male	3		11	11	i i	_			11	11	-	
A 9 General paralysis of insane	Male	.00,	¢1	11	11	11		1.1*			I I	-	11
A 10 All other syphilis	Male	11	11		63	1 1*					61	c1	-
A 11 Gonococcal infection	Male	a :	11	11	1 1					•	-	11	11
A 12 Typhold fever	Male	1		1 1	11	11	1	1		1	1	11	1.1
	Female Male			1 1	11	1.1			1 1	1 1	1 1	11	1 1
	Female		-				-	-	1			1	
	Female		1	11	Í I				1	1	1	1	1
A 15 Brucellosis (undulant fever)	Female			11	11	1 1	1 1						1 1
A 16 Dysentery, all forms	Male Famala	-			1		-			1	-		
	Amore y					I	-						

BY PLACE OF RESIDENCE, 1950 ALRERTA. ž

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	CAUSES OF DEATH		IstoT	January	February	March	April	May	aung		tsuguA	September	October	November
Scarlet fever		Male	10.	1.	1	1	1			T	F	1	1	64
tococca	Streptococcal sore throat	Male	 - 64 65	•	11			11	11		0			-
Erysipelas	A N	Male	-	1			11			1	1	11	11	
caemia	Septicaemia and pyaemia	Male	03.00			-	1	-	1	-	11	11	11	-
Diphtheria .	X	Male	2	11	1	1	1 1	-	1	1	T	1	1	1
Whooping cough		Female	 01	11	1		1 1	11	11	11	11	1	11	11
ngococc	rections	Female Male			11	11	11	11	11		11	11	• ;	11
Plague		Female Male	 11				1 1	11	11	11	1	11	11	11
-		Female	 					-			1		1	1
Leprosy	<u>H</u>	Female	 		1 1		11	11	11	11	11	11	T	1
Tetanus	A	Male	 				I		I		1	1		
Anthrax		Male	1.11	-	-	-	I	1	1	1		1		1
pollog	Acute pollomvelitis	Female Male	 10	11		1.1	11	1	1 1	1 1	-	0	11	-
infant o		Female	 0-	1	1 1		-		-	1 1	-		1	-
		Female	 01				61	- mag	-					
Late effects of encephalitis	acute poliomyelitis and acute infectious	Male	 						1	1		1		-
	CALIFORNI ON ALLERAN	Female	 64			-	1		1		-		1	11
xoquano		Female		P	1		1			1	I	1	1	1
Measles		Male	 44	-0	-	1	1	tan .	N					1 1
Yellow fever		Male	 	1	1 1	1		1 1	1 1		1			1
		Female	 						1			-		
Infections henatitis		Female	 				1							

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Male	Male	Female	Female	Male Female	Male	remale Male	Female	Male Female	Male	Female	Female	Female	Male	Female Male	Female	Female	Male .	Female Male	Female	Male	Female Male	Female	Female	Male	Male	Male	Male	Female Male Female
Rables	Typhus and other rickettsial diseases			Schistosomiasis	Hydatid disease	Tilariacie		Ankylostomiasis	Other diseases due to helminths	nfactive and narasitic		Mangnant neoplasm of buccal cavity and pharynx	Malignant neoplasm oesophagus	Malignant neonlasm of stomach		Malignant neoplasm of intestine, except rectum	Malignant neoplasm of rectum		Manghant trophesit or targing with	Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary	Malignant neoplasm of breast	Malignant neoplasm of cervix uteri	Malignant neoplasm of other and unspecified parts of uterus	Malignant neoplasm of prostate	Malignant neoplasm of skin	Malignant neoplasm of bone and connective tissue	Malignant neoplasm of all other and unspecified sites	Leukaemia and aleukaemia
A 35	A 36		10 V	A 38	A 39	A 40		A 41	A 42			A 44	A 45	A 46		A 47	A 48	0 V 0		A 50	A 51	A 52	A 53	A 54	A 55	A 56	A 57	A 58

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	CAUSES OF DEATH		IstoT	Tanuary	February	March	April	anur		August	September	October	November	December
23	Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system	Male	27	67		9	- 01	- 01	61					
A 60	Benign neoplasms and neoplasms of unspecified nature	Female	16	- 4 0		11	01 00 0		- 61 -				-	N
A 61	Nontoxic goitre	Male	8 .	4	• •	* :	W [+ [• :		N			11
A 62	Thyrotoxicosis with or without goitre	Male		11	- 63 -	11	11	-	11	11	11	1 1	11	1 10
A 63	Diabetes mellitus	remaie Male	989	4	- 03	- 9	100	101	1-1	010	01		- 03	100 10
64	Avitamiaosis and other deficiency states	Female	49	4	9	4	00 j	0	n	~	N	4	N	10 11
A 65	Anaemias Ma	Female Male		-			11	01	11	11	11	11	1 14	
A 66	Allergic disorders; all other endocrine, metabolic and blood ^{ke} diseases	remaie Male	36	4	C9 67	9	: 10	-	NI 00	- 61	N 61		NI 60	4 10
A 67		Female Male	23	01=	- 01		61	m :	4	9	11	-	10	11
A 68	Psychoneuroses and disorders of personality	Female	000	- 01	N .	11	-	I	11	11	11			11
A 69	Mental deficiency	Male	1001	101		11	11	T	11	TP		1	11	11
20	Vascular lesions affecting central nervous system	Female Male	371	38-	100	181	30	-150	31	321	21	24	1001	22
11	Nonmeningococcal meningitis	remale Male	020	8-10	1	5	1 64	5 1	N 1'	- 12	1	8	G T	- 0
72	Multiple sclerosis	Female	- 10	NO	11		-			11	11		-	11
73	Epilepsy	Female Male	94	-	1 1	1	1	N	-		:01	-	-	11
74	atory diseases of eye	Female Male	6	11	CN :	-	11	-	-	11	01	C1		11
A 75	Female	Female						1014						-

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Male	Female	Female	Female	Female	Female	Female	Female	Female Male	Female	Female	Female	Female	Female	Female	Female Male	Female	Female	Female	Female	Female	Female	Female Male	Female	Female Male	Female
Giaucoma			Rheumatic fever	Chronic rheumatic heart disease	Arteriosclerotic and degenerative heart disease	Other diseases of heart	Hypertension with heart disease	Hypertension without mention of heart	Diseases of arteries		Acute upper respiratory infections					Acute bronchitis	Bronchitis, chronic and unqualified	Hypertrophy of tonsils and adenoids	Empyema and abscess of lung	Pleurisy	All other respiratory diseases			Ulcer of	
A 76	77	A 78	29	A 80	81	82	83	84	A 85	86	87	88	88	96	91	92	93	94	95	96	57	A 98	66	A100	

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	CAUSES OF DEATH		Total	January	February	March	lingA	May	əunr	Aint	1su§n¥	September	October	November
A101	Gastritis and duodenitis	Male	 		i		1	-1	1	17	1		1	I
A102	Appendicitis	Male	 13	c1 +	1	1	00 F		11-	101-		61		
A103	Intestinal obstruction and hernia	Male	 10		1	101-	+ 04	101	1014	- 00 -	9	4-	1 100	C1 -
A104	Gastro-enteritis and colitis, except diarrhoea of the newborn		138	0 64			·**	010	H 00 H	441	1010	-90		1 00 00
A105	Cirrhosis of liver	Male	 112	1	4 10	a ie		1			- 00 -	a :		•
A106	Cholelithiasis and cholecystitis	Female	123		20-10	N 6		010			- 101 -	: : °		-
A107	Other diseases of digestive system	Female	 27	140	101	N 7	4	240	- 00 -	N		1-1-1	- 010	
A108		Female	 18	~	- ;	11	- ;	00 1	- :	11	70 j			- ;
A 109		Female	 43	01	4	10	4	6	9	4	01	01		10
0110		Female	41	0 -	3	0 H	9	4-	3	-	9	4	- ;	9
		Female	 91	1	1		T		63		-			T
THA	Calculi of urinary system	Female	 - 10	I	1 1	11	1 1	4	11	1 01	11	•	1-1	11
A112	Hyperplasia of prostate	Male	46	10	61	4		1	10	4	10	9	61	-
A113	Diseases of breast	Female	 1	1		1	17		1	1	1	1	1-	
A114	Other diseases of genito-urinary system	Female	 - 10	-	11		• :		-		-		101	1
A115	Sepsis of pregnancy, childbirth and the puerperium	Female	 53	1	1	i	1	ī	1			1	I	1
A116	i Toxaemias of pregnancy and the puerperlum	Female	 4	1	i	i	1	Ī	T	T	i	1	1	1
A117	Haemorrhage of pregnancy and childbirth	Female	 63	i	1	1	ł		ī		1	-	1	1
A118		Female	 	-		1	1	1	i	1	1		1	1
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er complications of puerperium of puerperium actions of skin and scular rheumatism an eomyelitis and acquired other diseases of skin and acquired and mening ugenital malformations of the newbor other congenital mal asphyxia and a tratal asphysia and a tratal asphy	e (ex vehic rans; ital p
Other complications of pregnancy, childbirth and t puerperium Infections of skin and subcutaneous tissue Arthritis and spondylitis Muscular rheumatism and rheumatism, unspecified Osteomyelitis and periostitis Ankylosis and acquired musculoskeletal deformities Ankylosis and acquired musculoskeletal system Spina bifida and meningocele Congenital malformations of circulatory system All other congenital malformations Fostnatal asphyxia and atelectasis Fostnatal asphyxia and atelectasis Infections of the newborn Haemolytic diseases of newborn All other diseases of early infancy, ar maturity unqualified Senility without mention of psychosis III-defined and unknown causes III-defined and unknown causes	Alternative classification of accidents, poisonin violence (external cause)
A120 0 A121 Ir A121 Ir A122 A A123 M A124 0 A125 A A127 S A127 S A129 A A123 B A131 P A132 Ir A133 H A133 H A133 H A133 A A134 S A135 II A135 II A136 S A136 S	A 45138 M 45139 O 45139 O AE140 A

AN142	AN142 Sprains and strains of joints and adjacent muscles	Male	me la la la la la la la la la la la la la	Im I		-	-	- Im	-		-	-	
		Female	tand the	and a									
AN143	AN143 Head injury (excluding fracture)	Male	64	00	10	01	4	-	8	12	10	9	9
AN144	AN144 Internal injury of chest, abdomen, and pelvis	Female	10	- 03	44	-1-	c1 (D	6	7 16	9	00	9	10
ANTAR	I manufact and anon manufact	Female	12	I	-		c1 -	0		C1 C	1		c1 -
OLIVIU	WINTER PERCENTION ON AND MANY STATES STATES	Female			****		•	1	10	2		-	
AN146	Sup	Mala					-	_			-	-	
	54114CC	Female	L	-			I					1	
AN147	AN147 Effects of foreign body entering through orifice	Male	10	c2 .	1			-	1	ľ			en e
AN148	AN148 Burns	Eemale	9 26	1	1	- 03	27	I	103	-	:00	- 00	000
AN149		Female	90	60	0	1	- 61	.01	- 62	¢1	- 01	C1 ==	1
AN150	ANI50 All other and unspecified effects of external causes	Female Male	110	1 6	4	4	15	20	5 14	11	- 00	014	10 21
		Female	8	63	61	1	3	3	4	4	62	1	1

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TABLE 19CAUSES OF DEATH (INTERMEDIATE		CAUSES OF DEATH	ALL CAUSES Fe	the respiratory system	s of intestines, peritoneum and mesen- lands	A 4 Tuberculosis of bones and joints	A 5 Tuberculosis, all other forms	6 Congenital syphilis	. 7 Early syphilis	Tabes dorsalls	General paralysis of insane	All other syphilis		Paratyphoid fever and other Salmonella infections	A 14 Cholera	A 15 Brucellosis (undulant fever)
MEDIATE	-		Total I Male Female	Male Female Male	Female	Female Male	Male	Male	Male	Male	Female	Female Male	Female	Female Male	Male	Female Male Female
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AND		4 Years	6161	11		11		11	-	11	11	1 1		11		
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		32-36 X6912	25 17 8	11		111		11	11	11	11					
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		22-23 A6912	17 250	10	1 1	111	11	11		11			11	11		
OF R		60-64 years	21 12 27 44 8		1 1			11	11	11			11	11		
RESIDENCE.		65-69 years	129 153 88 101 41 52							1 1						
ENC		70-74 years	3 130 11 83 22 47	~			1 1	11	1 1				11			
		75-79 years	143	101				11	11	11				11		
1950		80-84 Years	32.5%		1		11	11	11	11			11	11		
		82-89 Years	38 28	111	1 1	111	11	11	11	11			11	11	1	
	-	90-94 Years	19 8 11	11 1	1 1	111	11	11	11	TI	TT I		11	11	1	
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		Not stated					11	11		11			11	111		
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TABLE 19.-CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1950-Continued

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TABLE 19.-CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1950-Continued

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TABLE 19-CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN EDMONTON, BY PLACE OF RESIDENCE, 1950-Continued

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Alternative classification of and violence (external cause)	Motor vehicle accidents	Other transport accidents	Accidental poisoning	Accidental falls	Accident caused by machinery	cci	Accident caused liquid, steam,	Accident caused by firearm	Accidental drowning and submersion	All other accidental causes	Suicide and self-inflicted injury	uo	nfu	Alternative classification of acc and violence (nature of injury)	Fracture of skull	Fracture of spine and trunk	Fracture of limbs	Dislocation without fracture	pra	Head injury (excluding fracture)
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	AE138	AE139	AE140	AE141	AE142	AE143	AF144	AE145	AE146	AE147	AE148	AE149	AF150		AN138	AN139	AN140	141	AN142	143
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VITAL STATISTICS BRANCH

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TABLE 20.—CAUSES OF DEATH (INTERMEDIATE		CAUSES OF DEATH	ALL CAUSES Total Male Fema	A 1 Tuberculosis of the respiratory system	A 2 Tuberculosis of meninges and central nervous Male system	A 3 Tuberculosis of intestines, peritoneum and mesen-	and joints	A 5 Tuberculosis, all other forms Male	A 6 Congenital syphilis Male	A 7 Early syphilis	A 8 Tabes dorsalis	A 9 General paralysis of insane Male	A 10 All other syphilis Male	A 11 Gonococcal infection Male	A 12 Typhoid fever Male	A 13 Paratyphoid fever and other Salmonella infections Male	A 14 Cholera Male	A 15 Brucellosis (undulant fever) Male Fema
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VITAL STATISTICS BRANCH

TABLE 20.--CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1950-Continued

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Infectious hepatitis Rabies	Filariasis Ankylostomiasis	Other diseases due to helminths All other diseases classified a parasitic	Malignant neoplasm of buccal cavit Malignant neoplasm of oesophagus	Malignant neoplasm of stomach Malignant neoplasm of intestine,	Malignant neoplasm of rectum Malignant neoplasm of larynx	Malignant neoplasm of trachea, and of and lung not specified as secondary Malignant neoplasm of breast	Malignant neoplasm of cervix uteri Malignant neoplasm of other and parts of uterus	Malignant neoplasm of skin Malignant neoplasm of bone
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TABLE 20.-CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1950-Continued

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TABLE 20.—CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1950-Continued

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Al15 Sepsis of pregnancy, childbirth and the puer- perium	All6 Toxaemias of pregnancy and the puerperium Fer	A117 Haemorrhage of pregnancy and childbirth Fer	All8 Abortion without mention of sepsis or toxaemia. Fer	A119 Abortion with sepsis	A120 Other complications of pregnancy, childbirth and Fer the puerperium	A121 Infections of skin and subcutaneous tissue	A122 Arthritis and spondylitis	A123 Muscular rheumatism and rheumatism, unspecified Male	A124 Osteomyelitis and periostitis [Male	A125 Ankylosis and acquired musculoskeletal deformities Male	ses of skin and musculoskeletal	ia and meningocele	Congenital malformations of circulatory system	All other congenital malformations	Birth injuries	Postnatal asphyxia and atelectasis	A132 Infections of the newborn Male	A133 Haemolytic disease of new born	A134 All other defined diseases of early infancy	A135 III-defined diseases peculiar to early infancy, and immaturity unqualified Male	f psychosis	A137 III-defined and unknown causesMale Fema

TABLE 20.—CAUSES OF DEATH (INTERMEDIATE LIST) BY SEX AND AGE IN CALGARY, BY PLACE OF RESIDENCE, 1950—Continued

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-	92-99 Years	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	80-94 Aests		-	11	11	1	11	11	11	11	11	11	11	11	11	11
	82-89 Xests	0110	11	11	11	0110	11	11	11	11	11	11	11	11	11	0110
	80-84 Aests	4-	00 mi	-	11	11	11	11	11	11	11	11	11	11	11	41
	12-13 Aeste	61	01	11	11	11	11	11	11	11	11	1 1	11	11	11	61
	70-74 years	1.6	~	11	11		11	11	11	11	-	1 :	CN	11	11	1
	65-69 years	60.64	-	11	-	-	11	11	1	11	-		-		11	63.64
	816-94 A-9-09	9	-	11	11	m :	1 1	-	11	11	i i	-	[]	1 1	11	
	22-23 Acets	10	11	-	11	1 1	11	11	1	11	11	1 1	- ;	1 1	11	61
	20-24 Aests	4-	11	01	11	-	11	11	1	-	11	1 1	-		11	41
3	42-46 X69L2	1010		11	11	-	11	11	1	T	11	11	-	1	11	0101
AGES	40-44 Xears	~	11	11	-	CN	1 1	1	1	11	11	1 1	11	ii	11	<u> </u>
	32-33 Aests	10	-		11	TI	11		1				61	1	11	- 01
	30-34 Aeurs	- 19	-	-		11	11	11	1	111		11	-	1	11	-19
	52-53 AG91.8	69	-	11	1	11	11	-	-	111	11		-	1		- 69
	20-24 Aests	16	~	-		1 :			1	1 1 1		1	-	:		16
	12-19 Aests	m	-			1	1.1	1	1	1	1	-	1 1	1		<u> </u>
	10-14 Years	-	I	11		1	1	1	1	1 1			11	1	111	
	2-9 Years	- 19	I	11	1		1-1	1	ł	11	F	1	11	1		- 19
	4 Aests	11		1	1			1	1			11	1	1		
	3 Years	11						1	1	11				1		11
	5 years			11				ľ	1	11	111		1	16		
	I Year	-	1						1	1.1	11	-				-
	Under 1 year	40	1		11	1		1		11	11	00	1			40
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		ale	olo	ele	ale	ale	ele			ale	alle	olo	ele		ale	ale
		Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male Female	Male
-				1 10 10	100	4 100 10	-	_	4 20 4			1 10 14	1 100 100			
	CAUSES OF DEATH	Alternative classification of accidents, poisonings and violence (external cause)	Motor vehicle accidents	Other transport accidents	Accidental poisoning	fails	Accident caused by machinery	Accident caused by fire and explosion of com- bustible material	Accident caused by hot substance, corrosive liquid, steam, and radiation	Accident caused by firearm	Accidental drowning and submersion	All other accidental causes	Suicide and self-inflicted injury	Homicide and injury purposely inflicted by other persons (not in war)	Injury resulting from operations of war	Alternative classification of accidents, polsonings and violence (nature of injury)
	0	Alternative and violence	Motor vehic	Other trans	Accidental	Accidental falls	Accident ca	Accident ca bustible		Accident ca	Accidental	All other at	Suicide and	Homicide at persons	Injury resu	Alternative and violenc
			AE138	AE139	AE140	AE141	AE142	AE143	AF144	AE145	AE146	AE147	AE148	AE149	AF150	

				AN138 Fracture of skull Male 19 1 Female 3 AN139 Fracture of spine and trunk Male 2	Male	AN141 Dislocation without fracture	Female	Trand internet (available fraction)	Female		AN145 Laceration and open wounds Male 1	ing with	Female		Male 1 1	e	Female 1	10 1	Female b 1
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VITAL STATISTICS BRANCH

	CAUSES OF DEATH	Male	Female
F	racture of skull (N800-N804):	104	25
800-802	Railway accidents	2	1
810-835 860-866	Motor vehicle accidents	50	18
900-904	Accidental falls	1 16	3
910-936	Other accidents	31	2
970-979	Suicide and self-inflicted injury	4	
980-985	Homicide and injury purposely inflicted by other persons (not in war)		1
F	racture of spine and trunk (N805-N809)	30	11
810-835	Motor vehicle accidents	13	7
840-845	Other road vehicle accidents Aicraft accidents	3	
860-866 900-904	Accidental falls	1 2	2
910-936	Other accidents	6	1
960-965	Late effects of injury and poisoning		1
970-979	Suicide and self-inflicted injury Homicide and injury purposely inflicted by other	3	
980-985	persons (not in war)	2	
	Fracture of limbs (N810-N829)	27	42
800-802	Railway accidents	4	
810-835	Motor vehicle accidents	5	2
900-904	Accidental falls	14	39
910-936 960-965	Other accidents Late effects of injury and poisoning	4	1
ł	fead injury (excluding fracture) (N850-N856)	64	10
800-802	Railway accidents	1	
810-835 840-845	Motor vehicle accidents	15	
900-904	Accidental falls	1 3	3
910-936	Other accidents	15	3
960-965	Late effects of injury and poisoning	2	
970-979 980-985	Suicide and self-inflicted injury Homicide and injury purposely inflicted by other	25	1
	persons (not in war)	2	3
I	nternal injury of chest, abdomen and pelvis (N860-N869)		10
800-802	Railway accidents	79 9	12
810-835	Motor vehicle accidents	29	6
840-845	Other road vehicle accidents	1	1
860-866 900-904	Aircraft accidents Accidental falls	1	1
910-936	Other accidents	33	1
970-979	Suicide and self-inflicted injury	5	2
980-985	Homicide and injury purposely inflicted by other		
	persons (not in war)	1	2
	Laceration and open wounds (N870-N908)	11	5
800-802 810-825	Railway accidents Motor vehicle accidents	2	2
910-936	Other accidents	6	1
970-979	Suicide and self-inflicted injury	2	2
5	Superficial injury, contusion and crushing with		1
900-904	intact skin surface (N910-N929) Accidental falls	****	
1	Effects of foreign body entering through orifice		
	(N930-N936)	10	9
910-936	Other accidents	10	9
I	Burns (N940-N949)	26	9
800-802	Railway accidents	1	
810-835 910-936	Motor vehicle accidents	3	
970-979	Suicide and self-inflicted injury	21 1	9
	Effects of poisons (N960-N979)	2	
810-835	Motor vehicle accidents	12.2	1
870-888	Accidental poisonings by solid and liquid substances	29	11
890-895	Accidental poisonings by gases and vapours	4 8	2 4
910-936	Other accidents	7	3
970-979	Suicide and self-inflicted injury	ŝ	2

TABLE 21.—CROSS CLASSIFICATION OF DEATHS DUE TO ACCIDENTS, POISON-INGS AND VIOLENCE (EXTERNAL CAUSE BY NATURE OF INJURY)

	CAUSES OF DEATH	Male	Female
	All other and unspecified effects of external causes (N959, N980-N999)	110	30
00-802	Railway accidents	1	
10-835	Motor vehicle accidents	5	1
40-845 50-858	Other road vehicle accidents Water transport accidents	1	
60-866	Aircraft accidents	6 2	-
00-904	Accidental falls	1	
10-936	Other accidents	75	17
40-959	Complications due to therapeutic, surgical or other procedures		1
70-979	Suicide and self-inflicted injury	19	8
80-985	Homicide and injury purposely inflicted by other persons (not in war)		1

TABLE 22.-TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS IN CITIES OF 5,000 POPULATION AND OVER, BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE IN ALBERTA, 1950

	Place of	residence	744 833 124 92
	residents	In United States	00 H
Institutions	Deaths of residents occurring elsewhere	Canada	15 22
Deaths in Institutions	ence here	In United States	10 -1 01
	Residence elsewhere	Lanada	214 527 83 49
	Place of occur-	rence	896 1302 134
	Place of	residence	1154 1183 173 131
	Deaths of residents occurring elsewhere	In United States	10 00 01
All Deaths	Deaths of occurring	In Canada	96 107 21
d IIA	Residence elsewhere	In United States	1-010)
	Resid	In Canada	245 567 90 50
	Place of occur-	rence	1305 1642 242 168
	Cities	Cities: Calgary Edmonton Lethbridge Medicine Hat	

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TABLE 23.-TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN INSTITUTIONS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE IN ALBERTA, 1950

			A II D	Deaths				-	Deaths in	Deaths in Institutions		
Province	Place of occur-	Resid	Residence elsewhere	Deaths of residents occurring elsewhere	residents elsewhere	Place of	Place of occur-	Residence elsewhere	ance	Deaths of occurring	Deaths of residents occurring elsewhere	Place of
	rence	In Canada	In United States	In Canada	In United States	residence	rence	Lanada	In United States	In Canada	In United States	residence
Alberta	6918	151	22	96	17	6856	4243	92	14	51	6	4197

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B.C.	271 43 37 45 55 10 10 22 23 1,726 1,727 1,
Alta.	137 288 288 288 88 888 928 144 1352 1552 201 201 201 201 201 201 201 201 201 20
Sask.	121 141 151 152 153 153 153 153 153 153 153 153 153 153
Man.	145 355 11 4 5
Ont.	536 110 117 19 88 81 18 18 18 95 95 5,974 111 5,974 13,513 5,974 111 5,974 111 5,974 111 5,974 111 5,974 111 5,603 233 111 5,603 233 255 55 55 55 55 55 55 55 55 55 55 55 55
Que.	1,309 123 123 123 133 133 236 336 4,498 80 4,498 4,498 4,498 4,498 104 4,498 104 1,326 169 169 169 169 169 169 169 169 169 16
N.B.	131 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
N.S.	137 249 249 249 249 251 2699 213 213 213 213 213 213 213 213 213 213
P.E.I.	25 24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25
.Dfld.	88 88 88 88 88 88 88 88 88 88
Canada	3,000 3,777 2582 3,777 2580 49 3,796 17,396 17,396 17,396 17,396 17,396 17,396 17,396 17,396 17,396 16,548 12,440 23,50 1,687 33,53 1,555 4,640 1,687 30,533 1,555 4,5440 2,553 1,555 4,5440 2,553 3,550 2,550 2,560 2,560 2,590 2,500 2,5
CAUSES OF DEATH	Tuberculosis of respiratory system Tuberculosis, other forms Syphilis and its sequelae Typhoid fever Cholera Dysentery, all forms Scarlet fever, and streptococcal sore throat Dysentery, all forms Scarlet fever, and streptococcal sore throat Dysphtheria Whooping cough Meningococcal infections Plague Acute Polionyelitis Smallpox Measles Typhus and other rickettsial diseases Maintia All other diseases classified as infective and parasitic Cancer excluding Hodgkin's disease, leuk- aemia and aleukaemia Hoggkin's disease Leukaemia and aleukaemia ami aleukaemia Hoggkin's disease Leukaemia and aleukaemia Anaemias Anaem
Int. List No. v. Detailed List	001-008 010-019 020-029 043 043 055,051 055,051 055,051 055,051 055 057 058 059 100-108 1100-117 059,044,099,052-054, 059-074,081-083, 059-074,081-083, 059-074,081-083, 059-074,081-083, 059-074,081-083, 056-096,120-138 140-205 203,205 056-096,120-138 140-202 203,205 056-096,120-138 140-202 203,205 056-096,120-138 140-202 2560,553 330-502 2560,551 550-553 540,541 550-553 540,541 550-553 540,551 550-553 541,572 550-553 540,551 550-553 541,572 550-553 540,551 550-553 540,551 550-553 540,551 550-553 540,551 550-553 540,551 550-553 540,551 550-553 540,551 550-553 540,551 550-553 540,551 541,572 550,551 540,551 5
Int. Abbrev.	B B

TABLE 24.-DEATHS AT ALL AGES ACCORDING TO THE ABBREVIATED LIST OF 50 CAUSES, BY PROVINCES, 1950

						AN	NUAL]	REPO	ORT, 1950	75
92	27 136 188 21	214	133 982	195	206	11,582	1950	B.C.	23.8 338 338 338 338 338 338 0.4 0.4 0.4 0.2 0.2 0.2 1.5 1.5 1.5 1.5 2.5	151.7
46	19 136 175 38	237	134 590	399	82 13	6,857	CES, 19	Alta.	15.3 4.0 4.0 3.1 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	110.4
50	21 106 149	182	61 564	98 264	3	6,246	PROVINCES,	Sask.	13.8 4.7 1.4 0.1 0.5 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 2.2	1.111
57	14 103 120	166	156	269	12	6,601	ES, BY	Man.	18.4 4.4 1.8 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 1.9 0.3 1.9 0.3 1.1 1.1	124.2
107	97 781 804 144	1,052	374	833	396 51	43,895	50 CAUSES,	Ont.	11.9 11.9 2.4 (2) 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.3 0.3 0.2 0.2 1 2.1	139.8
2004	182 709 914 354	1,836	687 3,194	672 1.206	143	33,525	ST OF 5	Que.	32.9 35.4 3.3 3.4 3.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	113.1
	15 98 112 31	246	277 413	105	30	4.898	ATED LI	N.B.	251 554 554 0.4 0.4 1.9 1.9 1.1 1.3	114.0
	21 112 122	163	167 533	265	45 8	6.079	THE ABBREVIATED LIST OF	N.S.	20.8 3.5 3.5 3.5 3.5 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 2.4 1 0.3 2.4	132.7
>	8112	20	83	40	63	908	THE AI	P.E.I.	26.0 26.0 4.2 8.3 8.3 8.3 11.0 11.0 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	108.3
	18 56 31	156	571 240	132	36	3,058	ING TO	.pilin	52.7 15.8 15.8 0.3 0.3 0.6 0.6 0.6 0.8 0.8 0.8 1.7	97.7
	417 2,236 2,651 715	4,272	2.583 10.508	2,261	1.054	123,649	ACCORDING	Canada	21.7 21.7 4.2 0.4 0.4 0.6 0.5 0.5 0.5 0.5 0.5 0.5 1.3 2.3 2.3 2.3 2.3 2.3	125.9
Complications of prostate	itelect	ñ	Senility without mention of psychosis, ill-defined and unknown causes All other diseases	Motor vehicle accidents All other accidents	Suicide and self-inflicted injury Homicide and operations of war	All causes	25.—DEATH RATES PER 100,000 POPULATION AT ALL AGES	CAUSES OF DEATH	Tuberculosis of respiratory system Tuberculosis, other forms Syphilis and its sequelae Typhoid fever Cholera Dysentery, all forms Scarlet fever, and streptococcal sore throat Diphtheria Whooping cough Meningococcal infections Meningococcal infections Meningeococcal infections Meningeococcal infections Measles Typhus and other rickettsial diseases Malaria All other diseases classified as infective and parasitic	Malignant neoplasm, including neoplasms of lym- phatic and haematopoietic tissues
610 640-652 660	670-689 750-759 760-762 763-762	769-776	780-795 Residual	E810-E835 E800-E802, F840-F962	E963.E970-E979 E964.E965, E980-E99		E		001-008 010-019 020-029 040 043 045-048 056.051 055 056 057 056 057 058 085 085 085 085 085 085 085 085 085	140-205
B39 B40	B41 B42 B43	B44	B45 B46	BE47 BE48	BE49 BE50		TAB	Abbrev.		B18

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B.C.	144.8 144.8 144.8 144.8 144.8 144.8 144.7 144.14	1017.8
Alta.	$\begin{array}{c} 103.7\\ 103.7\\ 1166\\ 116$	766.1
Sask.	$\begin{array}{c} 104.3\\ 104.3\\ 11.1\\ 12.5\\ 12.5\\ 12.5\\ 11.2\\ 11.2\\ 12.5\\ 12.$	714.6
Man.	$\begin{array}{c} 117.6\\ 11.8\\ 2.9\\ 2.9\\ 2.9\\ 2.9\\ 2.0\\ 2.2$	830.3
Ont.	$\begin{array}{c} 132.4\\ 132.5\\ 12255\\ 12255\\ 12255\\ 12255\\ 12255\\ 12255\\ 122$	972.9
Que.	$\begin{array}{c} 108.8\\ 0.9\\ 0.9\\ 0.9\\ 0.9\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2$	843.2
N.B.	105 9 105	938.3
N.S.	$\begin{array}{c} 127.2\\ 0.9\\ 24.6\\ 24.6\\ 24.6\\ 207.3\\ $	923.9
P.E.I.	106.3 2.1 2.1 2.1 2.1 2.1 2.1 2.2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	945.8
.bfhd.	93.8 93.8 0.8 0.8 0.8 0.8 0.8 0.6 0.6 0.8 0.8 0.6 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	861.4
Canada	$\begin{array}{c} 119.7\\ 116.7\\ 116.7\\ 116.7\\ 24.6\\ 25.6\\ 23.7\\ 2$	894.6
CAUSES OF DEATH	Cancer excluding Hodgkin's disease, leuk- aemia and aleukaemia Hodgkin's disease Leukaemia and aleukaemia Bengm and unspecified neoplasms Diabetes mellitus Anaemias Anaemias Anaemias Anaemias Anaemias Anaemias Chronic rheumatic heart disease Hypertension with heart disease Hypertension with heart disease Arteriosclerotic and degenerative heart disease Hypertension with heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Hypertension with heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and degenerative heart disease Arteriosclerotic and setteris and colitis, except diarrhoea of the newborn Appendits and nephrosis Hyperplasia of prostate Comperitar malformations Birth injuries, postnatal asphyxia and atelectasis for vehicle accidents All other diseases Motor vehicle accidents All other accidents Motor vehicle accidents All other accidents Motor vehicle accidents All other accidents All other accidents All other accidents All other accidents All other accidents All other accidents All other accidents All other accidents	All causes
t. List No. Detailed List	(140-200,202 203,205) (201) (201) (204) (201) 210-239 260-293 260-293 260-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 410-402 540.541 550-552 540.541 550-552 540.541 550-552 560,660,660 670-689 760-762 763-768 760-762 760-795 760-705 760-705 760-705 760-705 760-705 760-705 760-	
Int. Abbrev.	B19 B19 B20 B20 B21 B21 B21 B22 B22 B22 B22 B23 B23 B23 B23 B23 B23	

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	-	Rate per 100,000 population	171 172 173 173 173 173 173 173 173 173 173 173
	1941	Number of Deaths	$\begin{smallmatrix} 1394\\812\\812\\812\\825\\825\\825\\825\\825\\825\\825\\825\\825\\82$
IOD	1942	Rate per 100,000 population	184 97 187 187 187 188 188 188 188 188 188 18
L PERIOD	15	Number of Deaths	1483 7784 974 974 974 974 975 975 975 975 975 975 975 975 975 975
DECENNIAL	1943	Rate per 100,000 population	1944 1947 1988 1989 1989 1989 1989 1989 1989 198
	15	Number of Deaths	1550 116 588 588 588 472 115 116 116 116 116 116 116 116 116 116
I LAST	1944	Rate per 100,000 Population	886 8446246246246246624662466246624662466246
OF THE	15	Number of Deaths	1534 1534 1531 1531 1233 1233 1233 1233 1233 1233
YEAR O	945	Rate per 100,000 population	100 100 1112 1112 1112 1112 1112 1112 1
EACH Y	15	Number of Deaths	1663 1388 1388 1388 1388 2555 1338 142 2555 142 2555 2369 2369 2369 2369 2369 2369 2369 2369
FOR E/	1946	Rate per 100,000 population	214 127 127 127 128 128 128 128 128 128 128 128 128 128
RATES F	19	Number of Deaths	1721 860 856 856 838 838 838 838 838 838 838 838 838 119 119 119 119 119 119 119 119 119 11
	1947	Rate per 100,000 population	$\begin{smallmatrix} 121\\ 147\\ 163\\ 245\\ 245\\ 245\\ 245\\ 133\\ 133\\ 133\\ 11\\ 133\\ 11\\ 11\\ 11\\ 11$
RS AND	19	Number of Deaths	1756 1175 1177 1177 1177 1175 1175 1175
NUMBERS	1948	Rate per 100,000	221 221 221 221 222 222 222 222 222 222
BY N	II	Number of Desths	1896 275 275 275 2868 219 2868 2368 2368 2368 2368 2368 2368 2368
DEATH	19	Rate per 100,000 population	1033 104 104 104 104 104 104 104 104 104 104
OF DI	1949	Number of Deaths	2033 2033 2033 2033 2033 2033 2033 2033
	1950	Rate per 100,000 population	228 110 114 114 114 110 12 10 10 10 10 10 10
IN CA	H	Number of Deaths	2046 9916 1337 2573 2573 2573 2573 2573 2573 269 910 911 11 13 8 8 8
TABLE 26CERTAIN CAUSES		CAUSE OF DEATH	Diseases of the Heart Cancer Cancer Diseases of the Arteries Pheumonia (all forms) Pulmonary tuberculosis Influenza Nephritis Suicides excepted) Appendicitis Suicides excepted Influenza Nephritis Suicides and Enteritis Diabetes Mellitus Suicides Cerebral Haemorrhage Cerebral Haemorrhage Cuebral Remorrhage Diabetes Mellitus Suicides Suicides Suicides Suicides Suicides Courbes Puerperal Couses Whoophy Cough Scarlet Fever Diphtheria Typhoid and Parathyphoid Measles Poliomyelitis

VITAL STATISTICS BRANCH

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0	cent.	legrool	Widowers							
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AND BRIDES IN ALBERT/		ivorced	swobiW							
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BRI	wee	pu	Women							
	ges be	Widowers a	swobiW							
GROOMS	arria		Spinsters							
EGRO	W	and	Women							
BRIL		telors	swobiW							
US OF		Bach	Spinsters							
MARITAL STATUS OF		Total Marriages								
RITA										
-MA										
2 28										
TABLE 28N										
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Total for the Province

		ANNUAL REPORT, 1950 79	
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TABLE 29.-MARRIAGES-AGES OF BRIDEGROOMS AND BRIDES IN ALBERTA, 1950

ANNUAL REPORT, 1950

VITAL STATISTICS BRANCH

Butchpaces of British Dirthpaces of British			Birthplaces of Bridegrooms	CANADA Newfoundland Newfoundland Island Nova Scotla Nova Scotla Nova Scotla Nova Scotland Manitoba Saskatchewan Alberta Alberta Alberta Manitoba British Isles England Ireland Kales Cotland Vales Other Scotland Vales Diffes British Possessions	Europe Austria Belgium Crechoslovakia
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TABLE 30.--MARRIAGES-BIRTHPLACE OF BRIDEGROOMS AND BRIDES, IN ALBERTA, 1950

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Denmark Finland France Germany Hungary Italy Norway Poland Roumania Russia (U.S.S.R.) Sweden Yugoslavia Other	sia China Japan Other	United States Other American countries Other countries Unspecified	Total brides 9294
DEFORTNARWANDO	Asia Jag	Une	

TABLE 31.-MARRIAGES-RELIGIOUS DENOMINATIONS OF BRIDEGROOMS AND BRIDES, ALBERTA, 1950

	VITAL	STATISTICS BRANCH
1	Unspecified or unknown	·····
ŀ	Non-religious denominations	
	Other religions	N N
	United Church of Canada	3222 59 59 66 64 64 64 11 13 13 146 11 13 13 13 14 13 13 13 13 13 13 13 13 13 13 13 13 13
	Unitarians	
	Swedenborgians	
	Spiritualists	
	Society of Friends	
	Salvation Army	m m
	Roman Catholics	288 288 288 288 288 288 288 288 288 288
	Reformed Churches (Christian)	
	Presbyterians	2222 22 22 22 22 22 22 22 22 22 22 22 2
	Plymouth Brethren	
	Pentecostal Assemblies	1 1 3 3
	Oriental religions	N
	Isnoitsnimonsb-noN	н о н н о н н о о
bride	Mormons	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
of br	Moravian Church	
	Methodists	
denomination	Mennonites	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
non	Lutherans	374 1 6 6 371 137 228 288 288 288 288 288 288 288 288 28
	heiwel	
Religious	International Bible Students	<u> </u>
elig	Holiness Movement	
184	Greek Catholic Churches	
	Gospel bodies	0 1
	Evangelicals	1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Eastern Orthodox Churches	119 119
	Doukhobots	
	Church of God	
	Churches of Christ (Disciples)	
	Christian Scientists	· · · · · · · · · · · · · · · · · · ·
	Christian Missionary Alliance	
	Christians Christians	
	Brethren including United	33 1 1 1 1 1 1 1 1 1 1 1 1
	Baptists	1106 12 28 111 12 28 111 12 28
	Apostolic bodies	
		4 29 1 3 3 1 5 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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	Total Grooms	27 314 314 314 27 314 314 314 349 349 349 349 349 349 349 349 349 34
	Religious Denomina- tion of bridegroom	Adventists Adventists Apostolic bodies Braptists Brethren including United Christian Missionary Alliance Christian Scientists Churches of Christ (Disciples) Churches of Christ (Disciples) Churches of Christ (Disciples) Churches

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Mormons Non-denominational Oriental religions Pentecostal Assemblies Plymouth Brethren Presbyterians	Christian) Roman Catholics Salvation Army Society of Friends Spiritualists Swedenborgians	United Church of Canada Other religions Non-religious denom- inations Unspecified or unknown	Total brides

VITAL STATISTICS BRANCH

.

	1	Divorce	\$	I	Nullities	-
Judicial Districts	Number of Divorces	Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife
Edmonton Calgary Lethbridge Medicine Hat Peace River Grande Prairie Hanna Red Deer Drumheller Macleod Wetaskiwin	267 195 32 13 7 1 6 17 2 7 3	$118 \\ 72 \\ 15 \\ 5 \\ 1 \\ 3 \\ 10 \\ 1 \\ 6 \\ 3$	149 123 17 8 2 3 7 1 1	1 4 1	1	13
Total	550	249	311	6	1	5

TABLE 32.—DIVORCES AND NULLITIES BY JUDICIAL DISTRICTS FOR THE YEAR 1950, ALBERTA

DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

	Year	Granted to Husband	Granted to Wife	Total
1919			0	6
920		3 74	3 26	100
921		53	37	90
922		80	49	129
923				129
		57	32	89
924		66	53	119
925		59	42	101
926		79	75	154
1927		83	66	149
1928		91	84	175
1929		77	71	148
1930		64	87	151
1931	minimum management and a second	69	87	156
1932		68	81	149
1933		56	79	135
1934	101000-0000000000000000000000000000000	62	106	168
1935		74	135	209
936		74	135	209
1937		102	139	241
1938		105	162	267
1939		104	163	267
1940		119	154	273
941		135	1 176	311
1942		179	201	380
1943		190	223	413
1944		245	243	488
1945		302	273	575
1946		494	480	974
947			470	882
		404	257	659
1948		302	001	639
949		262	. 332	394
1950		249	311	550

		Months													
	Total	January	February	March	April	May	June	July	August	September	October	November	December		
Total for the Province	1221	105	102	109	102	121	99	105	107	98	73	96	104		

TABLE 33.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS). BY MONTHS IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHER, 1950

TABLE 34.—LEGITIMATE AND ILLEGITIMATE BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHER, 1950

	To	tal Bi	ths La		itim	ate	Illegitima		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Alberta	1221	586	635	936	455	481	385	131	15

TABLE 35.—DEATHS OF INDIAN CHILDREN UNDER ONE YEAR (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES BY SEX IN ALBERTA, BY PLACE OF RESIDENCE, 1950

Int. list No.	Causes of Death	Total	Male	Female
	ALL CAUSES	100	57	50
001-019	Tuberculosis	109 6	57	52
020-029	Syphilis	0	-	1
050	Scarlet fever			
052	Erysipelas			
055	Diphtheria			
056	Whooping cough	1	1	
057	Meningococcal infections			
085	Measles		1000	
273	Diseases of the thymus gland	****	****	
340	Meningitis (non-meningoccocal)	1		1
391,392 480-483	Otitis media	1		1
490-493	Influenza Pneumonia (4 weeks and over)	2 25	2	10
500-502	Bronchitis	25	13	12
571.572	Enteritis (4 weeks and over)	17	9	1
750-759	Congenital malformations	4	2	82
752	Congenital hydrocephalus		-	-
754 750.751, 753,755-	Congenital malformations of circulatory system.	2	1	1
759	Others under this title	2	1	1
760.761	Injury at birth	22	î	î
763	Pneumonia of newborn (under 4 weeks)	5	3	2
764	Diarrhoea of newborn (under 4 weeks)	3	1	2
769	Antenatal toxaemia			
770	Erythroblastosis			
772	Nutritional maladjustment	3	1	2
773	Ill-defined diseases peculiar to early infancy	2	1	1
774-776	Immaturity	10	5	5
795	Ill-defined and unknown causes	2	1	1
	Other specified causes	23	14	9

VITAL STATISTICS BRANCH

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Scarlet lever multi- Streptococcal sore throat Female Female Male Female Male	Diphtheria Male Female			Male	Female	Female	Female	Acute poliomyelitis	1	Smallbox	Female	Female	Female Male	Female	Female Wale	Female	Female	Female	le	

VITAL STATISTICS BRANCH

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	32-33 Aests	11			11	11	11	11	1	11		1				1	1	11
	30-34 Aests	11	11				11	11	11	11	1	11	11	1				11
	S2-S9 Years		11	-	11	1 1	1 1	1.1	1.1	1 1	1	1.1	11	1	1	E		
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	12-19 Aests		11	1	-	1 1	1 1	11				1.1	1 1	1	1			
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		Male Female	Male			Female	Female Male	Female	Female	Male	-	Male	Female	Female	Male	Male	Male	_
	CAUSES OF DEATH	Ankylostomiasis	ises due to helminths	All other diseases classified as infective and parasitic	Malignant neoplasm of buccal cavity and pharynx	Malignant neoplasm of oesophagus	Malignant neoplasm of stomach	Malignant neoplasm of intestine, except rectum	Malignant neoplasm of rectum	Malignant neoplasm of larynx	Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary	Malignant neoplasm of breast	Malignant neoplasm of cervix uteri	Malignant neoplasm of other and unspecified parts of uterus	Malignant neoplasm of prostate	Malignant neoplasm of skin	Malignant neoplasm of bone and connective tissue Male	Malignant neoplasm of all other and unspecified sites
		A 41	A 42	A 43	A 44	A 45	A 46	A 47	A 48	A 49	A 50	A 51	A 52	A 53	A 54	A 55	A 56	A 57

TABLE 36.-CAUSES OF DEATH (INTERMEDIATE LIST) OF INDIANS BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950-Continued

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	ultis			of											1			Female	Female	Female	

VITAL STATISTICS BRANCH

TABLE 36CAUSES OF	CAUSES OF DEATH		Al35 III-defined diseases pecular to carry interva- immaturity unqualified
TABLE 36.—CAUSES OF DEATH (INTERMEDIATE LIST) OF	DEATH	Arthritis and spondylitis Muscular rheumatism and rheumatism, unspecified Osteomyelitis and periostitis Ankylosis and acquired musculoskeletal deformities All other diseases of skin and musculoskeletal system Spina bifida and meningocele Congenital malformations of circulatory system All other congenital malformations Birth injuries Postnatal asphyxia and atelectasis Infections of the newborn All other disease of newborn All other disease of newborn All other diseases of early infancy and other defined diseases of early infancy	In-defined discases pectual to carry intervol and immaturity unqualified Schools Schools III-defined and unknown causes
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AND	2-9 Aests		
	10-14 Years		
AGE IN	12-19 Years		
	20-24 Years		
ALBERTA.	52-59 Years		
	32-33 A6912		11111
BY			
BY PLACE AGES	42-49 AGULS		
CE	20-24 Aesis		
OF RI	22-23 A6912		11111
RESIDENCE,	60-64 years		
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Ε, 19	12-13 Aests		⁰ ¹
1950-	80-84 years		13
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AL		20-24 years	1			-	_			-	61
NI		15-19 years	1	61	: :	1 1				-	
AND AGE		10-14 years		1							-
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(INTERMEDI				en, and pelvis.		d crushing wi	through orifice			Participant of	s of external
TABLE 36CAUSES OF DEATH (INTERMEDIATE LIST) OF	an at lease we	CAUSES OF DEATH	AN143 Head injury (excluding fracture)	AN144 Internal injury of chest, abdomen, and pelvis	AN145 Laceration and open wounds	Superficial injury, contusion and crushing with	Effects of foreign body entering through orifice		Effects of poisons		ANI50 All other and unspecified effects of external causes
AU		USE	(ext	N O	o pt	njur	aion	-	ison		np
9		CA	ILY	mju	n ar	il it	for		DO		an
E 36			inju	al i	ation	ficie	e of	5	s of		other
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3.3.8	CAUSES OF DEATH		IntoT	1 year Under 1 year	5 Years	3 Years	4 A6912	10-14 Xears	I2-I3 Xeuts	20-24 Years	52-59 Xests	32-36 house	40-44 Aests 32-33 Aests	42-48 X6918	20-24 Years	22-23 AGULS	60-64 years	65-69 years	10-14 Aests	80-84 Years	82-89 X6912	90-94 Years	95-99 years	and overs 100 vears	betate toN
ALL CAUSES		Total Male Female	116 68 48	12 23	00	- 19 19	4 4	- 10 CO	104-	4-0	40101		1-0110	400		40101	104-	400-	01-01	13	*0-			111	111
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A 4	bones and joints	Female Male	11	11		1 1	II								11		11	11	11	11		11	11	11	
A 5	Tuberculosis, all other forms	Male		11	11	11	11	11		11	-	11	11	11	11	11	11	11	11	11	1 1		-	11	
A 6	Congenital syphilis	Male	N	1 1				11					1 1	11	11	1 1	1 1	11	11	11	11			11	11
A 7	Early syphilis	Female	1				11	11			11			11	11	11	11	11	11	11	11	11	11	11	11
A 8	Tabes dorsalis	Female	11	11			1	1	11	1 1	1			11	11	1 1	11	11	1.1	11				11	11
A 9	General paralysis of insane	Female	11	11			11	1 1		11	11	11	11		11	11	11	11	11	11		11	11	11	11
A 10	All other syphilis	Male	11				11	1 1			11		1 1	-	11	1	11	11	11	11	11	11	11	1 1	1 1
A 11	Gonococcal infection	Female	11	11	11	1 1	11	11		1 1	1 1	11	11		11	11	11	11	11	11	11			11	11
A 12	Typhold fever	Female	1				11	1 1			11	11	1 1	1.1		11	11	11	11	11	11		1.1	11	11
A 13	Paratyphoid fever and other Salmonella infections	Female Male Female	11	11	11	11	11	11	11	11	11	11	11	11	11	1.1	11	11	11	11	1 1	11	11	11	
A 14	Cholera	Male	11														11	11	11					11	
A 15	Brucellosis (undulant fever)	Female Male Female	11	1 1		1 1	11	11				11	1 1 7		11	11	11	11:	11	11	11	1 1	11	11	
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TABLE 37.-CAUSES OF DEATH (INTERMEDIATE LIST) OF HALF-BREEDS BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950

Mathematical and a contract of the second	HAVAD AD SASING).cen			s				S.IC		AGES AGES			SIG	SIG	SIE	SIG	sis			S	3
Dysentery, all forms Female 1<					2 years						30-34 A6	32-39 Å6	40-44 Xe			60-64 ye	92-69 Xe	70-74 ye	12-13 AG	80-84 AG				100 A691
Scarlet fever Eremate Streptococcal sore throat Streptococcal infections Streptococcal infecting Stre	1.102		1		1								1	1			1		1		1			
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23 Meningococcal infections Female 1 <	00	Female	T	F		11	11	1	11	1	1 1		1	1 1		1 1				-	1	1	1 1	
23 Meningococcal infections Male <	3	Female	-	-	-						-	-	-	1	-	1		1		1	-	-	-	
24 Plague Premate <	23	Male	:	-			-	;	1	-			-	-	-	-	-				1	-	:	
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TABLE 37.--CAUSES OF DEATH (INTERMEDIATE LIST) OF HALF-BREEDS BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950-Continued

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TABLE 37.--CAUSES OF DEATH (INTERMEDIATE LIST) OF HALF-BREEDS BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950--Continued

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TABLE 37CAUSES OF DEATH (INTERMEDIATE LIST) OF HA		CAUSES OF DEATH	 B Diseases of teeth and supporting structures Ulcer of stomach Ulcer of duodenum Ulcer of duodenum Appendicitis Intestinal obstruction and hernla Intestinal obstruction and hernla G astro-enteritis and colitis, except diarrhoea of the newborn Cirrhosis of liver Cirrhosis of liver Collections of liver Other diseases of digestive system Other diseases of digestive system Infections of kidney Infections of kidney E Hyperplasia of prostate Diseases of breast Other diseases of genito-urinary system Sepsis of pregnancy, childbirth and the puerperium 	All6 Toxaemias of pregnancy and the puerperium
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d childbirth	sepsis or toxaen		ncy, childbirth	neous tissue		matism. unspeci		uloskeletal		musculoskelet			irculatory syster	ations			asis			HIII and a second secon	early infancy	early infancy.		psychosis	uses
A117 Haemorrhage of pregnancy and childbirth.	All8 Abortion without mention of sepsis or toxaemia-	A119 Abortion with sepsis	A120 Other complications of pregnancy, childbirth and the puerperium	A121 Infections of skin and subcutaneous tissue	A122 Arthritis and spondylitis	A123 Muscular rheumatism and rheumatism, unspecified			Iormues	A126 All other diseases of skin and musculoskeletal system	A107 Cuine hidid and monimum		A128 Congenital malformations of circulatory system	A129 All other congenital malformations	A120 Dials initiation	2	A131 Postnatal asphyxia and atelectasis	A132 Infections of the newborn		A133 Haemolyuc disease of new born	A134 All other defined diseases of early infancy.	A135 Ill-defined diseases peculiar to early infancy, and	immaturity unqualified	A136 Senility without mention of psychosis	A137 Ill-defined and unknown causes

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TABLE 37.--CAUSES OF DEATH (INTERMEDIATE LIST) OF HALF-BREEDS BY SEX AND AGE IN ALBERTA, BY PLACE OF RESIDENCE, 1950-Continued

		VII	AL	SI	TAT	IS	TIC	S B	RAN	CH					
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	92-99 years	11	1	11		T	1.1	1 1	i i	11	111		11	1	111
	90-94 years		1	11			11	1 1	1 1	11			11	1	
	82-89 Xeurs	11	1	11		1	11	1 1	1 1	11		1	11		
	80-84 Years	11	1				11	1 1	-	11			11	-	
	12-79 years	11	-	11	111	1	11	I I	-	11			11	-	
	20-14 Years	11					11	1 1		11					
	65-69 years	-		-						11	111		111	1	
	60-64 years	1	1	11	11	1 1			1 1	11	-			1	TT
	22-23 X69L8	11	1	11		ī	1.1	1 1		11	11		11	i	
	20-24 Years		i	11			11	1 1	1 1	11				-	
ES	42-46 Aests	11	-	11			11	1 1	1 1	11	111		111	1	111
AGES	40-44 years	11	1	11			11	1		11	111			1	
	32-39 Aests		-	1 1			11	-	1 1	11	111			-	
	30-34 Years		1	11			11	1 1		11	1 1 1				
	25-29 years			1	1 1		1.1	1 1		11	1 1 1	-			+ + +
	20-24 Years		1	1.1				1 1		11	1 1 1	-			
	12-19 Years		-	E.E.	1.1.2	-	100	1 1	; ;			1.2.5.1			
	10-14 years	-		1 1	: :		1.1	1 1	1 1		11				
	2-9 Aests	11	1	11			1 1	: :	: :		111		11	1	
	4 Years	11	:		11	1	11	1 1	1	11	11			-	
	3 Years	11		E.I.	11		11	1 1	1 1	11	11			i	111
3	2 years		1	11	11		11		1.1	11	11			- 1	1 1 1
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				-	1.1		-		-			1.1			
		Male Female	le	Male	Male	le	Female	Female Male	Female	Female	Male	Male	Male	le	Female Male Female
			Male	Male	Male	Male	Fema		Fema	Fema	Male	Male	Male	the second second second second second second second second second second second second second second second s	Fema Male Femal
		Alternative classification of accidents, poisonings and violence						Accident caused by fire and explosion of com- bustible material	by hot substance, corrosive and radiation					Homicide and injury purposely inflicted by other persons (not in war)	
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	CAUSES OF DEATH	e el	icle	ods	bo	fal	aus	e n	ster	aus	dro	acci	d s	and and	ulti
		olen	veh	tran	ntal	ntal	nt c	ident caused by 1 bustible material	ident caused by hot substance liquid, steam, and radiation	nt c	ntal	er	an	icide and injury purposely persons (not in war)	res
		Alternative classification of and violence	Motor vehicle accidents	Other transport accidents	Accidental poisoning	Accidental falls	Accident caused by machinery	ider	Accident caused liquid, steam.	Accident caused by firearm	Accidental drowning and submersion	All other accidental causes	Suicide and self-inflicted injury	per	ury
		Alta		Oth		Acc	Acc	Acc		Acc	Acc	IIW	Sule		AF150 Injury resulting from operations of war
		18 0	AE138	AE139	AE140	AE141	AE142	AE143	AF144	AE145	AE146	AE147	AE148	AE149	5150
			AI	AI	AI	AI	AF	AI	AI	AF	AI	AI	AI	N	W

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1						11								
Male 8 Female 3	Male	Male 1	Male	Female 1 Male	Female	Female Male	Male 4	Male	th Male	-	Male 1	Female	e 1	le 1
and violence (nature of injury)		Fracture of spine and trunk	Fracture of limbs	Dislocation without fracture	AN142 Sprains and strains of joints and adjacent muscles Male	AN143 Head injury (excluding fracture)	AN144 Internal injury of chest, abdomen, and pelvis	Laceration and open wounds	Superficial injury, contusion and crushing with intact skin surface	Effects of foreign body entering through orifice	Burns	AN149 Effects of poisons	ANI50 All other and unspecified effects of external	

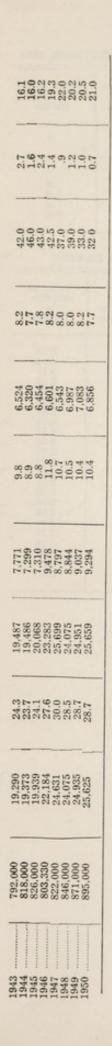
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Contraction of the second seco		Ma	Number of Deaths 114 1.091 1.091 1.578 2.188 2.188 2.188 2.188 2.188 2.188 2.188 2.188 2.188 2.188 2.188 2.188 2.562 5.504 5.505 5.505 5.505 5.505 5.505 5.539 5.332 5.332 5.332 5.332 5.332 5.332 5.339 5.332 5.3	Ă [™]	ate ate ate ate ate ate ate ate ate ate		Infantile Put Death Rate Death Rate Death Rate Death Rate Death Rate Death Rate Births Births	Number Marriage Number of Rate Of Marriages Deaths
Rate Birth Rec Birth 220.05 22.45 22.55 22.45 22.55 22	No. of Births Births Births Received to Date 4,032 7,495 7,495 7,495 7,495 7,495 7,495 7,495 7,495 7,495 10,732 11,434 11,434 11,434 11,434 11,434 11,434 11,434 11,434 11,434 11,434 11,434 11,435 11,495 11		Number Marriages Marriages 1,907 1,907 1,907 1,907 1,907 1,907 2,032 2,032 2,032 3,686 3,630 4,429 5,032 4,200 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0010 6,0000 6,0000 6,0000 6,0000 6,00000000	Number Marriage of Marriages Marriages Marriage 187 927 8.77 927 8.77 927 927 8.77 8.79 927 8.79 97.92 927 8.630 9.70 928 3.650 9.79 9205 8.53 7.92 8.650 9.18 9.79 3.650 9.70 9.79 4.429 9.18 9.79 5.650 4.270 8.53 4.270 8.53 9.05 4.718 8.53 9.18 4.177 6.09 9.76 4.177 7.90 8.53 4.177 7.75 7.92 4.177 6.09 7.70 4.177 6.09 7.70 4.177 6.09 7.73 5.142 6.09 7.70 6.03 7.76 7.02 6.03	Number of Marriages Marriage Rate Number of Rate Deaths Deaths 11.907 187 0.0 0.1 0.0 0.1 0.0 Marriages 11.907 1.907 0.0 0.1 0.0 0.0 11.907 1.907 1.907 0.0 0.1 0.0 0.1 0.0 11.907 2.032 7.653 2.188 0.091 1.1.07 0.1	Number of Marriage Marriage of Marriage Number of Bate Marriage of Deaths Number Deaths Death Death 187 Marriages 0.f Rate 0.f Rate Death 927 Marriages 927 5032 0.f Rate Death Bate 1987 1.907 928 5.053 6.77 1.091 9.18 7.36 8.22 1.907 3.526 9.18 8.23 8.23 8.23 3.085 9.18 9.18 8.23 8.23 8.23 3.085 9.18 9.18 9.18 8.23 9.23 3.085 9.18 1.578 8.23 10.49 7.36 4.429 11.07 4.432 10.65 9.23 9.23 4.421 1.033 4.432 10.49 8.23 9.23 4.421 4.423 11.07 4.432 10.49 8.23 4.421 7.94 13.266 8.18 8.23 8.23 4.107 7.33 7.4417 7.34	Number of Marriage Marriage of Marriage Number of Births Death Col Births Infantile Death Death Infantile Death 187 0.4 Rate Death Death Death Death 187 1.927 6.77 1.14 Death Death Births 1.927 8.05 1.1031 1.578 8.05 1.0031 9.000 1.927 8.05 1.1031 1.578 8.06 10.049 1.26.57 2.0022 7.053 9.16 9.00 9.00 9.00 9.00 1.927 8.05 9.18 3.568 9.00 9.00 9.00 2.053 11.07 4.232 10.65 1.244 9.00 9.00 4.423 3.086 9.12 7.28 9.00 9.00 9.00 4.423 9.06 9.00 9.00 9.00 9.00 9.00 1.903 9.11 7.35 9.05 9.00 9.00 9.00 9.00 4.	

TABLE 38.—POPULATION BIRTHS. MARRIAGES. DEATHS. AND RATES FOR THE YEARS 1905-1950

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	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province	25,625	19	.7
City of Edmonton City of Calgary Small Cities Rural Indian	4,745 3,135 1,448 15,076 1,221	2 3 3 7 4	.4 .9 2.0 .4 3.2

TABLE 39.-DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1950

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 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1927	$\begin{array}{c} 1,059\\ 1,094\\ 1,075\\ 1,077\\ 1,086\\ 1,065\\ 1,103\\ 1,084\\ 1,053\\ 1,084\\ 1,053\\ 1,081\\ 1,000\\ 1,063\\ 1,061\\ 1,069\\ 1,074\\ 1,055\\ 1,055\\ 1,034\\ 1,072\\ 1,072\\ 1,036\\ 1,036\\ 1,036\\ 1,065\\ 1,065\\ \end{array}$	$\begin{array}{c} 3.13\\ 2.07\\ 2.96\\ 2.73\\ 2.59\\ 2.69\\ 2.43\\ 2.43\\ 2.67\\ 3.30\\ 3.74\\ 3.29\\ 3.25\\ 1.88\\ 2.56\\ 2.92\\ 3.32\\ 3.06\\ 3.13\\ 2.97\\ 2.97\\ 2.80\\ 2.94\\ \end{array}$	1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950	$\begin{array}{c} 1.064\\ 1.042\\ 1.027\\ 1.075\\ 1.052\\ 1.053\\ 1.032\\ 1.055\\ 1.049\\ 1.019\\ 1.046\\ 1.046\\ 1.046\\ 1.046\\ 1.033\\ 1.054\\ 1.058\\ 1.041\\ 1.058\\ 1.041\\ 1.060\\ 1.061\\ 1.036\\ 1.061\\ 1.036\\ 1.061\\ 1.051\\ 1.051\\ 1.052\end{array}$	$\begin{array}{c} 2.75\\ 2.71\\ 3.21\\ 3.25\\ 3.08\\ 3.01\\ 3.04\\ 2.81\\ 2.57\\ 2.38\\ 2.70\\ 2.85\\ 2.79\\ 2.71\\ 3.02\\ 2.96\\ 3.06\\ 3.08\\ 3.36\\ 3.36\\ 3.76\\ 3.44\\ 3.52\\ 3.74\end{array}$



