#### Contributors

Alberta. Department of Public Health.

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## ANNUAL REPORT

#### OF THE

# **Department of Public Health**

PROVINCE OF ALBERTA

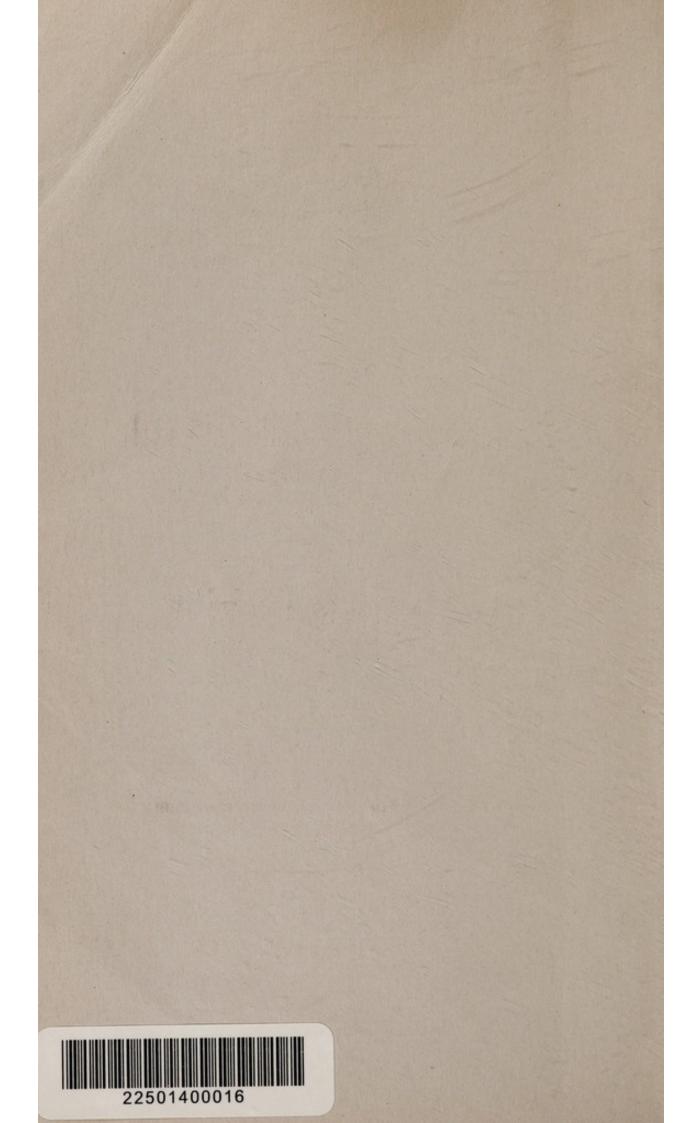
INCLUDING

## Vital Statistics Division 1952

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON PRINTED BY A. SHNITKA, QUEEN'S PRINTER 1954

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## ANNUAL REPORT

#### OF THE

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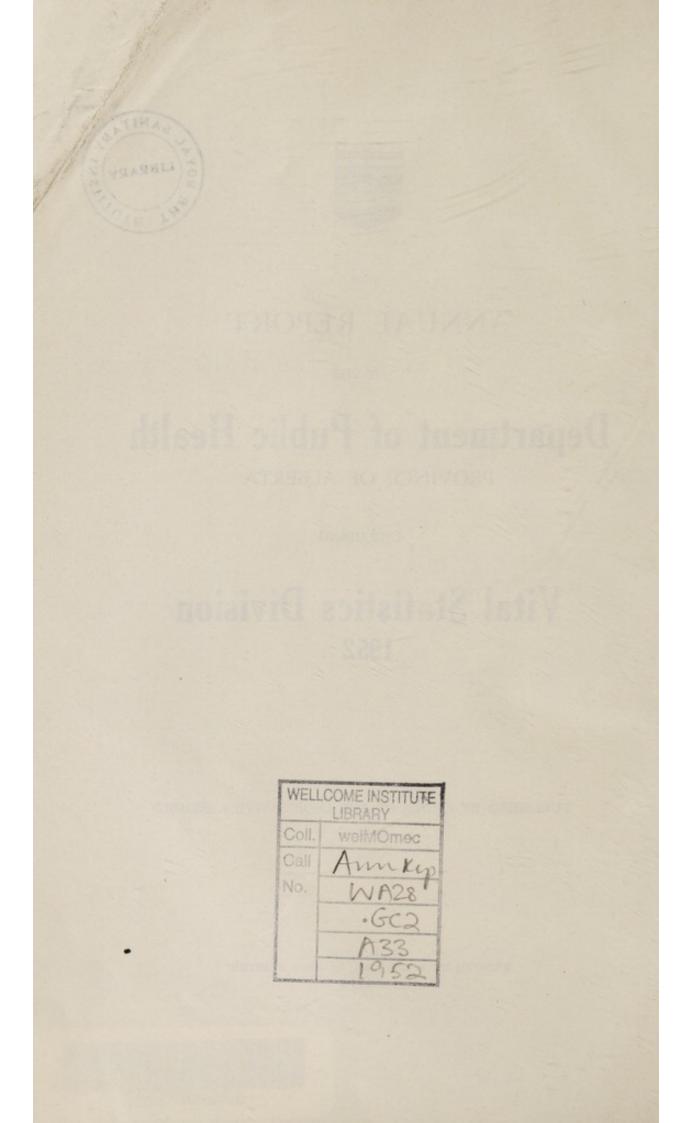
PROVINCE OF ALBERTA

INCLUDING

## Vital Statistics Division 1952

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON PRINTED BY A. SHNITKA, QUEEN'S PRINTER 1954



December 31, 1953

#### 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 1952.

I have the honour to be, Sir,

Your obedient Servant,

WALLACE WARREN CROSS, Minister of Health. Digitized by the Internet Archive in 2019 with funding from Wellcome Library

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December 31, 1953

To THE HONOURABLE DR. W. W. CROSS, Minister of Health, Administration Building, Edmonton, Alberta

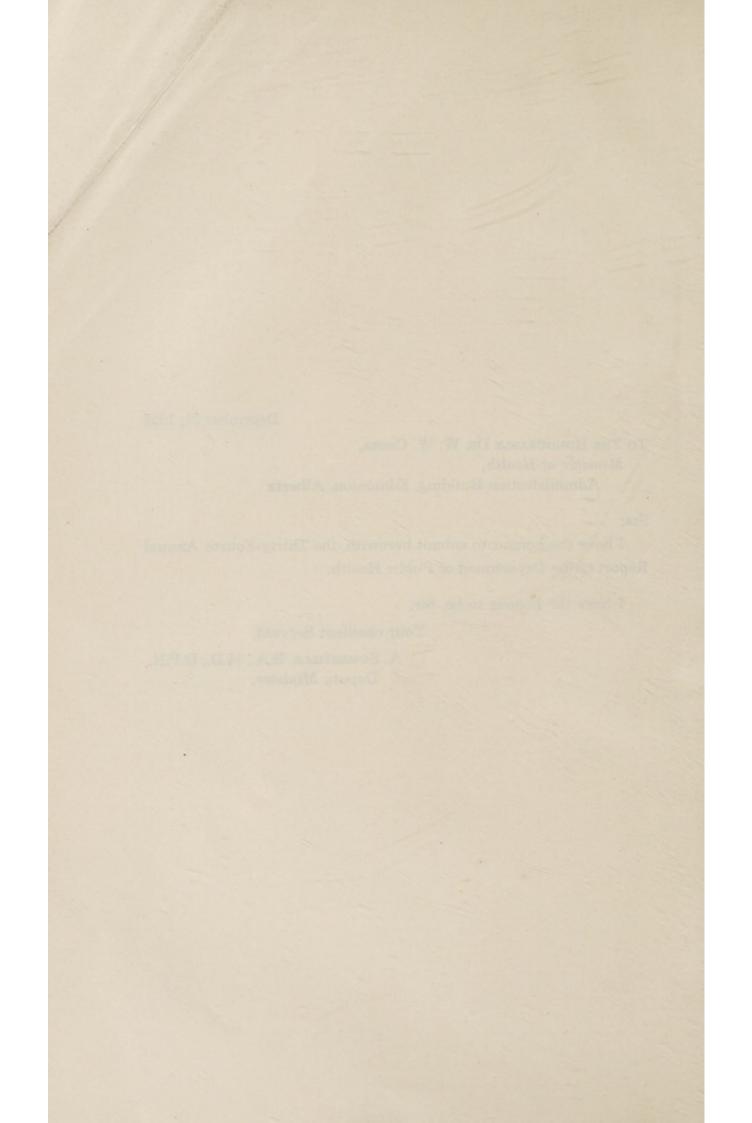
SIR:

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

I have the honour to be, Sir,

Your obedient Servant,

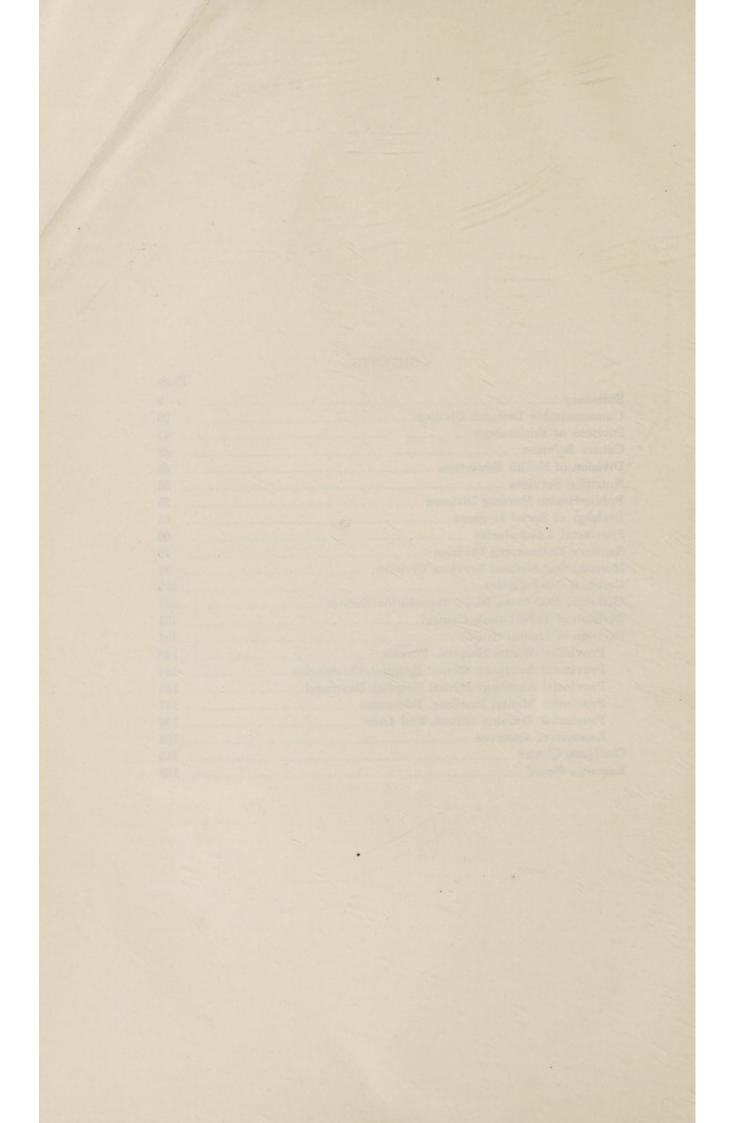
A. Somerville, B.A., M.D., D.P.H., Deputy Minister.



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#### THIRTY-FOURTH ANNUAL REPORT OF THE PROVINCIAL DEPARTMENT OF PUBLIC HEALTH INCLUDING THE VITAL STATISTICS DIVISION

#### 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.
- 10. Hospital and Medical Services.
- 11. Cerebral Palsy Clinics.
- 12. Canadian Red Cross Blood Transfusion Service.
- 13. Division of Tuberculosis Control.
- 14. Mental Health.
- 15. Vital Statistics.

Institutions: Provincial Mental Hospital, Ponoka.

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

Guidance Clinics. Eugenics Board.

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

#### PROVINCIAL BOARD OF HEALTH

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

#### AMENDMENTS AND REGULATIONS PASSED DURING THE YEAR

O.C. 151-52. Amendments to Provincial Board of Health Regulations Regarding Plumbing and Drainage. These amendments placed the responsibility for providing plumbing inspection service in Cities, Towns and Villages having populations in excess of 3,000 and in Cities, Towns and Villages having water and/or sewer utilities on the Council of the City, Town or Village concerned. In other cases the service was to be continued by the Province.

O.C. 1604-52. Provincial Board of Health Regulations Governing Certificates, Permits and General Administration. The old regulations were rescinded and replaced with new regulations which provide that except where otherwise specified in the Act or Regulations, permits, orders, warrants, certificates and other documents issued by a Local Board of Health shall be signed by the Medical Officer of Health or Secretary of the Board. In the case of the Provincial Board of Health it is provided that the Chairman shall be the signing authority. O.C. 1605-52. Provincial Board of Health Regulations Governing the Sale of Cheese in the Province of Alberta. These amendments altered the holding period for cheese made from unpasteurized milk from a minimum of 90 days to a minimum of 60 days. They also established a minimum holding temperature of 35°F. The regulations were also renumbered.

O.C.'s 315-52, 362-52, 849-52 and 850-52. These Orders-in-Council made no change in the context of regulations but renumbered the following Provincial Board of Health Regulations:

Regulations governing Heating and Ventilating of Theatres.

Regulations Respecting the Preparation, Manufacture, Processing and Sale of Canned Meat or Canned Meat Food Products.

Regulations Respecting Water and Ice. Dental Regulations.

#### LEGISLATION PASSED DURING THE YEAR

#### Health Unit Act Amendment Act (Chapter 35).

This Act amends The Health Unit Act, being chapter 38 of the Statutes of Alberta, 1951.

Section 10 is amended. Subsection (1) is amended for clarification. A new subsection (2) is added which provides for the employment of dental officers by the Board of the health unit to provide dental services for children sixteen years of age and under. Subsection (3), formerly subsection (2), is amended to correct a cross reference.

This Act came into force on April 10th, 1952.

Hospital Act Amendment Act (Chapter 37).

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

The majority of the amendments contained in this amending Act are made for the purpose of providing for an increase in the hospitalization grants payable to municipalities and municipal hospital districts. The amount of the grant which is at present fixed by the Act is equal to fifty (50) percent of the former basic standard ward rate in approved hospitals. Increased costs of providing hospital services resulted in an increase in the basic standard ward rate. The amendments provide that the hospitalization grant shall be fifty (50) per cent of the standard ward rate as set by regulation after one dollar per day has been deducted. The Act at present designates the number of dollars and cents of grant that will be paid in each case whereas under the amendment the amount of the grant becomes a fixed percentage of the standard ward rate as set by regulation, whatever that might be. The sections amended for this purpose are section 3a, subsection (2), section 3b, and subsections (2) to (6) inclusive, section 3g; section 3e is repealed for the same purpose and section 3d is amended to conform.

The increased grants were authorized by order-in-council subject to the enactment of this validating legislation. The order-in-council was effective the first of January, 1952 so these particular sections are made retroactive to that date.

Section 3 is amended by striking out subsection (1) and substituting a new subsection. The subsection now authorizes the Lieutenant Governor in Council to pay to an approved hospital a per diem allowance in respect of each person hospitalized. The latter part of the subsection authorizes the Lieutenant Governor in Council to exclude certain persons or classes of persons from the operation of this section. The effect of the amendment is to enable the Lieutenant Governor in Council, in his discretion, to exclude designated hospitals from the operation of this section so that such hospitals would not receive the per diem allowance. A similar amendment is made to section 3b.

Section 3d lists the cases where a hospitalization grant is not payable. A new clause (c) is added to this section enumerating another case where a grant is not payable, namely, in respect of the hospitalization of a person who, in the opinion of the medical inspector of hospitals, does not require active treatment. Clause (a) is also amended so as to make the clause apply generally rather than to rate payers solely.

Section 6, subsection (4) is amended. This subsection provides that no local authority is liable to pay on account of the care or treatment of an indigent sick person more than three hundred dollars in any one year. The effect of the amendment is to increase the liability of the local authority from three to four hundred dollars.

Except as otherwise provided, the Act came into force on April 10th, 1952.

#### Maternity Hospitalization Act Amendment Act (Chapter 50).

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

Section 3, subsection (2) is amended. The effect of the amendment is to permit payments to be made in accordance with the agreement entered into rather than to have the payments relate to the services, facilities and equipment available in the hospital and used for maternity services as was formerly the case.

Section 4 is amended to correct a cross-reference and to extend the section to include the new grant authorized under the new section 5c.

Section 5 is amended for clarification.

Section 5a, subsection (1), clause (a) is amended for clarification.

A new section 5b is added. It provides that the Minister may pay a hospitalization grant on a per diem basis for a woman who is entitled to hospitalization and who is hospitalized in an approved hospital which has not entered into an agreement under this Act with the Minister. The grant will be in such an amount as may be prescribed by regulations from time to time.

Section 5c is new and provides for the granting of a maternity grant of \$40.00 to a woman who provides for her own maternity services at home.

This Act came into force on April 10th, 1952.

Mental Diseases Act Amendment Act (Chapter 53).

This Act amends The Mental Diseases Act, being chapter 192 of the Revised Statutes of Alberta, 1942.

Section 27, subsection (2) is amended. By this amendment the superintendent of a mental disease hospital, who could permit a

mental patient to be absent from the hospital for a period not exceeding ten days, may now extend the ten day period from time to time upon receiving favourable reports from those in charge of the patient; but the accumulated periods of absence shall not exceed six months. A new subsection (3) has been added which redrafts a portion of the former subsection (2) and limits the amount of money which the superintendent of a hospital may give the mental patient for transportation and other expenses to forty dollars.

This Act came into force on April 10th, 1952.

#### Municipal Hospitals Act Amendment Act (Chapter 60).

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

Section 2 is amended. Clause (b) is amended to correct the reference to the Minister administering special areas. Clause (g) at the present time provides that in the Act an improvement district includes a special area. By reason of the new subsection (1a) in section 73 there is an instance where an improvement district does not include a special area. Therefore, the words "Except where otherwise provided" are added to clause (g). Clause (h) is amended to include a special area within the definition of an included area. A new clause (n) is added defining "ward".

Section 3, subsection (2) is amended to refer to the correct Act.

Section 11 is amended by the addition of a new subsection (11). It provides that a board may issue a contract without charge to a person nominated to receive hospital benefits by a corporation or person under subsection (8) or (10) and the person so nominated shall then be deemed a contract holder under The Hospitals Act.

Section 31 is amended by the addition of a new subsection and by renumbering the existing subsection and correcting the cross references within the section. The new subsection authorizes the Minister to detach any defined area from a hospital district either before or after a vote has been taken to establish a district but before a debenture issue has been approved by the Board of Public Utility Commissioners, in a case where the Minister receives a resolution passed by the Board requesting the detaching.

Section 33 is amended for the purpose of clarifying its meaning.

A new section 60a has been added to the Act which concerns itself with the case where a county has been established under the provisions of The County Act. The new section provides that the following conditions prevail:

- (a) In the case where a hospital district lies either wholly or partly within a county, the county hospital committee may appoint members to the hospital board for that part of the hospital district within the county, pursuant to and subject to the provisions of The County Act.
- (b) Where the membership on the hospital board for the area of a hospital district lying wholly or partly within a county has been filled by persons who are elected as representatives of the area within the county under this Act, these elected members shall cease to be members upon the appointment by the hospital committee of members to represent the hospital district lying wholly or partly within a county.

#### ANNUAL REPORT, 1952

- (c) In the case where a hospital district lies partly within and partly without the boundaries of a county, the Minister shall allocate the number of members on the board to represent the area outside the county and shall define the number of wards outside the county and may re-allocate the area of any such a ward. To allocate the number of members on a hospital board in these circumstances the Minister is given absolute discretion but the Minister, when so allocating membership, shall have regard to what proportion of the hospital district outside the county bears to the entire area of the hospital district with respect to assessment, population, area and such other matters as are pertinent.
- (d) Where, however, the area lying outside a county and that area is less than that which would constitute a ward it shall not be entitled to membership on the board by the members appointed pursuant to clause (a) or elected to the board pursuant to subection (2).
- (e) In the case where a hospital district lies wholly or partly within a county and the hospital district contains two or more villages, the Minister may combine any two or more villages into one ward of the hospital district and the combined ward will be entitled to be represented on the board by one member who shall be elected.
- (f) In the case of a hospital district lying wholly or partly within the county, the hospital district containing a town, the boundaries of which are within the boundaries of the county, the town shall be represented on the board by one member who shall be elected. Subsection (2) of section 60a provides that where in subsection (1) provision is made for membership on the hospital board, other than by appointment by a county hospital committee, the method of procedure of electing the member shall be that provided by this Act.

Section 73 is amended. Subsection (1) advances the date for submission of the assessment to March 1st by reason of the fact that a new subsection (1a) in that section makes such advancement necessary. The new subsection (1a) is introduced into this section to provide that the proper officers of each of the included areas shall advise the hospital board of the amount of land, buildings and improvements which are assessable. Formerly the Act did not The new subsection also requires that the proper require this. officer of certain included areas advise the hospital board of the estimated nominal value of lands which are held under crop share lease under The Public Lands Act, and also in the case of special areas, advice is required as to the lands which are held under both crop share lease and grazing lease from the special areas board. Formerly lands held under lease were not included in the calculation of distribution of hospital requisition.

Section 75 is amended by advancing the date upon which requisitions are required to be forwarded in order to comply with the advancement of the date set out in section 73, subsection (1). Section 75 is also amended by providing that the hospital board shall distribute the amount of the requisitions among the various contributing units in the proportion that the values of the various units bear to the total amount of all requisitions issued. The amendment also provides that the tax levy shall be made only upon assessed property and that the balance of a requisition shall be raised out of the general revenue of the contributing unit which in effect means that the rentals received from leased land will go into general revenue and therefore will be available for use in paying the part of the requisition which is not secured by the tax levy on assessed property.

Section 76 is struck out as it is obsolete.

Section 80 is amended to correct a cross reference.

This Act came into force on April 10th, 1952, except as otherwise provided.

#### Nursing Service Act Amendment Act (Chapter 54).

This Act amends The Nursing Service Act, being chapter 45 of the Statutes of Alberta, 1950.

Section 8a is added to the Act. It provides that a municipal nurse and the municipality appointing her shall not be liable for an act of a preventative or emergent treatment nature done in good faith by the nurse in performing the duties required of her under the Act or the regulations.

This Act came into force on April 10th, 1952.

#### Public Health Act Amendment Act (Chapter 68).

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

Section 7, subsection (1) is amended by the addition of a new clause. The Provincial Board of Health, subject to the approval of the Lieutenant Governor in Council, may make and issue orders, rules and regulations in respect of the purification and treatment of public water supplies and the addition of a chemical to public water supplies. The effect of the new clause is to give the Board authority to regulate and issue orders with respect to the addition of a chemical to a public water supply.

This Act came into force on April 10th, 1952.

#### Solemnization of Marriage Act Amendment Act (Chapter 87).

This Act amends The Solemnization of Marriage Act, being chapter 303 of the Revised Statutes of Alberta, 1942.

Section 14a is amended by adding at the beginning of subsection (1) the words "Notwithstanding section 6, subsections (2), (3) and (4)". Section 14a provides that where either of the parties to an intended marriage has obtained a decree of divorce or a declaration of nullity of marriage they must wait thirty days before a new marriage license can be issued. Section 6, subsections (2), (3) and (4) provide for special cases where the license issuer and the Registrar-General or his deputy may issue a license immediately without waiting for any period prescribed by the Act. The effect of the amendment is to make it clear that subsections (2), (3) and (4) of section 6 do not apply in that a marriage license cannot be issued to a person within thirty days of the entry of his decree of divorce or nullity.

This Act came into force on April 10th, 1952.

#### ANNUAL REPORT, 1952

#### DEPARTMENT OF PUBLIC HEALTH

#### REVENUE AND EXPENDITURE FOR FISCAL YEAR ENDED MARCH 31st, 1953

	Salaries	Expenses	Revenue
601. Administration (General)	\$ 7,481,26	\$ 475.98	\$
602. Administration (General)	52,215.06	2,358.92	784.09
618. Administration (Postage)		4,086.66	
603. Hospitals Division, Administration and			
Grants	8,149.33	1,251,758.59	60.00
605. Communicable Diseases	9,038.78	76,847.92	
605. Sanitary Engineering	19,139.45	14,393.59	4,534.00
606. Municipal Nursing	8,703.83	137,355.27	76,666.29
607. Bureau of Vital Statistics	54,184.33	10,542.32	99,496.23
608. Municipal Hospitals	6,370.50	1,909.60	
609. Insulin		9,147.36	
610. Social Hygiene	50,954.20	18,972.35	34,830.78
622. Mental Health	23,904.43	12,515.69	
626. Public Health Laboratory		215,383.17	
631. Poliomyelitis		300,394.73	28
633. Cancer Clinics	76,964.23	389,087.74	255,212.63
637. Maternity Hospitalization	4,041.20	1,385,815.29	*********
638. Civil Service Nurse	3,137.09	865.64	
639. Public Health Education	6,130.50	3,713.03	
640. Division of Entomology	8,472.71	4,637.51	
641. Health Units	5,000.33	289,397.30	
643. Nursing Aides Act	5,703.20	458.87	1.099.00
644. Pensioners, Hospital and Medical			
Services	13,959.67	1.836.633.99	
645. Health Services, Extension Programme	250,418.76	449,329.29	700.178.94
646. Hospital Construction Grants		1,577,866.63	899.958.36
647. Grants to Local Authorities	15,732.12	1.475.946.51	0001000101
648. Grants for Public Health Services	10,100.10	55.717.70	
649. Alcoholics, Research and Treatment		1.339.71	
S.W. 49 Hospital Finance Fact-Finding		1,000.11	
Committee		12,168.75	
		10,100.10	
Institu		THE THE AVERAGE	
604-1. Division of T.B. Control 604-2. Central Alberta Sanatorium.	28,480.84	114,047.95	
	465,227.85	245,009.74	959 990 68
604-3. Aberhart Memorial Sanatorium.	405,221.05	245,005.14	252,330.65
Edmonton	490 500 40	193,333.93	155 944 75
Edmonton	430,588.49	190,000.90	155,244.75
613-2. Prov. Mental Institute, Oliver	767,946,43	344,109,40	221.081.28
612-2. Prov. Training School, Red Deer	363,174.65	153,826.66	99.704.73
612-3. ]	303,171.03	100,020.00	33,104.13
613-1. Prov. Mental Hospital, Ponoka	903,512.30	460,451.09	315,944.66
612-4. Prov. Auxiliary Mental Hospital,			the rest of the second
	43.931.76	05 000 00	17 000 51
612-5. Prov. Auxiliary Mental Hospital	43,331.70	35,260.00	17,829.51
	00 105 50	00 000 00	17 040 00
Raymond	60,135.53	28,836.62	17,848.20
	\$3,692,698.83	\$11,113,995.50	\$ 3,152,804.09
Total Expenditure Public Health Department Less: Public Health Revenue			\$14,806,694.33 3,152,804.09

#### Vital Statistics.

Vital Statistics registered during the year are as follows:

Births	29,105
Marriages	9,514
Deaths	7,345

The population of the Province for 1952 has been estimated by the Dominion Bureau of Statistics as 970,000. The census taken on June 1, 1951 showed the population to be 939,501 at that time.

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 1947 to 1952:

Year	No. of	Birth	No. of	Marriage	No. of	Death
	Births	Rate	Marriages	Rate	Deaths	Rate
1947	$24,631 \\ 24,075$	30.00	8,797	10.70	6,543	8.00
1948		28.50	8,844	10.50	6,987	8.30
1949	24,935	28.70	9,037	10.40	7,083	8.20
1950	25,625	28.70	9,294	10.40	6,856	7.70
1951	27,003	28.70	9,305	9.90	7,167	7.60
1952	29,105	30.00	9,514	9.80	7,345	7.60

The birth rate for 1952 is 30.0 as compared with 28.7 for the previous year. The marriage rate for 1952 is 9.8 as compared with 9.9 for 1951. The death rate for 1952 is 7.6 the same rate as for the previous year.

The deaths of 7,345 persons were registered in Alberta in 1952. Of this number, 4,561 were males and 2,784 females. There were 178 more deaths registered than in the previous year, but the rate remained unchanged. There were 298 deaths from Pneumonia in 1952, a decrease of 4 as compared with the previous year, and 47 deaths from Influenza, a decrease of 67 as compared with the previous year. Deaths from Pulmonary Tuberculosis numbered 91 in 1952 as compared with 119 for the previous year. The chief cause of death is heart disease, 2,247 deaths having been registered as due to this cause, giving a rate of 231.6 per 100,000 population, as compared with 224.8, the rate for the previous year. Deaths from cancer registered in 1952 number 1,072, a rate of 110.5 per 100,000 population, as compared with 1,065 deaths from this cause and a rate of 113.4 in 1951. Deaths from violence, excluding suicides and homicides, numbered 589 as compared with 563 in 1951. The respective rates were 60.7 and 60.0.

The infantile mortality rate for 1952 is 30, as compared with 33 for the previous year. Special reference to the infantile mortality rate will be found in another section of this report.

The maternal mortality rate for 1952 is 0.5, as compared with 0.6 for 1951. More detailed reference to the maternal mortality rate will be found in another section of this report.

Eight deaths were reported as due to Whooping Cough in 1952, as compared with 7 deaths from this cause in 1951. A remarkable reduction in the Whooping Cough death rate has occurred in recent years, largely due to the immunization of children against this serious disease. It is important that children, and more especially those under two years of age, be immunized against Whooping Cough. The Department provides the vaccine for this purpose free of charge on the request of physicians and local health authorities.

#### General Health Conditions.

There were 3,307 cases of Measles with 7 deaths, and 1,028 cases of Rubella with no deaths reported in 1952. More detailed information concerning Measles and Rubella will be found in the report of the Communicable Disease Division.

There were 11 cases of Diphtheria with no deaths reported in 1952, as compared with 2 cases and 1 death during the previous year. No Diphtheria carriers were reported in the investigation of the source of Diphtheria cases.

There have been no cases of Smallpox in the Province since 1943. As pointed out in previous reports, there are many areas in the province in which parents have not taken advantage of the opportunity to have their children vaccinated against Smallpox. Should the disease appear in such communities, it might spread with great rapidity, and if the outbreak should be of the malignant type, the results would be tragic.

In 1952, 3,767 cases of Scarlet Fever and 2 deaths from this cause were reported, as compared with 2,304 cases and 7 deaths in 1951. In many cases of this disease, the rash which follows a slight

sore throat is so transient that it is never seen by a physician. These are the types of cases that are largely responsible for the spread of infection.

There were 16 cases of Typhoid Fever and 9 cases of Paratyphoid Fever reported in 1952, as compared with 37 cases of Typhoid and 3 cases of Paratyphoid Fever reported in 1951. There were 2 deaths reported from Typhoid Fever in 1952. Constant vigilance in the supervision and control of local water, milk and food supplies is essential for the protection of the community.

#### Poliomyelitis.

In 1952 we had the largest epidemic recorded in the Province. Altogether 774 cases were reported with 81 deaths. In July the disease appeared in epidemic form, the peak being towards the end of August and falling off gradually after that. Benefits were extended under the Poliomyelitis Sufferer's Act to cover cases of paralysis during the 14-day isolation period. Also as the University Hospital, Edmonton, and the Jr. Red Cross Hospital, Calgary, did not have the capacity required to handle the cases, arrangements were made for treatment to be given at additional hospitals. Under the provisions made for free treatment of persons suffering from paralysis due to poliomyelitis, 189 patients were admitted to the University Hospital, Edmonton, 137 to the Red Cross Crippled Children's Hospital, Calgary, and 22 to the General Hospital, Edmonton.

Difficulty was encountered in supplying sufficient respirators at the height of the epidemic although all requests were met. Patients needing treatment in a respirator were usually taken to Edmonton, Calgary or Lethbridge. Respirators held by small hospitals were sometimes found to be unusable when required. A number of the more serviceable ones were brought into the cities to supplement those in use there. The maximum number in use at any one time was 12. A more detailed report of Poliomyelitis will be found in the report of the Communicable Disease Division.

#### Tuberculosis.

During 1952, 125 deaths were reported from tuberculosis (all forms) as compared with 146 deaths in 1951. Of these 125 deaths, 52 were deaths of Indians. The death rate for all forms of tuberculosis for 1952 (including Indians) is 12.9, excluding deaths of Indians the death rate is 7.5 (per 100,000 population) as compared with 8.3 for the previous year.

#### Rabies.

Rabies, though common in the United States has seldom been recorded in Canada. In July an epidemic in the wild life population, chiefly in foxes, was reported from Fort Fitzgerald. By October it was widespread in the northern half of the Province, in the next two or three months it occurred in animals in many other parts of the Province extending down to the Southern boundary. It was reported as occurring in almost every species of animal. A Central Rabies Control Committee was set up which held regular meetings. A bulletin of information was prepared for the public. In the northern part of the Province dogs were quarantined and their movements restricted. A wide belt was laid out for the destruction of wild animals. For human protection, information on first aid was widely disseminated. Supplies of vaccine were obtained. In 1952 about 120 persons suspected of being infected were given Pasteur treatment. So far the policy of containing the disease and blocking its spread has appeared successful. It is also pleasing to report that no human cases have occurred. A more detailed report on Rabies will be found in the report of the Communicable Disease Division.

#### Entomology.

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

In connection with Rocky Mountain Spotted Fever survey work, 1058 host and drag ticks were recovered in 58 collections. Of these, 321 were host ticks taken from small wild animals and 737 were taken by drag.

There were 682 persons vaccinated against Rocky Mountain Spotted Fever in 1952, 294 at Manyberries; 266 at Redcliff; 80 at Thelma-Elkwater; and 42 at Medicine Hat.

Further details are provided in the report of the Division of Entomology.

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

Diseases of the heart accounted for 2,247 deaths in 1952, as compared with 2,113 in 1951. These 2,247 deaths represent 30.6 per cent of the total deaths from all causes reported for the year, giving a death rate of 231.6 per 100,000 population, as compared with 224.8 in 1951.

Diseases of the arteries were reported as the cause of 136 deaths in 1952, as compared with 129 in 1951.

#### Cancer.

In 1952, 1,072 deaths were registered as due to Cancer, as compared with 1,065 during the previous year. The death rate from Cancer in 1952 was 110.5 (per 100,000 population) as compared with 113.4 in 1951. Cancer accounted for 14.6 per cent of the total deaths registered in the Province in 1952. Early recognition of cancer and prompt and effective treatment by competent physicians, would save many lives. "Early" is the word in Cancer.

The Diagnostic Clinics in Edmonton and Calgary were busy throughout the year, and the following is a brief summary of the work done by all Diagnostic Clinics in 1952:

#### NUMBER OF PATIENTS EXAMINED

beens Based Printeenand Printeenand	New	Follow-up	Total
Edmonton Calgary Lethbridge	2,435 1,328 447	2.945 1,802 334	5,380 3,130 781
Totals	4,210	5,081	9,291

It will be noted that the total number of new patients seen in 1952 is 4,210 as compared with 4,324 in 1951. Of these 4,210, 2,672 or 63 per cent were found to be non-malignant.

Statistical information concerning diagnosis and treatment will be found in the report of the Cancer Clinics.

#### Deaths Due to Violence.

Deaths reported as due to violence (excluding suicides and homicides) numbered 589 in 1952, as compared with 563 in 1951, representing 8.5 per cent of the total deaths registered in the province for the year and giving a death rate of 60.7 (per 100,000 population), as compared with 60.0 in 1951.

There were 84 suicides and 7 homicides in 1952, as compared with 86 and 5 respectively in 1951.

Highway accidents accounted for 262 deaths, of which 196 were due to motor vehicle accidents. It is apparent from these statistics that highway accidents constitute a major cause of death. When one takes into account the serious injuries suffered by many other persons involved in highway accidents and the great expense incurred in the provision of hospital and medical care, this problem is one of great importance from the standpoint of public health.

There were 49 deaths reported from drowning in 1952, as compared with 34 in 1951. The need for continued education in water safety is indicated.

As in previous years, several deaths have occurred as a result of the destruction of homes by fire, where, in a great many cases, parents were absent from the home and small children were left with no responsible person in charge. It is evident that there is still continued need for education.

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

Homicides Motor vehicle accidents Other transport accidents Accidental poisoning	7 196 66 20	Accidents caused by machinery Accidents caused by fire and explosion Accidents caused by firearms Accidental Drowning All other accidental causes	30 14 49
Accidental falls	90	Total	690

#### Infantile Mortality.

There were 879 deaths under one year of age registered in 1952, as compared with 889 such deaths in 1951, a decrease of 10 deaths. The infantile mortality for 1952 is 30 as compared with 33 for 1951.

Of the 879 deaths of children under one year of age in 1952, 537 or 61 per cent occurred within the first month of life, of which 542 occurred within the first week and 253 on the first day of life. In the continued expansion of our preventive health programme, and through the organization of additional full-time district health units now in progress, the solution of this problem will be found. In districts which have had the advantage of the service provided by full-time health units, for a number of years it has been found that the infantile death rate gradually falls to approximately the same level as in cities of the province with full-time public health services. An analysis of 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 1952 is 0.5 as compared with 0.6 in 1951. The following are the chief causes of maternal deaths registered in 1952:

	of Pregnancy	6
Delivery with Delivery with	out Complication Specified Complication of the Puerperium	1 1 1
Total		15

The progressive reduction in the maternal death rate in recent years is most gratifying. We can look forward with every confidence to further reductions in our maternal and infant death rates as we go forward with our preventive health program. Of the births registered in the province in 1952, 94.6 per cent occurred in approved hospitals.

#### Local Health Services.

Under the Public Health Act, public health is made the responsibility of local government agencies. However outside the two major cities, no local government authority in the province is large enough to maintain its own Public Health Nurse. Grouping the local government agencies into health units makes it possible for the group to receive the benefit of a well organized service, and the receipt by the Unit of a government grant, taking care of the major part of the cost, brings an efficient public health service within the reach of everyone in the province with the exception of a few living in the most sparsely settled areas.

In addition, the Health Unit acts as the serum centre storing and distributing the sera and vaccines supplied by the Provincial Health Department. They also make it possible for their residents to receive the full benefit of health services provided by the Provincial Government such as the mental health and tuberculosis services.

During 1952 additions were made to most of the eight units established in 1951, and a further six units were established. Listed below are the units so far established:

1951 or Previously	Formed in 1952
Drumheller	Athabasca
Red Deer	Medicine Hat
Sturgeon	Bow Valley
Minburn-Vermilion	Grande Prairie
Foothills	Vegreville
Mountain View	Stony Plain-Lac Ste. Anne
Alberta East Central	
Leduc-Strathcona	

The total poulation served by the units in 1952 was approximately 380,000.

#### 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. More than 100 publications issued by this Department and other organizations, are distributed by this Division.

The health film library was extended in 1952 by the addition of 15 new films, bringing the total films in the library up to 233. Six filmstrips were purchased during the year, bringing the total of these up to 75. Carefully selected health films are among the most valuable media we have in health education. It is estimated that the films loaned by the Health Education Division in 1952 were seen by approximately 80,000 people.

Health education occupies an important place in the modern public health program. There is an ever-increasing demand for health literature, films, radio talks and lectures, and almost invariably, the audience is a receptive one. 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 Services.

The work of the nutrition service has been carried on along much the same lines as in previous years. During the year, the bulletin "Institutional Supper Menus" continued to be prepared and distributed and contained, in addition to menus and recipes, information on food buying practices and food preparation.

During the year, three requests for assistance in obtaining the services of dietitians were received and information regarding suitable applicants was given.

Advice has been given on problems of budgets, everyday meal planning, marketing, serving, eating habits, food fads and low-cost meal planning. Additional consultation service was provided to local public health personnel through advisory articles in the publication "Nutrition News".

Organization and operation of school lunch programs and adequate lunches from home were discussed with teachers and parents. Food models, posters, films and other teaching materials were made available for teachers. A large number of inquiries from homemakers regarding food problems were answered weekly.

This is an important public health service in which there is evidenced a greatly increasing public interest.

More detailed information concerning nutrition services will be found in the report of the Public Health Nutritionist.

#### Public Health Nursing.

During 1952 the following nursing services came under the supervision of this division:

Municipal Nurses in Improvement Districts Municipal Nurses in Municipal Districts Well Baby Clinics	8	nurses nurses nurses	
One-Nurse Health Units		nurses	
Total	43	nurses	

Because of the turn-over a total of 57 nurses occupied these positions.

The Bow Island Municipal Nursing service was closed on March 31, 1952 and the area included in the Medicine Hat Health Unit.

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

#### Social Hygiene.

We take this opportunity to pay a last tribute to Dr. Harold Orr whose death in December of 1952 ended a long and inspiring chapter in the field of Venereal Disease Control in the Province of Alberta. Dr. Orr, internationally known as an authority on venereal disease, was instrumental in the organization of the Division of Social Hygiene in 1920 and through the years, under his directorship, venereal disease in this province has shown a steady decline. Clinics have continued to operate in Edmonton, Calgary and Lethbridge, but it was found advisable during the last year to discontinue the Medicine Hat and McLennan Clinics owing to the decline in the number of cases in these districts. In their place the Mobile Clinic has done excellent work, and it is felt that this type of clinic will be more advantageous to the province as a whole.

Pre-marital blood testing continues to be a large and ever increasing part of the duties of this Division. By this means we are still discovering unsuspected cases of venereal disease.

Approximately 83 per cent of the alleged sources of venereal disease infection in Alberta were found, and where necessary, brought under treatment.

The total cases reported in Alberta in 1952, are as follows: Syphilis 145, Gonorrhoea 1,696, making a total of 1,841. Of these, 78 cases of Syphilis and 440 of Gonorrhoea were reported by physicians, and 1 case of Syphilis and 186 of Gonorrhoea were reported by the Armed Forces.

Information in more detail concerning the various activities of this Division is contained in the report of the Division.

#### Provincial Laboratory.

During 1952 the Provincial Laboratory of Public Health, Edmonton. and the Provincial Laboratory of Public Health (Southern Branch), Calgary carried out 252,780 examinations, which is an increase of 39,608 examinations or 18%. The estimated value of the work done by both Laboratories in 1952, on the basis of minimum charges only for the various examinations performed is \$309,609.50.

The work of the Provincial Laboratories of Public Health includes examinations of water, ice, sewage, milk, food, various examinations in connection with communicable disease control, bacteriological, serological and pathological examinations of specimens submitted by physicians, local health authorities and hospitals, various medico-legal examinations and many other examinations too numerous to detail.

The Provincial Laboratories serve as centres for the distribution of vaccines and sera which are provided by the Department without charge for the prevention and treatment of various communicable diseases.

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 services is of vital importance in safeguarding the public health. We have been most fortunate since the inception of this service in 1907, in the high standard maintained by the staff.

Detailed information concerning the work of these divisions, will be found in the report of the Provincial Laboratories.

#### Sanitary Engineering.

During 1952 the construction of new waterworks and sewerage systems continued at a high rate as more towns and villages took advantage of Provincial Government financing. Eighteen municipalities completed the construction of new systems and twenty-two are planning the installation of these utilities during 1953. This rapid expansion of sanitary facilities represents a significant rise in the standards of living throughout the Province. This expansion necessitates an increase in the amount of supervision required if proper maintenance and operation procedures and the necessary public health precautions are to be observed.

In August of 1952, Dr. D. R. Stanley, Director, left the Division as did Mr. J. A. Beveridge, A/Director. Mr. W. A. Dexter was appointed Director and Mr. H. L. Hogge, assistant.

The Stream Sanitation Section of this Division completed a pollution survey of the Bow River and its Tributaries, and a report was prepared and circulated to all concerned. Next year a stream pollution survey is planned for the South Saskatchewan drainage basin.

During the tourist season, tourist camps were inspected for sanitary conditions and classified in co-operation with the Department of Industries and Labour. Approximately 1,700 cabins in 193 tourist camps were licensed during the year and inspections were made and advice given to persons building or planning new tourist camps.

A total of 1,526 inspections were made by the Health Inspectors of the Department in 1952, and the necessary action taken or assistance extended to local health authorities to deal with unsanitary conditions found.

The marked increase in the number of plumbing installations referred to in previous reports has continued at an even more accelerated rate in 1952, and is shown in the following table:

New Construction, Total No. Fixtures	49,893
Reconstruction and Extensions	4,898
Permits granted	8,978
Charges made	\$46,650.75

During this year an Order-in-Council was passed making it mandatory for all urban municipalities with a population of 2,000 or more, or those having a water and/or sewerage system to appoint their own plumbing inspector. A two week course was given to familiarize the newly appointed plumbing inspectors with the regulations as well as with proper installation practices, etc.

The Town of Morinville and the Village of Grimshaw passed compulsory pasteurization by-laws during the year, increasing the total number of cities, towns and villages with such by-laws to 32 at the year's end. A new pasteurization plant was opened, while two discontinued operation, thus reducing the total number of plants supplying pasteurized milk to the public to 73 at the year's end. It cannot be too strongly emphasized to all municipal authorities the responsibility resting on them for the supervision and control of public milk supplies. Permitting the sale of unsafe milk, will sooner or later bring a serious outbreak of milk-borne disease.

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

#### Division of Hospital and Medical Services.

In 1952 there were 99 approved hospitals in the province, as compared with 101 in 1951. This decrease is due to the closing of the General Hospital at Cadomin and the union of the Lethbridge Isolation Hospital with the Galt Hospital. There were 12 private hospitals licensed to operate under the Private Hospitals Act.

On the basis of bed capacity (including bassinets), the total number of hospital beds in 1952 is 6,774, and the complement 7,324. This represents 6.9 beds per 1,000 including bassinets, and 5.9 beds per 1,000, excluding bassinets.

The total patient days in 1952 are as follows:

Adults and children	$1,614,151 \\ 231,292$
Total	1,845,443

94.6 per cent of the births registered in Alberta in 1952 occurred in approved hospitals.

Construction of the following new hospital was started in 1952, Coaldale Community, Bed Capacity—13.

Construction of additions to the following hospitals was undertaken in 1952:

Name of Hospital	Additional Beds (Excluding Bassinets)
Brooks Municipal	33
Salvation Army Grace, Calgary	15
Drumheller Municipal	
Elk Point Municipal	
Hanna Municipal	
Ponoka Municipal	
Provost Municipal	13
Rocky Mt. House Municipal	13
Viking Municipal	21

There were 51 municipal hospitals in operation in 1952, with a bed capacity of 1,490 beds and 388 bassinets.

The daily average number of patients in all approved hospitals in 1952 was 5,042. The average stay in hospital 8.9 days. The average stay of newborn 8.5 days.

The shortage of nurses to which reference has been made in reports of previous years was still evident in 1952, particularly in the smaller hospitals.

Three hundred and eighty-three nurses graduated from the 10 Schools of Nursing in Alberta in 1952.

One hundred and eighty-eight nursing aides were trained at the School for Nursing Aides. Since this School was opened in January 1946, 960 nursing aides have been trained. The nursing aides carry on their work under the supervision of graduate nurses and have given excellent service in the various hospitals in which they have been placed.

The cost of hospital construction and equipment is still rising as is the cost of practically all supplies used by hospitals. Thus we have the ever-increasing cost of hospitalization making hospital administration more difficult, and many problems for the public who require hospital service. The average cost per patient per day for all hospitals is \$10.20 in 1952, as compared with \$9.27 in 1951. It is significant that 52.6 per cent of the average cost per patient per day is due to salaries and wages and 31.1 per cent to supplies.

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

#### Cerebral Palsy Clinics.

The Cerebral Palsy Clinic established in 1950 in temporary quarters moved in 1952 to the new Clinic building provided by the Government at 115th Street and 74th Avenue. A similar clinic is now operating in Calgary.

On the staff is a physiotherapist, who gives training and treatment to release the tension in spastic muscles and also correcting any deformity; a Speech Therapist, to help them talk; an Occupational Therapist, who assists in muscle re-education and teaching handicrafts; and a teacher, who attempts to keep the child up on the ordinary school work, never forgetting that the primary function of the clinic is to re-educate the disabled muscles.

The parents are also remembered and special classes are operated periodically so that they may learn to carry on with certain of the procedures when the child goes home. Ordinarily a child attends the clinic for three months and then is home for three months until the best results have been obtained.

Many of these children are so disabled that they require special splints. Each splint is made specifically to fit a particular child in a special brace shop maintained at the Clinic.

The problems of recreation, transportation and boarding accommodation is handled by voluntary societies, mainly the Kiwanis Club, Associated Commercial Travellers and by the Calgary Active Club.

A total of 361 patients have been examined since the service started although not all of them were suitable for treatment.

More detailed information concerning the work of the Cerebral Palsy Clinic will be found in their report.

#### Canadian Red Cross Blood Transfusion Service.

The number of whole blood transfusions administered during 1952 as matched and 'bank' blood amount to  $27,767\frac{1}{2}$  five hundred c.c bottles, while the total number of patients receiving these transfusions amounted to 16,869. The total number of patients who received whole blood in 1951 was 15,630, so that there was an 8% increase in the number of hospital recipients. In 1952, 45,150 blood donations were received, an increase of  $12\frac{1}{2}\%$  on the previous year. Nine hundred and fifty-two patients received 1,768 bottles of plasma. From the Central Depot in Edmonton and the Sub Depot in Calgary, this service has been made available free of charge throughout the Province.

With the new building provided by the Province in Calgary and the new one in the course of construction in Edmonton, we look forward to a better donor response in 1953.

In the mobile clinics 15,413 bottles were collected.

#### Division of Tuberculosis Control.

The total number of patients admitted to all tuberculosis institutions in 1952 was 629, and the total number of patients treated during the year was 1,082. The total institutional patient days was 194,732 including 3,496 patient days paid for in other provinces under the reciprocal agreements in effect.

During the year, diagnostic examinations totalled 151,674, of which 151,674 were accounted for by the mobile x-ray unit.

Seven hundred and thirty-five new cases of active and inactive pulmonary tuberculosis (excluding Indians) were found in 1952. Of these, 355 or 48 per cent were considered minimal, 160 or 21 per cent moderately advanced, 58 or 8 per cent far advanced, 81 or 11 per cent primary, and 22 or 3 per cent tuberculous pleurisy with effusion.

During 1952 a further reduction in the death rate among Alberta residents has occurred and when official data is available it is expected that the figure will be considerably below the 1951 rate of 15.5 per 100,000. Although the death rate is continuing to fall, more cases of disease were admitted to sanatorium than in 1951. The health education programmes of the Departments of Health and Education and the Alberta Tuberculosis Association are playing an important part in bringing correct information on the subject to thousands of people.

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

#### Division of Mental Health.

On January 1st, 1952, there were 3,645 patients in all mental institutions, and December 31st, 3,791, an increase of 146 patients.

There were 694 patients admitted to the Provincial Mental Hospital, Ponoka, in 1952 (349 male and 345 female). Four hundred and fifty-eight patients were discharged during the year (228 male and 230 female). During the year, 75 deaths occurred (56 male and 19 female). There were 1,543 patients in hospital on December 31st, (910 male and 633 female).

#### Provincial Mental Hospital, Ponoka.

The teaching program for nurses was essentially unchanged. There were three qualified Instructors, and they received assistance from the Professional Personnel of the Hospital. Instruction was given to 21 students in the four year course in General and Psychiatric Nursing and to 32 Male Attendants in the three year Psychiatric Course. In addition, 32 affiliating student nurses from The Archer Memorial, Galt, and Medicine Hat General Hospitals received instruction. Twelve nurses completed the four year course in General and Psychiatric Nursing and 2 men graduated in Psychiatric Nursing. Twelve registered nurses received their diplomas in Psychiatric Nursing and 3 others were enrolled in the fall class. Ward Aides were given a short indoctrination course, suitable to the needs of the patients. Public Health Nursing students from the University of Alberta also spent short periods at the Hospital receiving instruction.

The new male dormitory providing accommodation for 96 patients was opened on November 15th, 1952. The construction of a second and similar building was commenced.

#### Provincial Mental Institute, Oliver.

The Tuberculosis Dormitory was completed and opened on the 1st of July. Transfer of patients from the Provincial Mental Hospital, Ponoka, and the Provincial Training School, Red Deer, was completed by the end of August. Construction of a new administration building was commenced, and it is well on the way to being completed.

#### Provincial Auxiliary Mental Hospitals at Raymond and Claresholm.

There were no noteworthy changes during the year insofar as the administration of the Auxiliary Mental Hospitals at Claresholm and Raymond were concerned.

#### Provincial Training School for Mental Defectives, Red Deer.

The work of the Provincial Training School for Mental Defectives was carried on along much the same lines as in previous years. Two new wards are nearing completion and should be ready for occupancy early in 1953 and a third ward is well advanced in construction and may possibly be ready by the end of 1953. A new greenhouse was completed this year.

#### Rosehaven, Camrose.

On January 1st, 1952, the resident poulation numbered 206, (111 men and 95 women) and the total number in residence on December 31st, 1952 was 249 (148 men and 101 women). Admissions numbered 105, discharges 62. Admissions were sent from mental hospitals when beds were available, the number increasing this year due to the opening of a 34-bed unit.

#### Guidance Clinics.

The services of the Provincial Guidance Clinics were continued throughout the year. Clinics were held at some 50 to 60 key points in the Province.

During the year, 1,289 new cases were presented at the various Guidance Clinics. Since the inception of this service in 1929, 13,110 patients have passed through the Guidance Clinics.

#### Eugenics Board.

The work of the Eugenics Board is carried on under the authority of the Sexual Sterilization Act. Five meetings of the Board were held during the year. A total of 58 cases was presented for the Board's consideration. Twenty-four operations (male 6—female 18) were performed during the year. The total number of cases operated upon to December 31st, 1952, was 1,323 (518 males and 805 females). As in previous years, all operations were performed at the Provincial Mental Hospital, Ponoka.

The Department again wishes to express to the members of the Eugenics Board, the honourary surgeons and the staff of our various Mental Institutions and Guidance Clinics, sincere appreciation of the fine services rendered by each and all in the discharge of their responsibilities.

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

#### Board of Visitors.

The Board of Visitors in constituted as follows: Dr. J. M. Mac-Eachern, Chairman; Dr. R. Kenneth Thomson, Dr. E. R. Selby and Mrs. R. B. Gunn. During the months of September, October and November 1952, the Board visited the various institutions coming under the administration of the Department, as well as the Provincial Guidance Clinics, and a detailed report on all these institutions and the Guidance Clinics has been submitted by the Board.

The Department desires to express to the Board its sincere appreciation of the excellent service it has rendered.

Respectfully submitted,

A. SOMERVILLE, B.A., M.D., D.P.H., Deputy Minister of Health.

### Communicable Diseases

(N. BASTER, M.D., B.C.L., D.P.M., Director)

The work of the Division falls under two headings:

- 1. Communicable Disease Control.
- 2. Supervision of Health Units.

#### 1. COMMUNICABLE DISEASES

This Division during the year continued to supervise generally the control of Communicable Diseases throughout the Province. Direct control is by the Local Health Authorities in organized areas, and these Authorities were advised where necessary in the action to be taken. In unorganized areas the Division acted directly. A consultation service was also provided to physicians in cases of infectious diseases.

The Division acts as the recording centre for Communicable Diseases, and every Local Health Authority sends in weekly returns of the Communicable Diseases in its area. The Division prepares a weekly statement of Communicable Diseases in the Province. Copies of this are circulated to all Local Health Authorities, neighboring Provinces, and States. These agencies outside the Province reciprocate, and the information received is of great value. From these statistics, it is possible to forecast trends in the incidences of the various diseases, and this assists in dealing with them, and the statistics also are of assistance in assessing the value of the various measures taken to check them.

#### Distribution of Biological Products.

The Communicable Disease Division is in charge of the distribution of vaccines, and other materials used for immunization.

Immunization is being carried out through local health departments as a routine against Diphtheria, Whooping Cough, Small Pox, and Tetanus. It is carried out to protect special groups at risk against Typhoid, and Paratyphoid, Rocky Mountain Spotted Fever, Rabies, and Measles. In addition, during the year, a large scale trial was given to the use of gamma globulin for the prevention of the paralysis following poliomyelitis. There are good reports as to the preparation of a vaccine having a much more general application, and giving fairly prolonged immunity. The extent of this programme showed a considerable increase during the year, and the cost was about \$70,000.00. The material is supplied by the Department at no cost to the recipients. It is distributed by the Provincial Laboratories, and through about thirty local centres throughout the Province, so that it is readily available.

#### Poliomyelitis Sufferers.

Under the Poliomyelitis Sufferers Act, free Hospital, medical and surgical care is afforded patients suffering from Poliomyelitis. On the termination of the acute infectious stage, patients may be admitted to either the University Hospital, Edmonton; or the Red Cross Crippled Children's Hospital, in Calgary, on the approval of applications made by the attending physicians to the Department. During 1952, the largest epidemic of this disease ever suffered by the Province occurred and threw a heavy strain on the provincial facilities.

#### Regulations.

A complete revision of the Regulations for the Control of Communicable Diseases was completed during the year.

The new Regulations were formulated with a view to improving reporting, and the list of notifiable diseases was greatly reduced. Efforts are being made to simplify the Regulations by the various Provinces, and this matter was discussed at some length with Dr. Lossing of the Division of Epidemiology of the Federal Health Department. Our Regulations pertaining to specific diseases were made to conform as far as is practical with those approved by the World Health Organization. The Regulations dealing with general measures of control and the public health organization must, as far as we can see, remain peculiar to each province until the system of local health organization becomes uniform for the whole country.

As was expected, consequent on the establishment of more local health authorities in the form of Health Units notifications of cases of infectious disease showed an increase due purely to improved notification, and therefore the figures obtained are difficult to interpret. As indicated in the last report it will be several years before this situation will be clarified. However, the introduction of new Regulations designed to improve notification at the same time that the new health unit programme is nearing completion should provide more worthwhile figures in the coming years.

Two epidemics of special significance occurred during 1952, one affecting the human population, and one the animal. There was the highest number of cases of poliomyelitis ever recorded in the Province, and a most severe outbreak of rabies occurred in the animal population.

#### Rabies.

Rabies, although common in the United States has seldom been recorded in Canada. Cases were reported from the North periodically from 1946 onwards.

In July 1952 an epidemic of rabies in the wild life population, chiefly in foxes, was reported from Fort Fitzgerald. During the next six months, the disease spread rapidly southwards. By October it was widely scattered throughout the northern half of the Province, in the next two or three months it occurred in animals in other parts of the Province extending down to the Southern boundary. It was reported as occurring in almost every species of animal found in the Province, but basically it was a disease of the wild fox population. The years 1952 and 1953 were peak years in the wild fox population cycle, and this combined with the absence of any market for fox pelts which has led to absence of trapping produced a record for population in the Province. This undoubtedly formed the basis of the epizootic, and the disease spread widely in foxes, who in turn infected many other animals. In the sparsely settled north it was impossible to check the spread of the disease, and much economic loss ensued as cattle and swine in the scattered

farms were infected. The disease hit very hard in the Fort Vermilion district.

In order to control the disease, the following steps were taken:

- 1. A committee was set up, the Central Rabies Control Committee. On it were represented the Veterinary Services, both Federal and Provincial, the Public Health Service, the Lands and Forests Department of the Provincial Government, the R.C.M.P., and practising Veterinarians. This committee met frequently, and regularly, and the office of its Chairman, Dr. E. E. Ballantyne of the Department of Agriculture served as the clearing house for information.
- 2. A bulletin of information was prepared, and distributed to all interested, particularly to veterinarians, police, doctors, local health authorities, etc. The public at large were advised as to what to do when suspecting the disease in wild animals, and as to first aid after exposure to infection. They were told to report to either the police, the local veterinary authority, the local health authority, the local forest ranger's post, or their local doctor. These groups were well informed as to the action they should take.
- 3. The Province became a quarantined area for dogs, and penning and tethering was required, with an extensive vaccination programe. Their movement in and out of the area was restricted.
- 4. In a belt five to ten miles wide drawn to separate the north from the southern (settled) part of the Province, extensive destruction of wild animals was carried out by a sizable group of trappers hired by the Department of Lands and Forests. In addition intensive destruction of wild animals was carried out in areas surrounding the small settlements such as Fort Vermilion and Wabasca in the North. The idea of this was to limit the number of animals moving out of the north into the more settled areas, and in the case of the northern settlements to reduce the density of animals in those areas. The programme was under the supervision of Mr. E. S. Huestes of the Lands and Forests Department, and it was most energetically carried out, and to its success must be attributed the small incidence of the disease in the wild and domestic animals in the settled areas of the Province.
- 5. Co-operation between the Provincial and Federal Authorities gave a veterinary service covering the whole Province, and providing for the collection, transportation, and examination of specimens, the supervision of animals and a diagnostic service. In all parts of this Province, the services of veterinarians were available to investigate any reported rabies, and at each point where a veterinarian was located, a supply of containers for specimens was kept; these were sent to the Dominion Experimental Station at Lethbridge where they were examined by direct smear and mouse inoculation. In view of the very large number of specimens collected, a priority was given specimens where humans were involved, second to specimens from new species and from areas in which

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the disease had not been previously reported, and the balance were examined as time permitted.

6. For human protection, information on first aid was widely disseminated. Doctors and health authorities were advised as to the indications for vaccine treatment. A supply of vaccine was obtained and was kept at the Provincial Laboratory in Edmonton except for a small depot at the Peace River Hospital. It is issued by the Laboratory upon receipt of instruction from the Department of Public Health.

The reasons for controlling the issue of vaccine are:

- As the period of warranty is short, and the demand small, to dissiminate the vaccine to many points would result in almost all of it having become out dated before it was required.
- 2. The requests made to this office included an account of the circumstances, and guidance was given on the advisability of using the vaccine. In addition, this Division informed the Veterinary Branch of the circumstances ensuring that the animal aspect was completely investigated, and whatever action necessary taken.

During 1952 about 120 persons suspected of being infected were given vaccine treatment. This treatment was cautiously advised, and the greatest reliance was placed on adequate first aid consisting of extensive irrigation and washing.

So far the policy of containing the disease and blocking its spread to the settled areas has appeared very successful, and there does not seem to have been any extensive invasion of the settled areas. It is also pleasing to report that no human cases have occurred.

#### Poliomyelitis.

This year saw the largest epidemic recorded in the Province. Altogether 774 cases were recorded with 81 deaths. No cases were recorded in January, February, and March, and only one in April, and one in May. In June, 9 cases were reported. In July the disease appeared in epidemic form with 107 cases recorded that month. In August 247 cases were recorded, falling to 183 in September, and 155 in October. 38 were reported in November, and 33 in December. The incidence showed much the same course as in previous years, the peak being towards the end of August, and the incidence rising more rapidly to the peak than the fall after the peak. August and September were again the two worst months. This has been the same for many years.

In view of the high incidence in July, a meeting of the Provincial Board of Health was called which the Medical Officers of Health of the cities attended. As a result of this, advertisements were inserted in all the Provincial newspapers giving information and advice to all the citizens at large. In addition, it was proposed to extend the benefits provided under the Poliomyelitis Sufferer's Act to cover cases of paralysis before the fourteenth day of illness. Arrangements were made for treatment to be given at additional hospitals as it became evident that the University Hospital in Edmonton, and the Red Cross Crippled Children's Hospital in Calgary would not have the capacity required to handle the anticipated cases.

The epidemic appeared first and remained most severe in two areas—the Lethbridge-Calgary areas, and the Vermilion area. This would suggest the importation of the disease into the Province from outside, and might explain the appearance of the epidemic before it was anticipated; from previous experience the epidemic year was expected to be 1953.

During September, the disease appeared to spread out from the areas of high epidemicity to nearby areas, and then to further areas. For the rest of the year it appeared in little above average numbers in various parts of the Province.

The epidemic in Vermilion was interesting as it appeared to be part of an epidemic centered in Saskatoon, its peak appearing several weeks after the peak was reached in Saskatoon. At first the epidmeic was limited to the town, but later it appeared in scattered points around as far west as Vegreville. The Town Council opened an emergency hospital in the School of Agriculture. The Department of Agriculture were of great assistance in making accommodation available. The Nursing staff was obtained from Edmonton, but difficulty was encountered. Most of the time the temporary hospital was staffed by members of the Health Unit staff. It was very fortunate that Dr. E. R. Smith, Director of the Health Unit was experienced in the treatment of Poliomyelitis. It is interesting to report that in this outbreak, contacts to the number of 120 were given Gamma Globulin, and of them only one developed paralysis, and he had the treatment at a late stage of the incubation period.

After September the incidence fell steadily, but cases were being reported right up to the end of the year. For the purpose of indicating the poliomyelitis cycles, it would seem that a year June 1st to May 30th would give a better picture than a calendar year.

A research in to the epidemic by Dr. R. C. Ritchie showed that the incidence of the disease was twice as great in pregnant women as the rest of that age and sex group at risk, and that it struck most severely at women in the third trimester. Approximately one-third of the cases were over the age of eighteen.

Although difficulty was encountered in supplying sufficient respirators at the height of the disease, all requests for machines were met. It became increasingly clear that patients needing treatment in a respirator should be taken care of in special centres. It proved difficult at times to get patients suffering from poliomyelitis admitted to local hospitals, the main difficulty being the lack of nursing staff, and it would seem that serious thought should be given to encourage the provision of adequate isolation hospital facilities.

Respirators held by small hospitals were found to be unuseable when required in many instances. A number of the more serviceable ones were brought into the cities to supplement those in use there. The maximum number in use at any one time was twelve. A plan was recommended and is being adopted for the purchase of new respirators for the main hospitals. In addition, the reconditioning of ten Nuffield type machines was undertaken which were obtained from the smaller hospitals and held in a pool in Edmonton for supplementing the newer ones in emergency.

#### Diphtheria.

There was an upswing in the number of cases of diphtheria notified, however, the number was small and did not in any way indicate a return to the higher incidence of former years. The

#### DEPARTMENT OF PUBLIC HEALTH

organism causing diphtheria is widespread in its distribution, and for a number of years we can expect to record each year a small number of cases.

#### Typhoid.

Typhoid remains a constant hazard. There was no outbreak during the year, and the cases were sporadic, being reported from various parts of the Province, indicating a spread from unknown local carriers. However, the disease has been present for many years, and the carrier state can persist for so long that sporadic cases and even localized epidemic can be expected for some years to come. Most of the cases reported were very mild. It has been surprising that in the past few years typhoid, even without specific treatment, has appeared as a very mild illness. This is making the diagnosis more difficult, and quite a proportion of cases reported have been diagnosed by chance.

### Whooping Cough.

The number of cases reported was up again this year. This is a disease where increased notification due to more adequate health services is going to be difficult to dissociate from an increased incidence, for some years. The extent of notification is going to be affected considerably by extended school health service, plus increased home visiting by nurses.

## 2. SUPERVISION OF HEALTH UNITS

Some years ago the supervision of health units was given to this Division, and has remained with it ever since. These Units consist of Local Government Authorities subscribing to a common Public Health Department. Under the Public Health Act, public health is made the responsibility of Local Government Agencies. Unfortunately outside the two major cities, no Local Government Authority in the Province is large enough to maintain its own Public Health Nurse. Grouping the Local Government agencies into health units makes it possible for the group to receive the benefit of a well organized service, and the receipt by the unit of a Government grant, taking care of the major part of the cost, brings an efficient Public Health service within the reach of everyone in the Province with the exception of those living in the most sparsely settled areas. It makes it possible for the residents of the areas served to receive a service the equal of the service they would enjoy in the major cities.

The services provided by the health units included the following:

- 1. The control of Communicable Diseases,
- 2. Tuberculosis control,
- 3. Sanitation,
- 4. Pre and post natal care,
- 5. School health,
- 6. Mental health,
- 7. Nutrition advice,
- 8. Health education.

In addition, the Health Unit acts as the serum centre storing and distributing the sera and vaccines supplied by the Provincial Health Department. They also make it possible for their residents to receive the full benefit of health services provided by the Provincial Government such as the Mental Health, and Tuberculosis service.

Each unit was in charge of a Public Health trained physician who in addition to serving as Director of the Unit acts as Medical Officer of Health for each of its contributing Authorities.

During the year additions were made to most of the eight units established in 1951, and a further six units were established. The units so far established are as follows:

Drumheller	*Bow Valley
Red Deer	*Grande Prairie
Sturgeon	Mountain View
*Athabasca	Alberta East Central
Minburn-Vermilion	Leduc-Strathcona
*Medicine Hat	*Vegreville
Foothills	*Stony Plain-Lac Ste. Anne
Indicates formed in 1952.	

The staff position was good, and by the end of the year apart from a few recently created positions, there were very few staff vacancies. Collectively the units employed the following staff:

Doctors	13
Public Health Nurses	58
Sanitary Inspectors	17
Stenographer-Technicians	20
Secretary-Treasurers	14
(Part Time)	

The total population served by the units in 1952 was approximately 380,000.

#### TABLE 1

NUMBER OF CASES OF COM	MMUN	NICAB	LE DISEASES REPORTED, 1951	AND	1952
	195	1 1952		195	1 1952
Acute Anterior Poliomyelitis Chicken Pox	84 4,621	774 4,470	Paratyphoid Fever Rocky Mountain Spotted Fever	3 1	7
Diphtheria	2	11	Rubella Scarlet Fever and Septic Sore	1,466	1,017
Dysentery Encephalitis	2	94		2,328	3,829
Erysipelas	19	11	Smallpox		
Food Poisoning Glandular Fever	1	4	Tetanus Tuberculosis—Pulmonary	561	769
Infectious Hepatitis	45	38	Tuberculosis-Non-pulmonary	79	50
Infectious Mononucleosis	1	20	Tularemia Typhoid Fever	37	16
Malaria		5	Trichinosis		6
Measles		3,515	Undulent Fever	6 827	1 105
Meningitis Mumps	11 4,435	9 3,306	Whooping Cough Weil's Disease	2	1,105

#### TABLE 2

#### DEATHS ASCRIBED TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR THE YEARS 1951-1952 1051 1052

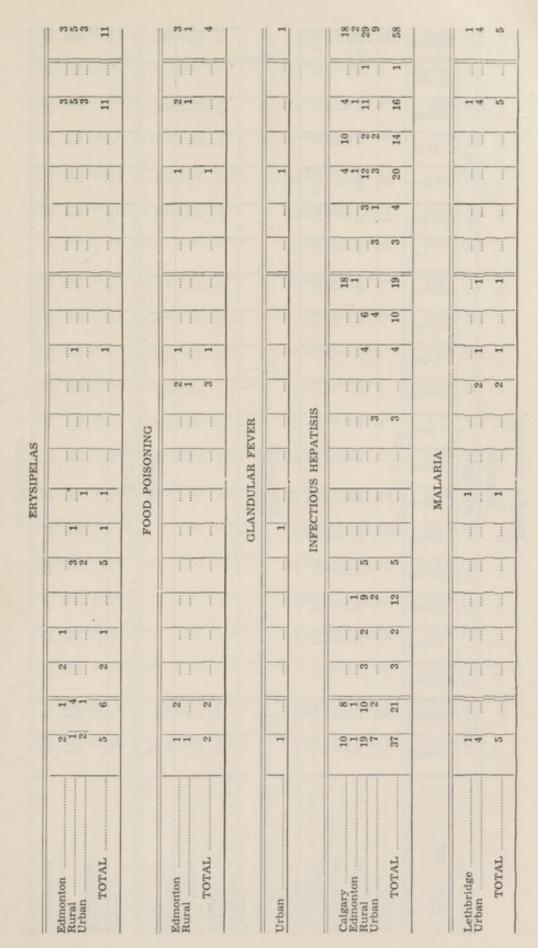
Name of DiseaseTotal TotalRate Per 100,000Rate Per TotalAcute Anterior Poliomyelitis and Polio- encephalitis22818.1Diarrheoa and Enteritis606.2777.8Diphtheria1.1111Influenza11411.8474.8Measles121.37.7Pneumonia0029830.7Scarlet Fever662.2Small Pox0000Tuberculosis, Other272.934Typhoid0022Whooping Cough777Permulation002Particip970.0008.8			1951	1952		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			100,000		100,000	
Whooping Cough	Acute Anterior Poliomyelitis and Polio- encephalitis Diarrheoa and Enteritis Diphtheria Influenza Measles Meningococcal Meningitis Pneumonia Scarlet Fever Small Pox Tuberculosis Respiratory Tuberculosis, Other	$2 \\ 60 \\ 1 \\ 114 \\ 12 \\ 3 \\ 0 \\ 6 \\ 0 \\ 119 \\ 97 \\ 97 \\ 12$	-2 6.2 .1 11.8 1.3 .3 0 .6 0 12.7 2.9 0	81	8.1 7.8 .1 4.8 .7 .2 30.7 .2 0 9.4	
	Whooping Cough	7	.7	8	.8	

Population-970,000

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	TATOT	2,193 2,193 249 41 535 812	4,470		H \$2 \$2 \$		6	•	67 FI	4
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	20-over	49 9 11 17	100		111 03				-	1
S	61-51	404	83		1		-		11	
AGES	2-14	1,215 163 163 377 575	2,849				4		1	1
	¥-1	111 728 68 104 154	1,184		<u> 0</u> 0		63		11	
	I-0	14 137 15 36	209				1		-	1
-	Dec.	152 364 46 198 166	926		01 01		-		11	-
	.voN	193 290 59 63 63	633		0 0	-				1
	Oct.	137 15 34 34 73	304				63		II	
	Sept.	16 79 8 8	154	Inisis	0				II	
	.3n¥	24 65 8 8 28 28 28	128			(illary)		IS	11	
HS	luly	31 239 11 28 63 63	377	DIPHTHERIA	Ist I f	DYSENTERY (Bacillary)	1	ENCEPHALITIS	11	
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	May	178 178 33 7 15	246		17 1 7	DYSE	53	E		23
	Apr.	91 25 25	213						11	
	Mar.	114 66 8 28 28 117	292				100		11	
	Feb.	26 26 3 87 87	301		-111-1		1.111		11	-
	.ust	2398 51 239 28 28 28 28	510						1	1
-	Female	1,087 124 24 24 24 24 406	2,219		1901 6		60		01	2
SEX	Male	341 1,106 125 17 256 406	2,251		0 0		9		11	61
	1952	Calgary Edmonton Lethbridge Medicine Hat Urban Rural	TOTAL		Edmonton Rural Urban TOTAL		Rural		Edmonton Urban	TOTAL

TABLE 3



### DEPARTMENT OF PUBLIC HEALTH

	JATOT	389 484 1.766 1.747 1 3,515		<sup>01001</sup> 0		60 440 24 485 295 1,306
	Age Not batated	133333333333333333333333333333333333333				82 i 82 i 8
	20-0761	165 16 16 16		1 100 1 00	1	44 22 35 35 165
SS	61-51	339193				98 233 212 2 233 49 33
AGES	2-14	219 1900 1,303 411 2,185				265 15 15 15 198 198 745
	\$-I	148 211 315 315 254 1 1 987				102 4 38 38 226
	1-0	14 45 24 24 138		FIF		0101 00 H 00
	Dec.	1 32 28 28 				35 45 95
	.voV.	20 94 8 124				18 95 78 8 199
	Oct.	21 21 11 11 43		0 0		64 2 1 1 1 1 1 1 1 3
	Sept.	4164 8				57 14 14 73
	.SuA	27 22 15 15 15		1 10 01		19 24 46
ONTHS	July	31 31 38 38 38 38	MENINGITIS	<sup> </sup> 0   0	MUMPS	25 15 36 36
SHLNOW	əunr	16 35 35 28 28 28 171	MENI	1 1 1	MU	20 20 20 20
	May	24 49 72 69 69 247		I F F		14 14 26 25 26 74
	Apr.	24 63 24 126 126 		111 11		5 24 34 34 129
	Mar.	37 86 266 145 145 582 582				, 28 38 38 52 44 140
	Feb.	56 64 426 142 142 1 731				23 23 87 87 87
	.ust	210 52 454 143 859				4 4 68 31 131
×	Female	164 258 56 929 372 		HH H0		26 211 12 240 120 609
SEX	Male	225 72 375 375 1 1,736		H4 H9		34 34 12 229 175 175 697
	1952	Calgary Edmonton Lethbridge Rural Urban Medicine Hat TOTAL		Calgary Edmonton Rural Urban TOTAL		Calgary Edmonton Lethbridge Medicine Hat Rural Urban TOTAL

TABLE 3-Continued

Lethbridge Rural Urban TOTAL Calgary Edmonton Lethbridge	01-1 00	1																		
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62						PO	MOLL	POLIOMYELITIS	IS											
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TOTAL 396	378		-		1	1	6	107	247	183	155	38	33	6	140	299	94	227	10	774
							RUBELLA	ELLA		~										
Calgary 33 Edmonton 155 Lethbridge 49 Medicine Hat 66 Rural 121 Urban 85	39 187 68 9 145 120	9       <u>8</u> 6	704 46 145	16 58 9 27 27 27	36 36 57 57 57	10 40 32 32	16 377 18 178 178	13 13 13 10	9 9 9 9 9	40 i 00	10 10 10	16 16	52 22 17	19	14 85 85 85 85 85 85 85 85 85 85 85 85 85	204 204 80 113 113	48000000	18 15 11 11 11	0010	72 342 117 266 266 205
TOTAL 449	268	53	136	129	143	143	135	67	32	23	30	39	87	58	237	608	41	57	16	1,017
						SC/	SCARLET	T FEVER	ER				3		354	100		1977		
Calgary 288 Edmonton 692 Lethbridge 692 Medicine Hat 1 Rural 653 Urban 182	305 732 18 647 224	106 5 189 189 88	75 132 2 163 45	107 182 249 89	157 5 164 164	69 161 97 23	173 6 40 21	16 788 388 15	8 24 10	80 <u>4</u> 80	22 29 18 18	25 4 69 16	135 135 135	10.4 17.80	125 359 18 251 98	407 886 21 800 800 230	21 22 30 30	35 35 2 119 36	10	1,424 $43$ $43$ $1,300$ $406$
TOTAL 1,841 1,	1,926	498	417	634	441	354	287	151	42	66	202	223	419	34		2,344	226	280	32	3,767

TABLE 3-Continued

		-
SEPTIC SORE THROAT	SHLNOW	-

AGES	15-19 20-over Stated TOTAL	4 9 21 21 21 21 21 21 21 21 21 21 21 21 21	4 14 3 62		<b>1 1</b>		1 5 6		$ \begin{bmatrix} 6 & 2 & 83 & 11 \\ 2 & 21 & 195 & 33 & 269 \\ 2 & 2 & 2 & 8 & 33 & 269 \\ 1 & 7 & 8 & 12 \\ 2 & 2 & 2 & 33 & 369 \\ \end{bmatrix} $	44 530 82 769		1 6 7 39 39 39 39 39 39 39 39 39 39 39 39 39	
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	1-0	3	3 1	1					55 11 55 1 1	75 1		•	
	Nov.	N	63				-		17	29		HH 100	1000
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	Sug.		1				-	Pulmonary)	30	66	(Non-Pulmonary)		
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	Apr.	19	10	125	1			TUBH	192 18	78	TUBER	60   00	
	Mar.	1112	6						40 :11 0 1 0 1 0	5 100		H014	
	Feb.	9 6 6	16 19						2 9 4 43 21 9	45 35			-
-	Female	8	21		1		63		60 123 3 182 182	371		3113	
SEX	Male	13	41				4		146 146 146 187	398		4 2 16	
	1952	Edmonton Urban Rural	TOTAL		Urban		Rural		Calgary Edmonton Lethbridge Rural	TOTAL		Calgary Edmonton Medicine Hat	

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1	01 - 02	1	16 22		11 0		208 29 29 343 343	1,105
	63 63				1 1		203	210
	1 1		H4 10		111		HH   ]10	2
	111			1	H H		11100	9
	11		9 141	100	111		107 76 13 145 69	417
	11 1		111 1		111		67 99 17 102 53	350
			1111				32 32 39 17	115
			01 01		11.1		202 8 14 18	50
	63 63		H 0   0				6 42 32	73
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	TIT		T T		111		22 23 23	65
	111		1	FEVER	111	COUGH	14 25 6 213 213	267
TULAREMIA	111	TYPHOID	I.		111		19 19 82 82 8	62
TULA	11 1	ITYPI	1111	UNDULENT	111	WHOOPING	10 12 14	47
			1111	INN		WH	16 14 26	67
	111		11 0		11 1		31 39	74
			T T		1		31 21 20 21 20	105
	111		I I		111		35 36 31 31	118
	111		0 0		11 1		31 26 36 8	101
			41 13				96 105 13 13 13 159	560
	01 11 00		6173 A 11		11 0		101 103 16 16 166	545
	Rural Urban TOTAL		Calgary Rural Urban TOTAL		Rural Urban TOTAL		Calgary Edmonton Lethbridge Medicine Hat Rural Urban	TOTAL

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### DEPARTMENT OF PUBLIC HEALTH

#### TABLE 4

#### INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES FOR THE TEN YEAR PERIOD, 1942-1952

	THE TEN	IEAR PERIO	D, 1942-1952		
		DIPHTHERIA	Ł		
-			Total	Total	Mortality
Date		Population	Cases	Deaths	Rate
1010		805,152	58	11	1.4
	****	792,000	46	11	1.4
10.00 4.00		818,000	57 53	5 9	0.6
		826,000 803,330	48	7	0.9
10.40		822,000	86	ż	0.9
1010		846,000	52	6	.7
1010		871,000	59	12	1.4
10.00.00		895,000	13	1	.1
	******	939,501	2	1	.1
1952		970,000	11	1	.1
		TYPHOID FEV	ER		
1942		805,152	18	1	.10
1943		792,000	11	1	0.1
		818,000	101	8	1.0
		826,000	20	2	0.2
A 474 A 199		803,330	9	0	0
	***************************************	822,000	17	1	0.12
1010		846,000	13	0	0
1070		871,000 895,000	13 13	1	.11
	******	939,501	37	10	.1
1070		970,000	16	2	.2
1000		010,000	10	-	
	ACUTE A	NTERIOR POL	IOMVELITI	S	
1942		805.152	8	Sector and the sector of the s	0
1010		792,000	24	0	0
2011	*****	818,000	107	1	0.1
		826,000	19	ô	0.1
1010		803,330	78	8	1.0
10.45		822,000	84	7	0.9
2010		846,000	380	28	3.3
1949		871,000	127	9	1.0
		895,000	143	7	.7
		939,501	84	2	.2
1952		970,000	774	81	8.1
	W	HOOPING CO	UGH		
		805,152	1,131	12	1.5
		792,000	1,520	12	1.5
A 40 4 10		818,000	757	42	5.7
1010	*****	826,000	694	43	5.2
A 40 A 80	*****	803,330 822,000	308 972	19 9	2.3
1010		846,000	1.178	11	1.3
		871,000	98	5	.57
1080		895,000	120	3	.3
1041		939,501	827	7	.7
11 (D. 11) (D.		970,000	1,105	8	.8
		and the second s			
		SCARLET FEV	ER		
1942		805,152	2,265	11	1.4
10.10		792,000	1,675	7	0.9
		818,000	2,615	9	1.1
		826,000	1,358	1	0.1
1045		803,330	482	1	0.1
1010	******	822,000	225	0	0
1010		846,000	248	0	0
1050		871,000	865	0	0
1071		895,000 939,501	2,309 2,304	0 6	
1070		970,000	*3.829	2	.6
*R	epresents combined to	otal of Scarlet F	ever and Se	ptic Sore t	hroat.
		SMALL POX			
1942		805,152	1	0	0
1943		792,000	2	ŏ	ŏ
1944		818,000	ō	ũ,	õ
1945		826,000	Õ	õ	Ō
		803,330	0	0	0
1010	******	822,000	0	0	0
1040		846,000	0	0	0
1050		871,000	0	0	0
10.01		895,000	0	0	0
1070	*****	939,501 970,000	0	0	0
		010,000			

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# Division of Entomology

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

# INTRODUCTION

The Division of Entomology deals with problems associated with insect-borne diseases, with particular attention being paid to Rocky Mountain Spotted Fever, Sylvatic Plague and Tularaemia. Other insect problems, such as fly and mosquito control and insect pests of institutions, fall within the scope of the work of the Division. Furthermore, a considerable amount of time is devoted to collecting and identifying arthropods that are incriminated in the transmission of human diseases.

#### Rocky Mountain Spotted Fever Survey.

During the course of the spotted fever survey a total of 1,058 host and drag ticks were recovered in 58 collections. Of these 321 were host ticks taken from 374 small wild animals, and 737 were taken by drag. Three spotted fever positives were recorded during 1952 as follows:

Fl-2-52 (8 drag ticks) west of Calgary, Alberta, May 8, 1952.

Fl-3-52 (10 drag ticks) west of Calgary, Alberta, May 8, 1952. Fl-4-52 (1 drag tick) west of Calgary, Alberta, May 9, 1952.

The finding of infected ticks west of Calgary culminated a search that started in 1942 when two cases of Rocky Mountain spotted fever diagnosed on clinical basis by two prominent Calgary physicians were reported. Both of the cases had been in the Cochrane-Banff area during the exposure period and both reported tick bites.

The field verification of clinical diagnosis encourages the practising physician to consider the possibility of such diseases as spotted fever when confronted with unusual symptoms.

A total of 682 protective inoculations against Rocky Mountain spotted fever were made in the known infected areas. Of these 294 were made at Manyberries, 266 at Redcliff, 80 at Thelma-Elk-water, and 42 at Medicine Hat. The treatment were about equal as far as sex is concerned, with 300 females and 382 males being protected.

A suspected case of Rocky Mountain spotted fever, determined on clinical basis, occurred at Lethbridge in July. The patient was a female, age five, who made a good recovery. Investigation demonstrated that this child, along with her parents had been on a picnic in the river bottom at the junction of the St. Mary and Old Man Rivers a few days previous to the onset of the illness. Although no tick was actually removed from her person there is ample justification in assuming that this was a case of Rocky Mountain spotted fever because infected ticks were recovered from this area on May 1, 1939.

#### Sylvatic Plague Survey.

During the course of the Sylvatic Plague Survey 199 collections were made consisting of 1,418 animals, of which 614 were shot and 804 trapped. A total of 2,103 fleas and 231 tissue specimens, mostly from *Citellus richardsonii*, the prairie gopher, were recovered and submitted to the laboratory, for bacteriological examination. Three positives were recorded in 1952 as follows:

- Pl-72-52-R.G.S.—20 fleas—15 animals—S½ 17-14-W4th Brooks. Fleas and tissue positive for Pasteurella pestis.
- Pl-73-52-R.G.S.—37 fleas—19 animals—S.E.¼ 16-19-W4th Lomond. Fleas positive for P. pestis.
- Pl-74A-52-R.G.S.—24 fleas—13 animals—N<sup>1</sup>/<sub>2</sub> 16-20-W4th Lomond. Fleas positive for *P. pestis*.

#### Lagurus pallidus in Relation to Plague.

During 1951 and 1952 specimens of L. pallidus, a vole type of rodent, were discovered in the plague areas of Hanna and Brooks. This discovery was of considerable importance because recent work in the State of Washington has demonstrated that this rodent is the main means of the perpetuation of plague infection in nature.

There is some evidence that the distribution of plague coincides with the distribution of this rodent. Therefore efforts were made during the year to collect this rodent in various parts of the province. This effort was not very successful but during ensuing years it is hoped that its distribution will be established.

#### Distribution of Plague.

The distribution of plague is fairly well outlined within the province, and from the recent experience of Saskatchewan with Foot-and-Mouth disease it is evident that a knowledge of the distribution of an infection is of prime consideration. From the knowledge presently available it would be possible to establish restrictions and implement control measures in certain areas of this province in the event of an outbreak of plague.

#### Tularaemia Survey.

During the course of the 1952 survey four collections of ticks and one collection of fleas were positive for *Pasteurella tularensis* as follows:

> Fl-17-52—16 drag ticks—Eagle Butte, May 24, 1952. Fl-18-52—120 drag ticks—Manyberries, May 27, 1952. Fl-32-52—100 drag ticks—Foremost, June 16, 1952. Fl-32A-52—42 drag ticks—Foremost, June 16, 1952. Pl-103-52—28 fleas—15 R.G.S.—S½ 27-26-Wth. Beiseker (First collection of *P. tularensis* from fleas).

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, minks, rabbits, sheep, skunk, swine and ticks.

#### Pasteurella tularensis in Fleas.

On July 13, 1952, fleas collected from gophers (Citellus richardsonii), shot in the neighborhood of Beiseker, proved positive for P. tularensis. This is the first record of P. tularensis in fleas in this province.

#### The Occurrence of Tularaemia at the Calgary Zoo.

During October an outbreak of tularaemia occurred at the Calgary Zoo infecting three of the monkeys and two of the seven attendants. The three monkeys died while the attendants recovered. An investigation into this occurrence has not yet been completed but there is some suggestion that the infection was introduced into the zoo by infected mice. It is proposed to conduct a further investigation during the coming year.

Information was received during December that tularaemia infection was suspected amongst muskrats and beavers in the Waterton district. Detailed investigation will be made during the coming year.

#### Fly Control.

During 1952, the Fly Control Campaign in the Lethbridge and District area was continued and good results achieved. A study of the available collection records indicates that the following flies of public health importance are present.

#### MUSCIDAE

F. canicularis F. scalaris Hylemya sp. M. domestica M. stabulans M. meditabunda O. leucostoma

CALLIPHORIDAE OTHERS C. elongata C. erythrocephala C. latifrons C. vomitoria C. cadaverina H. fulvicorns L. sylvarum P. sericata R. regina P. terraenovae

DROSOPHILIDAE Drosophila sp. SARCOPHAGIDAE Saracophaga sp. W. meigenii

Although the program is designed primarily to reduce the fly nuisance problem, it may also have some relation to the incidence of communicable diseases. Information on this part of the work is being compiled but no conclusions can be drawn for at least three years.

#### Mosquitoes.

With the tremendous development of irrigation in southern Alberta, considerable interest is being shown in the mosquito problem in the irrigated districts because mosquitoes are very abundant in irrigated districts where they cause considerable annoyance through their attacks on man and livestock. There is also a public health problem associated with mosquitoes as a number of species present in the southern part of the province are known transmitters of encephalomyelitis.

A compliation of the existing mosquito records indicates that the following species are well established in the irrigated areas south of the Red Deer River.

Genus AEDES Meigen	Genus ANOPHELES Meigen
Aedes campestris Dyer and Knab	Anopheles earlii Vargas
A. dorsalis Meigen	Anopheles punctipennis Say
A. flavescens Muller	Genus CULEX Linnaeus
A. nigromaculis Ludlow	Culex tarsalis Coquillett
A. spencerii Theobald	Genus CULISETA Felt
A. stimulans Walker	Culiseta inornata Williston
A. vexans Meigen	

The following species. Aedes dorsalis, A. nigromaculis, A. vexans, Culex tarsalis, and Culiseta inornata are those which are known vectors of encephalomyelitis in nature.

It is suggested that particular care be excerised during the construction of irrigation dams and ditches so that the mosquito problem will not be increased by developing flood areas, stagnant pools, etc. Furthermore, an educational campaign on the proper use of irrigation water would do much toward reducing the number of mosquito breeding places.

#### Mites.

An infestation of mites in the operating room of a hospital in southern Alberta was investigated and effective control measures instituted. This infestation was traced to the nesting of sparrows and mice in the attic above the operating room.

A subject suffering from asthma, which presented all the evidence as being of the mite-produced type, was secured and sputum samples were run. However, this investigation was discontinued in the late fall when the subject left to spend the winter in Arizona. It is proposed to continue the investigation on his return in the Spring.

#### Chiggers.

Information was collected on the chiggers (*Trombiculidae*) of Alberta and a paper was published in conjunction with Dr. James M. Brennan of the United States Public Health Service. The paper listed seven species of which one, a new species, *Euschongastia campi*, was collected and described as being from Alberta. A knowledge of the distribution of chiggers is of importance because they are capable of transmitting a number of human infections, of which rickettsialpox is the most notable.

Chiggers are ecto-parasitic on a variety of small mammals and they have been collected over a wide area in Alberta. The following table lists the species in Alberta:

Euschongastia criceticola Brennan Euschongastia oregonensis (Ewing) Euschongastia sciuricola (Ewing) Trombicula microti Ewing Trombicula montanensis Brennan Trombicula myotis Ewing Trombicula sp.

#### Encephalomyelitis.

Good progress has been made on collecting information relative to the native mosquito species and their relationship to equine encephalomyelitis. To date 31 species of mosquitoes are known to be present; six of these are transmitters of equine encephalomyelitis.

*Culex tarsalis*, which is of considerable importance in the transmission of encephalomyelitis is known to be well distributed throughout the province.

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

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 director of the Division was able to attend the 7th International Northwestern Conference on Diseases of Nature Communicable to Man which was held at Denver, Colorado, September 3-5, where he outlined the excellent results that are being achieved in spotted fever and plague work in Alberta.

During the year, the usual university lectures were given in the schools of Public Health Nursing and Household Economics. A series of lectures for third year medical students in relation to the control of insect-borne diseases was inaugurated under the Faculty of Medicine. This is an important step as it gives the Division an opportunity to put its information directly into the hands of the future practicing physicians.

#### 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.

#### Publications.

During 1952 the following articles and papers were prepared and published:

- Rocky Mountain Spotted Fever in Alberta, 1935-50. Malcolm R. Bow, M.D., D.P.H., and J. H. Brown, M.Sc. Canadian Journal of Public Health, 43 (3); 109-115; 1952.
- A Note on the Chiggers (*Trombiculidae*) of Alberta. J. H. Brown and J. M. Brennan. Canadian Journal of Zoology, Vol. 30, No. 6; 388-343, 1952.
- "Tick Paralysis". A Note on a Human Case Caused by a Male Tick. J. M. Brown, M.Sc. Journal of Economic Entomology, Vol. 45, No. 4; page. 737, 1952.

# **Cancer** Services

The files for patients in the Clinic having reached in the neighbourhood of 25,000 had been previously arranged in a malignant section, a non-malignant section, a transitional section (awaiting reports) a non-reporting section (where the patient had never personally appeared at the Clinic) and a deceased section. This method was found to be outmoded owing to a new Soundex Index being completed. With this Index, a file can be found in a matter of a few minutes.

Owing to the increase in the diagnostic and x-ray work and to obviate the delay occasioned in sending patients to the various City Radiologists and hospitals, an appropriation of between \$40,000 and \$45,000 was set aside to build a solid cement building, as an addition to the Edmonton Cancer Clinic, to house diagnostic and x-ray equipment. An appropriation of \$55,000 was included in the 1952-53 budget for the purchase of x-ray equipment. A diagnostic unit 500 MA Picker Unit and a 270 Picker Rotational Therapy Unit was ordered from the Picker X-ray of Canada Ltd. and will be operating early in 1953.

The Government has engaged the services of Dr. Marcus Marlborough, M.B. Ch.B., B.Sc., D.M.R.T., who started his training in 1947 at the Liverpool Radium Institute as Resident Surgical Officer; Post Graduate Course in Radiation Therapy at the Western Infirmary, Glasgow; in 1949 took Post Graduate Diploma in Medical Radiology (Therapy) of The Royal College of Physicians and Surgeons of England and was thereafter employed as Registrar, Department of Radiation Therapy, Western Infirmary, Glasgow. He came to Canada in 1950 and was employed as radio-therapist at the Furlong Memorial Division of the Manitoba Cancer Institute.

An order has been placed and confirmation and reservation made for a Cobalt 60 tele-therapy unit with the Atomic Energy Commission of Canada.

mission of Canada.	SUM	IMARY OF CASES	CASES	1	REFERRED	
Place	New	Repeat	Total	Hospital	Radium	Surgery
Edmonton Calgary Lethbridge	$2,435 \\ 1,328 \\ 447$	2,945 1,802 334	5,380 3,130 781	$1,871 \\ 466 \\ 169$	476 297 116	624 270 60
TOTALS	4,210	5,081	9,291	2,506	889	954

DIA	GNOSTIC P	ROCEDURES	AUTHORIZ	ED	
Place Edmonton Calgary Lethbridge TOTALS	Laparo- tomies 130 39 16 185	Small Biopsies 838 285 136 1,259	Curretages 255 18 18 291	Encepha- lograms and Ventricu- lograms 17 0 0 17	Broncho- scopies and Oesopha- goscopies 123 41 2 166
				-	
Place Edmonton Calgary Lethbridge	Sigmoid- oscopy 156 2 5	Cystoscopy 160 49 11	Consulta- tions 153 10 7	Laboratory 199 * 31	X-Ray 1,181 401 266
TOTALS	163	220	170	230	1,848

\*Calgary Clinics has it own Laboratory facilities.

# Health Education

# MR. C. C. Evoy B.Sc., Director

### Tours.

A number of health education tours to school divisions, health units, and municipal nursing districts were completed. These trips to the rural areas of the province were arranged through requests from the superintendents of schools, health unit officers and municipal nurses.

Areas covered were: Stony Plain School Division at thirty different points; New Brigden Municipal Nursing District, three meetings; Youngstown Nursing District, four centres; Sunnynook Nursing District, four talks; Hilda Nursing District, four meetings; Lomond Nursing District, two meetings; Barrhead School Division, seven centres; Clover Bar School Division, one school; Whitecourt Nursing District, four schools; Edson School Division and Peers Nursing District, ten schools; Lindale Nursing District, four centres; Winfield Nursing District, four centres; Alder Flats Nursing District, three schools.

At many of these points talks were given explaining the services of the Department of Health and by request "Services of a Health Unit" in areas which were contemplating establishment of a health unit program. Audiences consisted of parents, teachers, and municipal councillors.

It is of interest to note that these tours are followed by an increase in request for existing services from this and other divisions of the department. Information given at these public meetings has been of value in marshalling action for new services namely those of a health unit program.

### Talks and Lectures.

Talks and lectures accompanied by films and discussions were given by the health educator at conferences, conventions, church groups, public meetings, Home and School Association meetings to a total audience of 1,076 for thirty-seven appearances.

Requests for talks on specialized areas of public health other than health education were received and speakers obtained either from the provincial staff or the local health service in our health units and municipal nursing districts.

Subjects were chosen from the fields of nursing, public health administration in local units, venereal disease, family relationships, sanitation and nutrition.

Nurses, medical doctors, teachers and others have used our reference library for source material in the preparation of talks to be given locally. The gratitude expressed by the recipients of this type of service is an endorsement of this phase of our program.

The health educator lectured to the provincial sanitary inspectors at their annual refresher course. Other opportunities to talk on various services of the Department of Health were made by the University of Alberta Summer School for teachers, Strathearn W. A. and other church organizations besides a number of Home and School Associations in rural areas.

#### Literature.

The publication, "Your Health Services" outlining the services of the Department of Public Health was printed early in the year and 10,000 requested copies were distributed by early fall. This booklet received suitable publicity through press and radio. Quantity requests were granted the Social Credit League, the Guidance Branch, the Department of Education, Municipal Nurses, Superintendents of Schools, Health Units and the W. A. of the Social Credit League. A reprint will be necessary and possibly a revision for 1953 will be required.

A summary of the 1950 annual report was prepared for the February session of the Legislature. Mimeographed copies were made available to all members of the Legislative Assembly. This booklet received suitable publicity through press and radio.

A supplement to the Health Education Services catalogue consisting of five pages of description of new films and filmstrips was released for distribution.

#### Conferences.

A health educators' conference, sponsored by the Department of National Health and Welfare was held in Ottawa in October. A demonstration, Workshop Technique, was conducted by the health educator from Alberta. Keen interest was evident among the new and younger representatives who were not familiar with workshop methods of solving public health problems. We were also privileged to show two new filmstrips produced by this department. The first concerned Rural Water and Sewerage Systems; Housekeeping in Rural Schools was the subject of the second. Spirited discussion arose over the merits of these two visual aids to better health education.

At one staff conference two newly acquired films, "Our Schools Children's Health" and "How to Catch a Cold" were screened for the purpose of constructive criticism. Both films were approved by the directors of various divisions but not without certain recommendations regarding their use. Staff conferences of this type do give helpful suggestions concerning the relative scope of a film.

Other conferences attended and arranged included one for the medical officers of health units at which discussion centred around the production of a film on health unit services. A script presented by the health educator outlining a sequence of situations to be photographed was criticized, changes made and approved as being a suitable basis for the film. It is hoped that this film can be produced in 1953.

#### Films.

New films are a necessary factor in an expanding program of any audio-visual service. They supersede obsolete material, replace worn stock and often introduce a new approach in the changing pattern of public health education. Fifteen new films and six filmstrips were placed in our film library this year. Subjects included films in most divisions of the classified field of public health education. Eight hundred and sixty-five films were booked for 1,400 screenings in the province by schools, health units, municipal nurses, Home and School groups, clubs, organizations, film councils and private individuals. It is estimated that over eighty thousand citizens of this province saw health films from our library this year. There is an indication of increased use of this media as each year's figures tell their story.

Audiences reached include school children, special study groups and general public meetings. Each year we supply the films necessary for programs on family relationships. This assistance is given to specialists who lecture to university and church study groups.

#### Radio.

Radio and health education should be concerned with the interpretation of health services and short dramas well prepared. Our efforts in this branch were confined to a better type of radio play which was presented over station CKUA weekly. The purpose of the four dramatic series was to try to develop better health attitudes through pleasant educational entertainment. Next year we will continue this part of our program and will present regular spot announcements on health services over a number of radio stations.

#### Mimeograph.

The mimeograph service, introduced a few years ago, turned out a large volume of material for this and other divisions of the department. Booklets and leaflets have been supplied for distribution to schools, hospitals, the Department of Education, the University of Alberta, Home and School Associations, factories and industrial organizations and to countless individuals to a maximum of approximately five thousand copies.

#### Exhibits.

The Edmonton Exhibition for 1952 marked definite progress in the field of visual health education. The committee, the same as for 1951 met early in April to formulate plans, and all were agreed that in order to realize the greatest gain in public education the Health exhibits must compete successfully with those in the Manufacturer's Building, the grandstand, and the midway. Consequently, picket fences marking definite boundaries, a permanent lighted sign box for direction, immediately inside the main door, were installed, and three new booths constructed.

Mr. Paul, manager of the Edmonton Exhibition offered to have the name of the building changed from Women's Building to something of our choice. It was agreed that Health Exhibits would be the most suitable. He also had offered the porch space of Health Exhibits if it were needed. The committee didn't think that the Department of Public Health would need the space this year, but asked to have jurisdiction over the type of concession which would be allowed there. At least one half of the porch would be a rest area with benches and flowers.

The directors of the divisions were invited to participate and almost all welcomed the opportunity, there being fourteen exhibits as well as a salesroom for the handicrafts from Oliver. A high standard had been asked of exhibitors and it was met in all cases. The Health Education booth included in its display interviews which were recorded on tape and played back to the people. The physical changes in the building were commented on favorably, as were the various exhibits.

It should be noted in passing that the public relations between the various contributing integrated groups was of the first order. The exhibition board, merchants with whom the department dealt, other departments in the provincial government, and the divisions within the department of Public Health worked in harmony to produce a high quality display.

Exhibits were prepared for two class B fairs held at Vermilion and Camrose. The division of Health Education had the display material designed through co-operation with the local health units. Each exhibit featured health unit services, entomology, posters and health education publicity.

Displays were made also for our municipal nurses to assist in educational campaigns in their districts.

Invitations to display our services were accepted from two Edmonton public schools at their opening exercises. Over eleven hundred people viewed our work at these two receptions.

#### Equipment.

One Elliott addressing machine has been added to our equipment to facilitate and expedite the movement of mail from this and other divisions of the department. The new service will be established early in 1953.

## Orientation.

To some extent this division does assist in the brief orientation of all new public health personnel who are going to stations in the province. Before leaving for the new positions doctors, nurses, and sanitary inspectors visit this division and are given some insight into the health education services available from the department. This introduction to our program has proved invaluable to new staff in establishing health education programs in their districts.

# Nutrition Services

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

The following report covers the work of Nutrition Services for the calendar year 1952.

Nutrition consultant services to small hospitals, school dormitories and other institutions was extended during the year. The office continued to prepare and distribute the mimeographed material entitled "Institutional Supper Menus". During the year the bulletin included in addition to menus and recipes, information on food buying practices and food preparation. Suitable recipes folders and booklets were obtained and distributed with the monthly release. Requests for information relative to the purchasing and care of kitchen equipment were received and dealt with.

During the year, three requests for assistance in obtaining the services of dietitians were received and information regarding suitable applicants was given.

Continued assistance to the Public Health personnel has largely been through consultant service to local staffs. This has resulted in a greatly expanded service of group teaching and individual instruction at Well Baby Clinics and during home visiting. The problems brought to our attention included: budgets, everyday meal planning, marketing, serving, eating habits and food fads. In most areas, the nurses have asked for direction in advising families on low-cost meal planning.

Field-trips were made by the nutritionist for the purpose of assisting with local staff education through provision and discussion of the latest information on various aspects of nutrition. During these visits individual conferences were held with the nurses to discuss the specific problems in their respective areas.

Additional consultation service was provided to local public health personnel through advisory articles in the publication Nutrition News. During the year a variety of problems have been dealt with in this manner.

The program for consultant service to field staff was planned in close co-operation with the Directors of Health Education and Public Health Nursing.

Sample copies of all nutrition materials available for local distribution were compiled in reference folders and distributed to all public health and industrial nurses.

Instruction in nutrition and special aid to teachers and students was continued. During her visits to the schools, the nutritionist made suggestions concerning teaching of nutrition and nutritional activities. Organization and operation of school lunch programs and adequate lunches from home were discussed with teachers and parents. An effort was also made toward improving the selection, preparation and service of food available at school and the elimination of non-essential foods being sold in school lunchrooms was encouraged. Considerable information through correspondence and school lunch literature was provided to public-health personnel and executives of Home and School Associations. Requests for additional help, such as technical guidance, have been followed by a visit from the nutritionist whenever possible.

Technical data has been supplied also to the Director of School Broadcasts for teachers' reference in connection with broadcasts on school lunches.

Requests for information pertaining to various phases of nutrition were received from students during the year. Food models, posters, films and other teaching material were made available for teachers. A large number of inquiries from homemakers regarding food probelms were answered weekly.

Mothers were contacted through study groups, mother's clubs, Women's Institutes, Church Groups, Home and School Associations and the Canadian Association of Consumers. In April, the nutritionist participated in the Consumer Fair for Thrifty Homemakers sponsored by the Canadian Association of Consumers.

The nutritionist has served as a consultant on articles, radio scripts and films for the Department of Health. To assist nutrition programs throughout the province, the Nutrition Services has prepared pamphlets dealing with specific topics and has supplied visual aids and outlines for adult study groups.

There were an increased number of requests for assistance with planning of adequate meals for summer camps. The comments and suggestions would appear to indicate a need for extension of this service in 1953.

This year, objectives and activities of Nutrition Services were outlined to key groups of students, including nurses and public health nurses at the University.

The nutritionist participated in a symposium on Community Nutrition at the convention of the Canadian Dietetic Association.

Nutrition Services provided a display for inclusion in the health exhibits at the Edmonton Exhibition. The exhibit has since been made available on loan to numerous community organizations in the province.

A cordial relationship was maintained with other agencies in an effort to bring about a co-ordinated nutrition program in the province.

# Public Health Nursing Division

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

During the year 1952 the following nursing services were operating in rural districts:

27 Municipal Nursing Services in Local Improvement Districts.

7 Muncipal Nursing Services in Municipal Districts.

1 Part Time Nursing Services in a Municipal District.

2 Well Baby Clincis and

6 One-Nurse Health Units.

Municipal Nursing Services in Local Improvement Districts are as follows:

Alder Flats	Hines Creek	Sunnynook
Blueberry Mountain	Kinuso	Tangent
Bonanza	Lindale	Valley View
Breton	Lomond	Vauxhall
Breynat	New Brigden	Wanham
Dixonville	Peers	Whitecourt
Fawcett	Plamondon	Winfield
Fort Assiniboine	Slave Lake	Worsley
Hilda	Smith	Youngstown

Municipal Nursing Services in Municipal Districts are as follows:

Bow Island in M.D. of Bow Island No. 13. Foremost in M.D. of Burlington No. 2. Grassland in M.D. of Athabasca No. 103. Milk River in M. D. of Warner No. 4. Warner in M.D. of Warner No. 4. Tulliby Lake in M.D. of Vermilion River No. 71. Whitemud Creek in M.D. of Smoky River no. 130.

The Bow Island Municipal Nursing service was closed on March 31, 1952 and the area included in the Medicine Hat Health Unit.

Regular Clinics in connection with the above centres are as follows:

1 101	
Alder Flats	—Buck Lake
Bonanza	-Bay Tree and Cherry Point
Fawcett	—Flatbush and Jarvie
Foremost	-Etzikom, Hoping School, Orion,
	Manyberries and Lucky Strike
Fort Assiniboind	e — Timeu and Doris
Hilda	-Schuler
Kinuso	—Faust
Milk River	-Coutts
Peers	-Haddock and Shining Bank
Slave Lake	-Canyon Creek and Widewater
Smith	-Chisholm
Tangent	-Eaglesham and Watino
Wanham	-Belloy
Warner	-Wrentham and New Dayton
Whitecourt	-Blue Ridge

The two Well Baby Clinic Centres at Vegreville and Medicine Hat were absorbed into Full Time Health Units.

The One-Nurse Health Units or nurses serving School Divisions were located at:

Brooks Health Unit at Brooks. Wheatland Health Unit at Strathmore. Athabasca Health Unit at Colinton. Spirit River Health Unit at Spirit River. Wainwright Health Unit at Wainwright. MacLeod-Pincher Creek Health Unit at Granum.

The services at Brooks, Strathmore and Colinton were absorbed into Full Time Health Units, leaving nurses serving the Spirit River, Wainwright and MacLeod-Pincher Creek School Divisions.

There were a total of 58 nurses in the field and two nurses in the office including fourteen replacements. Nurses leaving the staff were as follows: Five nurses taking leave of absence to do postgraduate work; four nurses transferred to Full Time Health Units. One nurse retired; one nurse was only on temporary relief; eight resigned to be married and four resigned to take other employment.

#### Staff Education.

All nurses reported in to Edmonton for three days following the Easter weekend for the Spring Conference. The two-day Course on the Nursing Aspects of ABC Warfare was followed by one day of lectures and general discussion of problems presenting themselves in the district.

Three issues of the News Letter were sent to all staff members with general information on Newer Trends in Nursing applicable to the Municipal Nursing program and also changes in administration. New staff members were given a few days orientation in the office and with a senior nurse in a district before being left on her own in a district.

#### Supervision.

Thirty-one districts were visited by the office staff of the Nursing Division. Many local problems facing the nurse with regard to the service were discussed at this time. The Nurse's Home Committee held a meeting in each district visited in order to discuss their responsibilities and problems.

Each nurse sends in a monthly report of the work accomplished in her district.

#### Miscellaneous.

Two nurses took the Course in Administration for Public Health Nursing at the University of Alberta.

An evening Refresher Course consisting of eight lectures held in February at the University of Alberta on Modern Trends in Nursing was attended by the Director and Assistant Director.

The Course in Practical Advanced Obstetrics was given by Miss L. M. Attrux at the University of Alberta.

The Annual Meeting of the Alberta Association of Registered Nurses held in Banff was attended by the Director and Assistant Director who participated in the program. The Alberta Public Health Association Convention held in Calgary was attended by the Director.

Lectures given by the office staff were as follows:

- 2 lectures and demonstrations on "Delivery in the Home."
- 1 lecture on Correlation of Preventive and Treatment Nursing Service.
- 6 lectures on "Nursing Aspects of ABC Warfare."
- 1 lecture each to two of the City Hospitals on "Municipal Nursing."
- 1 lecture to the Public Health students on "Municipal Nursing."
- 1 lecture to each of six groups of 4th year Medical Students on "Municipal Nursing."

I would like to extend our thanks to those who have assisted us in our work and have helped us to solve our many problems. Our thanks go to the Hon. Dr. W. W. Cross, Minister of Health; Dr. M. R. Bow, who retired as Deputy Minister; Dr. A. Somerville, newly appointed Deputy Minister; The Department of Municipal Affairs; the City Health Department and City Agencies, also to the various organized Municipalities, all Divisions of the Department of Public Health, and other Provincial and National Organizations.

I also wish to thank the medical profession, hospitals and teachers who have assisted the nursing staff in their work; and the nursing staff who have made it possible for this work to be carried out in the rural areas of Alberta and who continue to serve beyond the call of duty.

#### TABLE No. 1

#### REPORT OF MUNICIPAL NURSING CENTRES (Exclusive of work done in schools)

(EACTUBILE OF WORK GOILE IN SCHOOLS)	
M. Breatward Constitutions	Total
No. Treatment Consultations	36,720
No. Miscellaneous P.H. Consultations	10,518
No. Antepartum Consultations	1,658
No. Postpartum Consultations	466
No. Infant and Preschool Consultations	7,988
No. Treatment Home Visits	9,403
No. Miscellaneous P.H. Home Visits	2,076
No. Communicable Diseases Home Visits	1,220
No. Maternal Welfare Home Visits	533
No. Infant and Preschool P.H. Home Visits	1,901
No. of Deliveries	61
No. of Abortions	43
No. Cases sent to Hospital or Doctor	2,001
No. Deaths under 1 year	3
No. Deaths over 1 year	21
Total No. Doses different Sera Given	14,718
No. Pieces P.H. Literature Distributed	5,266
Fees Collected	\$27,230.95
IMMUNIZATION WORK DONE AT OFFICE OR CLINICS:	
Tetanus Vaccine	557
Measles Prophylactic Serum	48
Diphtheria Toxoid	5,757
Scarlet Fever Toxin	337
Smallpox Vaccine	1,725
Whooping Cough Vaccine	5,392
Typhoid Fever Vaccine	132
TOTAL	14,718
Patch Tests	159
Mantoux Tests	12
Mantoux Tests	12
MISCELLANEOUS:	
Old Age Pensions-Home Visits (free)	579
Old Age Pensions-Office Calls (free)	328
Lectures and Demonstrations	19
Films shown	13
Home Nursing Classes	7
First Aid Courses	2
Baby and General Clinics	119
1 Child sent to Guidance Clinic; 1 T.B. patient sent to Sanatoriu	
1 Child sent to Jr. Red Cross Hospital, Calgary.	
D The A 13 The sheet he sheet	

3 First Aid Kits placed in schools.

2 Visits to C.G.I.T. Camp.

# DEPARTMENT OF PUBLIC HEALTH

# TABLE No. 2

# WELL BABY CLINICS (Part Year) Medicine Hat and Vegreville

N	o. in Attendance	1,048 255
3.1	a Old Carer Re-admitted	9
3.1	o. Out of Town Cases o. Referred to Family Doctor	122 73
N	lo of Names on Roll	960
	represent to Pre-school Clinic	15 226
B	ottle Fed	452
0	ther Feeding	361
N	utrition	115
DRE	-SCHOOL CLINICS:	
N	In Attendance	188
7.1	law Cases Admitted	15 18
0	bischarged	52
N	Io. of Cases on Roll	2,187
	ITS:	
P	tahy Visits	4
P	re-school Visite	25
C	abool Visite	34
T	B. Visits	10
S	ocial Hygiene	2
	TOTAL No. of Visits	57
ATT	TENDANCE:	
N	Io. of Clinics held	77
-1	otal Number in Attendance	1,242 56
Ţ	etters written re work	608
I	nterviews	71
TATA	MUNIZATIONS:	
	No. balls and a Manuald	58
Ŷ	Whooping Cough Vaccine	32
S	mallpox Vaccine	175
I	Whooping Cough Vaccine mallpox Vaccine Diphtheria and Whooping Cough Combined Diphtheria, Pertussis and Tetanus Combined	1,104
-	TOTAL No. of Doses	1,444
	TOTAL No. of Doses	. 5
1	ratch lests	
	NICS:	5
9	Thild Health	3
(	Combined Child Health and Immunization	22
(	Juidance	6 13
2	Social Hygiene	13
	F B Clinics	12
i	Day Rural Clinics at R.M.S.F., Thelma, Elkwater, Redcliff and Manyberries	-
	TOTAL Attendance	1,088
1	No. Schools Visited from Medicine Hat	9
1	No. Classrooms	30
1	Professional Visitors	14

3.3

### TABLE No. 3

#### SCHOOL WORK

### (Including work done by both Municipal Nurses and Child Welfare Clinic staffs)

			Total
	1.	No. of Visits to Schools	487
	2.	No. Students Inspected	8,160
		No. with Suspected Defects	4.582
		(a) Defective Vision	1,163
		(b) Defective Hearing	105
		(c) Diseased Tonsils	1.543
		(d) Unsound Teeth	3.356
		(e) Eye Diseases	63
		(f) Ear Diseases	139
		(g) Enlarged Cervical Glands	815
		(h) Enlarged Thyroid Glands	84
		(i) Malnutrition	657
		(j) Nervous Disorders	162
		(k) Faulty Posture	411
		(1) Orthopaedic Defects	20
		(m) Ringworm	11
		(n) Impetigo	27
		(o) Scables	24
	•	(p) Pediculosis	97
		(q) Other Skin Conditions	91
		(r) No. Exclusions (Suspect Communiciable Diseases)	229
	4	No. Correction of Defects	1,060
	5:	Classroom Talks	45
	6.	Sanitary Inspection of Schools	507
	7.	No. Consultations with Teachers	448
	8.	No. of Consultations with Parents	469
	9.	No. of School Follow-up Home Visits	423
	10.	No. Pre-school Children Seen at School	78
	10.	No. Fre-school Children Seen at School	10
т	OT/	AL NO. OF DOSES OF THE FOLLOWING:	
	(a	) Diphtheria Toxoid	2,060
	(b	) Scarlet Fever Toxin	31
	ic		696
		) Whooping Cough Vaccine	1.425
	(e	Typhoid Fever Vaccine	7
	.a	) Whooping Cough, Diphtheria and Tetanus Combined	118
	14.4	Mantoux Tests and Patch Tests	3
		No. Lectures	20
		No. Films Shown	20
	22 1	Municipal Nursing Services in LID's	20

Municipal Nursing Services in L.I.D.'s.
Municipal District Nursing Services in M.D.'s.
Metis Colony
Well Baby Clinic Centres.

TABLE No. 4

#### SERVICES GIVEN BY HEALTH DISTRICTS

Services Offered	Athabasca	MacLeod- Pincher Ck.	Spirit River	Wainwright	Wheatland	Total
SCHOOL HEALTH PROGRAMME:         1. No. of Visits to Schools         2. No. Students Inspected         3. No. with Suspected Defects         (a) Defective Vision         (b) Defective Hearing         (c) Diseased Tonsils         (d) Unsound Teeth         (e) Defective Infected Gums         (f) Eye Diseases         (g) Nasal Obstruction         (h) Ear Diseases         (i) Enlarged Cervical Glands         (j) Enlarged Thyroid Glands         (j) Enlarged Thyroid Glands         (h) Nervous Disorders         (m) Faulty Posture         (n) Anaemia         (o) Orthopaedic Defects         (p) Cysts         (q) Ringworm         (r) Speech Defects         (s) Impetigo         (t) Scabies         (u) Mentally Retarded         (v) Pediculosis         (w) Other Skin Conditions	7 76 11 31 9 16 6 5 5 8	180 1,610 791 240 21 167 409 4 4 58 87 37 21 6 5 2 3 3 28 5	599 648 3600 115 144 102 216 2300 166 388 37 28 2 3 3 3 2 2 8 32	69 829 334 71 181 209 1 41 41 29 8 39 2 15 52 4 4	38 221 95 31 19 57 5 5 5 5 1 1 5 3 2 2 2 5 5	$\begin{array}{r} 442\\ 3,755\\ 1,870\\ 512\\ 56\\ 646\\ 1,207\\ 5\\ 17\\ 7\\ 405\\ 28\\ 185\\ 96\\ 107\\ 2\\ 16\\ 107\\ 2\\ 28\\ 5\\ 107\\ 13\\ 2\\ 32\\ 41\end{array}$

# DEPARTMENT OF PUBLIC HEALTH

# TABLE No. 4—Continued SERVICES GIVEN BY HEALTH DISTRICTS

Services Offered	Athabasca	MacLeod- Pincher Ck.	Spirit River	Wainwright	Wheatland	Total
CHOOL HEALTH PROGRAMME-						
Continued: (x) No. exclusions, Suspected Com- municable Disease (y) 10% or more under average weight	18	24	12			54
for height and age					20	20
4. No. Correction of Defects 5. Classroom Talks	61	65 10	160 18	141 32		423
6. Sanitary Inspection of Schools	7 93	31 212	5 72	45 82		81 455
8. No. Consultations with Parents	73	61	185	31		350
9. No. School follow-up Home Visits 0. No. Pre-school Children Seen at School	10 28	51 6	97 3	51 4	40	249
LINICS:	20		50	29	15	19
1. Child Welfare Clinics Held Attendance: (a) Infants	28 179	68 824	59 275	398	15 115	1,79
(b) Pre-schools	87	623	233	313	57	1,31
(c) Schools 2. Pre-natal Home Visits		19	124 18	5		12
Post-natal Home Visits		10				1
3. Infant Welfare Visits 4. Pre-school Home Visits	58 29	53	114	52		27 20
5. Tuberculosis Clinics Held	23	55	115	2		20
Adult Consultations					2	
6. Tuberculosis Home Visits		20		13	1132	111
7. Mental Hygiene Home Visits	18	46	27	14		10
8. Referred to Guidance Clinic		35				3
MMUNIZATIONS:	in the		1			
1. Total No. of Doses of the following: (a) Diphtheria Toxoid	262	159	56	181	5	66
(b) Scarlet Fever Toxin	4	2	1	36	26	6
(c) Smallpox Vaccine	501	340	179	162	36	1,21
(d) Whooping Cough Vaccine		94 18	329	57	49	20 34
(f) Whooping Cough Vaccine and						
Diphtheria Toxoid (g) Triple	1,421	450	254 80	452	210	2,78
2. Mantoux Tests and Patch Tests	53	140	15	79		28
3. Whooping Cough Vaccine, Diptheria			1			
Toxoid and Tetanus 4. Schick Tests		309	1			30
5. Tuberculin Skin Tests					4	
6. Dick Tests		2	87			8
COMMUNICABLE DISEASE CONTROL:				1000		
1. Visits to Cases, Contacts and Suspects	25	154	37	45		26
2. No. cases Quarantined or Isolated	8 36		85	83	4	17
(b) Measles	130	153	27	66	63	43
(c) Chickenpox	84	53	4	6 11	11 18	15 10
(e) Whooping Cough	75	13	61	7	6	10
(f) Rubella		27		2		2
(g) Skin Conditions (h) Other Conditions	85		5	6		1
3. Contacts Isolated	12		12			2
4. No. Throat Cultures Taken	12					1
EALTH EDUCATION:				1		
1. Interviews 2. No. Lectures	4	98	102			20
Attendance	3 31	8	25	106		2 16
3. Literature Distributed, (approximately)	294	599	25			91
4. Films Shown 5. Newspaper Publicity	3	8		7		16
5. Globulin		65	2			0
7. No. Letters and Circulars	553	558	25			1,13
8. Miscellaneous: Water Samples		26				2

# Division of Social Hygiene

### PAUL L. RENTIERS, M.D., Director

I take this opportunity to pay a last tribute to Dr. Harold Orr whose death in December of 1952 ended a long and inspiring chapter in the field of Venereal Disease Control in the province of Alberta. Dr. Orr, internationally known as an authority on venereal disease, was instrumental in the organization of the Division of Social Hygiene and through the years, under his directorship, venereal disease in this province has shown a steady decline. His example in this field of endeavour will long serve as a model to those following him.

The Division has continued to operate clinics in Edmonton, Calgary, and Lethbridge. It was found advisable during the last year to discontinue the Medicine Hat and McLennan clinics owing to the decline in the number of cases in these districts. In their place the Mobile Clinic has done excellent work, and it is felt that this type of clinic will be more advantageous to the province as a whole.

As in previous years the Division has continued to distribute free of charge such drugs as penicillin and bismuth to private physicians and institutions for the treatment of venereally diseased patients. Arsenic in any form is used very little now and soon distribution of this drug will be stopped. During 1952 malaria pyrexia was discontinued in favour of massive penicillin therapy in late central nervous system syphilis. New antibiotics, such as aureomycin and streptomycin have been distributed in limited quantities in selected cases.

Pre-marital blood testing continues to be a large and ever increasing part of the duties of this Division. It is interesting to note that by this means we are still discovering unsuspected cases of venereal disease. The value of this procedure should not be underestimated.

Continued efforts in the field of education are being made with full co-operation from the Division of Public Health Education and its Director, Mr. C. C. Evoy.

With the continued suppression of organized prostitution in the province our main problem today exists in the Metis and Indian population among whom venereal disease is still far too common. It is hoped that further efforts by the greater utilization of the Mobile Clinic will be a value here. New cases have also been discovered in rather larger numbers than in the population of Alberta as a whole in the newly arrived immigrants from western Europe.

The number of patients seen and examined in the Alberta clinics has shown a steady increase despite the fact that fewer cases of disease, both syphilis and gonorrhoea, are being discovered. It is felt that this increase in the number of examinations done reflects well on the educational programme being carried out.

I wish to express my thanks and appreciation to the entire staff of the Division for their continued efforts in this work.

# DEPARTMENT OF PUBLIC HEALTH

The tables attached give the statistical report of the work of the Division.

Division.			
ALLEGED SOURCES OF VENEREAL	INFECTION	OR CONTACT	S.
For the Period January 1st, 1	1952 to Decemb	er 31st, 1952	1
	Number of	Number of	Percentage of
Tandan at Card at the second	Sources of	Sources of	Sources of
Location of Source of Infection or Contact	Infection or Contacts	Infection or Contacts	Infection or Contacts
contact	Reported	Located	Located
Edmonton	652	565	87%
Calgary	278	238	86%
Lethbridge	,21 20	17 16	81% 80%
Medicine Hat Remainder of Province	676	598	88%
			Alastan and a second
ALBERTA TOTALS	1,647	1,434	87%
Sources of Infection or Contacts report- ed outside of the Province of Alberta	157	70	44%
TOTALS	1,804	1,504	83%
			Contraction of the second
	Number of	Number of	Percentage of
Unit Forwarding Information	Sources of Infection	Sources of Infection	Sources of Infection
Chief For warding information	or Contacts	or Contacts	or Contacts
	Reported	Located	Located
Armed Forces	181	122	67%
Private Doctors and Provincial Clinics	1,477	1,280	81%
Other Provinces	146	102	70%
TOTALS	1,804	1,504	83%
Sources of Infection in Alberta who coul	d not be locat	ted by Author	ities con-
cerned			90
Sources of Infection outside of Alberta w	tho could not	be located by	Authori-
ties concerned Number of Notification Cards (N.H. 1) with	h no informatio	n for contrat	finding 225
Number of Notification Cards (N.H. 1) with	n no miormatic	on for contact	innuing 220
DETAILS OF INFORMATION ON	THE FACILIT	TATION PROC	ESS
	Where Informat		
of Infection or Contact	of Infection		
Pick-ups 704 39 % Introduction 115 6 %	Boarding Hou		20 0 0
Introduction         115         6         %           Friend         165         9         %           Marital Partner         165         9         %	Restaurant or	Beer Parlor	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Marital Partner	Dance Hall		155 9 %
Common-law wife	Street or Out	doors	333 19 %
House of Prostitution 3 .16% Appointment 47 3 %	Friend or Pri	vate House	154 9 % 111 6 %
No Data Available	Marital Partn	er	162 9 %
	Recreation or	Private	
	Party Train Pailura	y Station, Bus	87 5 %
	Depot	y Station, Bus	18 1 %
	House of Pros	stitution	3 .16%
	Taxi or Taxi	Office	18 1 %
	No Data Avai	lable	9 .4 % 438 24 %
DETAILS OF INFORMATION OBTAINED			STIGATION
Place of Exposure	Occupation o Infection o		
Rooming House or Apt 197 11 %		r contact	192 11 %
Private House	Housewife		77 4 %
Outdoors	Prositute or S	treet Walker	74 4 %
Car or Truck 218 12 % Train, Boat, Auto-Camp 34 2 %	Domestic, Ho		147 0 01
House of Prostitution	Clerk, Salema	rter an, Steno,	147 8 %
Taxi or Taxi Office	Teacher or	Cashier	81 4 %
Hotel 303 17 % Room, House or Shack 200 11 %		ant Worker	13 .7 %
Room, House or Shack20011%No Data Available45725%	Unemployed	nnel	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Laundress or	Dry Cleaner	9 .4%
	Truck, Taxi o	or Bus Driver	35 2 %
the count of the second second second second	Farmer, Trap		47 3 %
	Student or N	urse	8 4%
	Dressmaker, 1	Hairdresser or	
	Barber	englant	5 .3 %
NEW STRUCTURE SUGO POLICY TO NO.		Conductor	61 3 % 8 .4 %
	Tradesman, E	lectrician.	and and and
	Plumber, et Pinsetter, Ush	c	31 2 %
	rinvoltor lieb	ler or	
			1 5 %
	Usherette .	lable	1 .5 % 981 54 %

#### PROVINCIAL CLINIC-Provincial Building, 10048-101A Ave., Edmonton, Alberta Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

	Under 1 yr.									yrs. over	Age not stated			
		F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total	
Gonorrhoea (all forms)							27	46	489	155			717	
Syphilis (Congenital)					1							-	1	
Acquired—Primary									15	2		ant.	17	
Acquired-Secondary									1	3			4	
Acquired—Latent								1	7	5			13	
Acquired—Tertiary														
(Cardiovascular)										11.40	-			
Acquired—Tertiary														
(Neurosyphilis)														
Acquired—Tertiary (Other)									1				1	
Type Undetermined									-	1			î	
spe ondetermined minim												_		
TOTALS					1		27	47	513	166			754	
									010	****				
Number of cases of Syphilis-	Mal	- 25	For	-	12	-	-	-	-		-	-		

Number and results of Wassermann tests: 8,214 of which 478 were positive. Number and results of Cerebrospinal Fluid tests: 32 of which 9 were positive. Number and results of Bacteriological tests for gonococci: 2,705 of which 661 were positive. Number and results of Cultures taken for gonococci: 1,254 of which 198 were positive.

#### PROVINCIAL CLINIC-711-3rd Street East, Calgary, Alberta

Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

	Under 1 vr.		Under 1-4 1 yr. yrs.					15-19 yrs.		ver				
	M.			F.		F.	M.	F.	M.	F.	M.	F.	Totals	
Gonorrhoea (all forms)							5	14	191	35			245	
Syphilis (Congenital)							1		1				2	
Acquired-Primary														
Acquired-Secondary														
Acquired-Latent									4	2			6	
Acquired—Tertiary									-				87	
(Cardiovascular)														
Acquired—Tertiary														
(Nouroemphilie)														
Acquired—Tertiary (Other)	****								1				1	
	****								*			41.74	*	
Type Undetermined										****	****			
			-				-			-		-		
TOTALS				****			6	14	197	37			254	
		-			-	-		-		-		-		
Number of cases of Syphilis-	-Ma	le 7.	Fem	ale :	,								9	

Number of cases of Gonorrhoea-Male 196, Female 49 245

Number and results of Kahn and Wassermann tests: 3,457 of which 211 were positive. Number and results of Cerebrospinal fluid tests: 12 of which 2 were positive. Number and results of Bacteriological tests for gonococci: 2,715 of which 279 were positive. Number and results of Cultures taken for gonococci: 191 of which 6 were positive.

#### PROVINCIAL CLINIC-315-10th Street, South, Lethbridge, Alberta

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 yrs. & over		Age not stated		
		F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)							2	1	12	2			17
Syphilis (Congenital)					2								2
Acquired-Primary													
Acquired-Secondary										1			1
Acquired-Latent									1	2			3
Acquired—Tertiary													
(Cardiovascular)													
Acquired-Tertiary													
(Neurosyphilis)												-	
Acquired—Tertiary (Other)													
Type Undetermined													
the second se		-	-	-	-	_				-			
TOTALS					2		2	1	13	5			23
	-	-	-	-	-					-		-	
Mumber of sease of Combille		1. 0	12										
Number of cases of Syphilis Number of cases of Gonorrh													6 17

Number and results of Kahn and Wassermann tests: 179 of which 34 were positive. Number and results of Cerebrospinal fluid tests: 18 of which 2 were positive. Number and results of Bacteriological tests for gonococci: 83 of which 19 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.		-	1-4 5-14 15-19 yrs. yrs. yrs.			20 yrs. & over		Age not stated				
		F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)							1	20	12	49			82
Syphilis (Congenital)													
Acquired—Primary				****					1				1
Acquired-Secondary									1	3			4
Acquired—Latent								1	4	3			8
Acquired—Tertiary													
(Cardiovascular)													
Acquired—Tertiary													
(Neurosyphilis)													
Acquired—Tertiary (Other)													
Type Undetermined													
ope conservation internation	_	_	_	_	_	_	_			_		_	
TOTALS							1	21	18	55			95
		_	_	-	_	_	_	_	_	_	_	_	-
Number of cases of Syphilis-	Ma	le 6.	Fem	ale 7	1								13
Number of cases of Gonorrh													82

Number and results of Kahn and Wassermann tests: 2,755 of which 146 were positive. Number and results of Cerebrospinal fluid tests: 6 of which 1 was positive. Number and results of Bacteriological tests for gonococci: 1,330 of which 58 were positive. Number and results of Cultures taken for gonococci: 1,057 of which 78 were positive.

#### PROVINCIAL GAOL-Lethbridge, Alberta

Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

	-	der yr. F.	1- yı M.	4 rs. F.	5-: yr M.	s.	15- yr M.	s.	20 y & o M.		Age sta M.		Totals
Comowhees (all formes)													
Gonorrhoea (all forms)	****			****			2		1			****	9
Syphilis (Congenital)			0.14										
Acquired—Primary											****		
Acquired-Secondary													
Acquired-Latent									1				1
Acquired—Tertiary									-				-
(Cardiovaccular)													
		****		****	****	****	****	****					
Acquired—Tertiary													
(Neurosyphilis)			10.01		-								
Acquired—Tertiary (Other)								****	****				
Type Undetermined													
		_	-	-	_			-		_		_	-
TOTALS							2		8				10
A VATALOS INTERNET		****			****		-	****	•				10
	_	_	-	-				-		_	and the second second	-	

Number of cases of Gonorrhoea-Male 9 ....

Number of Prisoners admitted, 1,724.

Number and results of Kahn and Wasserman tests: 1,423 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

M. F. T         Gonorrhoea (all forms)       3 28 29 303 50 21 6         Syphilis (Congenital)       1 1 1         Acquired—Primary       2 5 2         Acquired—Secondary       1 3 3         Acquired—Latent       1 1 7 20         Acquired—Tertiary       1 1 2         (Cardiovascular)       1 2         Acquired—Tertiary       1 2         (Neurosyphilis)       1 1 2		Under 1 yr.		1- V1	-4 rs.	5-1 yr		15- yr		20 3		Age	not		
Syphilis (Congenital)       1														Totals	
Acquired—Primary       2       5       2         Acquired—Secondary       1       3       3         Acquired—Latent       1       17       20       2         Acouired—Tertiary       (Cardiovascular)       1       17       20       2         Acquired—Tertiary							3	28	29	303	50	21	6	440	
Acquired—Primary       2       5       2         Acquired—Secondary       1       3       3         Acquired—Latent       1       17       20       2         Acquired—Tertiary       (Cardiovascular)       1       17       20       2         Acquired—Tertiary	Syphilis (Congenital)					1	1	1						3	
Acquired—Secondary       1       3       3	Acquired—Primary							2						9	
Acquired—Latent	Acquired-Secondary							1.1	1					7	
Acouired—Tertiary       (Cardiovascular)       1       2          Acquired—Tertiary       (Neurosyphilis)       11       2          Acquired—Tertiary (Other)        1       1          Type Undetermined        1       1	Accurate Televil								î					40	
(Cardiovascular)       1       2													-	10	
Acquired—Tertiary (Neurosyphilis) 11 2 Acquired—Tertiary (Other) 11 1 Type Undetermined 1 1										1	2			3	
(Neurosyphilis)         11         2           Acquired—Tertiary (Other)         1         1         1           Type Undetermined         1         1         1	Acquired—Tertiary									-	-				
Acquired—Tertiary (Other)										11	2			13	
Type Undetermined	Acquired—Tertiary (Other)									1	ĩ			20	
	Type Undetermined					****				-		****	****	4	
momited	appe ondetermined and			41.0		****				1				1	
	TOTATS		-	-	-	-	-			010			-		
	TOTALS		41479			1	4	31	31	342	80	21	8	518	
		-	-	-	-	-			-		-	-	-		

Number of Doctors in the Province receiving consultative service, 250. Number of doses of Arsenicals distributed to Private Physicians, 1.052. Number of doses of Bismuth distributed to Private Physicians, 3,910. Number of Units of Penicillin distributed to Private Physicians, 852—Vials (3,000,000) Proceine G in Oil; 686—Vials (300,000) Units—Proceine G in Oil; 4—Vials (600,000) Units) Duapen.

Under 1-4 5-14 15-19 20 yrs. Age not yrs. M. F 1 yr. M. F. yrs. M. F. yrs. M. F. & over M. F. stated M. F. F. Totals Gonorrhoea (all forms) ..... Syphilis (Congenital) ..... Acquired—Primary ..... Acquired—Secondary ..... Acquired—Latent ..... Acquired—Tertiary (Cardlovascular) ..... Acquired—Tertiary (Neurosyphilis) Acquired—Tertiary (Other) Type Undetermined 3 112 110 1150 293 22 6 1696 ï 1 22 8 2 5 18 10 16 1 5 3 35 32 2 72 1 2 3 11 2 13 31 1 42 Type Undetermined ..... 1 ----TOTALS ..... 4 4 116 119 1225 343 22 8 1841 \_ \_ Total number of cases of Syphilis—Male 83, Female 62 Total number of cases of Gonorrhoea—Male 1,284, Female 412 145 1,696 TOTAL NUMBER OF CASES ADMITTED TO THE VARIOUS CLINICS OF THE DIVISION OF SOCIAL HYGIENE IN 1952 Sex Syphilis Gonorrhoea Total 42 748 Male 790 24 322 346 Female .... TOTALS 66 1.070 1.136 CASES REPORTED BY DOCTORS AND MILITARY AUTHORITIES Private Physicians Armed Forces Total Syphilis 78 79 1 Gonorrhoea .. 440 186 626 TOTALS 518 187 705 Total Number of cases of Syphilis reported in Alberta Total number of cases of Gonorrhoea reported in Alberta 145 1,696 1,841 Total number of cases of Syphilis reported in Alberta exclusive of Armed Per-144 sonnel Total number of cases of Gonorrhoea reported in Alberta exclusive of Armed 1,510 Personnel 1.654

NEW CASES OF SYPHILIS AND GONORRHOEA REPORTED IN ALBERTA-1952 Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

# Provincial Laboratories

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

During 1952 the Provincial Laboratories carried out 252,780 examinations, the nature of which is shown in the accompanying tables. The work done has increased by 39,608 examinations or by 18%.

#### Special Trends.

This year, and for the first time, an attempt was made to obtain the benefits of bulk buying by combining many of the supply orders from our two laboratories. Much additional work fell on the staff of the Central Laboratory in consequence, but it was possible in a number of instances to obtain maximum quantity discounts of 10 to 15 per cent where individual orders might have received 5 per cent or less. This procedure will be continued, and it is hoped will become easier through experience.

In the Central Provincial Laboratory. In Edmonton, the importance of laboratory tests in the control of antibiotic therapy, suggested in last year's report, has been strikingly confirmed by the dramatic increase in such examinations. This is likely to be a continuing trend. So also is the provision of gonococcal culture facilities offered as a new service last year; by this means the number of smear examinations considered necessary in tests for cure has been reduced from seven to three, yet the laboratory tests are considered more reliable. The service has lately been extended to the Calgary Clinic and although it is being conducted temporarily by the Central Laboratory it will be transferred to the Southern Branch as soon as expedient. Continuing development is also shown in Mycology, a 35% increase in examinations being recorded. In sanitary bacteriology a new trend is shown in the increasing support of the laboratory to field testing of stream pollution carried out by the Division of Sanitary Engineering. This may develop into a regularly organized service.

Dr. Macgregor, Provincial Pathologist, records continuing increase in demand for smear diagnosis of malignant disease. Specimens of vaginal secretion, bronchial secretion and sputum, and gastric washings submitted for this purpose showed an increase of 32 per cent over last year.

The diminishing volume of medico-legal work being carried out is considered an inevitable and sensible trend. Certain aspects of this work, as the typing of bloods in criminal cases, cannot be carried out satisfactorily as sporadic examinations and might with advantage be transferred to a Forensic laboratory such as the R.C.M.P. Laboratory in Regina where a specially trained staff devotes its full time to the laboratory investigation of Medico-legal problems.

In the Southern Branch Laboratory. In Calgary, increasing interest continues in many aspects of bacteriological investigation. It is probable that even more distinct evidence of development would have been forthcoming had the activities of the laboratory not been inhibited by the unfortunate illness of the Director. Nevertheless, the fact that its general activities were so well maintained is a credit to Dr. Shute's deputy, Dr. Crichton, and is evidence of the amount of assistance Dr. Shute himself provided even from his sick-bed.

#### New or Supplementary Services.

The Central Laboratory has established a new service for the identification of Leptospiral infections. The increasing importance of these, particularly in agricultural areas, is shown in an editorial of the December 6th, 1952 issue of the Journal of the American Medical Association.

During the year a method of wet film diagnosis for biopsies of brain specimens was introduced by the staff of the Pathology Department and proved to be an accurate procedure for the diagnosis of brain lesions. The value of this method is being further studied.

In tuberculosis, work on the haemagglutination tests mentioned in last year's report has been stopped. At the present stage of their development, the results were too unreliable to warrant continuation. Some interesting observations have been made on the use of fluorescence microscopy in smear diagnosis but this has not yet been applied to the service.

### Regular Laboratory Services.

General Bacteriology. The general diagnostic services have been adequately used by hospitals and to a striking degree by certain individual practitioners even from quite remote areas. No large scale bacterial epidemics were encountered though a slight increase was recorded in the occurrence of diphtheria and tularemia. In one instance Pasteurella tularensis was itself isolated from autopsy material brought to the laboratory. The enterobacteriology section identified a small outbreak of paratyphoid infection in Yellowknife for the third year in succession. Much interest was aroused by the isolation of Salmonella heidelberg from four human cases: this is the first time this organism has been identified in Canada and the discovery led to an intensive investigation by the Provincial Veterinary Laboratory to determine its presence in certain poultry flocks from which it had apparently been conveyed to man. Our happy association with the Provincial Veterinary Laboratory has led to many such findings of mutual interest and an increasing realization of the epidemiological interdependence of the laboratories.

The increased number of examinations in syphilis serology in the Central Laboratory is mainly due to the examination of umbilical cord blood in an endeavour to detect neo-natal syphilis, a new line of investigation being pursued by the Division of Social Hygiene.

#### Sanitary Bacteriology.

The volume of work carried out in the Southern Laboratory and commented on last year has been maintained. In Edmonton, the number of milks and waters examined has increased considerably due mainly to a developing control program in certain Health Units.

# Pathology.

The work in the Department of Pathology continued to follow the established pattern, with surgical tissue diagnosis assuming the major role. The value of the examination of all surgical tissue specimens, whether malignancy is suspected or not, is apparent from day to day. As an example, might be mentioned a case of Actinomycosis of a Fallopian Tube, picked up on routine examination recently in a patient in whom there was no clinical suspicion of this disease. In the field of Cancer diagnosis, increasing numbers of biopsies lead to the recognition of many early cases of cancer, which might otherwise become advanced before clinical recognition becomes possible. There are undoubtedly many early cases of cancer cured by reason of the tissue diagnostic service offered through the Provincial Laboratory and many lives salvaged.

The numbers of gross and microscopic examinations carried out on surgical specimens totalled 10,545. This is a drop of about 1,000 over the previous year, accounted for by the fact that the Misericordia Hospital now has a full time Pathologist and the tissue work from that hospital is no longer done in the Provincial Laboratory. Making allowance for this, there has probably been a slight increase in tissues examined from rural points.

#### Staff.

In the Central Laboratory, Dr. J. H. Stirrat transferred from the Bacteriology Laboratory to the Pathology Laboratory. The transfer has relieved Dr. Macgregor of some portion of the enormous burden of routine histological diagnosis he was compelled to carry practically unaided. In the Southern Laboratory, the serious illness of Dr. Shute has deprived the laboratory of his immediate services since the end of August. The excellent organization of the laboratory and the willing cooperation of Dr. Crichton has enabled the laboratory to continue its services with efficiency. Fortunately, Dr. Shute has been able to give continued advice on many problems and to assist materially by determining many highly specialized histopathological diagnoses in his sick-room.

			Contraction of the second	
	Total 1951	Total 1952	Increase	Decrease
Sputum Examinations	982	1.441	459	
Diphtheria and Haemolytic Streptococci	5.312	4.915		397
Typhoid Fever (Agglutination test)	2,039	1.923		116
Milk	1.438	1.972	534	
Water	4.233	5.250	1.017	
Guinea Pig Inoculations	2.103	2,073		30
Miscellaneous Bacteriology	7.542	6.297		and the second se
Blood Cultures	827			1,245
Enterobacteria and Intestinal Parasites		832	5	10.1
	3,308	3,221	****	87
Urinalysis Mediae Logal (Plead seminal stal)	15	10		5
Medico-Legal (Blood, seminal, etc.)	4	7	3	
Cerebro-Spinal Fluids for the Wassermann		A CONTRACT		
Test	2,189	2,043		146
Bloods for Quantitative Kahn test	1,493	923		570
Bloods for the Wassermann Test	9,865	7,533		2,332
Bloods for the Standard Kahn Test	9,869	7.352	1112	2,517
Bloods for the Presumptive Kahn Test	70,755	81,342	10.587	
Smears for Gonococcus	9.263	10.320	1.057	
Cultures for Gonococcus	802	5,460	4.658	and the second second
Pathological Histological Material	11.572	10.545	1,000	1.027
Blood Smear Examinations	156	167	11	and the second second
Post-mortem Examinations (Edmonton)	374	376	2	****
Post-mortem reports (outside points)	160	147	1.	10
Ascheim-Zondek Tests	459	399		13 60
Frog Tests	409	73		60
Fluids for Cancer Cells	366		73	
Cancer Cytology		410	44	
Bone Marrows	53	75	22	
Bone Marrows	26	23		3
Cerebro-Spinal Fluid Examinations (Colloidal		WEAR AND		
Gold. Pandy)	2,421	2,459	38	
Bacteriological examinations (P.M.)	33	70	37	
B. abortus Examinations (Agglutination test)	2,516	1.928		588
P. tularensis (Agglutination test)	2,039	1,929		110
Antibiotic sensitivities, etc.	8,266	28,310	20,044	
Mycological examinations	570	770	200	
Weil Felix	4	3		1
Paul Bunnell Tests		731	731	
T.B. Smears and Cultures		2.401	2.401	
Autogenous Vaccine	22	19	0.00070000	3
	6.6	19		3
Total	161,076	193,749	41.923	9,250
			111020	0,200

#### TABLE 1

# WORK PERFORMED IN THE PROVINCIAL LABORATORY-Edmonton

#### TABLE 2

#### EXAMINATION OF MILK-Edmonton Laboratory

Milk	1951	1952
Number of milks examined bacteriologically	1,393	1,935
Number of milks examined for butterfat	164	- 241
Number of milks examined for B. coli	497	1,076
Number of milks tested by the Phosphatase Test	146	365
Number of ice creams examined	45	37
Number of rinse waters examined bacteriological	0	0

#### TABLE 3

EXAMINATIONS OF WATER-Edmonton Laboratory		
Water	1951	1952
Number of samples of water examined bacteriologically and found fit for human consumption	1,889	2,223
Number of samples of water examined bacteriologically and found unfit for human consumption	714	721
Number of samples of water examined bacteriologically and chemi- cally and found fit for human consumption	293	433
Number of samples of water examined bacteriologically and chemi- cally and found unfit for human consumption	275	368
Number of samples of water examined chemically and found fit for human consumption Number of samples of water examined chemically and found unfit	715	993
for human consumption Number of samples of ice examined bacteriologically and found fit	340	499
for human consumption Number of samples of ice examined bacteriologically and found unfit	4	10
for human consumption	3	3

### TABLE 4

TUBERCULOSIS CONTROL EXAMINATION-Edmonton Laboratory

Guinea	pig.	Smear	
	Sec. 2	the second	

Specimen	smear and culture	and culture	Positive	% Positive	Negative	% Negative
Sputum and Gastric						
Washings	850	357	202	16.7	1,005	83.2
Urine	480	22	53	10.6	449	89.4
Pleural Fluids	180	12	26	13.5	166	86.5
C.S.F.	117	1	25	21.2	93	78.8
Joint Fluids	51		5	9.8	46	90.2
Abdominal Fluids	27	1	22	7.1	26	92.9
Bronchial Aspirations *Miscellaneous Speci-	135	9	2	1.4	142	98.6
mens	133	16	20	13.4	129	86.6
Total Sputums examined by	1,973	418	335		2,056	
smear only		1,441	105	7.3%	1,336	92.7%
Grand Total		3.832	440		3.392	

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

TABLE 5

#### BACTERIOLOGICAL EXAMINATIONS FOR EVIDENCE OF TYPHOID FEVER, DYSENTERY AND RELATED INFECTIONS\_Edmonton Laboratory

Stool and urine cultures	846 1.957
Blood cultures Blood examined by agglutination test for typhoid and related fevers, undulant	1,937
fever and tularaemia Other materials—waters 13, vomitus 1	1,525

#### **Details of Results**

Source	Salmonella Typhi		Other Salmonella	Shigella	Negative	Total
Stool cultures	14	16	28	13	735	806
Urine cultures Blood cultures	12	1	1	1	40 1,943	40 1,957
Total isolations	26	17	29	13	2,718	2,803
Number of cases	14	8	19	11		51
Number of carriers						

### DEPARTMENT OF PUBLIC HEALTH

Cultures received from Animal Sources Supplied by Dr. E. E. Ballantyne, Provincial Veterinarian

Details of Salmonella cases and		Salmonella from Poultry	
carriers S. typhi-murium S. newport S. bareilly S. heidelberg S. manhattan Total Shigella Isolations Sh. sonnei Sh. flexneri 3	11 3 2 2 1 19 10	S. typhi-murium S. gallinarum S. oranienburg S. bareilly S. bredeney S. newport S. heidelberg S. thompson S. anatum S. san diego S. worthington S. enteritidis	
6 2	1	Total	179
Total	13	Salmonellae from Animal Sources S. cholerae-suis S. paratyphi B Total	2 1 

### TABLE 6

### INTESTINAL PARASITES-Edmonton Laboratory

Number of specimens examined and found negative for parasites		203
Showing cysts and Protozoa: Endolimax nana E. coli Giardia lamblia	27	
Giardia lambila	-	
	10	10
Showing Ova: Ascaris lumbricoides Enteroblus vermicularis	2 1	
	3	3
Worms or portions of worms: Taenia saginata	1	
Ascaris lumbricoides	5	
	6	6
TOTAL		222
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

### TABLE 7

### MYCOLOGICAL EXAMINATION-Edmonton Laboratory

Type of material examined Skin and nail scrapings Sputum Scalp hairs Beard hairs Vaginal swabs Mouth and throat Miscellaneous Total	84 68 66 45	Number found positive for pathogenic fungi 92 30 36 35 14 15 20 242
Fungi identified Candida albicans	and nail scrap throat and ear st	wabs,
Epidermophyton floccosum Geotrichum sp. Mallassezia furfur Microsporum audouini Microsporum canis Mosaic fungus Nocardia sp. Trichophyton faviforme Trichophyton mentagrophytes Trichophyton rubrum	skin scrapings sputum skin hair, skin scrapings skin scrapings culture hair, skin scrapings hair, skin scrapings	2 5 12 13 14 14 12 13 14 12 103

### TABLE 8

SEROLOGY TESTS FOR SYPHILIS—Edmonton Laborat Blood examined—Presumptive Kahn Standard Kahn Quantitative Kahn Wassermann (Kolmer)	ory	81,342 7,352 923 7,533
Cerebro-spinal fluids examined by Wassermann (Kolmer) test Bloods and cerebro-spinal fluids unsuitable for examination: Unsuitable (fatty) Haemolized N.S.Q. N.S.Q. Accidentally broken	141 715 225 185 25	2,043
Bloods broken and leaked in transit Bloods and cerebro-spinal fluids "Positive" to reaction Bloods and cerebro-spinal fluids "Negative" to reaction Bloods giving "Reaction Not Interpreted" Bloods and cerebro-spinal fluids giving "Anti-complementary" reaction		1,291 203 732 80,868 1,789 54
Number of bloods and cerebro-spinal fluids examined in 1951 Number of bloods and cerebro-spinal fluids examined in 1952 Increase in number of specimens examined Increase in per cent		73,216 84,790 11,574 15.8%

### TABLE 9

### SEROLOGY TESTS FOR SYPHILIS BY MONTHS-Edmonton Laboratory

(CAPERC	JEGGE I	001010		the states and a state of the s	. morra					
	ve		ve	E	uu	Unsui	table fo	or Exar	nination	1
	Presumpti Kahn Test	Standard Kahn Test	Quantitativ Kahn Test	Blood Wassermann	C.S.F. Wasserma	Fatty	Haem.	N.S.Q.	N.S.Q. Leaked	Accid. Broken
January	5,532	656	96	668	202	9	138	17	18	
February	6,257	933	115	944	177	7	54	6	13	10
March	6,391	722	81	742	180	7	26	4	21	2
April	6,887	729	89	752	176	13 5	69	18	4	
May	7,104	840	83	860	173	5	46	30	5	2
June	6,899	601	78	610	155	13	43	16	10	1
July	7,836	525	52	546	151	17	57	22	9	1
August	7,257	556	81	570	178	17	67	25	11	2
September .	6,642	381	52	394	162	12	74	24	23	2
October	7.376	428	60	436	184	7	45	28	15	2 3 2
November .	6,967	551	81	559	150	16	42	20	24	2
December.	6,194	430	55	452	155	18	54	15	32	
Totals	81,342	7,352	923	7,533	2,043	141	715	225	185	25

### TABLE 10

### NUMBER OF PREMARITAL AND CORD BLOODS SUBMITTED FOR SEROLOGICAL TEST FOR SYPHILIS—Edmonton Laboratory Unsuitable for Examination

			dd	ė	Unau	reative in	or Landi	anne cros		
Premarital	Negative	Positive	Reaction not Interpreted	Anti-Comp	Fatty	Haem.	N.S.Q.	N.S.Q. Leaked	Accid. Broken	Total
January	466		9			25	3	4		507
February	526		9			7		2		544
March	458		7			1		3	2	471
April	847	1	12		1	8	5	1		875
May	951	1	10		10.00	4	3	1	2	972
June	1,364	1	10	1	2	10	5	1		1,394
July	1,389	1	10		1	10	2	1	1	1,415
August	1,088	3	4			14	535222		007	1,111
September	799	1	3	****	****	8	2	4	1	818
October	1,307	2 2 2	6		1	7	4	8		1,335
November	1,025	2	6	1		3		****		1,037
December	698	2	11		1	3	2	5		722
Totals	10,918	14	97	2	6	100	28	30	6	11,201
		-	-	-				-		
	C	ORD (n	ot reco	rded s	eparate	ly prev	iously)			
August	454	2	3		2	17	5	1	1	485
September	692		2		8	10	55	4		721
October	865		3		4	17	8		1	898
November	798	1	6	1	6	17	4	2	1	836
December	845		6	****	12	12	1	8		884
Totals	3,654	3	20	1	32	73	23	15	3	3,824

### TABLE 11

### SERA AND VACCINES DISTRIBUTED-Edmonton Laboratory

Diphtheria:	Total 1951	Total 1952
Schick Test Toxin—25 person pkg.	184	224
Toxoid—1 person pkg.	1.116	1.034
-6 x 3 c.c amp pkg.	86	93
6 x 6 c.c amp pkg.	370	655
-Diluted Diphtheria Toxoid-25 person pkg. for re-	and the second second	a lange mail in
action tests	1	3
<ul> <li>— 1 person pkg, for immunization of re-</li> </ul>		
actors	7	10
Diphtheria Combined:	and the second second	
Diphtheria and Pertussis-1 person pkg.	6,489	5.266
9 person pkg.	1,617	1,266
Diphtheria, Pertussis and Tetanus-1 person pkg.	1,326	2,042
9 person pkg.	617	926
Diphtheria and Tetanus-1 person pkg.	97	266
9 person pkg.	68	10
Enteric-Typhoid-Parathyphoid combined (T.A.B.)	000	
1 person pkg.	328	504
5-7 person pkg.	1,042	914
Enteric Combined—T.A.B.T.—1 person pkg	438	1,248 88
Measles—Anti-Measles—5 c.c. pkg.	1,055	743
Immune Serum Globulin— 2 c.c. pkg.	1,091	992
10 c.c. pkg.	107	
Scarlet Fever-Dick Toxin-10 person pkg.	225	280
Scarlet Fever Toxin-1 person pkg.	1,234	967
6 person pkg.	593	436
Strength "A"—30 c.c pkg. Strength "B"—30 c.c pkg.	83	54
Strength "C"-30 c.c. pkg.	103 149	86 66
Strength "D"-30 c.c. pkg.	71	76
Strength "E"-30 c.c. pkg.	77	71
Smallpox- 1 point pkg.	2,560	2,473
10 point pkg.	3,984	3,837
Staphylococcal Infection: Staphylococcus Toxoid—2 c.c. pkg.	120	86
	120	00
Tetanus (see Diphtheria and Enteric combined): Tetanus Toxoid—1 person pkg.	128	277
Whooping Cough (see Diphtheria combined):		
Pertussis Vaccine—1 person pkg.	838	768
9 person pkg.	124	165
Vaccines, other-Autogenous Vaccine-25 c.c.	22	19

THERAPEUTIC AGEN	ITS
------------------	-----

INERAPEUTIC AGENTS		
	Total 1951	Total 1952
Diphtheria—Antitoxin 1,000 units (syringe) Antitoxin 1,000 units (vial)	221	593 2
Antitoxin 10,000 units (syringe)	47	69
Antitoxin 20,000 units (syringe)	114	138
Gas Gangrene-Antitoxin-4,000 units	184	175
(B. welchii) 10,000 units	66	110
Rabies-14 dose treatment pkg.	2	80
Scarlet Fever—Antitoxin—3,000 units (syringe) 3,000 units (vial)	169	233 24
9,000 units (syringe)	28	90
9,000 units (vial)	27	91
Snakebite Antivenin-15 c.c.	4	****
Staphylococcus—Antitoxin—10,000 units	12	. 12
	107	
Tetanus—Antitoxin— 1,500 units (syringe) 10,000 units (syringe)	405	912 160
20 000 units (sumis as)	1	143
20,000 units (syringe)	-	27

### TABLE 12

### COMMERCIAL VALUE OF WORK IF CHARGED AT AVERAGE 1940 FIGURES

			Total
Sputum Examination	1.441	\$ 1.00	\$ 1.441.00
Diphtheria and Haemolytic Streptococci	4,915	1.00	4,915.00
Typhoid Fever (Agglutination tests)	1.923	1.00	1.923.00
Milk	1.972	3.00	5,916.00
Water	5.250	10.00	52,500.00
Guinea pig inoculations	2,073	3.00	6,219.00
Miscellaneous Bacteriology	6,297	3.00	18,891.00
Blood cultures	832	3.00	2,496.00
Enterobacteria and Intestinal Parasites	3.221	3.00	9,663.00
	10	1.00	10.00
Urinalysis Medico-Legal (Blood, seminal, etc.)	7	5.00	35.00
Cerebro-Spinal Fluids for Wassermann Test	2.043	1.00	2.043.00
	923	2.00	1.846.00
Bloods for the Quantitative Kahn Test	7.533	1.00	7,533.00
Bloods for Wassermann Test	7.352	1.00	7,352.00
Bloods for Standard Kahn Test	81.342	1.00	81.342.00
Bloods for Presumptive Kahn Test			
Smears for Gonococcus	10,320	1.00	10,320.00
Cultures for Gonococcus	5,460	1.00	5,460.00
Pathological Histological material	10,545	5.00	52,725.00
Blood Smear Examinations	167	2.00	334.00
Post Mortem Examinations (Edmonton)	376	25.00	9,400.00
Post Mortem Reports (Outside points)	147	10.00	1,470.00
Ascheim-Zondek Tests	399	5.00	1,995.00
Frog Tests	73	5.00	365.00
Fluids for Cancer Cells	410	5.00	2,050.00
Cancer Cytology	75	2.00	150.00
Bone Marrows	23	5.00	115.00
Cerebro-Spinal Fluid Examinations (Colloidal			
Gold, Pandy)	2,459	2.00	4,918.00
Bacteriological Examinations (P.M.)	70	5.00	350.00
B. abortus examinations (Agglutination Test)	1,928	.50	964.00
P. tularensis (Agglutination Test)	1,929	.50	964.50
Antibiotic sensitivities etc. (Discs)	28,310	.10	2,831.00
Mycological examinations	770	3.00	2,310.00
Weil Felix	3	1.00	3.00
Paul Bunnell Tests	731	2.00	1,462.00
T.B. Smears and Cultures	2,401	3.00	7,203.00
Autogenous Vaccine	19	5.00	95.00
Total			\$309,609.50
			Statement and a statement of the stateme

### PROVINCIAL LABORATORY—Calgary Branch

### D. SHUTE, M.D., Director

### Introductory.

This third annual report of the work done at the Calgary Branch of the Provincial Laboratory of Public Health shows that there has been an increase of about 4.8% in spite of the fact that a full time Pathologist is now serving the two Lethbridge Hospitals and Lethbridge Cancer Clinic.

An estimate of the monetary value of this work, based on the Official Schedule of Fees approved by the Alberta College of Physicians and Surgeons, demonstrated clearly that the taxpayer has a good return for the money which is voted by the Provincial and Federal Governments for the maintenance of this laboratory.

### Equipment.

The technical equipment is now complete except for any minor items and replacements made necessary by normal wear and tear.

### Personnel.

There have been considerable changes in technical and secretarial staff and there is now only one individual remaining of the group which was originally seconded from the Edmonton Laboratory in 1949.

New members of the staff have been recruited both locally in Southern Alberta and from as far afield as Halifax, Nova Scotia and Vancouver, British Columbia.

Illness created considerable difficulty from August onwards but all co-operated loyally in helping Dr. Crichton to maintain an efficient service.

### TABLE 1

# SUMMARY OF WORK PERFORMED IN THE PROVINCIAL LABORATORY SOUTHERN BRANCH, Calgary

### During the Year 1952

	Totals	Unit Price	Estimated Total Value
Soutum Examinations	4.034		
Sputum Examinations	4,034	\$ 2.00	\$ 8,068.00
Diphtheria and Haemolytic Streptococci		1.00	600.00
Typhoid Fever (Agglutination Test) Milk	902	5.00	4,510.00
	789	3.00	2,367.00
Water	1,106	10.00	11,060.00
Guinea Pig Inoculations	897	10.00	8,970.00
Miscellaneous Bacteriology	832	5.00	4,160.00
Blood Cultures	112	10.00	1,120.00
Enterobacteria	322	5.00	1,610.00
Intestinal Parasites	47	10.00	470.00
Urinalyses	2,759	1.00	2,759.00
Medico-Legal (Blood, Seminal, etc.)			
Blood Counts	1,790	6.00	10,740.00
Blochemistry Investigations	541	4.00	2,164.00
Cerebro-spinal fluids for Wassermann Test	900	2.00	1,800.00
Blood for the Quantitative Kahn Test	380	2.00	760.00
Bloods for the Wassermann Test	3.163	2.00	6,326.00
Bloods for the Standard Kahn Test	2,911	2.00	5,822.00
Bloods for the Presumptive Kahn Test	23,419	2.00	46.838.00
Smears for Gonococcus	3.205	1.00	3,205.00
Van den Bergh Determinations	1	1.00	1.00
Pathological Histological Material	2.553	15.00	38,295.00
Blood Smear Examinations	123	5.00	615.00
Post Mortem Examinations	9	100.00	900.00
Histology from Post Mortems	22	15.00	330.00
Ascheim Zondek Examinations		10.00	550.00
Bone Marrows	1	5.00	5.00
Fluids for Cancer Cells	105	10.00	1.050.00
Cerebro-spinal fluid examinations (Colloidal	100	10.00	1,050.00
Gold, Pandy)	920	10.00	0 000 00
Bacteriological Examinations (P.M.)		5.00	9,200.00
B. abortus Examinations (Agglutination Test)	902	2.50	0.055 00
P. tularensis (Agglutination Tests)	902	2.50	2,255.00
B. melitensis (Agglutination Tests)		2.50	2,255.00
Cattle Bloods	2	1 00	
Miscellaneous T.B. Smears		1.00	2.00
insectioneous Tib. Sincers an international	338	2.00	676.00
	54,587		\$178,933.00
Autogenous Vaccines	6	5.00	30.00
Antibiotic Sensitivites	331	5.00	1,655.00
Total			\$180.618.00

\$180,618.00

Patimated

### TABLE 2

### MILK EXAMINATIONS-Calgary Laboratory

Number of milks examined bacteriologically	791 18
Number of milks examined for B. coll	782 144
Number of ice creams examined Number of rinse bottles (waters) examined	33

### TABLE 3

### WATER EXAMINATIONS-Calgary Laboratory

Number of samples of water examined bacteriologically and found fit for human consumption	
Number of waters examined bacteriologically and found unfit for human con-	895
Number of samples of ice examined bacteriologically and found fit for human	208
Number of samples of ice examined bacteriologically and found unfit for human consumption	
Water samples giving "Doubtful Please Repeat" reaction	1

### TABLE 4

### TUBERCULOSIS CONTROL EXAMINATIONS-Calgary Laboratory

Examined by smear, animal inoculation and culture Positive % Positive Negative % Negative Specimen  $20.7 \% \\ 11.86\% \\ 6.7 \% \\ 8.3 \% \\ 26.7 \%$ 238 79.3 % 88.14% 62 Sputum and Gastric Washings ..... 300 342 Urine Pleural Fluids 46 388 88.14% 93.3 % 91.7 % 73.3 % 100.0 % 89.0 % 42 33 45 3 C.S.F. Joint Fluids Abdominal Fluids 36 3 15 40 11 4 4 Miscellaneous specimens 109 11.0 % 97 12 130 767 897 Total Sputums examined by smear only 4,034 1,007 3,027 Miscellaneous examined by smear 338 24 315 only GRAND TOTAL ..... 5,269 1,161 4,109

\*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, STREPTOMYCIN, AUREOMYCIN, TERRAMYCIN AND CHLOROMYCETIN

### Calgary Laboratory

DeterminationNo. DonePenicillin sensitivity of a variety of organisms isolated from cases of infection311Streptomycin sensitivity of Mycoobacterium tuberculosis isolated from cases25Streptomycin sensitivity of other bacteria321Aureomycin sensitivity of other bacteria321Chloromycetin sensitivity of other bacteria321Sulphadiazine sensitivity of other bacteria321Sulphadiazine sensitivity of other bacteria321

### TABLE 6

### BACTERIOLOGICAL EXAMINATIONS FOR EVIDENCE OF TYPHOID FEVER, DYSENTERY AND RELATED FEVERS—Calgary Laboratory

loods examined by agglutination and tularemia						90
	Details o	f Results				
	Salmonella	S. para-	Other			
Source	typhi	typhi	Salmonella	Shigella	Negative	Tota
tool Cultures	8		10	14	257	289
Irine Cultures	2		1		59	62
IcConkey Plates			1			1
lood Cultures	2					2
steomyelitis						
utopsy						
otal Isolations						
lumber of cases		****				
Number of bloods examined by a lumber of bloods unsuitable for a lumber of bloods examined by ap Details of Salmonella Cases:	agglutination gglutination	n test test and Details o	found positi of Shigella C	ve ases :		5 300
Number of bloods unsuitable for a Number of bloods examined by a	gglutination gglutination 9 1 5 1	n test test and Details o Shigell Shigell	found positi	ve ases:		5 300 5 5 1
Sumber of bloods unsuitable for a Sumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella heidelberg Blood Cultures	gglutination gglutination 9 1 5 1 1	n test and test and Details o Shigell Shigell Flexne	found positi of Shigella C a flexner a sonnei r II "a" type	ve ases:	Posi	5 300 5 5 1
Jumber of bloods unsuitable for a Jumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella heidelberg Blood Cultures . typhi	gglutination gglutination 9 1 5 1 1	n test test and Details o Shigell Shigell Flexne	found positi of Shigella C a flexner a sonnei r II ''a'' type	ve ases : ,	Posi	300 5 5 1 tives 87
Jumber of bloods unsuitable for a Jumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella heidelberg Blood Cultures . typhi . typhi and Paratyphoid A	gglutination gglutination 1 5 1 1	n test test and Details o Shigell Shigell Flexne	found positi of Shigella C a flexner a sonnei r II "a" type	ve	Posi	5 300 5 5 1 itives 87 70
Sumber of bloods unsuitable for a fumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella heidelberg Blood Cultures . typhi . typhi and Paratyphoid A . typhi and Paratyphoid B	gglutination gglutination 9 1 5 1 1	n test test and Details o Shigell Shigell Flexne	found positi of Shigella C a flexner a sonnei r II "a" type	ve	Posi	5 300 5 5 1 1 tives 87 70 13
Iumber of bloods unsuitable for a Iumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella heidelberg Blood Cultures . typhi . typhi and Paratyphoid A . typhi and Paratyphoid B . typhi and Paratyphoid A	gglutination gglutination 9 1 5 1 1 1 1	n test test and Details o Shigell Shigell Flexne	found positi of Shigella C a flexner a sonnei r II "a" type	ve ases :	Posi	5 300 5 5 1 1 tives 87 70 13 65
Aumber of bloods unsuitable for a Jumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella heidelberg Blood Cultures . typhi . typhi and Paratyphoid A . typhi and Paratyphoid B . typhi and Parathyphoid A and aratyphoid B	gglutination gglutination 9 1 5 1 1 1 1	n test test and Details o Shigell Shigell Flexne	found positi of Shigella C a flexner a sonnei r II "a" type	ve ases:	Posi	5 300 5 5 1 tives 87 70 13 65 20
Iumber of bloods unsuitable for a Iumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella typhi murium Salmonella heidelberg Blood Cultures typhi typhi and Paratyphoid A typhi and Paratyphoid B typhi and Parathyphoid A and aratyphoid B irucella abortus	gglutination gglutination 9 1 5 1 1 1 1 1 Paratypho	n test test and Details o Shigell Shigell Flexne	found positi of Shigella C a flexner a sonnei r II "a" type	ve	Posi	5 300 5 5 1 tives 87 70 13 65 20 21
Iumber of bloods unsuitable for a Iumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella typhi murium Salmonella heidelberg Blood Cultures . typhi . typhi and Paratyphoid A . typhi and Paratyphoid A . typhi and Paratyphoid A . typhi and Parathyphoid A . tuphi and Parathyphoid A . tuphi and Parathyphoid A . tuphi and Parathyphoid A	gglutination gglutination 9 1 5 1 1 1	n test test and Details o Shigell Shigell Flexne	found positi of Shigella C a flexner a sonnei r II "a" type	ve ases :	Pos	5 300 5 5 1 1 tives 87 70 13 65 20 21 9
Iumber of bloods unsuitable for a Iumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella heidelberg Blood Cultures . typhi . typhi and Paratyphoid A . typhi and Paratyphoid B . typhi and Paratyphoid B . typhi and Parathyphoid A and aratyphoid B Irucella abortus . tularensis . typhi, Paratyphoid A, Paratypli	gglutination gglutination 9 1 5 1 1 1 1 Paratyphol	n test test and Details o Shigell Shigell Flexne id B	found positi of Shigella C a flexner a sonnei r II "a" type	ve ases :	Posi	5 300 5 5 1 1 tives 87 70 13 65 20 21 9
Iumber of bloods unsuitable for a Iumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella heidelberg Blood Cultures . typhi . typhi and Paratyphoid A . typhi and Paratyphoid A . typhi and Paratyphoid B . typhi and Paratyphoid A and aratyphoid B . tularensis . typhi, Paratyphoid A, Paratyphi . abortus and Paratyphoid B	gglutination gglutination 9 1 5 1 1 1 1 1 Paratypho noid B and	n test test and Details o Shigell Shigell Flexne id B	found positi of Shigella C a flexner a sonnei r II "a" type	ve ases : ,	Posi	5 300 5 5 1 1 tives 87 70 13 65 20 21 9
Iumber of bloods unsuitable for a Iumber of bloods examined by ap Details of Salmonella Cases: Salmonella typhi Salmonella tennessee Salmonella typhi murium Salmonella heidelberg Blood Cultures . typhi . typhi and Paratyphoid A . typhi and Paratyphoid B . typhi and Paratyphoid B . typhi and Parathyphoid A and aratyphoid B Irucella abortus . tularensis . typhi, Paratyphoid A, Paratypli	gglutination gglutination 9 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n test test and Details o Shigell Shigell Flexne Id B	found positi of Shigella C a flexner a sonnei r II "a" type	ve ases:	Posi	5 300 5 5 1 tives 87 70 13 65 20 21

### DEPARTMENT OF PUBLIC HEALTH

### TABLE 6A

### INTESTINAL PARASITES-Calgary Laboratory

Number of specimens examined and f	found negative for parasites	45
Number of specimens examined and f	found positive for parasites	2
Ova Identified:	Cysts Found:	

Ascaris lumbricoides \_\_\_\_\_ 1 Endomoeba histolytica \_\_\_\_\_ 1

### TABLE 7

### SEROLOGY TESTS FOR SYPHILIS-Calgary Laboratory

Bloods examined—Presumptive Kahn Standard Kahn Quantitative Kahn Wassermann (Kolmer) Cerebro-spinal fluids examined by Wassermann (Kolmer) test Bloods and cerebro-spinal fluids unsuitable for examination (N.S.Q., A.C., Accidentally broken) Blood broken and leaked in transit Cerebro-spinal fluids broken and leaked in transit	23,419 2,911 380 3,163 900 470 79 9
Bloods and cerebro-spinal fluids "Positive" to reaction	328
Bloods and cerebro-spinal fluids "Negative" to reaction	24,336
Bloods and cerebro-spinal fluids giving "Doubtful, Please Repeat" reaction	172
Bloods giving "Please Repeat" reaction	417
Bloods giving "Report As Is" reaction	41
Bloods giving "N.S.Q. Please Repeat" reaction	119

### TABLE 8

### SEROLOGY TESTS FOR SYPHILIS BY MONTHS-Calgary Laboratory

Unsuit-

1	Presumptive Kahn Test		Quantitative Kahn Test	Blood Wasser- mann	C.S.F. Wasser- mann	able (N.S.Q., A.C. Haem.)
January	1,432	191	38	208	36	77
February	1,657	244	42	269	71	43
March	1,801	231	46	260	69	34
April	1,954	224	38	244	73	18
May	1,920	214	39	235	61	32
June	2,082	129	31	151	50	40
July	2,229	191	25	204	66	41
August	2,230	139	32	155	149	37
September	2,036	195	32	211	97	41
October	2,291	411	22	439	92	40
November	1,870	346	18	370	65	28
December	1,917	396	17	417	71	39
Totals	23,419	2,911	380	3,163	900	470

### TABLE 9

### PREMARITAL BLOODS FOR SEROLOGICAL TESTS FOR SYPHILIS

		Ca	algary La	boratory				
Month	Negative	Positive	Doubtful Please Repeat	Please Repeat	N.S.Q. Please Repeat	Report As Is	Unsuit- able	Total
January	317			6		1010	16	339
February	348			3		1	10	362
March	391 523	2	****	5	2		6	406
Morr	628			2			4	529
June	821	1		Ê	1 9		11	641 842
July	744		2	4	1		5	756
August	719	2	22	î			7	731
September	699	1		1		1	9	711
October	820			1	1		5	827
November	634	1		****		****	5	640
December	532	****	2		1		7	542
Totals	7.176	7	6		_	-		
TOTALS	1,110	-	0	30	9	2	96	7,326
				-			and a second	And and a design of the local division of th

### TABLE 10

### SERA AND VACCINE DISTRIBUTED-Calgary Laboratory

	tal 1952
Smallpox Vaccine: 1 point	2.876
10 points	2,325
Diphtheria Toxoid: 3 x 1 c.c. amps	1.090
6 x 3 c.c. amps	6
6 x 6 c.c. amps Diphtheria Toxoid—Diluted Reactors:	268
4 x 1 c.c. amps	12
Diphtheria Toxoid and Tetanus Toxoid—Combined: 1 person (4 x 1 c.c. amps)	220
Diphtheria Toxoid and Pertussis Vaccine-Combined:	0 470
1 person (4 x 1 c.c. amps) 9 persons (6 x 6 c.c. amps)	3,472 534
Diphtheria Toxoid, Pertussis Vaccine and Tetanus Toxoid-Combined:	
1 person (4 x 1 c.c. amps) 9 persons (6 x 6 c.c. amps)	3,649 206
Diphtheria Antitoxin:	200
1.000 units (syringe)	76
10,000 units (syringe) 20,000 units (syringe)	29 52
Schick Test:	and the
25 tests	185
Scarlet Fever Toxin: 1 person (5 x 1 c.c. vial)	856
6 persons (5 x 6 c.c. vials)	61
Strength "A"—30 doses (large)	4 4
Strength "A"—30 doses (large) Strength "B"—30 doses (large) Strength "C"—30 doses (large)	4
Strength "D"-30 doses (large) Strength "E"-30 doses (large)	4 4
Scarlet Fever Antitoxin:	
3.000 units (syringe) 9,000 units (vial)	193 348
Dick Test: 10 tests	184
Typhoid—Paratyphoid Vaccine:	104
1 person (3 amps) 5-7 persons (10 c.c. vial)	357 271
T.A.B.T. Vaccine: 1 person (3 c.c. vial)	176
Pertussis Vaccine:	040
1 person (4 x 1 c.c. amps) 9 persons (6 x 6 c.c. amps)	843 65
Tetanus Toxoid: 1 person (3 x 1 c.c. amps)	118
Tetanus Antitoxin:	
1.500 units (syringe) 5.000 units (syringe)	754
10,000 units (syringe)	30
20,000 units (syringe)	2
Stanhylococcus Toxoid: 2 x 2 c.c. vials (A & B)	129
Staphylococcus Antitoxin:	
10,000 units (vial)	5 2
Gas Gangrene Antitoxin: 4,000 units (vial)	128
10,000 units (vial)	94
Immune Serum Globulin (Human): 2 c.c.	282
Anti-Measles Serum: 5 c.c.	626
Antivenin North American Snakebite Serum:	000
1 combination package	1
Autogenous Vaccine	6

### TABLE 11

### **Clinical Pathology Investigations**

CONDUCTED FOR THE CENTRAL ALBERTA SANATORIUM DURING THE YEAR	1952
Blood counts	1,790
Urinalysis Blochemistry Investigations (Blood sugars, N.P.N.'s, etc.)	2,759 541

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# Sanitary Engineering Division

W. A. DEXTER, B.Sc. M.A.Sc., Director

The construction of new waterworks and sewerage systems continued at a high rate during 1952 as more towns and villages took advantage of Provincial Government financing at 2% interest. Eighteen municipalities completed the construction of new systems. Another twenty-two are planning the installation of these utilities during 1953.

A unique feature of this development is that systems are being installed in communities with populations as low as 320 persons. Previously these small villages could not consider such projects but with 2% money available from the Government they can manage the financing with little difficulty.

At the close of World War II there were 38 municipalities with water and/or sewerage systems. Today 95 communities enjoy the benefits of having these utilities installed. This rapid expansion of sanitary facilities represents a significant rise in the standards of living throughout the Province.

### Engineering.

In August, Dr. D. R. Stanley, Director, left the Division to join a firm of Consulting Engineers.

In August, Mr. J. A. Beveridge, Assistant Director, left the Division to assume the position of Assistant City Commissioner, Red Deer, Alberta.

*Municipal*: With the large number of municipalities installing new systems the engineering staff were kept busy checking designs, plans and specifications. This work included field surveys of the projects and many meetings with town officials and designing engineers. In addition, an engineer from this Division was often asked to speak at general town meetings on behalf of the proposed projects.

A certain amount of time was spent assisting towns with operational problems although there is a tremendous amount of work to be done in this regard. The majority of communities with existing systems need technical advice and assistance but with the limited staff of two engineers it has been impossible to keep up with this phase of our work. For this reason it is imperative that the staff be increased by at least one engineer.

During the week of April 14 to April 18 this office conducted a short course on waterworks and sewerage systems. This course was designed to aid and train town foremen, treatment plant operators and municipal engineers. The response was very good and forty men registered. They represented cities, towns and villages throughout the whole province.

Another project completed this year was the publication of a booklet of Recommended Standards for Sewerage Systems and Sewage Treatment Plants. The primary objective is to establish standards governing the preparation and submission of reports, and the general design of sewage works. These booklets are chiefly for the use of consulting and municipal engineers. This publication was the first of its kind in Canada and requests for copies were received from all parts of the Dominion. In addition, a leading technical magazine published the entire text.

Stream Sanitation: During 1952 the Stream Sanitation Section of this Division completed a pollution survey of the Bow River and its Tributaries. A report was prepared and circulated to municipal governments and other bodies directly concerned. Using this report as a basis, the Provincial Board of Health will presently be issuing directives to the City of Calgary and Town of High River stating minimum sewage treatment facilities to be provided.

Considerable information was collected on the operation of sewage detention ponds and sewage treatment plants. Sewage detention ponds are being used by numerous towns in the province where other treatment would make the installation of a waterworks and sewerage system too great a financial burden. Tests have shown that outside of aesthetic considerations correctly designed and operated sewage ponds provide treatment equivalent to secondary sewage treatment units.

Next year a stream pollution survey is planned for the South Saskatchewan drainage basin. This will include studies of wastes from Lethbridge, Taber, Medicine Hat, sugar refineries and canning factories.

The following certificates were issued by the Provincial Board of Health during 1952 covering waterworks, sewage works and hospital construction. The designs were checked by the engineering staff of this Division.

Certi-	Pro-		Design of Wester	0.4
ficate No.	visional or Final	To Whom Issued:	Proposed Works	Cost Estimated
790	F	Town of Vulcan	Water Extensions	\$ 14.800
791	F		Water and Sewer Extensions	67.250
792	P		Waterworks	79,000
793	P		Sewerage System	
794	F	Town of Grande Prairie	Water Extensions	52,969
795	F	Town of Grande Prairie	Sewerage Extensions	34.331
796			Extensions	131.000
797	F	City of Edmonton	Storm and Sewerage Extensions	1,434,200
798	P		Storm and Sewerage Extensions	1.675.000
799	P		Waterworks	146.000
800	P		Sewerage System	116.000
801	F		Waterworks Extensions	11,500
802	F		Waterworks Extensions	1.000.000
803	F		Storm Sewer Extensions	1.500.000
804	F		Water and Sewer Extensions	17.000
805	P		Sewage Disposal Plant	11,000
806	P		Sewerage System	120,500
807	F		Watermain Extensions	153,600
808	F		Sanitary Sewers	
809	P		Waterworks and Sewer Additions	45,250
810	P		Waterworks System	87,000
811	F		Sewer Extension	1.256
812	F		Sanitary Sewer Extensions	4,500
813	F		Waterworks Extensions	717,700
814	F		Sewer Construction	17,450
815	P		Waterworks System	51.275
816	P		Sewerage System	32,085
817	P		Waterworks System	69,400
818	P		Sewerage System	54,000
819	F	City of Lethbridge	Extensions to Water Plant	500,000
820	F	Village of Carstairs	Sewerage System	65,007
821	F	Village of Carstairs	Waterworks System	77.615
822			Extension	101,439
823	F	City of Lethbridge	Storm Sewer Extensions	117,000
824	P	Village of Carbon	Waterworks System	75,800
825	P	Village of Carbon	Sewerage System	35,000
826	F	Town of Brooks	Sewer Outfall & Sewage Plant	147,000
827	F	City of Calgary	Sanitary Sewers	245,000

### DEPARTMENT OF PUBLIC HEALTH

Certi-	Pro-		a logic contract the second of the	~ .
ficate	visional		Proposed Works	Cost
No.	or Final	To Whom Issued:		Estimated
828	F	City of Calgary	Sewer & Waterworks Const	3,000,000
829	P	Village of Sangudo	Sewerage System	58.211
830	P	Town of Claresholm	Waterworks & Sewer Additions	230,000
831	P	Town of Issner Place	Waterworks System	274,000
832	P	Town of Jasper Place	Sewerage System	212,200
833	F	Town of Comroso	Sewerage System Extensions	2.000
834	F	Village of Crimehaw	Waterworks Extensions	43,930
835	r	Ponoka Hornital	Addition	108.300
836	P	Village of Dicture Butte	Waterworks System Sewerage System	141,000
837	P	Village of Picture Butto	Sewerage System	100,500
838	F	Torum of Bonoka	Waterworks Extensions	12,200
839	F	Town of Donoka	Sewer Extensions	8.153
	F	Willage of Sninit Divor	Waterworks & Sewerage System	86,000
840	F	City of Red Door	Sewerage Extensions	43,000
841		City of Red Deer	Waterworks Extensions	72,500
842	F	City of Red Deer	Waterworks Extensions	1.401.141
843	-	Royal Alexandra Hospital	Waterworks System	51,275
844	F	Village of Big Valley	Sewerage System	32,085
845	F	Village of Big valley	Waterworks Extensions	7.970
846	F	Town of Brooks	Waterworks Extensions Sewerage System Extensions	9.530
847	F	Town of Brooks	Addition	
848		Brooks Hospital	Addition	100.000
849	-	Didsbury Hospital	Addition	
850	F	Town of Gleichen	Waterworks Extension	4,000
851	P	Town of Stony Plain	Waterworks System	165.071
852	P	Town of Stony Plain	Sewerage System	69,927
853	P	Village of Crossfield	Waterworks System	73,100
854	P	Village of Crossfield	Sewerage System	33.700
855	P	Town of Bow Island	Sewerage System	108,000
856	F	Town of Peace River	Waterworks Extensions	55,000
857	F	Village of Sangudo	Sewerage System	58,211
858		Salvation Army Grace	a second state of the second se	
		Hospital	Addition	261,600
859	F	City of Lethbridge	Water Main Replacements	193,000
860	F	Village of Carbon	Waterworks System Sewerage System	75,800
861	F	Village of Carbon	Sewerage System	35,000
862	F	Town of Camrose	Sewerage Extensions	5.000
863	F	City of Calgary	Sewerage Extensions	132,000
864		Elk Point Hospital	Addition	152,000
865	F	City of Edmonton	Waterworks Extensions	465,151
866	P	Town of St. Albert	Waterworks System	103,100
867	P	Town of St. Albert	Waterworks System	61,104
868	F	Village of Nobleford	Waterworks System	87,000
869	P	Village of Thorsby	Waterworks System	80,000
870	P	Village of Thorsby	Waterworks System Sewerage System	35,670
871	P	Village of Dermont	Water System	44 700
872	P	Village of Derwent	Sewerage System	32,800
873	P	Village of Smoky Lake	Sewerage System Waterworks System	102.256
874	P	Village of Smoky Lake	Sewerage System	55,303
875		Seton Hospital-Jasper	Addition Waterworks Extensions	
876	P	Town of Stettler	Waterworks Extensions	55,200
877	P	Town of Stettler	Sewer Extensions	26,100
878	P	Town of Stettler	Storm Sewers	43,900
879		Provost Hospital	Addition	121,667
880		Coaldale Hospital	Addition	100.000
881	P	Town of High Prairie	Sewerage System	116.000
882	F	Town of Lacombe	Sewer Extensions	6,607
883	P	Town of Vermilion	Water and Sewer Extensions	67.600
884	F	Town of Leduc	Water and Sewer Extensions	24.120
885	F	Town of Rimbey	Water and Sewer Extensions	12.594
886	F	Town of Rimbey	Water and Sewer Extensions	40,748
1				1000 COLOR

### Plumbing.

This year saw considerable progress towards the completion of a National Plumbing Code. The committee preparing this Code included representatives from every Province in the Dominion with Mr. J. A. Beveridge, Provincial Sanitary Engineer acting as the Alberta representative up until the time he resigned from the Department of Public Health. The Plumbing and Drainage Regulations of the Province of Alberta were used as a guide for the committee concerned as was the report of the Uniform Code Committee which was prepared in the United States. Reference was also made to some other reports.

During this year Order-in-Council numbered 151-52 was passed making it mandatory for all urban municipalities with a population of 2,000 or more, or those having a water and/or sewerage system to appoint their own plumbing inspector. This Order-in-Council became effective the first day of April 1952.

The effect of this Order-in-Council was to reduce the number of permits issued by this office as well as reduce the revenue received. During 1952 there were 878 plumbing permits issued to a value of \$6,450.00.

In order to assist the urban municipalities, a two week course was given to familiarize newly appointed plumbing inspectors with the regulations as well as with proper installation practices, etc. This course was well attended and a large number of requests have been received for the course to be held again this coming year.

There are 71 urban municipalities in the province responsible for their own plumbing inspections but this figure will be increased by at least 20 during 1953.

This Division is now mainly responsible for rural plumbing installations, however a considerable amount of time was devoted to assisting urban municipal inspectors. It was necessary on a few occasions to arbitrate disputes which arose between these inspectors and local plumbing contractors.

The past years have indicated a trend whereby farmers are becoming aware of the convenience of plumbing in farm homes and this year was no exception.

This office received a record number of requests for information concerning the installation of rural sewage disposal systems. Requests were received from every Province in the Dominion for our Rural Sewage Disposal Booklet which is one of the finest booklets of its kind in print at the present time. This public service is becoming more fully realized throughout the Province.

# TABLE 1 ANNUAL PLUMBING REPORT—1952

	New Con-			
Incorrections Dec	struction	Reconstruc- tion and	Permits	Charges
Inspections By	Total No. Fixtures	Extensions	Granted	Made
Description		488	872	\$ 6,385.50
Provincial	5,489 17,788	1.650	2.619	16,752.50
Edmonton	17.321	1,200	3.189	15,618.50
Lathhridge	2,264	468	469	1,799.00
Lethbridge Medicine Hat	1.080	183	212	424.25
Red Deer	776	20	152	399.50
Wetaskiwin	240	69	46	276.50
Drumheller	38	12	22	123.00
Hanna	359	0	99	
Banff	285	98	54	162.00
Athabasca	6	1	2	7.00
Beaverlodge	93	Ō	21	107.00
Bassano	4	26	9 -	20.00
Bowness	35	13	7	35.00
Camrose	398	47	71	416.50
Claresholm	151	83	51	153.00
Coaldale	289	31	66	
Devon	44	19	15	101101010
Didsbury	19	0	7	35.50
Fairview	81	0	29	29.00
Fort Saskatchewan	263	68	34	165.50
Grimshaw	26	1	1	
Hardisty	210	49	49	150.00
High River	79	30	30	81.00
Hythe	32	2	8	32.00
Jasper Place	11	0	2	
Lacombe	139	149	62	327.00
Leduc	124	12	32	157.50
Morinville	2	7	2	10.00
Milk River	50	4	15	60.00
Nanton	78	0	18	77.50
Okotoks	59	10	73	219.00
Olds	326		78	395.50
Peace River	96	13	114	197 50
Pincher Creek	125 197	37	25 39	127.50 212.50
Ponoka	41	4	12	60.00
Raymond	116	12	60	317.50
Stettler St. Paul	198	127	56	280.00
Stony Plain	238	2	54	270.00
Strathmore	43	-	9	
Taber	346	95	121	565.50
Three Hills	157	5	35	200.00
Trochu	69	1	19	95.00
Vegreville	103	ô	17	99.00
Vulcan	5	ő	1	5.00
Total	49,893	4,898	8,978	\$46,650.75

### TABLE 2

### ANNUAL PLUMBING REPORT-1952

Location	W.C.	Lavatory Basin	Showers and Bath	Sinks	Laundry Tubs	Special Fixtures	Septic Tanks	Privies Eliminate
Provincial	1.573	1,608	1.127	1.149	125	395	528	515
Edmonton	5,498	5,546	3,255	3.271	240	1.626	12	139
Calgary	5.121	4,918	4.270	3,751	300	161	1	50
Lethbridge	732	776	435	513	11	265	ô	92
Medicine Hat	367	350	206	265	5	70	2	14
Red Deer	223	211	141	165	11	45	1	32
Wetaskiwin	79	104	41	52	9	24	î	6
Drumheller	16	16	9	9	ő	0	ô	Ő
Hanna	93	88	83	93	ŏ	2	ŏ	93
Banff	86	77	37	62	13	40	ő	0
Athabasca	2	2	2	1	0	0	1	1
Beaverlodge	23	31	16	20	1	2	ô	17
	9	9	5	7	ô	õ	1	4
Bassano Bowness	16	13	7	8	ő	4	6	2
Camrose	133	130	59	87	1	35	1	8
Claresholm	62	61	48	54	7	6	ô	19
Coaldala	98	84	52	61	6	19	0	6
Coaldale	15	15	11	11	8	3	ő	ő
Devon					1	1	0	2
Didsbury	27	5 21	27	3 21	0	5	0	18
Fairview							~	60
Fort Saskatchewan	93	110	40	46	5	37	1	
Grimshaw	8	14	4	0	0	0	0	0
Hardisty	59	52	39	45	8	7	0	11
High River	32	30	16	26	2	8	6	8
Hythe	8	7	7	8	0	0	0	2
Jasper Place	3	3	1	2	0	2	0	0
Lacombe	77	74	42	62	9	24	0	34
Leduc	39	41	17	28	4	7	0	6
Morinville	4	3	0	0	0	0	0	2
Milk River	20	18	17	18	1	0	0	14
Nanton	24	23	17	17	9	0	0	17
Okotoks	21	20	11	4	0	4	0	14
Olds	87	89	63	62	4	1	2	40
Peace River	35	35	21	21	0	2	1	30
Pincher Creek	29	20	18	25	0	0	0	7
Ponoka	59	53	37	42	1	5	3	10
Raymond	11	10	7	10	1	6	0	7
Stettler	39	38	19	29	1	2	0	8
St. Paul	61	56	37	42	5	4	0	56
Stony Plain	68	71	41	54	1	3	0	47
Strathomre	10	15	7	11	0	0	0	4
Taber	125	115	85	89	6	21	0	43
Three Hills	62	31	20	27	2	20	0	16
Trochu	19	17	11	18	2	3	0	13
Vegreville	32	31	13	23	3	ĩ	Õ	5
Vulcan	1	1	1	1	õ	ô	ŏ	õ
					_		-	
Total	15,206	15.042	10,404	10.313	802	2.860	567	1.471
							-	

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### Sanitary Inspection.

The Sanitary Inspection Section of the Division commenced the year 1952 with a staff consisting of a Chief Sanitary Inspector and four provincial sanitary inspectors. Mr. E. Tyler, Cert. S.I.B., Provincial Sanitary Inspector, Wetaskiwin, transferred to the Civil Defence authority in February and was replaced by Mr. J. H. Broomhall, C.S.I. (C) who commenced his duties November 1, 1952. Mr. S. Johnsen, C.S.I. (C), Provincial Sanitary Inspector, Calgary passed away in July and had not been replaced to the year's end. Mr. H. Dean, Cert. S.I.B., Provincial Sanitary Inspector, Lethbridge, resigned from the staff effective November 30, 1952. The Sanitation Section therefore carried on through most of the year with a reduced staff which of course reduced the effectiveness of its program to a considerable extent.

The Town of Morinville and the Village of Grimshaw passed compulsory pasteurization by-laws during the year, increasing the total number of cities, towns and villages with such by-laws to 32 at the year's end. A new pasteurization plant was opened at Beaverlodge during the year while plants at Black Diamond, Magrath and Okotoks discontinued operation thus reducing the total number of plants supplying pasteurized milk to the public to 74 at the year's end. The communities where plants closed have been able to obtain pasteurized milk from other plants. Six private pasteurizing plants supplying milk to schools and institutions continued to operate.

Provisional Certificates of Approval were issued covering the sites selected for 17 new cemeteries during the year. Final Certificates were issued to 56 cemeteries, the majority of which covered cemeteries established prior to the coming in force of Regulations requiring such certificates.

The program of assisting Local Health Authorities in dealing with sanitary matters was continued though the amount of assistance was of necessity reduced due to staff limitations. Routine inspections of food handling establishments and as far as possible of milk producing establishments were made. A number of proposed waste disposal ground sites were inspected and where these were found satisfactory, approvals were granted. In addition, complaints and requests concerning sanitary matters received from the public were dealt with.

During the tourist season tourist camps were inspected for sanitary conditions and classified in co-operation with the Department of Industries and Labour. In excess of 1,700 cabins in 193 tourist camps were licensed during the year and inspections were made and advice given to persons building or planning new tourist camps.

A number of logging camps in the northern and central sections of the province were inspected during the winter months.

During the months of January and February the Division assisted the Mountain View Health Unit is carrying out a flood rehabilitation program in the Town of Bowness. This program assisted residents of the town in restoring their homes to a sanitary condition as well as providing for the safety of water supplies and sewage disposal. The Division devoted six man weeks of Sanitary Inspectors' time to this program. A summary of the inspections made by the Provincial Sanitary Inspectors during the year 1952 is appended hereto. The total of inspections is 1,526, somewhat less than the 2,724 inspections made in 1951 but may be accounted for by the reduction in staff.

The restaurant inspection program carried out by the Provincial Sanitary Inspectors during the past few years has begun to show results in the improvement of sanitation standards in this industry. However it has been noted that where the inspection service became infrequent due to the reduced staff available that in many instances the rate of improvement was not continued and that in some cases there has been a return to lower standards.

The reduction in the number of inspectors employed during most of the year prevented the Division from continuing in full measure the program of dairy inspections commenced in 1951. It is therefore not possible to assess the results achieved but from such inspections as were made it appears there is need for an intensification of this program. Conditions under which milk is produced for human consumption are in many instances unsafe. In many communities this milk is distributed without pasteurization.

While no routine inspection program of waste disposal grounds was carried out, some of these were inspected in response to complaints and requests. These inspections and other observations indicate that a number of established waste disposal grounds are not satisfactory as to method of operation, encourage fly breeding and could become rat harborages and feeding grounds. It would appear that the Division should make provision for the routine inspection of waste disposal grounds particularly those located in areas endangered by rats.

The number of complaints which were received concerning sanitary conditions at logging camps increased. The inspections made in answer to these complaints and those made in a routine nature have indicated that in certain districts the sanitation standards in these camps are low though of course there are exceptions. The Division has great difficulty in providing inspection service to more than a token number of these camps due to the limitation of their operating season, remoteness, and limited staff available. About 1,000 of these camps operate during part of the winter throughout the province. Some of these will now be in Health Units which were established during the year but it is anticipated that the majority because of their remote locations will remain a responsibility of the Provincial Department.

### DEPARTMENT OF PUBLIC HEALTH

### SANITARY INSPECTIONS-1952

	Classes of Inspections	Complaints	Reques	t Routine	Follow	Total
	Milk: Producers and Producer-					
1.		1	5	110	6	122
	Distributors		24	42	8	75
	Milk: Milk Plants		3	11	6	20
-	Milk: Other than above		1	637	40	683
4.	Restaurants		3	79	5	88
5.	Other Food Handling Establishments .		20	15		9
	Housing		1	58		61
7.	Industrial and Construction Camps			90	****	01
8.	Hotels, Tourist Camps, Trailer Camp	ps, 3	5	212	14	234
-	Recreation Camps		5	14	1	27
9.			Э	14	5	9
10.	Sewage Disposal: Public Systems			18	5	24
11.	Water Supplies: Private	Z	9		4	34 22 2
	Water Supplies: Public		3	15		22
13.	Swimming Pools			2		14
15.	Nuisance Grounds		27	10	1	53
14.	Cemetery Sites	4	1	41	1	
16.	Garbage Disposal	5	2	13	2	22
17.	Town General Sanitation	2	1	3	****	0
18.	Slaughter Houses			4		4
19.						
	Livery Barns, etc.		1	13		14
20.	Miscellaneous Inspections	2	13	8	4	27
	Totals	37	88 *	1,299	102	1,526
			-			
	Communicable Disease Investi	rations			7	
		and the second				
	Samples submitted for Laborat	ory Exanm	ination:			
	Water Bacteriological				81	
	Water Chemical					
	Milk					
	Other Material					
	Notices Issued				1	

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# Hospital and Medical Services

M. G. MCCALLUM, M.D., D.P.H., Director

The number of approved hospitals in the Province was decreased in 1952 by the closing of the General Hospital at Cadomin and the union of the Lethbridge Isolation Hospital with the Galt Hospital. The number of municipal hospitals was increased by one when the Oilfields General Hospital at Turner Valley became a Municipal Hospital in July.

There is still a shortage of over three hundred nurses in the Province as at December 31, 1952. However this is partially due to the increase in hospital beds throughout the Province. The increase in Certified Nursing Aides compensates to some extent for the shortage of nurses.

### Approved Hospitals.

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

	1952	1951
Protestant	6	6
Municipal	51	50
Municipally operated	6	6
Industrial	2	3
Service Group	2	2
Lay Corporation		2
Provincial	1	1
Catholie	31	31
	-	
	99	101

The Isolation Hospitals in Edmonton, Calgary and Lethbridge are included with the respective city hospitals. The hospital at Hythe is a sub-hospital of Grande Prairie Municipal.

### Private Hospitals.

There were 12 private hospitals licensed to operate in 1952. Statistics.

The following tables give statistical data for each approved hospital in the Province.

- Table 1—Bed Capacity, Bed Complement, Patients under Care during year;
- Table 2-Patient Days and Occupancy;
- Table 3—Staff;

Table 4—Operating Expenditures;

Table 5-Revenue for Operating Purposes;

Table 6-Distribution of Hospital Costs;

Table 7-Grants and Payments to Hospitals;

Table 8-Hospitalization Payments to Local Authorities;

Table 9-Hospitalization of Alberta Population by Age;

Table 10—Length of Stay in Hospital by Patient Type.

The information concerning 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 data for 1951, for comparative purposes.

HOSPITAL BEDS		
	952 complement Cap	1951 acity Complement
Beds and Cribs 5,752 Bassinets 1,022	6,159 5,	521 6,239 998 1,132
6.774		519 7,371
Beds per thousand population (exclud- ing Bassinets) 5.9		5.9 6.6
Beds per thousand population, (includ-		6.9 7.8
Patients accommodated per bed per year	30.2	07.0
(excluding newborn) PATIENT DAYS	00.2	21.3
	1952	1951
Adults and children Newborn	$1,614,151 \\ 231,292$	1,558,524 219,896
All patients	1,845,443	1,778,420
Patient Days (excluding newborn) per population	1.6	1.6
PATIENTS UNDER CARE DURING	THE YEAR	
	1952	1951
Adults and children Average stay	186,025 9.0	170,517 9.0
Newborn	28,164 8.5	26,025 8.6
Total	214,189	196,542
Average stay Average in hospital daily	5,042 8.9	4,872 8.9
% of population in hospital daily % of population admitted per year	0.51 21.4	0.52 20.3
STAFF	1952	
Total Staff	. 6,443	
Graduate		
Student Nurses Aides:		
Certified Trainee		
Orderlies	: 116	
Internes Salaried Doctors	. 31	
Technicians Dietitians		
All Others	. 3,023	
BIRTHS	1050	1051
Births (excluding Indian) in approved	1952	1951
hospitals Total stillbirths	27,400 367	25,291 363
Percentage of births in approved hos-		000
pitals to total births in Province (ex- cluding Indian)	94.6	95.3
NURSES IN TRAINING	3	
	1952	1951
Number of schools	10 383	10 367
NURSING AIDE SCHOO	L	
	1952	1951
Number of Trainees Number of Certified Aides since 1946	188 960	
Number of Aides certified in 1952	215	

### FINANCIAL

	1952	1951
Total operating revenue	\$17,340,006.97	\$14,676,755.56
Total operating expenditure	17,188,076.16	15,060,818.45
Revenue per patient per day Expenditures per patient per day Salaries and wages	10.29 10.20 52.6%	9.04 9.27 49.7%
Supplies Purchased services Insurance	31.1% 3.1% 0.9%	34.5% 3.0% 0.8%
Depreciation Repairs and replacements	4.4% 3.7%	4.4% 3.5%
Interest and exchange	2.8% 1.4%	2.5% 1.6%

### PROVINCIAL GRANTS AND PAYMENTS TO HOSPITALS AND LOCAL AUTHORITIES

Per Diem (70 cents) Hospitalization Grant	Days 1,694,276 214,826 179,016 553,701 19,357	Amount \$1,186,044.45 1,368,922.05 1,164,339.60 1,316,831.30 46,456.80
Total		\$5,082,594.20
Poliomyelitis Hospitalization Cancer Hospitalization Welfare Department Payments		284,924.35 61,884.55 105,280.00
		\$5,534,683.10

### SPECIAL SERVICES FOR PENSION GROUP

	Fical Year 1952/53
Payment to Optometrists	\$ 14,262.00
Number of refractions	3,300
Payments for Glasses	46,066.93
Number of claims	5,337
Payment for physiotherapy, chiropractis, etc.	1.122.50
Payments to Dental Association	99.058.56
Number of claims	4,908
Payments to College of Physician & Surgeons	
Total Payments	\$632,217.49

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	he		nborn	Vev	00000	014	37 37 47		m	
	Deaths		ldren ults and		16 12 12 12 12	246 46 46 46	23 280 380 24 145	3112	P40P	100004
-	Discharges		nborn	Vev	202 64 84 84	44 257 267 40 145	254 2,413 2,391	211 432 57 233 20	109 40 128 78 78 78	50 3324 270 50 50 50 50 50 50 50 50 50 50 50 50 50
	Discho	Thiselia	ldren Jts and		1,558 713 1,475 724 463	448 542 1,611 548 1,356	${1,566\atop {10,894\atop {828\atop {11,830\atop {11,830}}}}$	3,285 3,285 306 1,168 320	1.264 219 1.174 438 447	529 982 262 859 2,160
	otono	STOTIS	urodv	Nev	201 65 219 84 84	43 73 257 43 144	261 2,434 2,445	206 439 58 235 235 235 21	108 135 135 67	53 53 27 340
	Adminotone	STUIDV	ldren Idren		1.573 722 1.491 742 476	449 551 1,654 471 1,385	$1,601\\279\\11,289\\839\\11,991$	216 3,350 305 1,181 1,181	1.270 220 1.178 442 445	1,001 265 869 2,200 2,200
			[E	toT	$1.792 \\ 805 \\ 1.741 \\ 838 \\ 581 \\ 581$	500 643 1,939 518 1,561	$1,887\\323\\14,031\\888\\14,705$	435 3,840 3,67 1,441 352	1,399 266 1,341 527 531	603 1,064 296 995 2,612
	ng Year			ų.	1,006 410 1,013 343	295 370 1,056 930	1,103 1,103 8,747 436 8,983	316 2,291 174 918 918	837 139 779 297 310	332 571 191 613 1,513
	Care During		IntoT	M.	786 395 373 373 238	205 273 283 883 245 631	$     \begin{array}{c}       784 \\       5.284 \\       5.722 \\       5.722     \end{array} $	1,549 1,549 193 523 161	562 127 562 230 230 221	271 493 105 382 1,099
		тюфиэМ		F.	100 32 106 45 45	134 134 76	121 1,209 1,210	94 210 233 122 10	33252	222
T .ONT	Patients Under			M.	107 33 118 118 54	24 28 196 196 74	143 1,284 1,279	234 234 117 117	35119	169 169 169 169 169 169 169 169 169 169
4		u	Childre	ġ.	906 378 907 299	275 323 922 854	982 134 7,538 436 7,773	222 2,081 151 796 181	778 717 260 275	305 546 180 558 1,334
Idvi		bne stlubA		M.	679 362 610 332 184	181 245 757 226 557	641 189 4,000 4,443	1,315 158 158 406 150	509 108 488 189 189	232 464 322 322 930
	ement	1000		stoT	52 66 30 30 14	222 23872 49	42 156 380 399	33 116 116 37 21	36 23 29 29	28 33 32 33 33 34
	Bed Complement	Number	stania	Base	13 66 44	10 10 10 10 10	8 09 23	116 18 18 16 16 16 16 16 16 16 16 16 16 16 16 16	000014tr	13356
	Bed 0		s	Bed	39 60 33 10	17 22 41	34 320 320 336	17 28 17	23 23 23 23 23 23 23 23 23 23 23 23 23 2	20 23 79 79
	city	r	Ie	HoT	33 15 23 15 23 15 25 15 25 15 25 15 25 15 25 25 25 25 25 25 25 25 25 25 25 25 25	23 26 33 33	38 156 361 361	53 120 16 16 14	33 30 30 30	21 16 32 72
	Bed Capacity	Number	stonia	Base	66745	10 10 10 10	60 54	64 538 0 4 538	00 07 02 07 07 07	0 0100
	Bed	4	s	Bed	245 242 28 242	16 21 28 28 28	31 301 371	28 128 128 128 128 128 128 128 128 128 1	86458	18 11 16 15 16
			Hospitals		Athabasca, Municipa, Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass, Mun. Bonnyville, Kath. H. Prittie Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General (a) Isolation Calgary, Holy Cross	Calgary. Salvation Army Grace Camrose. St. Mary's Cannore. Cannore 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 Didsbury, Municipal Drumheller, Municipal

TABLE No. 1

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### DEPARTMENT OF PUBLIC HEALTH

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37	49 18	01	<sup>63</sup>   <sup>63</sup>		0000 H	00041	2   <b>4</b> 6
11 12 55	9   8	40	00000	10	16102	N 100H	13
179 158	197 269 269 50	11 29	11 3 4 4 5 3 4 5 3 4 5 5 4 5 7	25 25 20	29 29 29 29	9 36 28 28	71 39 144 9
98 134 1,056 2,335	3,255	209 134 34	150 150 49 62	55 55 342 39 141	60 316 220 156 23	72 122 224 289 178	420 823 59
973 973 9,676 159 10,581	${}^{14,606}_{1,026}\\{}^{43}_{12,256}\\{}^{12,256}_{1,782}$	200 20 1,146 1,822 230	1,029 361 361 459	909 534 2,129 936 936	657 2.164 1,660 965 306	713 1.049 1.408 1.408 2.794	3,310 97 6,152 1,485 1,485
100 1,070 2,386	3,312	212 137 34	152 56 50 50 50 50 50 50 50 50 50 50 50 50 50	55 56 352 38 38 38	64 326 219 162 23	74 123 225 297 180	430 843 199 59
974 135 9,886 24 10,739	$^{14,846}_{1,048}$ $^{10}_{12,600}$ $^{12,600}_{1,819}$	256 8 1,152 1,854 238	1,037 620 362 362 459	918 535 2.159 267 961	667 2,209 1,694 993 305	$^{724}_{1.423}_{1.423}_{1.423}$	3,401 100 6,227 1,493 1,493 1,493
$1,090\\11,181\\11,181\\13,366$	$18,541 \\ 1,084 \\ 45 \\ 14,301 \\ 1,924$	267 20 1,391 2,026 2,026 280	1,218 717 420 551	989 595 2,560 311 1,127	$\begin{array}{c} 742\\ 2,602\\ 1,936\\ 1,176\\ 342\end{array}$	$^{806}_{1,200}$ $^{1,665}_{2,192}$ $^{2,192}_{3,054}$	$ \begin{array}{c} 3.910 \\ 104 \\ 7.191 \\ 1.728 \\ 541 \end{array} $
614 6.145 6.145 89 8,403	10,985 509 7,584 ailable	138 1,211 167	231 709 414 229 326	554 319 1.457 153 621	438 1.511 1.124 676 197	321 722 980 1,333 1,747	2.278 41 4.380 992 317
476 5,036 4,963	7.556 575 575 23 6.717 N't av	129 20 647 815 113	190 509 303 191 225	435 276 1,103 158 506	$     \begin{array}{c}       304 \\       1,091 \\       812 \\       500 \\       145 \\       145     \end{array} $	485 478 685 859 1,307	1,632 63 2,811 736 224
54 66 512 1,196	1,577	110 74 14	26 28 28 33 33 33	32 26 169 16 61	30 178 105 80 11	36 74 138 138 87	197 429 104 33
47 75 574 1,229	1.791	2021	86488	888888 888888	34 158 118 86 13	38 50 164 98	240 100 28
560 5,633 5,633 7,207	9,408 509 6,873 6,873	138 634 1.137 153	201 626 375 208 300	522 293 1,288 137 560	1,333 1,019 596 186	285 648 874 1,195 1,660	2,081 41 3,951 888 284
429 4,462 3,734	5.765 575 23 6.003 N't av a	129 20 541 750 93	167 436 256 162 187	410 246 915 135 418	270 933 694 414 132	447 428 564 695 1,209	$     \begin{array}{c}       1,392 \\       636 \\       2,380 \\       636 \\       196 \\       196     \end{array} $
35 12 278 341	657 854	1385	34 83 34 23	31 222 108 48	31 89 23 23	20 34 68 68 107	141 225 47 34
62 28 6 8	88	600	103	186	8 15 8 6	6 16 12 12	18 40 10
27 6 250 279	569	37 38 38	19 24 28 30 30	25 90 39	23 54 39 17	15 32 32 32 32 32 32 32 32 32 32 32 32 32	123 185 37 27
34 8 237 358	540	488	27 20 34 20	20 99 44	26 55 36 17	33 33 31 66 66 107	94 33 30
\$ 31 ° °	80	000	401 0 4	3 20 -1 21	6 112 8 8 4	8 8 16 12	8 4 8 8
29 6 212 294	460	37 26 16	23 32 16 16	15 8 79 35	20 44 13 28	26 23 35 35 35	86 29 22
Eckville, Municipal Edmonton, Beulah Home Edmonton, General (a) T.B. Division Edmonton, Misericordia	Edmonton, Royal Alexandra (a) Isolation (b) T.B. Division Edmonton, University of Alberta (a) D.V.A.	(b) Polio (c) T.B. Division Edson, St. John's Elk Point, Municipal Elnora, Municipal	Empress, Municipal Fairview, Municipal Fort Macleod, Municipal Ft. McMurray, St. Gabriel's Ft. Vermilion, St. Theresa	Galahad, St. Joseph's Glendon, Municipal Grande Prairie, Municipal (a) Hythe SubHospital Hanna, Municipal	Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal Islay, Municipal	Jasper, Seton Killam, General Lac la Biche, St. Catherine's Lacombe, Municipal Lamont, Archer Memorial	Lethbridge, Galt Lethbridge, isolation Lethbridge, St. Michael's General McLennan, Sacred Heart Magrath, Municipal

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ANNUAL REPORT, 1952

# TABLE No. 1-Continued

1				0   10	H4 0	10 H 01	44    0	0-04-	i i⊣ iø
		births	IIIIS			.00000		40010	
	iths	Newborn				1			
Deaths		ilts and		7 88 111	11 31 8	11120	56 12	32 21 16 14 14 14	11 33 24 24
	rges	Newborn		104 84 718	39 48 198 39 201	131 198 114 1123 117	441 143 105 74 119	255 271 239 138 105	59 59 170
Discharges		lits and		561 473 1,141 3,893 6	847 572 955 337 1,474	1,217 1,099 877 862 598	2,825 984 737 418 1,207	2,061 2,025 1,590 739 870	357 567 582 982 2.295 1,056
	ions	NDOTR	New	103 85 151 717	41 51 207 40 202	130 203 118 118 118	454 146 109 78 119	262 280 309 138 109	58 60 173 173
	Admissions	ilts and		564 485 1,149 4,012 6	865 580 580 990 332 1,489	1,246 1,108 888 876 607	2,892 987 751 425 1,221	2,079 2,055 1,608 750 885	364 577 981 2,346 1,083
		Įe	Tot	679 575 1,315 4,824 6	918 640 1,217 380 1,720	$1,392 \\ 1,331 \\ 1,020 \\ 1,013 \\ 738 \\ 73$	3,413 1,146 877 511 1,356	2,382 2,395 1,909 1,008	434 650 2,579 1,274
ng Year			F.	413 333 667 2,821 2	529 393 707 206 961	770 587 587 602 477	2,051 706 444 317 743	1,375 1,354 1,164 564 622	287 341 629 1,525 753
Care During		IntoT'	M.	266 242 648 648 2,004	389 510 174 759	622 562 433 411 261	1,362 440 433 194 613	1,007 1,041 797 345 386	147 309 465 1.054 521
r Care				47 65 353	32933	38822	240 69 56 51	127 134 155 155 58	31 31 31 31 31
Unde	u	Newbor	M.	39 381 381	18 20 111 16 110	69 105 57 57	222 78 54 36 72	139 151 153 67 53	36 32 99 99
Patients Under	u	Children	ų.	353 286 602 2,467 2,467	506 362 610 862 862	707 670 529 538 413	1,811 637 388 274 692	1.248 1.220 1.009 488 564	263 310 588 1,426 676
-	pui	stlubA	M.	220 203 562 1,623 4	371 227 399 158 649	553 457 373 347 204	1,140 362 379 158 541	868 890 838 838 838 838 833 278 333	1111 2777 4117 9555 9555
ment		IstoT		17 177 117	286233	282322	28 28 28 28 28 28 28 28 28 28	233869	37 24 38 50
Bed Complement	Number	stents	Bas	8 00 10 CI	400000	11 6 6	20 8 6 6 6 11	24 24 12 9 8 8 12 3 8	10210
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ity		Is	Tot	16 19 128 128 11	30 46 22 46 46 46 46 46 46 46 46 46 46 46 46 46	70 236 23 23	134 27 28 31	61 33 56 26 26 26 26	37 35 99 41
Bed Capacity	Number	stants	Bas	44801	40000	00000	88.910.4	16 5 5 10 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6 10 14 4
Bed	N	st	Bed	12 15 118 118	26 31 37	64 13 18 18	104 15 27	232355	31 37
Market and Market		Hospitals		Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal 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, Geo. McDougall Spirit River, Holy Cross	St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Three Hills, Municipal Tofield, Municipal	Trochu, St. Mary's Turner Valley, Municipal Two Hills, Municipal Vegreville, St. Joseph's General Vermilion, Municipal

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### DEPARTMENT OF PUBLIC HEALTH

010000	10	367		11	367	1	367	
1000	00 64	477		T	478	I	478	
13 20 49	10	2,991		11	2,991	57	2,934	
76 140 137 230 310	366	27,128	-	13	27,153	1	27,153	
764 442 1,107 1,482 2,777	2,252 826	178,854		93 64	650 179,011	2,400	76,611	
76 137 239 314	377 64	27,625		13	27,650	1	27,650 176,611	
$     \begin{array}{c}       783 \\       449 \\       1,488 \\       2,833     \end{array}   $	2,303	182,028		93	182,185	2,396	681, 671	
879 605 1,283 1,767 3,203	2,721	214,007 182,028 27,625 178,854		106	4,477 13,687 88,555 123,710 214,189 182,185 27	2,741	211,448 179,789	
521 397 744 999 1,820	1,560	14,462 13,677 88,462 123,621		30	\$ 110	383	123,327	
358 208 539 1,383	1,161 368	* 88,462		47 46	*	. 434	88,121	
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34 63 116 171	203	14,462	-	4 00	14,477	1	14,477	
476 315 672 873 1,672	1,382	7,308 74,000 109,944		55	*	* 383	6,943 73,644 109,640 14,477 13,687 88,121 123,327	
324 146 470 652 1,212	958 335	74,000	1.45	88	* 74,078	• 434	73,644	ilable.
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15447	15 4	1,162		100	1,165	1	1,165	
348 348 348 348 348 348 348 348 348 348	47	5,727 1,014 6,741 6,146		13	5,752 1,022 6,774 6,159	381	5,778	Hosp
118 622 932 932	58 16	6,741		14	6,774	381	6,393	versity
402481	33	1,014		010	1,022		5,371 1,022	of Uni
14 14 14 15 15	46	1.000		11	5,752	381	5,371	vision
Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata	Wetaskiwin, Community Willingdon, General	Total for Hospitals Operating Full Year	Hospital in Opertion only part of the year:	Cadomin, General Nordegg, General	Grand Total	Less D.V.A., Orthopaedic, Polio, and T.B. Division Cases	NET TOTAL	*Does not include D.V.A. Division of University Hospital

\*Does not include D.V.A. Division of University Hospital--not available.

		ed or Deceased Dis-	Newborn Total	7.5         5.2         47.7           6.7         13.2         63.8           7.1         6.6         110.4           7.8         7.0         53.9           5.4         5.9         86.4	9.3         6.1         47.7           8.5         8.4         59.7           6.6         7.3         46.4           7.9         7.1         126.9           8.3         7.1         126.9           7.9         7.0         107.0	7.0         7.0         100.6           8.2         125.0         57.5           8.2         9.0         108.8           8.2         9.1         81.5	10.0         10.0         23.6           8.8         7.1         6.5         45.3           6.9         6.5         6.5         86.4           7.6         6.6         86.4         7.3           7.4         7.9         50.1	8.3 73.8 9.5 9.1 5.9 8.2 8.2 61.1 9.1 5.9 44.1 9.5 5.4	10.0 9.8 73.5 9.1 6.1 102.7 7.6 8.8 52.0 8.7 7.4 67.3
		Average Stay charged	Adults and Children	85 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.	584 544 714 714 718 718 718 718	9 7.0 1 125.0 1 17.8 9.2 17.8 9.3	66 10.0 66 65 89 65 64 80 80 80	200 201 201 201 201 201 201 201 201 201	9.8
INCE	DAYS	Patients Dis- Deceased	Total	523 9.159 433 10.399 559 11.256 664 5.765 535 3.378	409 3,005 611 5,219 720 14,054 322 3,595 241 12,062	01 12,849 24,752 69 123,341 15,190 131,127	27 4.346 64 27.056 99 2.393 94 9.349 48 2.718	907 8,043 311 1,927 249 10,862 713 3,110 665 5,073	650 5.832 464 6.389 205 2.583 979 7.212
10000	INT	of I	nd Newborn	7,636 1,52 9,9666 43 9,697 1,55 5,101 1,55 2,843 53	1 1	190 19,98	219 2.127 192 3.864 3994 3.899 555 1.794 1.794 148		5,182 5,925 2,378 6,233 97 97
AINT		Patient	Adults and Children	8.844 7.6 10.248 9.9 5.786 5.1 3.381 2.8	3.202 2.596 5.205 4.608 13.937 12.334 4.080 3.273 12.188 10.821	223         11,048           849         24,752           5600         103,372           017         15,190           748         111,147	2556 2.219 363 23,192 396 1,994 7.555 721 2,570	7,997 7,1855 1,685	
PALIENT DAYS		uring 1952	n Total	512 567 567 512 566 512 512 512 512 512 512 512 512 512 512	407 3.1 617 5.1 710 13.5 364 4.0 218 12.1	1,809         13,223           9,802         32,849           124,600         15,017           00,123         130,748	2.099 4.256 3.843 26.363 406 2.396 1.784 9.369 1.784 2.721	894 7.8 309 11.0 2700 10.0 617 5.1	658 5,498 479 6,494 200 2,867 983 7,141
NO. 2-PA		ent Days Dı	nd Newborn	332 1, 815 696 1, 126 1, 126 1, 1, 846	795 5588 716 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			7,103 1,576 9,387 2,421 4,539	4,840 6,015 2,667 6,158
TABLE	Patie	Adults and Children	ເຕີດີດີເດີດໂ	44 <u>1</u> 40	11,414 32,840 104,798 15,017 110,625	2,157 2,520 1,990 7,585 2,566	·		
		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, Kath. H. Prittie Bonnyville, St. Louis	Brooks, Municipal Calgary Alberta Red Cross Calgary, General (a) Isolation Calgary, Holy 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

TABLE No. 2-PATIENT DAYS AND OCCUPANCY

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### DEPARTMENT OF PUBLIC HEALTH

71.2 90.0 123.2 79.0	94.1  65.3 ailable	able 65.3 56.5 127.7 37.2	45.8 61.8 106.2 28.4 167.1	87.1 100.3 70.0 70.5	73.9 113.5 73.6 53.3 53.3	50.3 65.8 97.4 52.4 52.4	112.4 77.2 102.5 47.5
5.9 16.4 9.1 7.8	15.7 308.3 12.3 Not Avai	Not Availat 7.2 6.7 9.1	10.3 7.0 8.7 21.8	10.00 0 0 4 0 0 4 1 -	80 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6.9 6.6 6.0 7.7 8.1	9535 1365 9733 953
7.1 18.1 8.3 7.3	8.3 	lable 9.7	10.5 7.7 10.0	ಅ∞⊨∞ಅ ಹಗೆ ≓ಬೆಲೆ	11.1 8.2 7.3 9.8	10.6 9.7 8.8 8.6	9.2 8.6 7.7 7.7
5.7 14.7 9.2 7.9 7.9	9.1 15.7 308.3 12.6 Not Avai	59.6 Not Avail 6.7 9.0	10.3 6.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8	លល់ស្គង សូស្កង សូស្ក	8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	8 12 8 12 0 8 12 8 12 8 12 0 8 12 8 12 8 12 0 8 12 8 12 8 12 8 12 0 8 12 8 12 8 12 8 12 8 12 8 12 8 12 8 12	9.25 9.73 9.73 9.73
6,294 4,437 99,217 43,905 101,960	161,671 16,568 13,875 170,731	7,003 9,841 13,260 2,502	4.221 8.374 6.056 3.743 11.470	5,281 3,456 21,620 1,961 9,598	6.135 19.416 13.153 9.523 2.745	5,494 7,789 9,819 16,641 24,445	36,234 1,386 58,084 12,420 5,062
703 2,438 8,897 17,541	27,359 13,341 lable	llable 2.074 2.074 1.057	1.170 643 386 640	541 467 2,496 1,466	2,665 1,617 1,232 236	785 1,186 1,623 2,594 1,540	3,935 7,254 1,494 475
5,591 1,999 90,320 43,905 84,419	134,312 16,568 13,875 13,875 157,390 Not Avai	Not Avai 7.767 12,203 2,171	3.685 7.204 5.413 3.357 10,830	$\begin{array}{c} 4.740\\ 2.989\\ 19.124\\ 1.639\\ 8.132\end{array}$	$ \begin{array}{c} 5.447\\ 16.751\\ 11.536\\ 8.291\\ 2.509 \end{array} $	4,709 6,603 8,196 14,047 22,905	32,299 1,386 50,830 10,926 4,587
6,573 4,396 96,573 7,884 102,402	166,993 16,623 2,318 168,110 46,348	$11,919 \\ 1,344 \\ 9,700 \\ 13,209 \\ 2,510 \\ 2,510 \\ \end{array}$	4.392 8.380 6.089 3.299 10,423	$ \begin{array}{c} 5.315 \\ 3.418 \\ 3.418 \\ 1.928 \\ 10.487 \\ 10.487 \end{array} $	6,117 19,696 13,476 9,459 2,768	5,576 7,687 9,818 16,634 19,768	37,957 1,359 58,349 12,392 4,287
711 2,419 8,831 17,416	27,531	2,050 1,057 331	1,141 647 638 638	535 480 2,445 1,460	2.670 1.630 1.243 233	785 1,186 1,617 2,580 1,532	3,951 7,174 1,511 463
5,862 1,977 87,742 7,884 84,986	139,462 16,623 2,318 154,719 46,348	11,919 1,344 7,650 12,152 2,179	3.857 7.239 5.442 9.785	4.780 2.938 18.645 1.608 9.027	5,410 17,026 11,846 8,216 2,535	4,791 6,501 8,201 14,054 18,236	34,006 1,359 51,175 10,881 3,824
Eckville, Municipal Edmonton, Beulah Home Edmonton, General (u) T.B. Division Edmonton, Misericordia	Edmonton, Royal Alexandra	(b) Polio (c) T.B. Division Edson, St. John's Elk Point, Municipal Elnora, Municipal	Empress, Municipal Fairview, Municipal Ft. Macleod, 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 Innisfall, Municipal Islay, Municipal	Jasper, Seton Killam, General Lac la Biche, St. Catherine's Lacombe, Municipal Lamont, Archer Memorial	Lethbridge. Galt Lethbridge. Isolation Lethbridge. St. Michael's General McLennan. Sacred Heart Magrath, Municipal

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	i Dis- Occu- Dancy	Total	5.1 61.2 7.2 63.0 6.4 90.1 7.0 11.0	5.8 51.6 6.2 74.4 9.6 84.3 6.2 30.6 8.4 89.0	6.9 35.3 6.7 74.5 6.6 125.9 5.8 90.2 5.8 54.0	7.9 57.5 6.7 92.1 8.4 78.1 5.8 41.6 8.3 102.4	7.1 85.4 8.8 7.6 90.2 5.8 44.3 6.0 67.5	11.5 37.1 8.3 104.7 6.9 72.0 8.6 63.6 7.4 60.8
	ay of Patients ed or Deceased	Newborn T	7.0 7.8 9.0	8.7 8.0 8.7 9.2 11.4	46,49 49,649 40,64940 40,649 40,649 40,64940 40,649 40,649 40,64940 40,649 40,64940 40,649 40,64940 40,649 40,64940 40,649 40,64940 40,649 40,64940 40,649 40,64940 40,649 40,64940 40,649 40,64940 40,649 40,649400 40,649 40,64940 40,649 40,649400 40,649 40,64940 40,649 40,649400 40,649 40,649400 40,649 40,649400 40,649 40,6490	8 19 8 9 8 8 8 9 8 8 8 9	10.5 7.2 8.1 6.9	0.0888 1.0888 0.0888
	Average Stay charged o	Adults and Children	4.7 7.1 8.6 7.0	80.90 80.00 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 10 10 10 10 10 10 10 10 10 10 10 10		7.00000 1.100100	6.1 7.9 7.7 7.0 7.7 7.0 7.0 7.0 7.0 7.0 7.0 7.0	11.8 8.2 6.7 8.5 7.5 7.5
YS	Patients Dis- Deceased	Total	3,424 4,080 8,213 41,102 42	5,165 3,898 3,898 11,367 11,367 14,127	9,375 8,822 6,610 5,774 4,217	26,259 7,569 7,212 2,916 11,114	16,764 20,686 14,605 5,166 5,931	7.2380 7.280 7.380 21.568
PATIENT DAYS	of	Newborn	731 667 1,486 6,498	347 393 1,766 2,352	1,208 1,577 1,177 1,177 1,177 898	4,016 1,124 1,003 597 1,050	2,714 2,009 2,496 1,123 1,123	580 573 573 1,693
PA	Patient Days charged	Adults and Children	2,693 3,413 6,727 34,604 42	4,818 3,505 9,601 1,957 11,775	8,167 7,245 5,893 5,893 4,597 3,319	22,243 6,445 6,209 2,319 2,319 10,064	14,050 18,677 12,109 12,104 4,043 5,194	4,347 4,700 6,614 19,875
	ng 1951	Total	3,414 4,154 8,089 40,089	5,261 3,961 3,961 11,359 14,333	9,460 8,686 6,717 6,717 6,717 6,717 6,717	25,996 7,542 7,293 2,891 11,156	20,241 14,796 14,886 5,174 5,971	4 4.775 5,501 7,333 21,474
	Patient Days During 1951	Newborn	728 669 1,492 6,506	350 419 1,798 2,282	1,197 1,595 1,179 1,179 901	4,116 1,135 1,006 1,006 1,007	2,728 2,012 2,667 1,116 1,116	564 518 743 1,701
	Patient	Adults and Children	2,686 3,485 6,596 33,583	4.911 3.542 9.561 1.907 12.051	8.263 7.091 5.990 4,622 3,659	21,880 6,407 6,287 2,285 10,119	14,068 18,229 12,219 4,058 5,190	4,211 4,983 6,590 19,773
	Homelials	grandant	Manning, Battle River Mannville, Municipal Mayerthore, Municipal 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	St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Three Hills, Municipal Tofield, Municipal	Trochu, St. Mary's Turner Valley, Municipal Two Hills, Municipal Vegreville, St. Joseph's General

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### DEPARTMENT OF PUBLIC HEALTH

nly part of the year:         544 186         143 265         544 265         143 265         687 265         5.8 266         11.0 6.6         6.5 3.5            Polio and T.B. Division         1,614,151         231,292         1,845,443         *1,605,277         231,327         *1,836,604         *9.0         8.5         *8.9            Polio and T.B. Division         102,662         *89,535          *89,535         *37.6          *37.6	Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General Total for hospitals operating full year	5.909 3.350 3.350 3.350 12.267 18.005 5.319 5.319 5.319	700 1,051 1,326 1,326 2,941 2,856 593 2,856 593 231,070	6,609 4,401 9,337 14,205 20,946 16,345 5,912 1,844,491	5,782 3,314 7,901 18,070 14,710 5,414 *1,604,547	700 1,054 1,332 1,332 2,944 604 604 2,874 604	6.482 4,368 4,368 9,233 1,538 21,014 6,018 6,018 *1,835,652	7.4 7.1 8.4 6.4 6.5 9.0	9.40 9.40 9.40 9.40 9.40 9.40 9.40 9.40	7.6 7.4 7.6 7.7 8 7.6 7 7 8 8 9 9 8 9 9	115.3 65.4 65.6 65.6 65.6 80.1 111.8 80.3
1.614,151         231,292         1.845,443         *1,605,277         231,327         *1,836,604         *9.0         8.5         *8.9         *8.9           102,662	Hospitals in Operation for only part of the year: Cadomin, General Nordegg, General	544 186	143	687 265	544 186	143	687 265	20.88 29.88	11.0	3 6 2 1 2	
102,662         102,662         *89,535         *37.6         *37.6         *37.6           1,511,489         231,292         1,742,781         1,515,742         231,327         1,747,069         8.6         8.5         8.6		614,151	231,292	1,845,443	*1,605,277	231,327	*1,836,604	0.6*	8.5	6.8*	
1.511,489         231,292         1,742,781         1,515,742         231,327         1,747,069         8.6         8.5         8.6	Less D.V.A., Orthopaedic, Polio and T.B. Division cases	102,662		102,662	*89,535		*89,535	*37.6		*37.6	
		,511,489	231,292	1,742,781	1,515,742	231,327	1,747,069	8.6	8.5		1.77

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

ANNUAL REPORT, 1952

### DEPARTMENT OF PUBLIC HEALTH

	Graduated During the Year	11111	11111	1 128 1	11111	1111	11111
	Training School	No o No	No No No No	No No Yes No	No on	°N°N°N°N	NO NO NO
llei	Medical S	04001-	11910	5 166 161 50	F-034-101	-00	N 40N
,	All Others	211 8 8 9	21 6 15 15	15 59 230 210 2	38 4 8 2 2 1 12 5 7 8 4	1298137	15 6 31 31 16
	Dietitians	11111	11111	1 00 00	1111		
su	Technicia	1-01	11-11	116	4	11111	0  H0
	Salaried	11111	11111	1010	11111	-	11111
	Internes		11111	138	11111	11111	1111
-	Orderlies	1111	11711	12	N	11111	1 1 101
Aides	PanisrT	1111	11411	00	11111	1 0 1	
Nurses Aides	Certified	N 01 4 11	00010	30 11 17	18 66 18		102
	tnsbut2	1111	1111	163	11111	11111	1111
Nurses	eteuber0,	10 00 00 00 00	4 000100	13 42 131 89 4	00000 100000		000000
	Total	17 30 16 13	9 11 23 23	32 134 578 548 10	83 9 10 18 18	152 123 152 152	20 8 21 21 21 21
	Hospital	Athabasca, Municipal Banff, Mineral Springs Marrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crows Nest Pass Municipal Bonnyville, K. H. P. Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgary, Holy Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Carmore, Cammore 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. Martins Didsbury, Municipal Drumheller, Municipal Eckville, Municipal

TABLE No. 3-STAFF

## ANNUAL REPORT, 1952 99

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12 420 396 750 985	23 13 18 13 9 23 23 23 23 23 23 23 23 23 23 23 23 23	20 114 123 123	51 55 133 33 42	34 18 10 18	11 43 119 147 185	211162	165 13 13 8 25
Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University	Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal Fairview, Municipal	Fort Macleod, Municipal Fort McMurray, St. Gabriel's Fort Vermilion, St. Theresa Galahad, St. Joseph's Glendon, Municipal	Grande Prairie, Municipal Hythe, Sub. Hospital Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence	High River, Municipal Innisfail, Municipal Islay, Municipal Jasper, Seton Killam, General	Lac La Biche, St. Catherine's Lacombe, Municipal Lamont, Archer Memorial Lethbridge, Galt Lethbridge, St. Michael's General	McLennan, Sacred Heart Magrath, Municipal Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal	Medicine Hat, General Mundare, General Myrnam, Municipal Nordegg, General Olds, Municipal

### DEPARTMENT OF PUBLIC HEALTH

		Nurses		Nurses /	Aides	-			su		-	lle		
Hospital	fistoT	Graduate	trabut2	Certified	99nis1T	Orderlies	Internes	Doctors Doctors	Technician	Dietitians	All Others	Medical St	Training food2	Graduated During the Year
Oyen, Municipal Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal	265588°	8 8 21 12 13	1111	H 63 10 H	1111	1111	1111	1111	1111	1111	24 26 30 11	H 00 4 10 00	No No No No	
Radway, St. Joseph's Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal	16 12 89 19 18	00440	1111	0444	1111	1111		1111	1		11 48 11	00004	No No No No	
Smoky Lake, George McDougall Spirit River, Holy Cross St. Paul, St. Theresa Stettler, Municipal Taber, Municipal	361 361 361 361 361 361 361 361 361 361	128430	1111	01-0104	-  -		1111		HOH	11111	11883	1101010	No on No	
Three Hills, Municipal Tofield, Municipal Trochu, St. Mary's Turner Valley, Municipal Two Hills, Municipal	20 15 14	10 4 03 10 4	11111	n   co   co	0	11111	11111		11111	11111	10 8 8 10	00000	No No No No No	
Vegreville, St. Joseph's General Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal	22 12 22 12 22 23	101-4001-	4	10101	1111	1111	1111		44		36 11 15 8	F-000-100	Yes No No No	<b>1</b>
Wainwright, Muncipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	31 6 8 1 8 8 9 1 8	10 10 22	1111	9464	4	TIT	1111	1111	9 1	1111	15 14 3	4844	No No No	1111
TOTAL	6,443	1,298	1,182	412	65	116	66	31	177	40	3,023			383

TARLE No 3\_Continued

Total Expenditure	\$ 85,941.81 79,772.35 47,931.41 29,847.56	33,968.52 37,744.30 158,812.37 26,330.45 54,690.54	$\begin{array}{c} 112,994.18\\ 276,461.37\\ 1,416,617.82\\ 1,277,454.98\\ 1,277,454.98\end{array}$	232,268,68 36,484.77 80,251.32 37,451.34 59,460.75	24,121.62 83,041.70 22,972.07 45,702.26 38,364.84	56,836.44 13,168.50 79,108.60 230,371.55 59,714.54	$\begin{array}{c} 1.181,232.66\\ 883,159.12\\ 1.995,931.40\\ 2.563,045.63\\ 73,065.04\end{array}$
Miscel- laneous	\$ 7,255.66 1,147.01 666.31 383.90 1,169.28	25.00 1,254.40 401.50 376.14 581.16	$\begin{array}{c} 1,056.67\\ 3,441.29\\ 42,740.48\\ 8,281.82\\ 2,143.67\end{array}$	$\begin{array}{c} 1.503.68\\ 2.150.48\\ 3.700.08\\ 135.10\\ 132.18\end{array}$	616.25 99.65 127.00 1,812.50	226.25 1,696.74 8,972.71 638.43	17,946.61 1,519.03 15,964.99 21,112.06 326.86
Interest and Exchange	\$ 13,514.06 2,871.04 2,871.04 2230.04	2,586.16 1,636.72 9,675.93 6.70	2,526.86 9,947.77 9,778.40	14,569.28 22.56 254.60 1.91	1,782.43 1,782.43 1,852.55 5.40	3,196.66 108.11 2,789.02	$\begin{array}{c} 64,921,41\\ 16,400.17\\ 46,515.05\\ 116,639.76\\ 1,145.09\end{array}$
Repairs and Replace- ments	\$ 374.13 5.445.40 3.902.11 1.763.34 1,543.32	$\begin{array}{c} 1,287.36\\ 739.85\\ 2,458.25\\ 3,139.00\\ 1,116.89\end{array}$	2.561.97 2.336.50 37,167.65 36,844.10 994.00	7,094.98 4,561.86	2,029.79 2,834.28 724.91 938.28 2,416.26	2,659.35 2,617.71 10,497.45 2,361.02	53.058.56 40.574.88 57.797.49 123.055.66 4.878.20
Deprecia-	\$ 4,127.39 3,020.44 1,492.15 2,482.80 1,218.00	2,500.00 8,000.00 20,068.75 3,136.11	3,750.00 68,430.38 686.92	20,701.34 138.27 2,747.94 2,021.10 5,484.54	2,023,63 5,537,55 581,12 7,100,00 2,337,72	5,259.00 4000 6,943.73 9,424.76 8,401.61	84.736.68 62.804.31 34.704.74 5.050.50
rchased Insurance Deprecia- tion	\$ 919.49 2.195.72 234.10 234.10 205.85	335.00 555.21 571.46 162.50	341.78 3.367.47 8.605.88 6.444.94	1,010.33 70.17 346.70 876.50	110.00 579.80 50.00 314.25 244.45	$\begin{array}{c} 270.55\\ 46.15\\ 611.52\\ 611.52\\ 1.394.34\\ 757.72\end{array}$	13,000.06 6,041.01 54,458.05 9,881.08 536.43
11 215	\$ 5,705.14 4,373.95 2,798.49 4,635.80 1,342.30	1,468.96 2,069.52 3,551.09 1,625.92 1,621.43	$\begin{array}{c} 5.394.16\\ 12.887.24\\ 20.983.31\\ 19.859.92\\ 19.754.19\end{array}$		1,388.20 3,882.67 3,999.32 3,934.26 1,763.01	$1.961.66\\675.00\\3.445.65\\8.803.14\\3.695.43$	$\begin{array}{c} 16.984.02\\ 24.706.71\\ 30.960.66\\ 56.915.08\\ 2.714.78\end{array}$
Supplies	\$ 24,568.10 37,893.65 17,824.12 16,493.47 10,628.18	$11,968.31\\8,779.25\\46,089.81\\10,200.24\\13,628.45$	$\begin{array}{c} 44,948.54\\ 39,816.81\\ 445,616.19\\ 408,536.09\\ 9,460.46\end{array}$	55,255.57 11,130.87 31,995.98 9,098.18 24,180.74	7,539.00 24,453.33 7,232.11 13,625.94 13,032.48	17,114.00 7,181.35 27,313.79 81,074.67 18,034.74	327.721.24 276.771.86 695.254.08 752.675.30 12,689.26
Salaries and Wages	\$ 29,477.84 65,079.18 49,843.13 21,707.96 13,515.95	$\begin{array}{c} 13.797.73\\ 14.709.35\\ 75.995.58\\ 10.982.45\\ 34.444.00 \end{array}$	52,414.20 214,612.06 851,556.54 719,279.33 15,776.75	$\begin{array}{c} 124,082.87\\ 21,426.70\\ 33,700.20\\ 24,395.67\\ 27,248.39\end{array}$	$\begin{array}{c} 10.393.20\\ 43.869.99\\ 13.155.70\\ 17.911.98\\ 16.753.02 \end{array}$	29,345.63 4,740.00 33,282.80 110,096.37 23,036.57	$\begin{array}{c} 602.864.08\\ 454.341.15\\ 1.060.276.69\\ 1.482.766.69\\ 45.723.92\end{array}$
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, Katherine H. Prittie Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgary, Holy Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Cambre, Cammore 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, Munichal Drumheller, Municipal Eckville, Municipal	Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University of Alberta Edson, St. John's

TABLE No. 4-OPERATING EXPENDITURES

ANNUAL REPORT, 1952

Total Expenditure	\$ 69.501.07 33.3415.93 38.375.31 63.188.07 64.345.56	48,216.48 56,124.70 40,290.73 .32,337.83 174,669.55	$\begin{array}{c} 102,376.62\\ 46,886.32\\ 108,587.25\\ 113,436.43\\ 74,287.39\end{array}$	27,769.59 46,543.55 60.037.52 51,764.52 136,980.80	179,530.35 301,352,84 490,971,27 67,947,95 53,989,92	30,944.67 39,080.70 87,993.99 345,183.71 48,714.19	44,675.77 85,588.82 30,046.17 123,792.84 63,820.05
Miscel- laneous	\$ 330.00 3.121.10 1.389.95 1.389.95	157.88 1,083.37 106.00 421.80 8,658.76	823.42 643.77 1.807.58 660.34 707.15	3.747.87 3.13.65 632.10 639.16 4.523.35	3.170.89 680.43 3.466.08 1.445.69 334.29	416.22 2,333.50 2,441.72 3,505.75 7,612.13	734.10 757.45 2.255.58 3.570.70 313.45
Interest and Exchange	\$ 2,989.54 2,003.14 134.56 2,577.81 840.15	2,992.42 303.25 3,569.61 2,461.02	3.194.86 806.80 1,250.00 3,146.67 36.85	12.80 1,785.07 3,833.32	2,053.53 478.06 20,617.76 3,672.97 3,672.97	13.00 4.10 1,904.97 9.16	3,940.87 662.27 2,292.71 4,800.00
Repairs and Replace- ments	\$ 4,436.97 960.59 1,445.72 1,550.16 2,915.82	586.41 4,437.29 2,255.45 5,383.99	5,559.45 819.41 2,135.23 3,929.87 6,011.38	$\begin{array}{c} 1.037.21 \\ 5.068.79 \\ 3.096.44 \\ 0.16.53 \\ 2.422.56 \end{array}$	3,122.96 26,932.79 6,299.80 1,059.03 778.38	2,830.81 719.30 5,795.11 3,891.05 8,368.80	1,503.51 1,976.93 2,284.54 2,659.55 9,061.67
Deprecia-	\$ 3,926.84 6,700.00 2,957.58	5,968.00 4,883.91 1,639.83 1,639.83 16,187.50	2.207.57 2.540.18 5.073.24 9.333.65 297.00	$\begin{array}{c} 1.109.24\\ 2.887.80\\ 4.267.96\\ 1.730.30\\ 11.379.92 \end{array}$	20.812.78 965.09 19.114.41 2.971.92 5,134.56	1,630.69 1,817.67 7,202.41 2,007.32	2,871.35 7,856.18 1,744.11 11,000.00 650.00
Insurance	\$ 369.79 398.13 467.00 290.66	50.00 170.00 313.55 1,459.77	747.48 579.90 579.90 653.90 437.91	208.08 350.88 318.63 920.11	60.00 2.745.25 1.567.20 269.01 335.70	128.55 201.64 914.50 1.895.22 137.55	244.95 591.62 332.02 1.175.03 510.45
Purchased Services	\$ 4,022.87 1,104.89 1,457.30 5,459.68 883.26	1,873.95 2,426.87 1,083.84 2,498.27 7,300.50	5,641.64 1,474.74 3.767.89 4.557.22 6,227.84	1,856.71 1,317.52 1,718.02 2,011.21 5,769.17	6.943.20 9.738.32 11.281.54 1.970.41 3,343.35	1,290.23 3,081.27 4,864.93 32,523.21 841.16	2,649.72 6,501.50 1,706.78 5,126.40 1,689.30
Supplies	\$ 28,282.41 7,642.64 18,620.84 21,309.55 25,597.86	$\begin{array}{c} 11.782.51\\ 23.750.23\\ 10.651.61\\ 10.888.01\\ 58.733.12 \end{array}$	37,368.05 11,407.98 40,213.93 35,346.92 28,353.03	$\begin{array}{c} 6.923.79\\ 10.781.25\\ 17.276.00\\ 19.448.24\\ 47.228.37\end{array}$	57,889.11 104,688.56 158,753.36 24,261.78 17,306.18	$\begin{array}{c} 12,503.42\\ 13,638.57\\ 35,346.06\\ 90,518.64\\ 12,905.03\end{array}$	12,305.04 27,839.77 77,827.62 40,545.20 18,316.44
Salaries and Wages	\$ 29.070.49 14.258.60 15.954.54 23.733.92 30.364.23	24,805.31 19,373.03 24,060.75 14,102.10 74,484.89	$\begin{array}{c} 46,834.15\\ 28,613.54\\ 53,609.68\\ 55,807.86\\ 32,216.23\end{array}$	$\begin{array}{c} 12.873.89\\ 26.101.68\\ 30.911.05\\ 27.000.00\\ 60.904.00\end{array}$	85,477.88 155,124.24 269,871.12 35,554.35 23,084.49	12.131.75 17.284.65 27.247.45 210.944.87 16.833.04	24,367.10 36,124.50 13,233.25 57,423.25 28,478.74
Hospitals .	Elk Point, Municipal Enora, Municipal Empress, Municipal Fairview, Municipal Fort Macleod, Municipal	Ft. McMurray, St. Gabriel's Fort Vermilion. St. Theresa Galahad. St. Joseph's Glendon, Municipal Grande Prairie, Municipal	Hanna, Municipal Hardigy, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal	Islay, Municipal Jasper, Seton Killam, General Lac la Biche, St. Catherine's Lacombe, Municipal	Lamont, Archer Memorial Lethbridge, Galt Lethbridge, St. Michael's General McLennan, Sacred Heart Magrath, Municipal	Manning, Battle River Mannville, Municipal Mayerhorpe, Municipal Medicine Hat, General Mundare, General	Myrnam, Municipal Olds, Municipal Oyen, Municipal Peace River, Municipal Pincher Creek, St. Vincent's

TABLE No. 4-OPERATING EXPENDITURES-Continued

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### DEPARTMENT OF PUBLIC HEALTH

85.330.40 66.563.13 43.008.81 41.162.77 267.759.93	73,739,35 53,719,74 27,188,28 58,077,33 117,498,31	165,536,20 122,753,21 70,402,90 59,476,94 47,171,61	67,205,02 155,817,74 61,876,23 60,921,68 39,620,85	81,571,44 126,595,28 163,317,03 101,918,59 41,462,47	\$17,166,010.43 22,065.73	\$17,188,076.16	
1.305.70 200.59 3.342.19	402.05 136.75 510.96 3.465.74 1.578.34	$\begin{array}{c} 1,062.25\\717.60\\170.60\\535.58\end{array}$	430.34 1,233.05 2,462.60 3,362.12 487.13	30.00 918.73 1.891.29 630.15 3,635.10	\$ 244,231.50 557.80	\$ 244,789.30	
5,614.78 36.66 32.36 1,480.12 16,713.27	5,231,49 878,39 109,79 1,456.68	5,820.84 1,667.51 3,508.02 4,068.37 2,521.50	4,028.98 4,979.61 203.79 4,409.67 60.56	2,478.83 7.224.92 11.133.44 24.12 24.35	\$ 484,087.98	\$ 484,336.67	
$\begin{array}{c} 1,300.38\\ 2,212.45\\ 407.18\\ 2,185.01\\ 6,001.64\end{array}$	1,643.92 2,865.95 878.96 1,933.93 18,109.91	$\begin{array}{c} 2.014.25\\ 12.320.85\\ 1.596.25\\ 2.462.91\\ 3.617.95\end{array}$	1.174.59 3.756.45 1.793.15 3.377.43 3.377.43	5,102.09 4,134.92 3,231.91 1,209.83 5,472.84	\$ 641,489.80 1,199.23	\$ 642,689.03	
9,177.81 2,340.91 1,204.35 1,625.96 17,998.77	8.926.32 1.744.50 1.811.02 2.188.00 5.306.47	$\begin{array}{c} 13,531.85\\ 6,092.01\\ 9,975.54\\ 7,639.50\\ 11,183.99\end{array}$	$\begin{array}{c} 7,472,45\\ 20,4524,91\\ 4,920,49\\ 2,281,16\\ 2,827,00\end{array}$	9,578.96 16,321.88 18,166.36 7,020.91 1,977.67	\$ 746,493.77 318.40	\$ 746,812.17	
$\begin{array}{c} 1.824.12\\ 311.78\\ 247.15\\ 176.77\\ 1.809.78\end{array}$	1,026.71 663.53 92.00 513.08 357.50	$\begin{array}{c} 1.084.43\\ 1.665.82\\ 502.10\\ 194.13\\ 336.74 \end{array}$	2,618,54 706,75 496,47 269,85	$\begin{array}{c} 866.01 \\ 1,007.79 \\ 479.50 \\ 924.56 \\ 234.12 \\ 234.12 \end{array}$	\$ 153,855.96 43.22	\$ 153,899.18	100 m
6,348.21 2,911.37 1,653.68 1,632.42 23,215.65	2,870.80 4,326.97 1,979.15 2,417.50 2,846.35	5,856.69 3,349.58 4,654.70 2,087.55 904.45	3,464.59 15,382.04 3,664.05 2,231.36 1,055.38	3,544.92 4,758.92 6,204.75 5,033.02 512.26	\$ 536,620.24 1,451.12	\$ 538,071.36	Condana Cananal
20,311.05 25,705.36 14,624.80 16,354.41 77,033.79	$\begin{array}{c} 27,436.15\\ 18,569.23\\ 6,115.56\\ 18,945.08\\ 29,322.10\\ \end{array}$	$\begin{array}{c} 52,679.98\\ 39,643.10\\ 18,773.69\\ 22,433.78\\ 10,704.00 \end{array}$	20.078.87 50.354.23 18.339.80 22.761.21 9,443.72	24,453.59 42,207.89 40,066.43 32,903.07 11,971.53	\$5,337,311.70 7,914.85	\$5,345,226.55	2
40,304.55 31,738.90 24,648.70 17,008.96 121,644.84	26,201.91 24,534.42 15,690.84 28,614.00 58,520.96	$\begin{array}{c} 83,485.91\\ 57,259.79\\ 30,675.00\\ 20,420.10\\ 17,367.40\end{array}$	29,998.60 57,038.91 29,785.60 24,528.12 22,099.78	35.517.04 50.020.23 82.143.35 54.172.93 17,634.60	\$9,021,919.48 10,332.42	\$9,032,251.90	Madiation Unit
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 St. Paul, St. Theresa	Stettler, Municipal Taber, Municipal Three Hills, Municipal Tofield, Municipal Trochu, St. Mary's	Two Hills, Municipal Vegreville, St. Joseph General Vermilion, Municipal Viking, Municipal Vilina, Our Lady's	Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Total for Hospitals operating full year Turner Valley, Municipal( 6 months)	GRAND TOTAL	We Areliable, Planates Projet Research Madiales Int.

# Not Available: Edmonton, Buelah Home; Medicine Hat, Isolation; Nordegg, General.

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### ANNUAL REPORT, 1952

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TABLE No. 5-REVENUE FOR OPERATING PURPOSES

### DEPARTMENT OF PUBLIC HEALTH

Total Revenue	84,411.10 121,314.78 79,967.80 50,214.95 29,083.38	36,874.37 40,875.56 167,765.15	32,930,59	$\begin{array}{c}123,952.69\\276,461.37\\1,285,834.41\\1,384,110.42\\30,291.98\end{array}$	227,909.20 53,237.82 86,704.43	45,550.74 61,655.69	24.101.43 92.462.60 13.097.13 50.510.82 42.199.04	53,767.12 13,168,50 83,942,47 239,466,93 63,241.80	985,938.53 876,292.69
Other Revenue	145.98 \$ 55.74 359.19 2.067.50 429.70	217.00	250.98 39.78	26,480.98	712.62	352.44	287.69 7.75 115.32	$\begin{array}{c} 1.009.74\\ 7.621.80\\ 286.09\\ 1.752.00\\ 122.90\end{array}$	34,321.89 28,637.69
Total Operating Revenue	84,265,12 \$ 121,259 04 79,608,61 48,147,45 28,653,68	36,874.37 40,658.56 164,176.65	32,679.61 71,557.57	123,952,69 Not Available 1,285,834,41 1,357,629,44	227,196.58 53,237.82 86,660.03	45,198.30	23,813.74 92,462.60 13,089.38 50,395.50 42,199.04	52,757.38 5,546.70 83,656.38 237,714.93 63,118.90	951,616.64 847,655.00
Out-Patient Earnings	\$ 24,707.35 \$ 1,217.55 1,872.45	298.55	1,323.90	943.65 13.256.55 31,019.93	2,811.58	2,059.88	996.12 4,188.45 1,872.15	2.970.76	32,065.50
Grants	51,908,55 5,351,70 5,351,70 8,068,30 29,285,40 16,719,20	26,560.24 24,140.85 102,313.83	14,072.10 7,720.40	70,614.85 379,681.34 102,566.68 18,192.33	18.911.90 5.619.19 58.349.10	33,014.00 5,147.20	15,499.65 51,083.75 988.90 34,372.75 26,210.00	4,501.00 52,600.10 133,243.38 42,243.70	77,695.65 86,598.70
Net Earnings	32,356.57 \$ 91,199.99 71,540.31 17,644.50 10,062.03	10,314.13 16,219.16 61,862.82	18,607.51	52,394.19 ot Available 892,896.52 1,224,042.83 12,099.65	208,284.68 47,618.63 25,499.35	10,124.42	$\begin{array}{c} 7,317.97\\ 37,190.40\\ 12,100.48\\ 14,150.60\\ 15,989.04\end{array}$	$\begin{array}{c} 48,256.38\\ 5,546.70\\ 28,085.52\\ 104,471.55\\ 20,518.70\end{array}$	841,855.49
Deductions	\$ 44,162.37 5,982.16 11,031.93 18,178.75 2,307.50	8,873.35 17,633.44 41,146.80	2,509.44 14,247.59	48,963.59 812,026.93 208,736.85 1,998.45	24,035.83 25,454.25	6,671.20 4,759.95	$\begin{array}{c} 1.876.90\\ 30.663.90\\ 2.030.29\\ 14.135.60\\ 111.671.35\end{array}$	3,478.52 6,970.30 19,751.33 73,514.30 16,535.70	170,384.24
Gross Earnings	76,518.94 97,182.15 82,572.24 35,823.25 12,369.53	19,187.48 33,852.60 103,009.62	21,116.95 76,760.86	101.357.78 1,204.923.45 1,432,779.68 14,098.10	232,320.51 47,618.63 50,953.60	16,795.62 48,984.55	9.194.87 67.854.30 14.130.77 28.286.20 27,660.39	$\begin{array}{c} 51,734.90\\ 12,517.00\\ 47,836.85\\ 177,985.85\\ 37,054.40 \end{array}$	1,012,239.73 889.267.54
Special Services	<pre>8 13,155.04 \$ 22,879.45 25,616.03 8,553.25 2,746.43</pre>	5,608.33 4,239.00 32,358.57	3,984.05	Not Available 323,327,62 323,327,61 486,051,13 2,518.70	76,926.71 8.153.25 7,567.15	2,180.77	1,396.07 10,772.70 3,885.27 2,653.15 5,389.04	20,208.10 672.60 11,598.10 47,896.95 7,434.70	387,080.92
Day Rate Services	\$ 63.363.90 \$ 74.302.70 56.956.21 27.270.00 9.623.10	13,579.15 29,613.60 70,651.05	17,132.90	66,060.16 N 881,595.84 946,728.55 11,579.40	155,393.80 39,465.38 43,386.45	14,614.85	$\begin{array}{c} 7.798.80\\ 57.081.60\\ 10.2481.60\\ 25.633.05\\ 22.271.35\end{array}$	31,526.80 11,844.40 36,238.75 130,088.90 29,619.70	625,158.81 621.371.31
Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass Municipal	Prittie Adultine A. Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgary, Holy Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Cammore, Cammore Cardston, Municipal	cipal cipal Castor, Our Lady of the Rosary	Cereal, Municipal Claresholm, Municipal Cold Lake, John Nell Consort, Municipal Cornation, Municipal	Daysland, Providence Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal	Edmonton, General Edmonton, Misericordia

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$\begin{array}{c} 1.995,931.40\\ 2,694,260.66\\ 66,392.84\end{array}$	91,038,26 35,158,03 41,982,00 68,218,25 72,564,30	19,004.35 56,108.47 34,401.44 35,276.77 161,570.62	98,313.22 43,555.95 97,072.00 119,781.55 87,675.13	27.328.76 45.871.65 57.075.99 51.279.20 145.869.27	182.235.45 278,518.84 591,326.54 57,317.92 59,157.92	26,009.89 43,041.95 90,218.82 344,765.53 49,630.19	48,937.72 108,310.69 27,725.90 121,885.36 57,915.78	81,681.34 78,680.77
25,795.69	50.00 3,359.18 52.29	1,897.37 7,770.51 152.71 2200.00 799.82	2,500.73 1,466.19 1,839.22 290.16	279.76 62.85 1,230.45	16.716.47 13.468.76 13.468.76	1,221.38 30.00 4,038.15 16,016.94	91.70 599.75 448.00 159.85	821.00
$\substack{1.970,135.71\\2,694,260.66\\66,300.55}$	90,988.26 34,694.40 38,622.82 68,218.25 72,512.01	$\begin{array}{c} 17.106.98\\ 48.337.96\\ 34.248.73\\ 35.076.77\\ 160.770.80\end{array}$	95.812.49 42.089.76 95.232.78 119.491.39 87,675.13	$\begin{array}{c} 27,049.00\\ 45,808.80\\ 55,845.54\\ 51,279.20\\ 145,869.27\end{array}$	165,518.98 265,050.08 591,326.54 57,317.92 58,998.04	$\begin{array}{c} 24.788.51 \\ 43.011.95 \\ 90.218.82 \\ 340.727.38 \\ 33.613.25 \end{array}$	$\begin{array}{c} 48,846.02\\107,710.94\\27,277.90\\121,725.51\\57,915.78\end{array}$	80,860.34
52,022.48 113,288.37	396.40	523.85 3,592.09	5,118.35	358.00 2,334.56 1,375.95	1,524.40	1,668.15 1,104.80 4,376.15 1,420.01	1,250.97 952.05 7,545.11	2,658.25
316,115.82 296,338.63 6,387.50	57,802.85 23,694.04 22,535.40 35,772.13 32,850.64	2.242.85 5.469.80 3.719.60 22.918.95 84,229.45	60,789.88 4,238.30 11,258.10 78,523.10 66,729.60	21,035.65 2,913.10 5,530.70 7,868.80 85,205.49	18.529.10 51.720.31 39.730.70 8.801.80 40.676.20	8,087,05 27,705,92 44,748,45 68,442,40 3,280,10	33.367.25 65.730.20 20.274.83 59.535.40 6.372.10	46,509.75
1,601,997.41 2,284,633.66 59,913.05	$\begin{array}{c} 33,185.41\\ 10,603.96\\ 16,087.42\\ 30,569.40\\ 39,661.37\end{array}$	14,864.13 42,868.16 30,529.13 11,633.97 72,949.26	35,022.61 37,851.46 78,856.33 70,968.29 20,945.53	$\begin{array}{c} 5,655.35\\ 42,895.70\\ 50,314.84\\ 41,075.84\\ 59,287.83\end{array}$	146,989.88 211,805.37 551,595.84 47,070.24 18,321.84	$\begin{array}{c} 15,033.31\\ 14,201.23\\ 41,094.22\\ 272.284.98\\ 289.913.14 \end{array}$	$\begin{array}{c} 14.227.80\\ 41.028.69\\ 7.003.07\\ 54.645.00\\ 51.543.68\end{array}$	31,692.34
261,358.75 181,319.30 6,055.05	38,791.39 4,905.56 7,733.20 21,375.45 13,125.90	1,563.83 2,739.00 2,755.66 7,950.85 57,028.39	24,851.15 3,153.09 50,328.78 41,323.36 41,041.80	$\begin{array}{c} 11.166.03\\ 3.153.75\\ 8.235.62\\ 9.121.81\\ 44,459.10 \end{array}$	15,441.35 88,621.28 40,385.71 26,559.75 11,009.25	2,892,10 9,362,75 17,474,05 61,288,22 5,271,51	$\begin{array}{c} 11,156.10\\ 29,334.22\\ 5,463.10\\ 37,407.50\\ 5,187.45\end{array}$	27,588.23
1,863,356.16 2,465,952.96 65,968.10	71,976,80 15,509,52 23,820,62 51,944,85 52,787,27	16,427,96 45,607,16 33,284,79 19,584,82 129,977,65	59,873.76 41,004.55 129,185.11 82,291.65 61,987.33	16,821.38 46,049.45 58,550.46 50,197.65 103,746.93	162,431.23 300,426.65 591,981.55 73,629.99 29,331.09	17,925,41 23,563,98 58,568,27 333,573,20 34,184,65	25,383,90 70,362,91 12,466,17 92,052,50 56,731,13	59,280.57 48,578.47
525,782.57 730,466.92 18,854.45	8,842.35 2,662.52 5,946.47 12,107.55 6,556.52	1,713.86 3,277.49 8,671.34 3,130.72 27,317.85	$\begin{array}{c} 15,528.66\\ 11,495.55\\ 30,742.81\\ 15,984.05\\ 10,728.93 \end{array}$	2,822.93 17,309.45 18,819.66 17,411.60 20,802.08	34,084.88 74,100.45 216,420.70 17,682.81 6,843.44	3,326.51 4,216.73 20,274.77 63,351.80 7,044.03	5,767,44 14,303,91 1,987,62 19,682,60 12,313,13	17,873.47 14,158.82
$\substack{1,337,573.59\\1,735,486.04\\47,113.65}$	63,134,45 12,847,00 17,874,15 39,837,30 46,230,75	$\begin{array}{c} 14.714.10\\ 42.329.67\\ 24.613.45\\ 16.454.10\\ 102.659.80\end{array}$	$\begin{array}{c} 44,345.10\\ 29,509.00\\ 98,442.30\\ 66,307.60\\ 51,258.40\end{array}$	$\begin{array}{c} 13.998.45\\ 28.740.00\\ 39.730.80\\ 32.786.05\\ 82.944.85\end{array}$	128,346.35 226,326.20 375,560.85 55,947.18 22,487.65	$\begin{array}{c} 14.598.90\\ 19.347.25\\ 38.293.50\\ 270.221.40\\ 27,140.62\end{array}$	$\begin{array}{c} 19.616.46\\ 56.059.00\\ 10.478.55\\ 72.369.90\\ 44,418.00 \end{array}$	41,407.10
Edmonton, Royal Alexandra Edmonton, University Edson, St. John's	Elk Point, Municipal Elnora, Municipal Empress, Municipal Fairview, Municipal Fort Macleod, Municipal	Ft. McMurray, St. Gabriel's Fort Vermilion, St. Theresa Galahad St. Joseph's Glendon, Municipal Grande Prairie, Municipal	Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence High River Municipal Innisfail, Municipal	Islay, Municipal Jasper, Seton Killam, General Lac la Biche, St. Catherine's Lacombe, Municipal	Lamont, Archer Memorial Lethbridge, Galt Lethbridge, St. Michael's General McLemnan, 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 Pincher Creek, St. Vincent's	Ponoka, Municipal Provost, Municipal

10	0 \$ 1.619	Grants 4,043.70	Earnings 0	Earnings (	Gross         Net           Earnings         Deductions         Earnings         0           37,596.30         \$6,794.74         \$30,801.56         \$	tross Deductions Earnings (37,596.30) \$ 6,794.74 \$ 30,801.56 \$
1,725,75 259,632,55		29,609.90	13,510.65	15,312,55 13,509.48 56,566.08 133,510.65	28.822.03 15.312.55 13.509.48 190.076.73 56.566.08 133.510.65	8,675.43 28,822.03 15,312.55 13,509.48 46,775.93 190,076.73 56,566.08 133,510.65
1,882.85 305.45		44,100.70 34,618.45	29,195.52 44,100.70 27 093 02 34 618 45		29,195.52	22,666.57 29,195.52 14 130 90 27 003 02
20,082.10	_	5,670.90 7,700.00 10,092.20		14,411.20 56,349.78 97,966.17	1,490.95 14,411.20 9.025.66 56.349.78 21,297.04 97,966.17	15,902.15 65,375.44 119,263.21 21,297.04 9,025.66 56,349.78 97,966.17
1,978.17 190.721.14 1,976.15 70,088.82 1,456.52 31,334.60	10.010.0110	$\begin{array}{c} 111.931.35\\ 59.175.90\\ 47.657.25\\ 32.725.62\\ 32.683.65\end{array}$	76,811.62         111,931.33           69,190.45         59,175.90           20,455.42         59,175.90           30,031.56         32,725.62           26,194.43         32,683.63		866.12         76.811.62           394.50         69.190.45           960.14         20.455.42           599.09         30.031.56           398.94         26.194.43	61,866.12 33,394.50 11,960.14 20,455.42 11,599.09 20,31.56 2,398.94 26,194.43
3,078.15 5,059.01 1,047.95 1,176.85		$\begin{array}{c} 53,648.30\\ 14,460.75\\ 49,769.90\\ 60,152.54\\ 2,627.90\end{array}$	25,284.40 53,648.30 139,298.14 14,460.75 24,916.01 49,769.90 15,910.34 60.152.54 20,799.98 2,627.90	20.880.75 25.284.40 30.945.97 139.298.14 27.683.54 24.916.01 24.667.94 15.910.34 1.927.50 20.799.98	46,165.15         20,880.75         25,284.40           170,244.11         30,945.97         139,298.14           52,599.55         27,683.54         24,916.01           40,577.48         1,927.50         20,799.98	20.880.75 25.284.40 30.945.97 139.298.14 27.683.54 24.916.01 24.667.94 15.910.34 1.927.50 20.799.98
*1.323.65 80.835.96 6.558.85 125.134.80 2.03.98 108.001.26 2.165.05 35.736.56	10.00.00	55,206.25 55,508.33 9,973.85 10,959.80 3,388.00	26,953.36 55,206.21 63,067.62 55,508.33 137,077.17 9,973.83 96,837.48 10,959.80 30,183.51 3,388.00	37,676,14 26,953,36 39,104,92 63,067,62 15,933,80 137,077,17 19,911,54 96,837,48 6,343,32 30,183,51	64,629.50         37,676.14         26,953.36           102,172.54         39,104.92         63,067.62           153,010.97         15,933.80         137,077.17           116,719.02         19,911.54         96,837.48           36,526.83         6,343.32         30,183.51	37,676,14 26,953,36 39,104,92 63,067,62 15,933,80 137,077,17 19,911,54 96,837,48 6,343,32 30,183,51
374,388.37 \$16,789,663.01		4,178,293.62 \$	4,178,293.62	and the second se	\$ 3,042,813.49 \$12,236,981.02 \$ 4,178,293.62	3,042,813.49 \$12,236,981.02 \$ 4,178,293.62
264.17 \$		18,792.62	10,587.43 \$ 18,792.62	18,792.62	18,972.29 \$ 8,384.86 \$ 10,587.43 \$ 18,792.62	\$ 8,384.86 \$ 10,587.43 \$ 18,792.62
1 22	374,652.54 \$16,819,307.23	4,197,086.24 \$	4.197.086.24 \$	\$ 3.041.198.35 \$12.247.568.45 \$ 4.197.086.24 \$	\$ 3,041.198.35 \$12,247.568.45 \$ 4,197,086.24 \$	00

TABLE No. 5-REVENUE FOR OPERATING PURPOSES-Continued

Not Available: Edmonton, Beulah Home; Medicine Hat, Isolation.

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# DEPARTMENT OF PUBLIC HEALTH

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	Revenue per per day	\$10.77 12.18 7.83 9.53 9.62	12.58 8.53 13.11 8.58 6.29	10.31 8.42 10.73 11.80 10.60	9.58 25.05 10.60 17.40 8.33	14.35 9.43 4.94 10.65 8.34	8.71 4.82 12.94 10.61	10.00
	Miscel- laneous	855 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	0.1 3.3 0.3 1.4 1.1	0.9 3.0 3.0 7.1	0.6 5.9 0.4 0.2	2.5 0.1 4.7	0.4 2.10 3.9 1.1	1.5 0.2
	Interest and Exchange	15.7 0.1 0.5 0.5	7.6 4.3 6.1 0.0	2.2 0.7 0.8	6.3 0.1 0.0	0.1 2.1 0.0	4.0 0.0 4.7	5.5
1000	Repairs and Replace- ments	0.4 8.5 7.2 2.2 2.2	3.8 2.0 2.0 2.0	76885 7688 7688 7688 7688 7688 7688 7688	31 203 1	8 8 8 1 1 2 8 7 8 7 8 7 8 7 8 7 8 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4.7 3.3 4.6 4.0	4.5
f Cost	Deprecia- tion	4212 512 125 125 125 125 125 125 125 125	7.4 21.2 12.6 5.7	974 1 99 974 1 99	8.9 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	8.4 6.7 1555 6.1	92 3.0 8.8 14.1 14.1	7.1
Percentage of Cost	Insurance	1.1 0.5 0.5 0.7	110 145 03	0010 0056 0056	0075 0075 0075 0075 0075	0.7 0.7 0.7 0.6	0.5 0.6 1.3 0.6 1.3	1.1 0.7
	Purchased Services	6.6 337 5.5 5.5 5.5	40000 010000	448 11112 11112	26549	5.8 8.6.8 6.6.8	584118 884118	1.4 2.8
	Supplies	28.6 28.6 31.8 34.4 35.6	35.2 23.2 28.0 24.9 24.9	39.8 14.4 31.5 32.0 31.6	23.8 30.5 39.5 24.3 24.3 24.3 24.3 24.3 24.3 24.3 24.3	31.3 29.5 31.5 29.8 31.0 34.0	30.1 34.55 34.55 36.22 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 36.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 37.25 3	27.8 31.3
	Salaries and Wages	34.3 54.6 55.5 55.5 5.3 5 5 3 5 5 3 5 5 5 5 5 5 5	40.6 39.0 47.9 41.7 63.0	46.4 77.6 60.1 52.7	53.4 58.7 65.1 65.1 45.8	43.1 52.8 39.2 43.7	51.6 36.0 42.1 38.6 38.6	51.0 51.4
	Operating Cost Per Patient Per Day	\$ 10.97 11.98 7.81 8.97 9.87	11.59 7.87 12.41 6.86 4.81	9.40 8.42 11.82 10.89 10.49	9.76 17.17 9.81 14.42 8.03	14.37 8.47 8.67 9.63 7.58	9.20 4.82 10.21 9.80	11.98 9.73
	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, Katherine H. Prittle Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgary, Holy Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Canmore, Cammore 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, General Edmonton, Misericordia

#### ANNUAL REPORT, 1952

## DEPARTMENT OF PUBLIC HEALTH

-		Revenue per per day	\$11.91 12.31 7.97	7.28 15.36 10.40 8.95 12.83	6.25 5.61 6.94 11.39 7.63	10.33 7.71 5.42 9.67 10.16	10.46 9.09 5.87 9.78	9.72 7.59 11.04 14.87	8.88 11.61 12.72 9.64 9.87
		Miscel- laneous	0.8 0.8 0.4	06000 070008	019 019 019 02 02 02 02 02 02 02 02 02 02 02 02 02	0.8 1.4 0.6 0.9	13.5 0.7 3.2 3.3 3.3	1.8 0.2 0.6	1.3 6.0 15.6 15.6
		Interest and Exchange	2.3 4.6 1.6	443 660 131 131 132 133 133 133 133 133 133 133	6.2 0.8 11.0 1.4	3.1 1.7 2.8 0.0	2000 2000 2000 2000	10400 866222	0.0 9.6 0.0 0.0
		Repairs and Replace- ments	2.9 4.8 6.7	000004 408000	1.2 7.9 3.1 3.1	5.4 2.5 3.5 1.8 2.5 8 1.5 8	3.7 10.9 1.2 1.2	11 88 11 88 11 88 11 89 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 11 80 10 10 10 10 10 10 10 10 10 10 10 10 10	9.2 6.6 1.1 17.2
	of Cost	Deprecia- tion	1.7 6.9	11.7 10.6 4.6	12.4 8.7 4.1 9.3	2.2 5.4 8.2 0.4	40 833 11 833 12 8 833 13 1 8 8 13 1 12 8 8 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	11.6 0.3 8.4 9.5	5.3 4.7 4.1
tinued	Percentage of	Insurance	2.7 0.4 0.7	0.5 1.2 0.4	01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 0.6 0.6 0.6	0.8 0.6 0.6 0.6	0.0 0.0 0.4 0.4 0.4 0 0.4 0.4 0.0 0.0 0.	0.4 0.5 0.6 0.3 0.3
TABLE No. 6-Continued		Purchased Services	1.6 2.2 3.7	1,6 8 3 3 8 1,6 8 3 3 8 1,6 8 3 3 8	82439 1112439	8,60,50 10,00 4 10,00 4	6.7 3.9 4.2 9 4.2 9 4.2 9 4.2 9 8 7 8 7 8 8 7 8 8 8 7 8 8 8 8 8 8 8 8	800009 800009 800009	44 25 14 17 14 17
TABLE		Supplies	34.9 29.4 17.4	40.7 22.9 33.7 39.8	24.4 22.3 33.7 33.6	365 370 3811 382	24.9 23.2 37.6 34.5	32.2 32.3 32.1 32.1 32.1 32.1 32.1	40.4 40.5 26.2 26.2 26.2 26.2 2 6.5 2 6.5
		Salaries and Wages	53.1 57.8 62.6	41.8 42.7 37.6 47.2	51.5 34.6 53.7 42.6 42.6	45.8 61.0 49.2 43.4 43.4	46.4 56.1 52.2 52.2 44.4	47.6 51.5 52.3 22.3 22.3 22.3 22.3 22.3 22.3 22	39.2 44.2 61.1 34.6 34.6
		Operating Cost Per Patient Per Day	\$ 11.91 11.71 8.77	5.56 14.60 9.51 8.29 11.37	15.85 5.61 8.13 10.44 8.25	10.76 8.30 9.16 8.61	10.63 9.21 8.71 5.92 9.18	9.58 8.22 9.17 5.97 13.57	10.56 10.54 12.41 9.65 9.69
		Hospitals	Edmonton, Royal Alexandra Edmonton, University of Alberta . Edson, St. John's	Elk Point, Municipal Elnora, Municipal Empress, Municipal Fairview, Municipal Fort Macleod, Municipal	Ft. McMurray, St. Gabriel's Fort Vermilion, St. Theresa Galahad, St. Joseph's Glendon, Municipal Grande Prairie, Municipal	Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal	Islay, Municipal Jasper, Seton Killam, General Lac la Biche, St. Catherine's Lacombe, Municipal	Lamont, Archer Memorial Lethbridge, Galt Lethbridge, St. Michael's General McLennan, Sacred Heart Magrath, Municipal	Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Mundare, General

		00 00 <b>1</b> 0 00						
13.29 10.66 13.65 9.51 9.51	10.72 12.63 7.39 11.27 11.23	11.08 9.38 9.07 6.26 7.28	10.11 9.83 15.82 11.52 11.52	12.08 7.81 8.77 8.77 12.66 6.33	9.56 9.70 7.79 7.53	\$10.29		
116 25 25 25 25 25 25 25 25 25 25 25 25 25	02 05 05 11 12	0.6 0.3 6.0 1.4	0.7 0.6 0.3 0.3	0.6 0.8 5.5 1.2	0.0 0.7 0.6 8.8	1.4	2.5	
4.6 119 75	6.6 0.0 3.6 6.3 6.3	7.1 1.6 0.4 1.2	3.5 5.0 5.8 5.8 5.4	05 05 05 05 05 05 05 05 05 05 05 05 05 0	3.0 6.8 0.0 0.0	2.8	1.1	
3.4 2.3 14.2 14.2	11 200 200 200 200 200 200 200 200 200 2	222 332 332 154	10.0 222 422 7.7	1.8 2.9 8.5 8.5 8.5 8	6.3 3.3 1.2 13.2 13.2	3.7	5.4	
6.4 5.9 2.9 2.9 2.9 2.9 2.9 2.4 1.0	10.8 3.5 2.8 6.7 6.7	12.1 3.2 6.7 4.5	82 50 142 23.7 23.7 23.7	11.1 13.1 13.1 3.7 7.1	11.7 12.9 11.1 6.9 4.8	4.4	1.5	
0.6 0.7 0.9 0.8	2.1 0.5 0.4 0.7	1.4 1.2 0.3 0.3	0.7 1.4 0.7 0.3	0.8 1.7 1.1 0.8 0.7	1.1 0.3 0.9 0.6	6.0	0.2	
578 575 575 575 575 575 575 575 575 575	75 44 39 40 87 87	39 818 731 241 241	200 200 200 200 200 200 200 200 200 200	200000	4 388 1298 1298 129	3.1	6.6	d Conorol
27.6 32.5 32.8 32.8 28.7 28.7	23.8 38.6 394.0 28.8 28.8	37.2 34.6 32.5 32.6 25.0	31.8 32.3 37.7 22.7	29.9 32.3 37.4 23.8 23.8	30.0 33.3 24.5 28.9 28.9	31.1	35.9	ation Nordord
54.5 42.2 44.6 44.6 44.6	47.2 47.7 57.3 41.3 45.4	355 575 493 498 893	50.4 46.6 343.6 36.8 36.8	44.6 36.6 56.8 55.8 55.8	43.6 59.5 52.2 52.2 52.2 52.5 5 52.5 5 5 5 5 5	52.6	46.8	icine Hat Teol
12.13 8.42 14.80 7.37 7.37	11.19 10.68 8.58 10.40 11.52	10.87 8.11 10.93 5.55 7.85	8.76 9.36 15.89 10.91 10.72	9.83 7.66 7.07 9.92 10.71	9.65 9.80 8.60 7.06 7.52	\$ 10.20	a transme	Home. Med
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 Leer, Municipal	Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George MacDougall Spirit River, Holy Cross St. Paul, St. Theresa	Stettler, Municipal Taber, Municipal Three Hills, Municipal Tofield, Municipal Trochu, St. Mary's	Two Hills, Municipal Vegreville, General Vermilion, Municipal Viking, Municipal Vilking, Our Lady's	Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Total	Turner Valley, Municipal (operating 6 months)	Not avialable: Edmonton Raulab Home: Medicine Hat Teolation:

Not avialable: Edmonton, Beulah Home; Medicine Hat, Isolation; Nordegg, General.

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Approved Hospitals Athabasca, Municipal Banff, Mineral Springs Banff, Mineral Springs Barsano, Municipal Barsano, Municipal Bervyn, Municipal Bervyn, Municipal Bervyn, Municipal Bervyn, Municipal Barroee, Crow's Nest Pass Municipal Barroee, Crow's Nest Pass Municipal Barroee, Crow's Nest Pass Municipal Barroee, Cow's Nest Pass Municipal Barroee, Municipal Barroee, Municipal Barroee, Municipal								
Approved Hospitals a. Municipal ineral Springs Municipal dge, Municipal Municipal Municipal e. Crow's Nest Pass Municipal le, Katherine H. Prittie le, St. Louis Municipal Concel		70c Per Diem	B	Maternity	lity Grant	Pensi	Pension Grant	i
a, Municipal ineral Springs (, St. Joseph's Municipal dge, Municipal Municipal e, Crow's Nest Pass Municipal e, St. Louis le, St. Louis Muncipal Alberta Red Cross	Grant Days	Non-Grant Days	Amount	Grant Days	Amount	Grant Days	Amount	Amount
Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass Municipal Bonnyville, Katherine H. Prittie Bonnyville, St. Louis Brooks, Muncipal Galgary, Alberta Red Cross	8,464 7,645 10,957 5,752 3,341	2,603 34 34 40	\$ 5.924.80 7,665.30 4.026.40 2.338.70	1,566 1,566 1,536 657 549	\$ 9,002.15 1,994.20 8,524.80 3,646.35 2,882.25	633 633 386 386 2,521 349 386	\$ 3.729.60 2.296.70 14,090.00 1.954.40 2.161.60	\$ 18.656.55 9.642.40 30,280.10 9.627.15 7,382.55
Muncipal Alberta Red Cro General		221 221 59 1,591	$\begin{array}{c} 2.240.70\\ 3.488.80\\ 9.714.65\\ 2.688.00\\ 7.417.90\end{array}$	374 649 1,681 340 1,203	2,175,80 3,541,95 9,925,40 1,887,00 6,676,65	436 499 2,165 2,489 2,489	2,571.10 2,794.40 12,872.65 2,124.60 13,938.40	6,987.60 9,825.15 32,512.70 6,699.60 28,032.95
	13,117 32,397 118,312 14,488 122,646	106 452 6.288 529 8,102	9,182.00 22,677.90 82,820.60 10,141.60 85,868.70	1,759 17,246 17,064	10,375.10 122,440.20 121,172.00	1,024 12,579 8,239	6,092.80 90,564.00 59,005.60	25,649.90 22,677.90 295,824.80 10,141.60 266,046.30
Calgary, Salvation Army Grace Camrose, St. Mary's Canmore, Canmore Cardston, Municipal Carmangay, Little Bow Municipal	3,723 25,860 2,251 9,301 2,712	533 503 145 68- 9	2,606.10 18,102.30 1,575.70 6,510.70 1,894.00	1,558 3,737 345 1,886 149	9,192,20 23,728,35 1,811,25 10,467,30 782,25	3,073 192 866 580	19,667,20 1,075,20 4,849,60 3,221,60	11,798.30 61,497.85 4,462.15 21,827.60 5,897.85
Castor, Our Lady of the Rosary Cereal, Municipal Claresholm, Municipal Cold Lake, John Neil Consort, Municipal	7,939 1,814 10,446 1,543 4,619	58 71 221 1,568 537	5,557,30 1,269,80 7,312,20 1,080,10 3,233,30	885 281 1,190 363 628	5,221.50 1,475.25 7,021.00 1,905.75 3,485.40	908 514 1,248 1108 417	5,084.80 2,724.20 7,425.60 27,335.20	15,863.60 5,469.25 21,758.80 3,558.25 9,053.90
Coronation, Municipal Daysland, Providence Desmarais, St. Martin's Dibsbury, Municipal Drumheller, Municipal	5,429 6,434 956 7,062 23,747	69 60 1,911 79 441	3,800.30 4,503.80 669.20 4,943.85 16,622.90	640 441 134 924 2,489	3.372.00 2.447.55 703.50 5.451.60 15,805.15	637 519 33 377 2,501	3.376.10 2.906.40 184.80 2.231.45 16,006.40	10.548.40 9.857.75 9.857.75 1.555.50 12,656.90 48,434.45

TABLE No. 7-GRANTS PAID DIRECTLY TO HOSPITALS

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13.036.70 13.82235 227.166.45 255.100.65 413,432.15	325,155.80 21,278.30 26,459.30 5,093.95 6,781.45	17,989.05 13,099.75 3,956.15 791.65 5,194.80	8,965.85 8,091.50 41,344.40 3,415.85 21,204.60	11,380.75 30,262.80 24,299.45 19,332.95 4,620.70	6,626.00 16,276.30 20,415.50 36,049.10 37,122.35	82,125,40 933,10 114,314,00 27,789,70 21,189,60	8.368.65 7.152.30 8.400.00 17,069.75 92,003.35
3,817.20 3,817.20 107,129,60 72,845,60 115,477.60	$\begin{array}{c} 128,894.40\\ 3,332.00\\ 12,118.40\\ 1,405.60\\ 1,702.40\end{array}$	5,528.25 5,602.80 852.00 1,272.00 1,272.00	2,088.80 3,007.20 13,477.70 948.70 6,128.50	3,326.40 7,323.90 5,688.20 5,753.65 1,444.80	156.80 4,105.50 4,659.20 9,448.60 15,168.00	36,044.80 30,444.45 6,592,60 4,284.00	$\begin{array}{c} 2,815.30\\ 694.30\\ 1,534.40\\ 3,468.85\\ 31,288.00\\ \end{array}$
684 14,908 10,123 16,035	17,902 560 2,164 251 304	940 1,002 161 34 240	373 537 2,268 179 1,030	1,232 956 967 258	28 690 1,588 2,370	5,632 4,758 1,108 765	509 131 274 583 4,891
4,678.70 6,876.45 56,508.90 113,550.30 179,122.50	81,380.20 11,558.10 5,565.00 1,936.95 2,503.05	6,619.30 3,389.55 1,726.05 2,194.50	3,157.95 2,697.30 14,065.85 1,338.75 7,782.10	3,790.65 11,680.80 9,285.15 7,021.00 1,239.00	3,596.40 6,926.40 9,013.20 15,139.40 9,544.05	21,640.80 44,138.85 10,254.00 8,247,30	$\begin{array}{c} 2.584.65\\ 4.140.30\\ 3.962.70\\ 7.936.50\\ 35,209.15\\ \end{array}$
793 1,239 15,993 25,231	11,462 1,959 1,060 349 451	1,151 611 611 61 418	569 2,419 2,555 1,319	683 2,106 1,673 1,190 236	648 1,248 1,624 2,566 1,503	3,408 6,951 1,763 1,486	471 746 714 5,545
4,540.80 2,405.90 63,527.95 68,704.75 118,832.05	114,881.20 6,388.20 8,775.90 1,751.40 2,576.00	$\begin{array}{c} 5,841.50\\ 4,107.40\\ 1,378.10\\ 291.20\\ 1,728.30\end{array}$	3,719.10 2,387.00 13,800.85 1,128.40 7,294.00	4.263.70 11.258.10 9.326.10 6.558.30 1.936.90	2,872,80 5,244,40 6,743,10 11,461,10 12,410,30	24,439.80 29,333.10 39,730.70 10,943.10 8,658.30	2,968.70 2,317.70 2,902.90 5,664.40 25,506.20
83 959 13,757 4,272 16,159	63,605 574 672 8 712 712	35 221 1,330 N.A. 7,954	2 8 1,376 316 67	3,613 153 90 1	1,472 195 185 261 2,039	3,043 26 1,593 23	103 103 3,652
6,490 3,437 90,700 98,130 169,775	164,116 9,126 12,537 2,502 3,680	8,345 5,868 1,969 416 2,469	5,313 3,410 19,714 1,612 10,420	6,091 16,083 13,323 9,369 2,767	4.104 7.492 9.633 16.373 17.729	34,914 1,333 56,756 15,633 12,369	4.241 3.311 4.147 8.092 36,437
	sity pal 1	pal	f Grande Prairle)		. Catherine's	on chael's General dminster Heart	r pal
Eckville, Municipal Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra	Edmonton, University Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal	Fairview, Municipal Fort Maeleod, Municipal Fort McMurray, St. Gabriel's Fort Smith, General (N.W.T.) Fort Vermilion, St. Theresa	Galahad, St. Joseph's Glendon, Municipal Grande Prairie, Municipal Hythe, (Sub Hospital of Grande Prairie) Hanna, Municipal	Hardisty, St. Anne's High Prairie, Providence High River, Municipal Innisfail, Municipal Islay, Municipal	Jasper, Seton Killam, General Lac La Biche, St. Catherine's Lacombe, Municipal Lamont, Archer Memorial	Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's General Lloydminster, Lloydminster McLennan, Sacred Heart	Magrath, Municipal Maming, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General

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#### DEPARTMENT OF PUBLIC HEALTH

		70c Per Diem	n	Matern	Maternity Grant	Pens	Pension Grant	1
Approved Hospitals	Grant Days	Non-Grant Days	Amount	Grant Days	Amount	Grant Days	Amount	Amount
Medicine Hat, Isolation Mundare, General Myrnam, Municipal Olds, Municipal Oyen, Municipal	5,195 3,965 11,037 2,268	66 44 322 10	\$ 29.40 3,635.70 2,774.10 7,725.90 1,587.60	366 366 1,703 346	\$ 2.031.30 2.247.00 10,047.70 1,920.30	1,488 809 1,291 192	\$ 8,326.80 4,522.00 7,639.85 1,142.40	\$ 29.40 13,993.80 9,543.10 25,413.45 4,650.30
Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's	13,601 9,101 8,564 6,398 5,621	732 359 319 122 180	9,521,45 6,370,70 5,995,30 4,478,60 3,934,70	$1,890 \\ 1,110 \\ 1,498 \\ 740 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 \\ 1,121 $	11,149.50 6,458.70 8,838.20 4,107.00 5,885.25	669 624 510 741 616	3,962.35 3,657.85 3,021.50 4.149.60 3,449.60	24,633.30 16,487.25 17,855.00 12,735.20 13,269.55
Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rock Mountain House, Municipal Smoky Lake, George McDougall	4,246 25,335 7,469 6,804 2,886	314 661 73 489 5	2,972.20 17,734.80 5,228.30 4,762.80 2,020.20	3,461 3,461 1,156 858 559	4,650.90 21,975.75 6,820.40 4,761.90 3,102.45	3,154 3,154 788 849 607	$\begin{array}{c} 1,668.80\\ 20,185.60\\ 4,688.60\\ 4,754.40\\ 3,339.20\end{array}$	9,291.90 59,896.15 16,737.30 14,279.10 8,521.85
Spirit River, Holy Cross St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Three Hills, Municipal	11.010 14,458 19,877 14,274 5,118	2,338 364 612 56	7,707.00 10,120.65 13,913.90 9,991.80 3,582.60	1,091 2,340 2,118 2,278 1,011	6,055.05 13,804.50 12,496.20 12,642.90 5,964.90	1,421 2,116 2,306 981 268	$\begin{array}{c} 7,957.60\\ 12,590.20\\ 13,720.70\\ 5,493.60\\ 1,594.60\end{array}$	21,719.65 36,515.35 40,130.80 28,128.30 11,142.10
Tochu, St. Municipal Trochu, St. Mary's Turner Valley, Municipal Two Hills, Municipal Vegreville, St. Joseph's General	5,929 4,697 5,447 7,250 20,695	42 779 779	4,150.45 3,287.90 3,812.90 5,075.00 14,486.50	814 590 499 1,624	4.802.60 3.274.50 2.769.45 4.324.70 10,171.10	922 697 516 1,311 4,292	5,482.00 3,903.20 2,734.80 7,800.45 26,987.30	14,435.05 10,465.60 9,317.15 17,200.15 51,644.90
Vermilion, Municipal Viking, Municipal Vilina, Our Lady's Vulcan, Municipal Wainwright, Municipal	9.758 6.518 3.607 9.106 13,640	10 10 231 565	6,830.20 4,562.60 2,524.90 6,374.20 9,548.00	1,501 748 969 1,151 2,038	8.852.90 3.927.00 5.377.95 6.388.05 12,024.20	948 941 424 1,872	5,308.80 5,269.60 2,247.20 1,695.75 11,138.40	20,991.90 13,759.20 10,150.05 14,458.00 32,710.60

Table No. 7-Continued

Westlock. Immaculata Wetaskiwin. Community Willingdon, General	20,470 15,394 5,871	476 951 41	14.329.00 10.775.80 4.109.70	2,862 2,490 602	16,633.10 14,691.00 3,341.10	2,358 1,263 1,539	13,806.10 7,514.85 8,618.40	44.768.20 32.981.65 16,069.20
Total for Hospitals Operating full year	1,693,332	167,220	\$1,185,383.65	212,230	\$1,360,973.50	179,016	\$1,164,339.60	\$3,710,696.75
Hospitals in Operation only part of the year: Cadomin, General Nordegg, General	679 265	00	\$ 475.30	146 73	\$ 810.30 383.25		s	\$ 1,285.60
Total for Approved Hospitals	1,694,276	167,228	\$1,186,044.45	212.449	\$1,362,167.05	179,016	\$1,164,339.60	\$3,712,551.10
PRIVATE HOSPITALS: Coaldale, Coaldale Luscar Mercoal Sexsmith Swalwell				678 128 1.171 376	\$ 2,034.00 384.00 72.00 3.513.00 752.00		<b>\$</b>	\$ 2,034.00 384.00 72.00 3.513.00 752.00
Total for private hospitals				2,377	\$ 6,755.00			\$ 6,755.00
GRAND TOTAL	1,694,276	167,228	\$1,186,044.45	214,826	\$1,368,922.05	179,016	\$1,164,339.60	\$3,719,306.10
Note: The above does not include \$46.456.80 baid to the Alberta Red Cross Hospital in Calgary for 19.357 orthopaedic days.	erta Red Cro	es Hospital	in Calgary for	19.357 orthc	ppaedic davs.		1000	1 3114

19,357 orthopaedic days. Calgary Ior Note: The above does not include \$46,456.80 paid to the Alberta Red Cross Hospital in

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	f onths sritnol	Age 16 Yea	Years and Over	Age Under	Age Under 16 Years	Tc	Total
Local Authority	No. of Partic	Days	Amount	Days	Amount	Days	Amount
Andrew, Village Athabasca, Municipal Hospital District Barrhead, Town Bassano, Municipal Hospital District Baswif, Village	99999	278 3,857 673 3,070 215	\$ 681.50 8,665.40 1.477.00 6,719.80 497.50	1,131 1,131 512 512 72	\$ 239.75 2,053.80 241.40 869.95 127.25	404 4,988 3,582 3,582 287	\$ 921.60 10.719.20 1.718.40 7.589.75 624.75
Beaver, Municipal District Beaverlodge, Municipal Hospital District Bentley, Municipal Hospital District Berwyn, Municipal Hospital District Bittern Lake, Village	88888	1,056 1,325 2,101 45	1,417.80 2,359.50 3,047.60 4,566.40 114.75	87 147 572 681	178.35 249.00 1,027.45 1,157.25	643 1,233 1,897 2,782 45	1,596.15 2,608.50 4,075.05 5,723.65 114.75
Bonnyville, Municipal District Bow Island, Municipal District Bowness, Town Boyle, Municipal Hospital District Brooks, Municipal Hospital District	22222	2,209 1,373 1,166 1,411 6,360	4,844.95 3,367.95 3,381.40 3,115.75 14,871.75	1,458 275 695 2,264	2,450.70 551.80 1,668.00 1,075.65 4,175.35	3,667 1,648 1,861 2,041 8,624	7,295.65 3,919.75 5,049.40 4,191.40 19,047.10
Burdett, Village Bruderheim, Village Calgary, City Calgary, Rural Municipal Hospital District Camrose, Municipal District	22222	16 55,926 10,629 4,445	35.20 318.75 318.75 30,268.55 30,268.55 11,175.75	14 59 15,836 4,324 970	23.80 120.95 37,632.20 10,180.20 1,982.25	30 71,762 14,953 5,415	59.0 439.3 40,448.7 13,158.0
Camrose, Town Cardston, Municipal Hospital District Castor, Municipal Hospital District Cereal, Municipal Hospital District Chipman, Village		3,861 4,289 3,012 568 61	9,632.70 9,339.95 6,602.90 1,156.40 155.55	1,068 11,068 112 81 35	671.45 1,812.00 1,210.40 124.35 70.10	4.190 5.357 3.724 649 96	10,304.15 11,151.95 7,813.30 1.280.75 225.65
Claresholm, Municipal Hospital District Consort, Municipal Hospital District Coronation, Municipal Hospital District Crow's Nest Pass Municipal Hospital District Daysland, Municipal Hospital District	88888	4,321 2,848 2,765 5,189 3,157	10,039.15 6,085.60 5,509.45 12,096.50 7,283.75	796 165 444 673 1,608	1,458.20 280.50 686.60 1,245.05 2,795.00	5,117 3,013 3,206 5,862 4,765	11,497.35 6,366.10 6,196.05 13,341.55 10,078.75
Delburne, Municipal Hospital District Didsbury, Municipal Hospital District Drumheller, Municipal Hospital District	13 13 13	1.793 3.376 12,324	4.222.60 7,846.75 31,003.25	237 736 2,805	462.75 1.361.60 5.683.15	2,030 4,112 15,129	4,685.35 9,208.35 36,686.40

TABLE No. 8-HOSPITALIZATION PAYMENTS TO LOCAL AUTHORITIES

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# DEPARTMENT OF PUBLIC HEALTH

7,020.90 118,568.20	11,563.80 2,898.70 4,566.45 9,414.25 75.50	18,687.70 300.60 111.70	3,489.60 22,184.50 641.85 11,346.35 577.60	20,050.55 4,118.65 12,207.05 2,243.40 5,073.65	710.80 134.20 1,127.90 17,824.30 23,634.75	2,299.65 1,671.60 21,184.75 2,652.60 44,363.10	24,263.35 205.55 4,190.45 5,597.05	3,262.55 4,898.55 24,159.10 69.85 4,388.20
3,397 42,586	5,673 1,364 2,299 4,299 30	334 8,896 143 100 56	1,687 10,031 281 4,987 232	8,765 2,101 5,453 1,185 2,437	352 61 572 7,925 10,100	913 602 1,690 1,238 18,084	$10,949 \\ 1,990 \\ 2,893 \\ 2,893 \\ 2,893 \\ 2,893 \\ 2,893 \\ 2,893 \\ 2,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,893 \\ 3,8$	1,597 2,258 9,770 1,940
1,538.50	2.918.85 243.10 772.50 1.699.40 4.10	34.85 4,206.45 47.60 39.10	$\begin{array}{c} 747.55\\ 3,401.80\\ 1,292.00\\ 57.40\end{array}$	$\begin{array}{c} 1,581.75\\753.00\\2.004.60\\235.00\\837.05\end{array}$	140.25 292.95 2,391.55 4,807.75	116.85 319.20 3,437.60 6,789.25	4,308.55 127.65 635.60 635.60 1,246.20	554.00 1,224.05 2,504.10 886.10 886.10
905 9.721	1,722 143 456 940 2	2,406 28 28 23 23	1,877 1,877 28 703 28	855 447 1.095 161 499	85 1,301 2,462	57 1,453 1,453 3,325	2,399 369 376 758 758	328 667 1,225 449
5,482.40	8.644.95 2.6555.60 3.793.95 7.714.85 71.40	14,481.25 253.00 97.00 72.60	$\begin{array}{c} 2.742.05\\ 18,782.70\\ 590.05\\ 10,054.35\\ 520.20\end{array}$	18,468.80 3.365.65 10,202.45 2,008.40 4,236.60	570.55 134.25 15,432.75 15,432.75 18,827.00	$\begin{array}{c} 2.182.80\\ 1.352.40\\ 17.747.15\\ 2.441.80\\ 37.573.85 \end{array}$	19,954.80 772.90 3,554.85 346.45 4,350.85	2,708.55 3,674.50 21,655.00 3,502.10
2,492 32,865	3,951 1,221 1,746 3,359 28	317 6,490 115 33	1,247 8,154 253 4,284 204	7,910 1,654 4,358 1,024 1,024	267 261 392 6,624 7,638	856 469 6,237 1,114 14,759	8,550 35 1,614 2,135 2,135	1,269 1,591 8,545 1,491
12 6	<sup>1222122</sup>	12 12 12 6	88888	111111 111111	111111	822222	12	11111 11111
Eckville, Municipal Hospital District Edmonton, City	Elk Point, Municipal Hospital District Elnora, Municipal Hospital District Empress, Municipal Hospital District *Fairview, Municipal Hospital District Ferintosh, Village	Foremost, Village Flagstaff, Municipal District Forestburg, Village Galabad, Village Girouxville, Village	Glendon, Municipal Hospital District Grande Prairie, Municipal Hospital District Granum, Town Hanna, Municipal Hospital District Hay Lakes, Village	High River, Municipal Hospital District *Hughenden, Municipal Hospital District Innisfail, Municipal Hospital District Irrma, Municipal Hospital District Islay, Municipal Hospital District	*Killam, Village Kitscoty, Village Lac La Biche, Town Laconbe, Municipal Hospital District Lamont, Municipal District	Lamont, Village Leduc, Town Leduc, Municipal District Little Bow, Municipal Hospital District Lethbridge, City	Lloydminster, Municipal Hospital District Lougheed, Village Macleod, Municipal Hospital District Manning, Village Magrath, Municipal Hospital District	Mannville, Municipal Hospital District Mayerthorpe, Municipal Hospital District Medicine Hat, City Milo, Village Minburn, Municipal District

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T and Authorities	teqio eipat- adinol	Age 16 Yea	Age 16 Years and Over	Age Unde	Age Under 16 Years	Tc	Total
LOCAL AUTIONLY	Parti	Days	Amount	Days	Amount	Days	Amount
Morinville, Municipal District Municipal Affairs Mundare, Town Myrnam, Municipal Hospital District McLennan, Town	8 888	4,683 11,425 1,598 1,598 469	\$ 12,673.60 27,121.85 675.40 3,492.20 1,022.35	1.700 4.276 54 630 292	\$ 3,707.85 7,878.00 91.80 1.057.95 496.40	6,383 15,701 361 2,228 761	\$ 16,381.45 34,999.85 767.20 4,550.15 1,518.75
New Norway, Village Okotoks, Town Olds, Municipal Hospital District Oyen, Municipal Hospital District Peace River, Municipal Hospital District	22222	75 491 4.654 1.250 4.982	185.75 1.315.00 10.797.85 2.919.50 211.617.70	42 88 858 237 1,659	66.85 162.80 1,578.75 432.60 3,040.35	117 5,512 1,487 6,641	252.60 1,477.80 3,352.10 3,352.10
Pembina, Municipal District Penhold, Village Ponoka, Municipal Hospital District Provost, Municipal Hospital District Provost, Municipal District	88888	1,632 1,632 3,716 3,169 183	4,728.90 328.95 8,688.95 6,840.85 330.90	315 108 1,125 879 25	750.80 219.80 2,071.35 1,471.35	1,947 238 4,841 4,048 208	5,479.70 548.55 10,760.30 8,312.20 433.40
Public Welfare Radway, Village Raymond, Municipal Hospital District Redcliff, Town Red Deer, Municipal Hospital District	12292	223 15 1,373 7,976	463.60 33.00 2.991.35 915.45 19,927.75	211 25 366 32 2005	339-50 42-50 617-25 65-60 4,106.95	434 40 1,739 391 9,981	803.10 75.50 3,608.60 981.05 24,034.70
Rimbey, Municipal Hospital District Rocky Mountain House, Municipal Hospital District Sedgewick, Village St. Paul, Municipal Hospital District Smoky Lake, Municipal District	22222	$\begin{array}{c} 1.858\\ 2.101\\ 624\\ 5.089\\ 4.038\end{array}$	4,336.15 4,564.10 1,330.85 11,330.80 8,544.20	443 826 64 3,045 784	806.95 1,390.70 104.35 5,428.05 1,304.00	2,301 2,927 688 8,134 4,822	5,143,10 5,954,80 1,435,20 16,818,85 9,848,20 9,848,20
Smoky River, Municipal District Spirit River, Municipal Hospital District Stettler, Municipal Hospital District Stony Plain, Municipal District Strathcona, Municipal District	88888	1,839 4,047 7,463 5,206 5,362	4,073.15 7,472.35 17,421.05 14,886.80 15,050.70	1,134 2,169 1,119 918	2,035,30 2,997,40 3,940,20 2,661,55 2,143,65	3,033 6,269 9,632 6,325 6,225	6,108.45 10,469.75 21.361.25 17,548.35 17,194.35
Stony Plain, Town Strome, Village Sturgeon, Municipal District	1212	483 193 4,108	1,380.55 418.60 11,456.95	51 71 1,081	119.15 119.15 2,380.55	534 5,189	1,499.70 537.75 13,837.50

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#### DEPARTMENT OF PUBLIC HEALTH

1,810.20	382.30 5,328.65 4,807.45 5,655.95 3,598.80	8,633.40 20,157.85 11,304.00 8,208.65 13,200.50	$\begin{array}{c} 12.639.30\\ 4.103.05\\ 9.519.40\\ 12.546.50\\ 1.584.80\\ 6.173.00\end{array}$	\$1,313,057.40	\$ 112.40 820.75 340.80 106.15 597.80 649.40 180.60	\$1,316,831.30
5,041	2,419 2,419 2,118 2,704 1,846	3,900 8,634 5,319 5,319 5,849	5,704 1,834 4,323 5,743 5,743 2,971	553,701		553,701
1,654.95	72.00 966.20 606.80 621.65 575.05	1,824.00 5,416.85 1,249.65 1,840.45 1,624.65	2.053.00 520.50 1.978.25 2.743.70 218.60 1,392.65	\$ 239,125.55	<i>s</i>	\$ 239,125.55
978	322 328 367 371	2,693 738 1,085 885	1,136 276 1,081 1,516 1,516 808	120,683		120,683
8,908.90	310.30 4,362.45 4,200.65 5,034.30 3,023.75	6.809.40 14.741.00 10.054.35 6.368.20 11.575.85	10,586.30 3,582.55 7,541.15 9,802.80 1,366.20 4,780.35	\$1,073,931.85	<i>w</i>	\$1,073,931.85
4,063	107 1,887 1,790 2,337 1,475	2,907 5,941 4,581 2,902 4,964	4,568 1,558 3,241 4,227 621 621 2,163	433,018		433,018
12	6 12 12 12 12 12 12 12 12 12 12 12 12 12	22222	1212 <del>6</del> 1212		1111 111	
Sylvan Lake, Town Taber, Municipal Hospital District	Thorsby, Village Three Hills, Municipal Hospital District Tofield, Municipal Hospital District Trochu, Municipal Hospital District Turner Valley, Municipal Hospital District	Two Hills, Municipal Hospital District Vegreville, Municipal Hospital District Vermilion, Municipal Hospital District Viking, Municipal Hospital District Vulcan, Municipal Hospital District	Wainwright, Municipal Hospital District Wetaskiwin, City Wetaskiwin, Municipal District Westlock, Municipal District Westlock, Town Willingdon, Municipal Hospital District	Total	*Plus settlement on behalf of Contract Holders where contracts were sold for more than \$8.00 per year: Consort, Municial Hospital District Fairview, Municipal Hospital District Hughenden, Municipal Hospital District Killam, Village St. Paul, Municipal Hospital District Viking, Municipal Hospital District Viking, Municipal Hospital District Westlock, Town	GRAND TOTAL

#### ANNUAL REPORT, 1952

.

#### TABLE 9

		1952		193	51
Age Group	1951 Population	Number Hospitalized*	% of Hospitalized in each Age Group 10	Number Hospitalized* 17,400	% of Hospitalized in each Age Group 10
0-4 5-9	116,846 93,063	18,500 12,800	7	12,100	7
10-19	150,838	20.000	11	18,100	11
20-29	152,242	41,700	23	39,000	23
30-39	138,460	28,400	15	25,700	15
40-44	56,971	9,300	5	8,500	5
45-49	50,146	8,200	4	7,500	4
50-54	42,334	7,700	4	7,000	4
55-59	37,001	6,700	4	6,300	4
60-64	34,657	7,100	4	6,700	4
65-69	29,439	7,400	4	6,300	4
70-74	19,553	7,000	4	6,200	4
75 and over	17,951	8,600	5	7,600	5
N.S.		. 100		100	
TOTALS	939,501	183,500	100	168,500	100

#### HOSPITALIZATION OF ALBERTA POPULATION BY AGE (Newborn Excluded)

\*Excludes Polio, D.V.A. and T. B. Division cases. Population according to 1951 census.

LENGTH OF STAY IN HOSPIT	AL BY PA 195		YPE, 1952 195	1
PATIENT TYPE	Number of Patients Discharged or Deceased (to nearest 100)	Average Length of Stay in Days	Number of Patients Discharged or Deseased (to nearest 100)	Average Length of Stay in Days
Recipients of:	05 000		10 000	
Municipal Hospitalization Benefits Maternity Hospitalization Benefits	65,900 26,000	7.6 8.2	46,800 24,100	7.6
Old Age Benefits	10,900	15.9	8,800	16.2
Mother's Allowance	900	6.9	900	7.5
Blind Pension Widow's Allowance	300	13.5 10.5	300 N.A.	14.8 N.A.
Residents not eligible for any of above	66,800	7.8	76,800	8.0
Others	9,000	10.7	7,300	12.1

TABLE 10

\*"Others" includes non-residents and patients whose hospitalization is provided for by the Department of National Defence, the Department of Indian Affairs or the T. B. Division, in an approved active-treatment hospital.

New born infants and polio and orthapaedic patients are not included in above.

# Cerebral Palsy Clinics

DR. F. G. DAY, Director

Alberta's cerebral palsy cases have a new lease on life. Through the clinics which have been established by the Government of Alberta, these crippled children are learning to walk and talk and are learning such use of their hands as will remove many of them from the group which is a family handicap, into the class of selfsupporting citizens.

A clinic was established in Edmonton in temporary quarters in 1950, moving in 1952 to the new Clinic Building provided by the Government at 115th Street and 74th Avenue. Here the necessary staff is maintained to train these children to use their muscles as they have never been able to use them before. A similar clinic is now operating in Calgary.

In these places the physiotherapist gives training and treatment to release the tension in spastic muscles and thus permit them a degree of normal function, while at the same time correcting any deformity which may have developed. The muscles which control speech are also operating below par, so the child has difficulty in making himself understood. The province provides a speech therapist who is highly trained in the problem of helping these children to talk. The occupational therapist also assists in muscle reeducation and in keeping little minds alert by introducing the child to handicrafts which may incidentally, also be of value as a spare time occupation in later life. A teacher is also part of the team. An attempt is made to keep the child up to other children in ordinary school work. In doing this, she never forgets that the primary function of the clinic is to re-educate the disabled muscles.

The parents are also remembered and special classes are operated periodically so that they may learn to carry on with certain of the procedures when the child goes home. Ordinarily a child attends the clinic for three months and then is home for three months until the best results have been obtained.

Many of these children are so disabled that they require special splints in order to get around at all. These are made in a special brace shop which is maintained at the Cerebral Palsy Clinic and each splint is made specifically to fit a particular child and his needs.

A large amount of special equipment is used by the staff in the program of muscle re-education. This includes such items as walkers, relaxation chairs and special skis which are used in learning to walk.

Thus the training program is completely covered by the Provincial Government which leaves the problem of recreation, transportation and boarding accommodation to voluntary societies. Through these clubs, transportation has been provided so that children may be moved daily from their homes or boarding places in Calgary and Edmonton, to the clinics. In some cases, these societies provide transportation from the country residence to the boarding place in the city.

Although the clinics have been operating only a short time, already dramatic results have been seen in many cases. The best results are obtained in children of from three to six years. It is regrettable that in some forty per cent of cerebral palsy cases, the condition which caused the muscle difficulty, also caused a mental defect, making this particular group untrainable.

The operation of the clinic by the Province of Alberta and the operation of the auxiliary services by voluntary societies is an example of co-operation to achieve a good result. A total of 361 patients have been examined since the service started, although not all of them were suitable for treatment.

EXAMINATION AND ASSESSMENTS-JANUARY TO DECEMBER, 1952

	Edmonton	Calgary
Number of patients examined	285	76
Number of new cases	62	
Number of patients receiving treatment 4 times a week (3 months in and 3 months out):	An Leona	Goven
In clinic average	20	
Out patient average	10	
Number of individual treatments:		
Physiotherapy	1.421	
Occupational Therapy	1.442	20
Speech Therapy	1.223	11
Educational Therapy	1.558	
Braces for Cerebral Palsy Clinics:	-,	
Leg Braces	31	2
Arm Braces	3	1
Night Splints	6	

#### ANNUAL REPORT, 1952

# Canadian Red Cross Blood Transfusion Service THE EDMONTON DEPOT AND GALGARY SUBDEPOT D. I. BUCHANAN, M.B., Ch.B., D.P.H., Director

#### 1. NEW BUILDINGS

We have pleasure in reporting that construction began on two new buildings directly related to the work of the Blood Transfusion Service in this province, during 1952.

In Calgary, a new depot, including all necessary nurses' work rooms, processing rooms, and laboratories, etc., was planned in 1951 and work commenced on the new structure in the second half of 1952. These premises are being provided by the Government of the Province of Alberta at a cost of approximately \$170,000, and underline the permanent nature of the Service, first established in Alberta five years ago.

We are greatly indebted to the members of the provincial government and particularly to the Minister of Health and the Minister of Public Works for this tangible proof of the important part the Canadian Red Cross National Blood Transfusion Service is taking in the battle against ill-health and injury.

The other new building, built by the Red Cross, and closely affecting our work is, of course, the new permanent blood donor clinic on 106 th St. and 100th Avenue in Edmonton. The operational expenses of the Service continues to be borne by the Society.

For years, the clinics have been conducted in a windowless basement and it has not been possible to provide adequate facilities and proper air-conditioning in this "temporary" location. On the grounds of better donor facilities, and for health reasons in regard to both clinic personnel and donors this is a necessity, and we look forward to a better donor response in 1953 in the Edmonton clinics, now that suitable premises and more car parking space is available.

For a long time we have been concerned that the total voluntary blood donations in Edmonton have not increased at all in proportion to the general city population and the marked increase in hospital admissions, and therefore of transfusion therapy. We hope that part of the answer will be found in the provision of a new building specifically designed for donor clinics.

#### 2. USE OF WHOLE BLOOD AND PLASMA

The following table indicates, in some measure, the extent to which the Service is in demand:

TRANSFUSION OF WHOLE BLOOD AND PLASMA-1952 A-Hospitals in Northern Alberta; adjoining areas of N.W., British Columbia, and Y.T.: MATCHED BLOOD TRANSFUSIONS: Total No. of Patients Total No. of Bottles 7,572 14,279 BANK BLOOD OR "UNIVERSAL DONOR" TRANSFUSIONS: Total No. of Patients . Total No. of Bottles 898 1.22015 PLASMA TRANSFUSIONS: Total No. of Patients Total No. of Bottles 676 1.282B-Southern Alberta, and adjoining S.W., B.C.: MATCHED BLOOD TRANSFUSIONS: 7.260 Total No. of Patients Total No. of Bottles 10,713 BANK BLOOD OR "UNIVERSAL DONOR" TRANSFUSIONS: Total No. of Patients Total No. of Bottles ... 1.139 1,555 PLASMA TRANSFUSIONS: Total No. Patients .... Total No. of Bottles 276 486 TOTAL-Total for all hospitals supplied in North and South (A and B above): MATCHED BLOOD TRANSFUSIONS: Total No. of Patients Total No. of Bottles 14.832 24,992 BANK BLOOD OR "UNIVERSAL DONOR" TRANSFUSIONS: Total No. of Patients Total No. of Bottles 2.0372,7751/2 PLASMA TRANSFUSIONS: Total No. of Patients Total No. of Bottles 952

The number of whole blood transfusions administered during the year as matched and 'bank' blood amounted to 27,767<sup>1/2</sup> five hundred c.c. bottles, while the total number of patients receiving these transfusions amounted to 16,869. 952 patients received 1,768 bottles of plasma.

1,768

In 1951 as compared to 1952, the total number of patients who received whole blood transfusions was 15,630, so that there was an eight per cent increase in the number of hospital recipients.

In the summary for 1951, we reported that over 40,000 donors had attended clinics throughout the province and surrounding areas in the far north and west, and we advised that an increase could be anticipated. In 1952, 45,150 blood donations were received, an increase of 12½ per cent on the previous year.

In comparing the above total of 45,150 blood donations received with the total amount of whole blood collected in the first complete year of operation for both the Calgary and Edmonton centres (1948), we find that there has been an eighty-seven per cent increase, i.e., 24,118 bottles collected in 1948 as compared with 45,150 in 1952.

This marked difference is an indication of the constantly increasing demands on the Service by all hospitals, and in many cases the hospitals in the vast areas supplied have also expanded in bed capacities to meet the rapidly growing needs of the general population.

It is obvious that no one could predict the extent to which the Blood Transfusion Service will develop in future years.

Mobile clinics have increased out of all proportion to those held in the two large urban centres. In Edmonton, 8,195 bottles were collected in 1952, whereas 15,413 were collected on mobile clinics.

In Calgary 6,886 bottles were collected in 1952, against 14,655 on mobile clinics.

There are physical and financial limits to the successful operation of many mobile clinics, and we respectfully advise that further increases in hospital requirements must be met, primarily by holding larger clinics in the two main cities, and secondly by the judicious use of mobile clinics where the response is known to be excellent.

The truly magnificent achievements in many cities and towns are due to the hard work of the volunteer donor clinic chairman and committee members. We feel sure that all members at this annual meeting, and the directors of donor panels would wish to join us in expressing thanks for this most valuable service.

The Calgary sub-depot has not only issued a greater number bottles of whole blood to the hospitals supplied by the sub-depot, but has also contributed, for the first time, a greater number of plasma pools than the Edmonton depot. In 1952, from Edmonton and Calgary, 809 pools of liquid plasma (each pool being equivalent to approximately 20 blood donations) were shipped to the Connaught Laboratories for final drying and processing. The individual contributions of the two laboratories were as follows:

Calgary	455 pools shipped
Edmonton	348 pools shipped
Total	803 pools shipped

The continued production of dried, irradiated plasma is a vital necessity; in both our larger and smaller hospitals plasma is frequently administered in emergencies pending the matching and supply of whole blood. Its use under wartime conditions would be heavy, despite the temporary use of any plasma substitute such as dextran that might be available for initial treatment.

#### 3. GROUPING AND RH TYPING, ETC, OF SPECIMENS FOR MATERNITY CASES, ETC.

During 1952, 16,031 blood specimens were examined from maternity cases, etc., in the Edmonton laboratories and 9,934 in the Calgary laboratories.

These tests are often of a detailed nature, requiring much work and time, and they involve the use, in many instances, of costly Rh typing serum. They are undertaken, free of charge, for medical practitioners engaged in obstetrics and represent a major contribution to antenatal and postnatal care.

During the year 74 bottles of anti-A and anti-B sera were collected from volunteer donors, for use as grouping sera. In addition, 30 bottles of Rh testing serum were obtained with the cooperation of obstetricians.

#### 4. FINANCIAL SAVING TO PATIENTS

One cannot place a "price tag" on good health, nor on the best treatment that can be provided during ill-health or accidents. As a general estimate, however, one could gauge the financial savings to patients, through the Blood Transfusion Service in this area in the following way:

#### DEPARTMENT OF PUBLIC HEALTH

1.	Cost of whole blood (27,767 <sup>1</sup> / <sub>2</sub> five hundred c.c. bottles) at a nominal rate of \$15. per transfusion	\$416,512.50
	Cost of dried irradiated plasma (1,768 five hundred c.c. bottles) valued normally at \$40. each	70,720.00
3.	Cost of Rh typing investigations (25,965 tests) at a nominal sum of \$3. each	77,895.00
	TOTAL	\$565,127.50

On the above general estimate, one could reasonably state that the Society's contribution to hospital patients and to the public health in this province and adjoining territories during 1952 amounted to well over \$500,000 in services provided.

In conclusion, we would again express our deepest appreciation of the help received by volunteers as donors and as organizers at clinics.

# Division of Tuberculosis Control

#### DR. G. D. DAVISON, Director

During 1952 a further reduction in the death rate among Alberta residents has occurred and when official data is available it is expected that the figure will be considerably below the 1951 rate of 15.5 per 100,000. Although the death rate is continuing to fall, more cases of disease were admitted to sanatorium than in 1951.

Public Health efforts in various forms cannot take all the credit for the falling death rate, but the programme of prevention and control has accomplished much. The health education programmes of the Departments of Health and Education and the Alberta Tuberculosis Association are playing an important part in bringing correct information on the subject to thousands of people.

The tuberculosis death rate among the Indians has been materially reduced also by the unremitting efforts of the Indian Health Services of the Federal Department of Health and Welfare. This infectious disease, so prevalent among the Indians, has been of serious concern to the province. Grateful acknowledgement is made of the work accomplished by this federal authority.

#### Diagnostic Services.

The continuation of diagnostic services such as regular clinics at the Sanatoria and other centres has been an important factor in prevention and control. Altogether 310 clinic sessions were held and 12,363 people examined. An important part of this work is the examination of contacts of known cases of tuberculosis.

The chest x-ray surveys, with photofluorographic equipment, carried on throughout the province for the past nine years, have taken about 1,000,000 chest films. During 1952, 130,515 people were examined. Films sent into the Sanatorium by physicians and hospitals for interpretation amounted to 9,747.

The Indian Health Services, through their travelling clinics, xrayed 11,474. Many of these non-Indian who live in northern Alberta and inaccessible to the Provincial Tuberculosis Division equipment. Our thanks is extended to Indian Health Services for their cooperation and assistance.

The statistical report is appended.

The Division of Tuberculosis and practising physicians discovered 735 new cases of tuberculosis in 152. It is interesting to note that of these, 488 had residence in that area lying north of Township 52, that is, roughly a line drawn east and west through Edmonton. It is interesting to note also that on the basis of the 1951 census approximately 130,000 more people are resident south of the above line.

Grateful acknowledgement is made of the assistance rendered to us by the Health Units, Public Health Nurses, Alberta Tuberculosis Association and public spirited citizens in carrying on the clinic services.

#### New Construction.

The Aberhart Memorial Sanatorium was officially opened on February 20, 1952 and available for occupancy on March 1st, 1952. All tuberculosis patients from Edmonton Hospitals will be moved to the new Institution. This hospital is one of the finest of its type in North America, and the location is ideal. The Department of Public Works are to be highly commended on the results achieved. The opening of this hospital increased the number of sanatorium beds in the province by about 100, bringing the total in the province, including the Central Alberta Sanatorium, Calgary and the Charles Camsell Indian Hospital in Edmonton, to 1,050. A new sanatorium section at the Oliver Mental Hospital was also opened providing 200 beds for tuberculosis cases among the mentally ill.

In 1952 the addition to the Administration Building, Central Alberta Sanatorium, was completed. This extension houses improved and larger business offices and medical records on the ground floor. The main floor is given over to operating rooms, x-ray department and out-patient clinic. The top floor provides for more surgical beds. It is felt that this addition copes satisfactorily with the needs of the institution at the present time.

Toward the end of the year erection of a building to house male staff was commenced. It is hoped that these comfortable quarters will help to stabilize staff.

#### Treatment Services.

Sanatorium care was provided for 1,082 patients during the year. 629 cases were admitted, of whom 94 were suffering from nonpulmonary disease. The greater prevalence of tuberculosis in the north is reflected in the admission. There were 102 more cases admitted to the Aberhart Memorial Sanatorium than to the Central Alberta Sanatorium, Calgary. About 22% of the patients admitted were re-admissions. In many instances this reactivation occurs because the individual, on discharge from the sanatorium, must compete in the manual labour market before he has regained his health, Then, too, some of the readmissions are cases who have left hospital against medical advice. In the main, these people are infectious and, consequently, menaces to their families and associates. By law they can be committed to a sanatorium but theire is no provision for holding them until their treatment is concluded. It is the concensus of tuberculosis workers that these recalcitrants be confined to a sanatorium section, if necessary behind locked doors, until such time as they are ready to comply with the usual sanatorium rules and regulations.

Statistical report is appended.

#### Auxiliary Services.

To assist the patient to aspire to employment in keeping with his health. a broad educational programme has been carried on for several years by school teachers of the Department of Health along with rehabilitation officers of the Alberta Tuberculosis Association. Employers in industry are to be highly commended for their cooperation.

The Occupational Therapy Departments are very active also. This service is in the main educational. Many patients discover aptitudes of which they were unaware. What the patient accomplishes in his school work and/or occupational therapy determines in large measure what line of endeavor he should follow toward his rehabilitation so that the chances of future breakdown will be prevented.

#### Training of Nurses.

Short courses in tuberculosis nursing are given to student nurses from affiliated general hospitals. Each course at Central Alberta Sanatorium, Calgary lasts two months and at the Aberhart Memorial Sanatorium, Edmonton one month. It is felt that the two-months course is of much more value to the participants but only half the number who wish to take the course can be accommodated. Nursing aides from the provincial school also take part of their training in the Sanatoria. As a result of this introduction to the field of Tuberculosis Nursing, many of the students become interested in the work and join the staffs of the Sanatoria after graduation from their respective schools. Lectures to the nursing school students in the general hospitals of Edmonton and Calgary were given by the members of the Medical Staff of the Aberhart Memorial and Central Alberta Sanatoria.

#### Medical Students.

Throughout the university session the medical students of the fourth year attend weekly at the Aberhart Memorial Sanatorium for lectures and clinical instruction by the Sanatorium medical staff. During the summer vacation two members of the third year class were attached to the strength of the institution. It is the concensus that, although time is limited, some insight into the tuberculosis problem is gained by the students.

#### Administration.

These figures refer to the fiscal year ending March 31st, 1953 whereas those in the balance of this report are for the calendar year 1952.

year 1002.			
Gross operating cost—Central Alberta Sanatorium			91,250.82 98,082.86
Net operating cost—Central Alberta Sanatorium Gross Cost per patient day			93,167.96 7.99
Net Cost per patient day			5.70
Gross operating cost-Aberhart Memorial Sanatorium			50,106.56
Revenue			13,916.05
Net operating cost-Aberhart Memorial Sanatorium		9	536,190.51
Gross Cost per patient day			6.25 5.16
Net Cost per patient day Gross hospital cost—Edmonton and elswhere		-	32.040.91
Revenue			2,580.16
Net hospital cost—Edmonton and elsewhere		1	29,460.75
Cost of clinic service:			20,100.10
Treatment-Out-patient pneumothorax	\$ 5.293.00		
Mobile X-ray Units	15.036.63		
Other diagnostic services	11.043.50		
Total cost under Tuberculosis Act			31,373.13
Cost of projects under the Federal Tuberculosis Control		4.444	90,192.25
Grant are not included in the above figures.		==	
Patient days:			
Central Alberta Sanatorium			86.613
Alberta Memorial Sanatorium			104.003
Edmonton hospitals			480
Outside hospitals			140
Reciprocal agreements			3,496
Total patient days			194,732
			Marrie Marrie Marrie Marrie

Based on a population of 1,000,000, the per capita cost for Tuberculosis Control was \$1.19.

The total number of meals served at Central Alberta Sanatorium was 429,139; while at Aberhart Memorial Sanatorium the number of meals served was 440,689. The cost of food per meal at Central Alberta Sanatorium was \$0.3218, a decrease of \$0.0214 over that of the previous year as compared to a food cost per meal at Aberhart Memorial Sanatorium of \$0.3032, no comparable figures for the previous year being available.

#### Acknowledgments.

Our thanks are extended to the Honourable Dr. W. W. Cross, Minister of Health for his assistance, also to Dr. A. Somerville, Deputy Minister of Health.

Grateful acknowledgment is made of the assistance given by many voluntary societies. A list of the organizations taking part is set forth following the statistical section.

It is desired to express sincerest appreciation to the medical superintendents of the Sanatoria and their respective staffs for their loyal co-operation in the service of the Tuberculosis Division.

#### DIAGNOSTIC CLINIC REPORT

Tiese	Sessions	New Tuber Pul. N		l. Z		
Place STATIONARY CLINICS:	No. of S	Active	Active	Number Exams.	Number Review	Total
Calgary Central Alberta Sanatorium Camrose	47 102 5	5 23	3	$     \begin{array}{r}       113 \\       1256 \\       21     \end{array} $	227 2700 102	340 3956 123
Camrose Drumheller Edmonton Lethbridge Medicine Hat Red Deer Vegreville	$     \begin{array}{r}       12 \\       97 \\       11 \\       11 \\       6 \\       5     \end{array} $	2 138 6 1 1 1	171	44 2841 170 135 174 20	102 109 2703 411 164 204 96	153 5544 581 299 378 116
Total	296	177	12	4774	6716	11490
OTHER CLINICS Eckville Stettler Miscellaneous (Films sent in from various	3 11	1	2	10 11	69 25	79 36
points and paid for by Division.)		34	1	360	398	758
	14	35	3	381	492	873
Total All Clinics	310	212	15	5155	7208	12363

In addition to the above 227 newly discovered cases of active tuberuclosis there were also discovered 336 cases of inactive tuberculosis.

#### TUBERCULIN TESTING AND X-RAY SURVEYS

(Conducted by Public Health Nurses, Teachers, Business Firms, Hospitals, etc.)

	No. Tuberculin	
	Tested	No. X-rayed
Nursing Aides	253	413
Red Cross Blood Transfusion Service	19	29
Victorian Order of Nurses, Calgary		6
Canadian Industries Limited		0
Faculty of Education, Calgary	155	
Provincial Laboratory Staff, Edmonton	199	2
Health Units( Leduc-Strathcona, Sturgeon,		57
Stony Plain-Lee Sie Anne)		alon was described
Stony Plain-Lac Sie. Anne)	4,634	108
Public Health Nurses		29
Medical Students, Edmonton		303
University Freshman, Edmonton		581
Hospital Admission Films sent to Sanatoria		2.588
Metropolition Life Insurance Co., Calgary	•	22
	5,161	4,117

Total number known to have been given service 8,796 i.e. number rayed plus number tuberculin tested but not rayed.

N.B.—Data re number of other persons tuberculin tested and x-rayed as hospital admissions not available when this report compiled. These additional films interpreted by local hospital radiologists.

#### ANNUAL REPORT, 1952

#### MOBILE UNIT SURVEYS

	No.		No.
	X-rayed		X-rayed
Athabasca	1.355	High Prairie	1,814
Berwyn	699	Hines Creek	885
Boyle	791	Kinuso	377
Canyon Creek	369	Lac La Biche	1.880
G 11-1-	607	Manning	1,183
-	1.572	McLennan	771
Dixonville	374	Newbrook	627
	102.187	Paddle Prairie	313
Edmonton			914
Egremont	406		898
Fairview	1,602	D. J. D	558
Falher		Red Deer	228
Faust	561	Shewin-Glendon Chemical Plant	
Ft. Saskatchewan	1,798	(Ft. Sask.)	
Ft. Saskatchewan Gaol		Slave Lake	
Ft. Vermilion	498	Smith	601
Gibbons	844	Thorild	1,212
Girouxville	697	Worsely	397
Grassland	0.05		
Grimshaw	395		130,515
Grosmount	100		
Charland	917		
Grouard	011		

#### SUMMARY MOBILE UNIT SURVEYS

Probable tuberculosis inactive     849 (409 previou       Further examination requested     934       Non tuberculosis chest condition     1,104       Pleurisy active     0       Pleurisy inactive     469       No disease     126,559
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

#### SUMMARY-CLINICS AND SURVEYS

	No. Sessions	Total No. Exams.
Stationary Clinics	296	11,490
Other Clinics	14	873
Surveys (all types)	30	8,796
Mobile Unit	37	130,515
Indians, Whites and Half-breeds (work done by Department National Health and Wel-		
fare)		11,474
Total	377	163,148

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

Clinics Referred for admission by family physicians Surveys Referred by D.V.A. Provincial Laboratory Hospital admission films Other sources	1951 772 274 2 3 5 4 17	% 71.6 25.5 .2 .3 .5 .5 .4 1.5	1952 563 138 3 8 10 7 6	% 76.8 18.8 .4 1.0 1.4 .9 .8
	1,077		735	

Of the 563 Clinic Cases 26 were immigrants referred from the Department of National Health and Welfare. 151 were Mobile Follow Ups. 122 were referred by the family doctor to the clinic.

#### CLASSIFICATION OF NEW CASES OF ACTIVE AND INACTIVE PULMONARY TUBERCULOSIS (excluding Indians)

Minimal Moderately advanced Far advanced	58
Primary Tuberculosis pleurisy with effusion and evidence of previous pleurisy	58 81 22 676
Number newly discovered cases active tuberculosis Number newly discovered cases inactive tuberculosis Number cases reactivated Number non residents diagnosed as having tuberculosis Number of known contacts of newly discovered cases of tuberculosis Number of known contacts examined	51 8 2,562

#### DEPARTMENT OF PUBLIC HEALTH

#### TUBERCULIN 1952

Dilution No. 1 Dilution No. 2 Dilution No. 3 Dilution No. 4		144 395 37	
BGG VACCINATION (Number Given To			
Nurses (a) Graduates (b) Students (c) Other nursing personnel Other hospital personnel Medical students Contacts (a) Newborn (b) Others Indians and Eskimos Others			
TOTAL			-
INSTITUTIONAL R	EPORTS		-
	rta	ton.	
	VIbe	zior to Feb. 52 reffered 58 Edmonton atoria) erhart morial atorium	
	ral /	r to ref Edr toria oria toria	
	Central Alberta Sanatorium	(Prior to F 20/52 reffer 20/52 reffer to as Edmo Samatorial Memorial Samatoriur	Other
Patients under treatment January 1, 1952	238	205	10
Patients admitted during 1952 Patients transferred in	237 7	392 6	000
Total treated	482	603	10
Patients discharged and died Patients transferred out	242 6	320 6	81
Total discharged	248	326	10
Patients under treatment December 31, 1951	234	277	. 1
			453

#### DIAGNOSIS OF 629 PATIENT ADMISSIONS

	Central Alberta Sanatorium	Aberhart Memorial Sanatorium
Non-tuberculous	13	3
For diagnosis	12	35
Pleural Effusion	14	20
Tuberculosis, Inactive	8	6
Primary tuberculosis	9	*37
Non-pulmonary tuberculosis:		
Bone	14	23
Meningitis	1	5
Entero colitis	1	
Addison's disease	2	1
Rt. inguinal abscess	1	adding and the states
Renal, genito urinary, genital urinary		
tract	11	12
Peritonitis	4	2
Bowel	1	and in the local date
Adenitis	8	5
Endomitritis		1
Pericarditis		1
Chest abscess		1
Pulmonary tuberculosis active:		
Minimal	26	44
Moderately advanced	49	106
Far advanced	63	83
Miliary		7
momax		interest of the second second
TOTAL	237	392

## ANNUAL REPORT, 1952

#### INSTITUTIONAL REPORTS

	Central Alberta Sanatorium	Aberhart M Sanator	CONTRACTOR DARKS
Number with positive sputum on admission Number negative on admission	87 150	142 250	
Number negative on admission, postive later Number of readmissions during 1952	1 63	0 75	
Number both admitted and readmitted during	03		
1952 Number of patient days	3 86,662	18 96,678	
Number patient days in other provinces under Number of patients at beginning of 1952 Number of admissions			2,886 6 10
Total number of patient days including those in Number of institutional patient days provided f Number of patients at beginning of 1952	other provinces unde or non rersident unde	r reciprocity r reciprocity	186,226 1,059 1
Number of admissions			8

#### OPERATING ROOM REPORTS

	Central Alberta Sanatorium	Aberhart Memorial Sanatorium	Total
THORACOPLASTY:	Sunatorrain	Ganatorium	Total
Number stages	62	32	94
Number of 1st stages	22	17	39
Number of revisions Number of cases	1 26	2 17	3 43
		c	
Plombage		6 6	6
Segmental lobe resection		5	5
Phrenic crush	67	3 2	9
Rib resection		5	5
Monaldi drainage Pneumolysis	3	2 27	9 9 5 5 27
Cavernostomy	2	21	
Reoponing cavernostomy		1	2 1 2 2 9
Unroofing empyema Revision of unroofing empyema		22	. 2
Thoracoscopy		9	9
Intercostal drainage		1	1
Bronchoscopy	15 24	40	55 24
Intracavity pressure	2		2
Removal thora plastic pack	1		1
Arthrodesis knee Arthrodesis femur	3	1 2	42
Arthrodesis hip	2		2
Arthrodesis shoulder Amputation phalanges metacarpal joint	1		1
Spinal fusion	4	5	9
Removal stump and secondary closure		1	1
Sequestrestomy of shoulder	1 8	1	1
Ureterostomy	0	1	1
Fulguration of bladder ulcer	TEAD SALERYOT	1001920110019	1
Urethral dilation	16	17	23
Excision ischiorectal abscess	1		1
Aspirations:	202	200	402
Other	54	60	114
Injection Methylene Blue into pleural space	****	1	1
Injection Lipiodol into shoulder sinus Decortication	3	2	3
Hemorrholdectomy		1	1
Myringotomy	1		1
Gastric lavage	34 3	1	34
Tonsillectomy	1	î	2
Removal ingrown toenail	1	2	3
Removal cyst—cheek		1	1
Incision reopened and packing inserted-			
blood clot removed from graft	****	1	1
Incision hordeolum Incision thora haematoma	1	1	1
Excision axillary glands		1	î
Excision mole on arm	1		1
Incision and drainage took abscess	****	110	10
Inter-abdonimal pressure		1	1
Biopsy axillary lyymph glands		1	1
Biopsy cervical node		12	2
Abdominal paracentesis		3	1235
Para-vertebral block	****	5	
Sympathetic genglion block		4	4

#### DEPARTMENT OF PUBLIC HEALTH

#### OPERATING ROOM REPORTS-Continued

	Central Alberta Sanatorium	Aberhart Memorial Sanatorium	Total
Sympathetic block	and a second	1	1
Intercostal block		3	3
Infiltration xylocaine into scar		1	1
Infiltration xylocaine lumbar region		1	1
Auricular pressure		1	1
Ventricular taps	10	66	66 700
Spinal taps	40	660	24
Pelvic examinations	23 3	1	4
Sigmoidoscopy and Proctoscopic	6	1	7
Insertion Percorton pellet	31	45	76
Plaster shells and casts Dressing to wrist		1	1
Removal Rodent ulcer—ear		and to find the h	ĩ
Removal lesion below eye		ī	1
Removal lesion below eye			
TOTAL	500	1,217	1,717
SUMMARY PNEUMOTHORAX CASES: Under treatment January 1, 1952 Number of new cases during 1952 No. cases under treatment on admission	63 12 10 85	127 42 31 200	190 54 41 285
Number cases discontinued	34	51	85
Number transferred out of Alberta Number transferred to other sections of	3	3	6
Division	8	22	30
	45	76	121
			Carlos and
Number under treatment December 31, 1952 Unsuccessfully attempted	40 5	124 7	164 12
Refills:			
Resident	577	1,697	2.274
Out-patient	1,341	2,366	3,707
	1,918	4,063	5,981
			and the second s

In addition to the above, 719 pneumothorax refills were given to 44 ex-sanatolum patients at the following points: Banff, Beaverlodge, Bonnyville, Drumheller, Elk Point, Fort Vermilion, Hanna, High Prairie, Lacombe, Lac La Biche, Lamont, Lethbridge, Nordegg, Ponoka Provost, Red Deer, Vermilion, St. Paul, Wainwright.

Central Alberta Sanatorium	Aberhart Memorial Sanatorium	Total
41 60 2	49 54 23	90 114 25
103	126	229
36 0	27 0	63 0
6	8	-14
42	35	
61	91	152
2,318 313	2,294 671	4,612 984
2,631	2,965	5,596
	Alberta Sanatorium 41 60 2 103 36 0 6 42 61 2,318 313	$\begin{array}{c cccc} \hline Alberta & Memorial \\ \hline Sanatorium & Sanatorium \\ \hline \\ 41 & 49 \\ 60 & 54 \\ 2 & 23 \\ \hline \\ 103 & 126 \\ \hline \\ 36 & 27 \\ 0 & 0 \\ \hline \\ 36 & 27 \\ 0 & 0 \\ \hline \\ 42 & 35 \\ \hline \\ 61 & 91 \\ \hline \\ 2,318 & 2,294 \\ \hline \\ 313 & 671 \\ \hline \end{array}$

In addition to the above 27 pneumoperitoneum refills were give to 5 ex-sanatorium patients at the following points: Banff, Lethbridge, Elk Point, Westlock.

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#### 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.

Transmission of the state	Central Alberta Sanatorium	Aberhart Memorial Sanatorium	Total
SPUTUM EXAMINATIONS: Positive	- 4444	932	
Negative	****	1,727	
URINE EXAMINATIONS:		8,650	
BLOOD EXAMINATIONS:		0.714	
Blood Counts Sedimentation Rate		2,714 1,505	
Blood Sugar		670	
MISCELLANEOUS:			
Pleural fluid		47	
Spinal fluid Gastric analysis		1,367	****
Culture		451	
Guinea pig inoculation		438	
Other		730	
TOTAL		3,041	
WAGGEDMAN DEDODER			
WASSERMAN REPORTS:			
Positive Negative	228	9 309	10 537
regative			
TOTAL	229	318	547
DENIEL D		and the second second	
DENTAL R		101	010
Number of patients Number of treatments	421 136	191 398	612 534
Number prophylactic treatments	118	14	132
Number of fillings	339	223	562
Number of extractions Number new dentures and repairs	223 54	142 19	365 73
			10
RADIOGRAPHS MADE: X-RAY DEPARTM			
Thorax	6,899	8,327	15,226
Spine Ribs	132	141	273 5
Sternum		3	3
Extremities Pelvis	86 39	101	187
Pelvis Sinuses	2	47 5	86 7
Skull	4	5	9
K.U.B.	11		11
F.P. Abdomen G.I. Series	6 9	15 15	21 24
G.B. Series		3	3
Barium Swallow		2	2
Barium enema Intravenous pyelogram	20	2 17	2 37
Retrograde pyelogram	10	8	18
Sinogram		16	16
Bronchogram Ordograph	2	34 53	36 53
Teeth	36	74	110
Shoulder	23		23
Sacro-iliac Stomach	8 2		8
Colon	2		22
Pregnancy	4		ĩ
Hips	7		7
Jaw Lumbar-sacrol	2	****	22
Oesophagus	ĩ		ĩ
Coccyx	6		6
Mastoid Tomograph	1 3		1 3
romographi			
and the second s	7,318	8,872	16,190
FLUOROSCOPIC EXAMINATIONS:	5 200	7 705	12.010
Gastro Intestinal Tract	5,308 9	7,735 15	13,043 24
Colon	2	15	24
	-		
	5,319	7,750	13,069
Films sent in for interpretation		7,750	13,069
Films sent in for interpretation Basal Metabolism Report Cardiograph	5,319		

.

#### CLASSIFICATION OF 570 DISCHARGED PATIENTS:

		Re	esider	ice						
		On Admission	days less	er days		o	n Dis	charg	ţe	
		On	31	Over 31 da	In.	A6.	A3.	A1.	Au.	D.
1.	For Diagnosis	73	48	25						
2.	Primary Tuberculosis	32	4	28	3	1	11	16	1	
3.	Reinfection type pulmonary tuberculosis clinical:					15			- 10	
	Minimal	47	4	43	8	3	17	16	3	
	Moderately advanced	49	7	42	8	3	25	10	1	2
	Far advanced	17	4	13	3	3	5		2	Ä
4.	Reinfection type pulomonary tuberculosis postive:			10			, i		-	
	Minimal	18		18	1	3	9	5		
	Moderately advanced	91	2	89	2	11	45	21	7	5
	Far advanced	115	2 6	109	22	12	42	29	5	25
	Miliary	9	2	7			4			5
5.	Tuberculosis pleurisy	24	23	21	1		12	9	2	
6.	Non-pulmonary tuberculosis:				-				-	
	Meningitis Genito uningry renal etc	8 19	4	15	****		1	1		6
	Genito-urinary, renal, etc. Addison's disease		4		4	1	4	9	1	
		1		1	1					****
	Devidentia	16 13		16	45		2	10		
	The design of 141			13	Э		2	6	-1110	
	Compared the	3		3	****		****	3		
	Deadland Mills	22		22			****	2		
	Cold abscess	2	****	2	****			1		1
		30	1	26					1	
	Bone	30	4	20	7	1	2	14	3	3
	Total active tuberculosis	497	45	452	49	38	181	152	26	51
	Total treated			477	42	36	178	144	16	36
	Total untreated		93		7	2	3	8	10	15
	Grand Total	570	93	477	49	38	181	152	26	51
			-	-	-		Contract.			Contraction of the

**Explanation of abbreviations and terms used:** The standard classification is that of the National Tuberculosis Association. Minimal, Moderately Advanced, and Far Advanced refer to anatomical extent of disease; In.—inactive; A6.—arrested 6 months; A3.—arrested 3 months; A1.—active improved; AU. active unimproved; D.—died.

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

## CLASSIFICATION ON ADMISSION OF 570 DISCHARGED PATIENTS:

	Central Alberta Sanatorium	Aberhart Memorial Sanatorium	Other	Total
For diagnosis	33	40		73
Primary tuberculosis	9	23		32 346
Pulmonary tuberculosis	148	191	7	346
Tuberculosis pleurisy	. 8	16		24
Non-pulmonary tuberculosis	44	50	1	95
Total	242	320	. 8	570
				and the second

# CLASSIFICATION ON DISCHARGE OF TREATED CASES OF ACTIVE TUBERCULOSIS AND TUBERCULOUS PLEURISY

On Administra		On Discharge				
On Admission: Minimal	Number 61	Improved 60	Unimproved	Died		
Moderately Advanced	131	120	5	6		
Far Advanced	122	94	7	21		
Primary Miliary	28 7	28	****			
Non-Pulmonary Tuberculosis Tuberculosis Pleurisy	82	74	2	6		
ruberculosis Fleurisy	21	20	1			
Total	452	400	16	36		

#### RESIDENCE OF DISCHARGED PATIENTS:

Central Alberta Sanatorium	Aberhart Memorial Sanatorium	Total
129	135	264
20	16	36
48	11 76	17
31	89	124 120
2 6	ĩ	27
242	328	570
	Alberta Sanatorium 129 20 6 48	Alberta Memorial Sanatorium Sanatorium 129 135 20 16 6 11 48 76 31 89 2

SEX OF DISCHARED PATIENTS:

Male	Central Alberta Sanatorium 120 122	Aberhart Memorial Sanatorium 169 159	Total 289 281
Total	242	328	570
	angala arrest as a		
AGE ON ADMISSION:			
From 1- 9 From 10-14	17	32	49
From 10-14 From 15-19	4 14	25 40	29 54
From 20-29	65	87	152
From 30-39 From 40-49	56 43	53 40	109
From 50-59	19	22	83 41
From 60-69	20	17	37
	4	12	16
Total	242	328	570
	-		
SOCIAL STATUS OF DISCHARGED PATIEN	TS:		
Single	80	166	246
Married Divorced	143	143	286
Widowed	4 8	15	5 23
Separated	7	3	10
Total	242	328	
	-12	328	570
RESIDENCE IN ALBERTA:			
Born in Alberta	01		
1 year or less	91 11	210 3	301 14
1- 5 years	38	28	66
6-9 years 10-14 years	13 10	9	22
15-19 years	10	8 2	18 12
20-30 years	28	29	57
30 years or more	41	39	80
Total	242	328	570
	-		
RACIAL ORIGIN:			
Austrian	1	7	8
Belgian Chinese	4	1 3	17
Danish	5	1	6
Dutch English	9	12	21
Esthonian	58 1	53 1	111 2
Finnish	4	ī	5
French	8 16	22	30
Greek	10	45	61 1
Hebrew	1		1
Hungarian Icelandic	5	2	53
Irish	23	35	58
Italian	15	1	2
Japanese Latvian	5	6	56
Metis	15	50	65
Norwegian Negro	10	6	16
Polish	12	2 9	2 21
Roumanian	1	1	2
Scottish	3 39	2 2	5 41
Swedish	3	7	10
Slovak	3	43	46
Ukrainian Weish	13	15 1	28 1
Total	242	328	570

#### DEPARTMENT OF PUBLIC HEALTH

# LENGTH OF STAY IN SANATORIUM OF 570 DISCHARGED PATIENTS

DEATHS:41115Number in Sanatorium under 31 days41115Number patient days39108147Average natient days9.79.89	1
Number patient days 39 108 147	
	8
Number in Sanatorium 31 or more days 11 25 36	
Number patient days 9,560 7,845 17,405	
Average number patients days	5
DISCHARGES:	
Number in Sanatorium under 31 days 32 46 78	
Number patient days 498 664 1,162	0
Average number patient days 15.6 14.4 14	9
Number in Sanatorium 31 or more days 195 246 441	
Number of patient days 69.245 66.992 136.237	~
Average number of patient days 355.1 272.3 308.	9
Total number deaths and discharges 242 328 570	
Total number patient days 79.342 75.609 154,951	~
Average number patient days	8
No. non-pulmonary admissions(individual) 43 51 94	
No. non-pulmonary patient days (calendar) 13,848 11,543 25,331	
Average patient days, non-pulmonary 322 137.4 192.	4

# 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, Red Deer. Rosehaven, Camrose.

The total patient population in the various Institutions of this Division, inclusive of Rosehaven, Camrose, on January the 1st, 1952, 3,645-(males 2,179, females 1,466). The total patient population in the Institutions, inclusive of Rosehaven, on December 31st, 1953, was 3,791—(males 2,226; females 1,565). This represents a total gain of patients of 146 (males 47; females 99). The Provincial Mental Hospital, Ponoka, admitted 694 patients-males 349; females 345). This was 40 more than the previous year. The Provincial Mental Institute, Edmonton, admitted 327 patients-(males 177; females 150). This was 45 more than the previous year. This was exclusive of patients remanded to the Institute from the Courts for observation. The Provincial Training School, Red Deer, admitted 65 children-(boys 23, girls 42). During the year there were 200 transfers among the various Institutions. A total of 92 patients -(males 65; females 27)—were transferred to Rosehaven. There were 193 Deaths—males 131; females 62) in all the Institutions combined. The commonest cause of death were those referable to the Circulatory and Respiratory Systems. There were three deaths from Pulmonary Tuberculosis. Pneumonia was the commonest Respiratory cause of death.

The Building Construction Programme for the Institutions continued during 1952. Two new Dormitories at the Training School at Red Deer neared completion at the end of the year. At the Provincial Mental Hospital, Ponoka, a Dormitory capable of housing 96 men patients was opened. The New Tuberculosis Unit at the Provincial Mental Institute, Edmonton, with a bed capacity of 196 was opened and all Tuberculous cases from all the other Institutions were transferred to this modern Unit. Work progressed on the new Administration Building and new Nurses' Residence at the Provincial Mental Institute, Edmonton, and an area was cleared for the new Reception Unit to be constructed during 1953. A small Unit for 34 men patients was opened at Rosehaven. Preparations were made for the construction of a new 100-bed Unit with a connecting tunnel to the Main Building at Rosehaven.

Extensive active treatment was given to all patients newly admitted to the Institutions, as will be apparent from the individual reports of these Institutions. Staff Training Programes were carried out as before in the Provincial Mental Hospital, Ponoka, the Provincial Mental Institute, Edmonton, and the Provincial Training School, Red Deer. Some 50 Staff members—(15 men; 35 women)—graduated in the various Courses.

The services of the Provincial Guidance Clinics were continued throughout the year. Clinics were held at some 50 to 60 key points in the Province. The Guidance Clinics Staffs participated in many Public Education activities such as Group Discussions, Institutes, Lectures, Talks and Radio Work.

Five meetings of the Eugenics Board were held during the year. All meetings were held at the Provincial Mental Hospital, Ponoka. A total of 58 cases was presented for the Board's consideration. Twenty-four operations—(male 6; female 18)—were performed during the year. The total number of cases operated upon to December 31st, 1952, was 1,323—(males 518; females 805). The operations were performed at the Provincial Mental Hospital, Ponoka, by the duly appointed Honorary Surgeons, assisted by the Medical Staff of the same Hospital.

TABULAT	ED SUMMA	RY-INSTITUTI	ONS-MOVEN	MENT OF PA	TIENTS
	nts in Hosp. n. 1, 1952	Admissions	Discharges	Deaths	Patients in Hosp. Dec. 31, 1952
Ponoka 919 Oliver 937 Red Deer 212 Claresholm Raymond	333 1270 183 395	M. F. T. 349 345 694 177 150 327 23 42 65 4 4 3 3	M. F. T. 228 230 458 116 108 244 10 17 27 1 1 3 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	M. F. T. 910 633 1543 948 394 1342 220 205 425 99 99 133 133
Totals 2068	1371 3438	549 544 1093	354 359 713	104 41 145	2078 1464 3542
Rosehaven 111	95 206	65 27 92 (By Transfer)	1 1	27 21 48	148 101 249
Total in- cluding Rose-	and all	anna Tana		- (boys 2	obietvation 65 children
haven 2179	1466 3645	614 571 1185	355 359 714	131 62 193	2226 1565 3791
70% of Dischar		d or Recovered;		arges Unchan	nged.

TRUTADE FUED	114	AND	001	OF	INSTITUTIONS	

Oliver Red Deer Claresholm Raymond		in in in	M. 7 35 65	F. 21 31 2 3 9 27	T. 28 66 2 3 9 92	*Transfers **Transfers Transfers Transfers Transfers Transfers	out out out	 M. 82 25	F. 79 4 1 3 6	T. 161 29 1 3 6	
	Transfers		107	93	200	Transfers		 107	93	200	

\*Includes Males 41, Females 23—Total 64—Transferred to Rosehaven. \*\*Includes Males 23, Females 4—Total 27—Transferred to Roseaven

## ANNUAL REPORT, 1952

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Disease	Tuberculosis of Respiratory System Syphilis and Sequelae Neoplasms Malignant Neoplasms Benign Vascular Diseases of Central Nervous	System Non Meningococcal Meningitis Arterioscierotic and Degenerative Heart	Dusease Influenza Preumoria Gastritis, Duodenitis, Enteritis	Congenital Malformations III-Defined All Other Diseases	MENTAL: Psychoneuroses and Personality Disorders Diseases Nervous System, Sense Organs	TOTALS

119. 336. 336. 226. 228. 33. 446.

TABULATED SUMMARY-INSTITUTIONS-DEATHS-1952

#### PROVINCIAL MENTAL HOSPITAL, PONOKA

#### T. C. MICHIE, M. D. Medical Superintendent

#### Patient Population Changes.

The resident population on January 1st, 1951 was one thousand, five hundred and thirty-nine (1,539). Of these, nine hundred and nineteen (191) were male, and six hundred and twenty (620) female. On December 31st, 1952, there were in residence, one thousand, five hundred and forty-three (1,543) paitients, of whom nine hundred and ten (910) were male, and six hundred and thirty-three (633) female. There was an overall increase of four (4) in the patient population. The details are as set forth in Table 1.

#### Admission of Patients.

Exclusive of transfers from other Provincial Mental Institutions, six hundred and ninety-four (694) patients were admitted, this being an increase of eighty-seven (87) over the previous year. Admissions were almost equally divided between the sexes, three hunded and forty-nine (349) being male, and three hundred and forty-five (345) female. Those admitted by voluntary application numbered eighty-seven (87), by Medical Certificates, one hundred and fortytwo (142), while four hundred and twelve (412) were by Warrant, and eleven (11) under "The Mental Defectives Act." Twenty-eight (28) patients were transferred to this Hospital from other Mental Institutions in the Provincial service. In the various diagnostic categories, the only significant relative increase were in the alcoholic and senile groups. There was a sharp increase in the number admitted by Warrant.

#### Separation of Patients.

The number discharged totalled five hundred and forty-two (542), of whom two hundred and sixty-nine (269) were men, and two hundred and seventy-three (273) women. This was an increase of one hunded and eight (108) as compared with 1951. Ninety-seven (97) patients were transferred to other Provincial Mental Institutions. Of the latter, sixty-four (64) were patients with pulmonary Tuberculosis, who were admitted to the new unit for tuberculous patients at the Provincial Mental Institute, Edmonton. Seventy-five (75) patients died, most of whom were in the advanced age group.

#### Accidents and Elopements.

Thirty-five (35) patients suffered from fractures, twelve (12) being men, and twenty-three (23) women.

There were no suicidal deaths.

A relatively small number left the Hospital without permission, and most of these were returned by the Royal Canadian Mounted Police, or the Staff of the Hospital, within a very short time.

#### General Health.

There were no epidemics, and the health of the patients in general was good. The problem of Tuberculosis control in the Hospital was considerably eased, with the transfer of all patients with Pulmonary Tuberculosis to the Provincial Mental Institute. The wards vacated as a result of this transfer were renovated and occupied by old and debilitated patients.

#### Clinical Work.

Treatment precedures were in keeping with accepted standards, and made available to all patients. A Pathologist was added to the Staff, and this resulted in improved diagnostic services. Shock treatments were used extensively, with good results. A selected number of patients had lobotomy operations. Major surgical procedures were carried out by Visiting Surgeons. It was possible to devote more time to individual patients, due to the increase in Medical Staff.

#### Occupational Therapy

This form of treatment was utilized with practically all new patients, and with rotating groups comprising those in prolonged residence. For the most part, this was done in organized classes at which over one hundred (100) regularly attended. The Library and Canteen gave excellent service.

#### Recreational Therapy and Physical Training.

In some form or other, practically every patient derived some advantage from organized recreational activities. The program was extremely varied, and in keeping with the needs of the particular groups.

#### Religious Services.

Services were conducted regularly by Visiting Clergymen. Deep appreciation was shown by the patients. The very harmonious relationship between the Clergymen and the Staff was maintained.

#### Social Service.

The services of one Worker were utilized to the fullest extent. Her duties alternated between contacts with the patients and relatives at the Hospital, and visits to the homes. Many visits were made to discharged patients. On occasion, prospective patients were interviewed by her, and as a result, a decision reached that the persons could be adequately cared for at home. In other instances, such visits resulted in the prompt acceptance of the individuals at the Hospital. It is felt this service has firmly established its value.

#### Dental Services.

All new patients were examined, and treated when necessary. A regular program of examination and treatment was carried out with patients on continued care. The Dentist made the regular annual visit to Claresholm and Raymond. A method of positive identification for artificial dentures was developed, probably unique in dental practice.

#### X-Ray Services.

This Department operated smoothly and gave excellent service. The chests of all new patients were rayed, and following a set program, all other patients and staff were rayed at stated periods. The majority of chest plates were in miniature. The use of miniatures has greatly eased the problem of storage. All chest plates were referred to The Central Alberta Sanatorium, Calgary for reading, and the utmost cooperation was accorded this Hospital by the Medical Staff of that Institution. The X-ray Department also assisted in routine diagnostic work.

#### Laboratory Services.

During the early part of the year, a Technician conducted the laboratory services, but in July, a well qualified Pathologist was appointed, and increased facilities were made available.

#### School of Nurses.

The teaching program was essentially unchanged. There were three qualified Instructors, and they received assistance from the Professional Personnel of the Hospital. Instruction was given to twenty-one (21) Students in the four year course in General and Psychiatric Nursing, and to thirty-two (32) Male Attendants in the three year Psychiatric Course. In addition, thirty-two (32) affiliating Student Nurses from The Archer Memorial, Galt, and Medicine Hat General Hospital received instruction. Twelve (12) Nurses completed the four year course in General and Psychiatric Nursing, and two (2) men graduated in Psychiatric Nursing. Twelve (12) Registered Nurses received their Diplomas in Psychiatric Nursing, and three (3) others were enrolled in the fall class. Ward Aides were given a short indoctrination course, suitable to the needs of the patients. Public Health Nursing Students from the University of Alberta also spent short periods at the Hospital receiving instruction.

#### Visitors.

The number of relatives and friends who visited patients showed a steady increase. Visiting hours were maintained morning and afternoon each day. There were many distinguished visitors. The Hon. Dr. W. W. Cross, Minister of Health, visited on a number of occasions. Prior to his retirement, Dr. M. R. Bow was a regular visitor. Dr. A. Somerville, who succeeded Dr. M. R. Bow as Deputy Minister of Health, made several official calls. Dr. Randall R. MacLean, Director of The Division of Mental Health inspected the Hospital on many occasions.

The Visiting Board carried out the annual inspection. This was done with thoroughness. Patients and Staff were questioned, and given every opportunity to express their views. On occasions, the Board may have been critical, but it was obvious the underlying spirit was to promote the welfare of the patients, and ensure the harmonious operation of the Hospital.

#### The Eugenics Board.

Five meetings were held by The Eugenics Board at this Hospital during the year. Fifty (50) patients were presented, of whom eighteen (18) were male, and thirty-two (32) female. In addition to the above, a number of cases from The Provincial Training School were presented to the Board at the Ponoka Meetings. Twenty-four (24) operations for sexual sterilization were performed, of whom six (6) were on male, and eighteen (18) on female patients.

# Maintenance Department and Fire Protection.

All buildings were kept in a good state of repair. A great deal of interior painting was done. There were many favourable comments from patients and visitors regarding the general appearance of the Hospital.

The Fire Brigade held regular practices and demonstrated a high degree of efficiency. No fires occurred, but the alertness of fire danger was due in no small manner to the excellent example shown by the Voluntary Members of the Brigade. A new Fire Hall was constructed and placed in service. Fire fighting equipment was well maintained.

# New Buildings and Improvements.

A new Male Dormitory providing accommodation for ninety-six (96) patients, was opened on November 15th, 1952. The construction of a second and similar building was commenced.

A new elevator was installed and placed in operation in the women's continued treatment building.

#### Business Office.

This Department operated smoothly and with efficiency. The Business Superintendent assumed direct responsibility for the supervision of the Farm and ancillary services. The collection of maintenance accounts showed an increase of approximately ten per cent.

# P. M. H. Farm and Gardens.

The grain, hay, vegetable and root crops gave excellent returns, but the potato yield was rather poor. The yield from poultry was excellent, but only fair from the dairy herd. Certain changes were effected in the Farm program which should give good results.

## Ancillary Services.

The various services including the Cannery, Laundry, Linen Room, Print Shop, Sewing Room, Shoe Shop and Tailor Shop all continued to effectively serve the needs of the Hospital.

# The Department of Public Works.

Under the direction of the Chief Engineer, the needs of the Hospital regarding heat, sewage, and water supply were adequately met. The electrical equipment was well maintained. The utmost cooperation was shown by the Staff of this Department. This was an important factor in the effecient operation of the Hospital.

#### Conclusion.

The operation of the Hospital during the year was satisfactory. There was a high admission rate, but the discharge rate was maintained at a very satisfactory level. It was therefore felt justifiable to consider the treatment program successful. There were no untoward incidences of significance. The Staff were conscientious in the care of patients, and loyal to the Hospital administration. Those responsible for administration were grateful for this, and also for the support and guidance given by the officers of The Department of Public Health.

# PROVINCIAL AUXILIARY MENTAL HOSPITAL CLARESHOLM

#### Movement of Patients.

There were 100 patients in residence on January 1st, 1952 and 99 patients in residence on December 31st, 1952.

There were four admissions during the year—one voluntary admission and three under The Mental Defectives' Act.

One patient was discharged as unimproved. There were three patients transferred to the Provincial Mental Hospital, Ponoka, for special medical and psychiatric attention.

There were three deaths during the year due to cardio-vascular diseases.

#### Accidents and Elopements.

There were no elopements during the year and no accidents of a serious nature.

#### General Health.

On the whole the general health of the patients was very good. When necessary, X-ray and laboratory tests are done at the Claresholm Municipal Hospital. Patients and staff received their annual Typhoid vaccine.

#### Occupational Department.

A successful sale of work was held in November. The work was displayed the day before the sale and many local residents visited the display and commented favorably on the work.

The patients continue to enjoy this form of endeavour.

During the winter months the Assistant Matron has conducted an extra occupational class in the day room for the more deteriorated patients and with the exception of one or two, all the patients are now attempting to knit or crochet.

A group of fifteen or twenty patients are taken out in the garden during the summer months under the supervision of a ward aide, and they enjoy getting out every day.

## **Recreational Activities.**

The usual parties were held for the patients, sports day, bingo parties and dances were enjoyed. The Christmas party for the ladies was greatly enjoyed and an effort is always made to give the patients some special little gift that they have expressed a wish for.

The United Church Choir visited the hospital at Christmas and Easter and their music was greatly enjoyed.

Twice a month the patients go down to the local theatre to see current shows.

Over fifty patients go for walks and another twenty-five or thirty go out on parole around the grounds every day the weather permits during the winter months.

In the summer months all the patients are taken out on the lawn with the exception of one elderly lady.

Magazines are bought from the Federal Health Grant fund and books are added to the library from the patients recreational fund.

#### Beauty Parlor.

Shampoos and finger waves are done regularly each week in the Beauty Parlor.

#### Religious Services.

The local clergymen conduct services each Sunday afternoon, and one of the patients plays the piano for these services. Catholic services are held once a month.

Bibles were obtained from the Gideon Society for those patients who wished to have their own Bibles.

#### Dentistry.

All the patients with teeth were examined and given the necessary dental care by Dr. Palmer from the Provincial Mental Hospital, Ponoka in August. Any necessary dental work at other times is done by the local dentists.

#### Fire Protection.

The fire inspector has visted the hospital twice during the year. Fire practices are held and the equipment checked regularly.

#### Buildings.

The maintenance staff have kept the buildings in good repair and the necessary re-decorating has been done.

## Gardens and Grounds.

Street lights were installed on the grounds and are appreciated by everyone.

The vegetable crop was excellent and there was a surplus of vegetables. Some of these were sold locally.

#### Visitors.

The hospital has been visited by Dr. R. R. MacLean, Director, Division of Mental Health, and his help and advice are greatly appreciated.

The Eugenics Board acting as a visiting board made rounds of the hospital and grounds.

Relatives and friends visited the patients during the year.

#### PROVINCIAL AUXILIARY MENTAL HOSPITAL, RAYMOND

#### Movement of Patients.

On January 1st, 1952 there were one hundred and thirty-five patients in residence. There were nine transfers received from other hospitals and three new admissions. Departures were five deaths, six transfers to other hospitals, and three discharges, leaving in residence December 31st, 1952, one hundred and thirty-three patients.

#### Accidents and Elopements.

There were no elopements. There were two accidents to patients, one sustaining a broken Humerus and the other sustaining a broken Humerus and Pelvis.

#### General Health.

Major surgery was necessary to remove an abdominal tumor in one patient. Minor surgery performed on two other patients, tonsillectomy in one and varicose veins stripped from both legs of the other. Influenza was rampant and caused three of the five deaths.

#### Occupational Therapy.

There is a separate Occupational Parlor for all needlecraft. Other forms of occupation are found on the wards and in the garden and grounds.

#### Library.

Books are added to the patient's library monthly and several monthly magazine subscribed to.

A staff library is maintained and monthly medical magazines subscribed to.

#### Religious Services.

Are held once monthly and Clergymen preside at patients' funerals.

#### Recreation and Entertainment.

Patients are entertained by a picture shown twice monthly. Special holidays are celebrated with a concert, a dance or party. Picinics are held on the lawns in the summer. Wards are equipped with a piano and radio.

#### Staff Changes.

Three Ward Aides were added to the staff due to the 44 hour week.

#### Visitors.

The hospital has been inspected by members of Public Helath, Public Works, Fire Department, Electrical and Boiler Departments. The Eugenics Board made their annual visit. The livestock and gardens were also inspected by the Department of Agriculture.

## Garden and Grounds.

Vegetable crop raised was ample for our winter needs. The grounds were badly torn up by the installation of a new water line and by the waterproofing of the foundation of the main building.

#### Conclusion.

The hospital capacity has been maintained throughout the year and the general health of patients has been satisfactory.

#### PROVINCIAL MENTAL INSTITUTE, EDMONTON

A. D. MACPHERSON, M. D., Medical Superintendent

#### Patient Population Changes.

On December 31st, 1952 there were in residence 948 men, and 394 women. On leave were 39 men and 17 women. The total patient population at the end of the year was 987 men and 411 women. This gives a grand total of 1,398. This is a gain of 87 over the previous year.

During the year there were 393 admissions. In addition, a total of 111 cases were remanded by the authorities for observation and examination. 2 juveniles were admitted through the Department of Child Welfare and the Juvenile Offenders Branch. This gives a total of 506 admissions for the year.

There were 252 discharges, and only one transfer. There were 53 deaths. (40 autopsies.)

#### General Health.

This has been good. There were no serious epidemics. Several cases of measles developed during the Fall. T.A.B. immunization was carried out on all new admissions, and new staff, and 'booster' doses were given when required.

Routine chest x-rays were done on all new admissions. An annual check was done on all patients in residence.

#### Accidents.

There were no accidental deaths, and no serious injuries.

#### Treatment of Patients.

Electro Shock Therapy was given to 295 patients, and insulin to 158 patients. Combined electro shock and insulin were given where required. Hydrotherapy was used extensively. A considerable number of periodic supportive treatments were given as well. Sessions in group therapy were instituted, and have been found to be of great value.

Occupational Therapy: This department has remained very active and its activities have been expanded, to include work on the wards of the T.B. Pavilion and on various female wards. The average daily attendance was around 100. Special attention was paid to new patients and those receiving insulin and shock treatments.

Social Work Services: During the past year we have been fortunate in having the services of a full-time social worker. This has been of great assistance not only in investigation, but in the placing of discharged patients, and also in the field of public relations.

Recreational Activities: This service has remained very active. A full-time daily schedule was kept up. Activites included not only athletic events, but social events and movies. The D.V.A. has continued to provide us with one dance per month, and a number of stage shows. Unfortunately, they were forced to eliminate the weekly moving picture shows. We have been able to send groups of patients into the hockey, football and baseball games and wrestling shows. *Library*: More books were added during the year. The library is in full use at all times.

Beauty Parlor: This is operated on a full-time basis, and the services have been extended.

Religious Services: The United and Anglican churches have provided services on alternate Sundays. The Rev. Mr. Appelt of the Lutheran Church held services once a month. Roman Catholic services were held once a month. Jewish organizations visited the hospital monthly. Ukrainian and Lutheran women's organizations showed considerable interest in the work of the hospital.

X-ray Department: A total of 2,980 examinations were made during the year. This is an increase of 50% over the previous year. In addition, this department looked after the short-wave diathermy treatment.

*Electroencephalograph*: A total of 172 E.E.G., s were done, and 77 E.C.G.'s. Mr. Williamson, the technician, also worked a considerable part of the time at the Provincial Mental Hospital, Ponoka.

Laboratory: A total of 7,196 examinations were made during the last year. This is an increase of 40% over the previous year.

Surgical Service: With the opening of our own operating room, less work was referred to the University Hospital. Several of the more difficult cases were transferred to the University Hospital. There was a fair amount of minor surgical and fracture work done by our own staff. There was nothing of unusual interest in this surgical field during the year.

Dental Department: A total of 2,772 treatments were carried out during the year. All types of dental work were done. All patients in the hospital were examined during the year, and treatment, where necessary, was carried out. Clinics were held here for dental students, and Dr. Scott also carried out dental work at Rosehaven.

#### Training School.

A total of ten women and six men graduated in psychiatric nursing, completing the three-year course. There were also 137 students in the various years of the three-year course. Clinics and demonstrations were given to the graduating classes from all the City Hospitals during the year.

#### Department of Building Maintenance.

Maintenance work has been kept up very well during the year. The T. B. dormintory was completed and opened on the first of July. Transfer of patients from the Provincial Mental Hospital, at Ponoka, and the Provincial Training School at Red Deer was completed by the end of August.

Construction of a new administration building was commenced, and it is well on the way to being completed.

#### Fire Protection.

Fire practices were held at regular intervals. Inspections were carried out by the Fire Marshal's Branch.

#### Farm.

The rebuilding of the dairy herd has been practically completed, and at the present time the herd is supplying most of the milk required. The crop was very good, and was completely harvested before winter.

#### Garden.

The vegetable crop was very good and kept well. Our own garden supplied most of the vegetables needed during the winter.

#### Laundry.

Extensive alterations were made to the building, and new equipment has been added. This department has been very busy.

#### Tailor Shop.

Extensive alterations were made to the building space, and new equipment has been added. The work of the department was very well done.

#### Shoe Shop.

This has remained very active and efficient.

#### Sewing Room.

This department has been very busy and efficient.

#### Dietary Department.

This department has continued to operate at its usual high efficiency. We were fortunate in that Miss McKenzie was able to be with us for the whole of the year. Considerably more equipment was added to the kitchen, and improvements in the internal arrangement of the kitchen were carried out.

#### Police Court.

We continued to act in a consulting capacity for both the City Police and the R.C.M.P., and liaison with both police forces has remained excellent. It has been a considerable help to us, and we think to them.

#### Business Office.

This office has continued to function in its usual efficient manner. The staff situation has been good.

#### Medical Records.

The work here increases each year. The quality of the work done is excellent.

#### Staff.

The staff situation on the male side has remained reasonably good. We were able to keep up to our establishment during most of the year. On the female side there was some difficulty in maintaining the establishment. All new staff are required to take the three-year course, unless previously qualified.

The medical staff have remained more stationary than usual. There were no changes during the year.

#### Visitors.

During the year we were visited at regular intervals by Dr. Cross and Dr. MacLean. These visits were always enjoyable, and their advice and opinions were much appreciated. The visting board carried out its annual inspection in its usually thorough manner. Various problems were discussed with the visiting board at other times throughout the year, and they have always been very helpful to us.

# PROVINICAL TRAINING SCHOOL, RED DEER

# L. J. LE VANN, M.D., Medical Superintendent

# In Residence, Admissions, Discharges, Deaths.

The total population increased from 395 to 425 during the year. 67 certified defective children were admitted, which included 23 male and 44 female. 54 of these were first admissions, 12 were readmissions, and two were transferred from the Provincial Mental Hospital, Ponoka. During the year there were 27 discharges, principally via job placements, and one was transferred to the Provincial Mental Hospital.

The death rate has fallen both actually and proportionately. There were 9 deaths, 5 male and 4 female.

## Applications for Admission.

There were fewer applications this year than last year, a total of 74 applications were received. The majority of these have tended to be of the long term custodial type of patient. The waiting list of children requiring admission now numbers 407. This represents an actual decrease of 36 applications. With the near completion of two new dormitories it will be possible to further reduce this waiting list by 152 potential admissions.

# Eugenics Board Visits, Sterilizations etc.

There were no cases presented to the Eugenics Board at this School during the year, but seven cases were presented at the Provincial Mental Hospital and were passed clear by the Board for Eugenics operation. During the year six sterilization operations were carried out, 4 on females and 2 on males.

## Staff Changes and Activities.

Dr. L. J. le Vann returned to resume his previous office of Medical Superintendent at this School in October, and Mr. A. W. Fraser was appointed Deputy Superintendent.

On 1st, October 1952, Mr. A. P. Martin was appointed Social Worker to replace Mr. G. E. Trasov, who resigned to accept work at the Bowden Institute.

The staff situation has been very good, and there has been no difficulty in filling required personnel appointments.

#### Health of Trainees and Staff.

The overall health picture at the School has been fairly good. Towards the end of the year there was a sporadic outbreak of Scarlet Fever which was effectively checked by means of mass immunization of all trainess and staff with penicillin. However, there has been an outbreak of Infectious Hepatitis which it has not been possible to control as effectively, despite rigorous quarantine measures, and both patients and staff have been affected by this complaint. The situation is at present under study in an effort to determine the source, and the possible prophylactic measures which might be employed to localize this disease.

As a routine precedure all new staff members and all new patients have chest X-rays immediately upon employment and admission respectively, to minmize any spread of Pulmonary Tuberculosis at this School and to ensure its early detection.

#### Dental Care.

The dental care is at present under the direction of Dr. Gordon Travis, who continues to make regular dental inspections and carries out both prophylactic and therapeutic work when required.

#### Training Programme For Nurses and Attendants.

It has now been possible to include amongst the nursing and attendant staff only those who agree to take the three-year course for the Certificate in Mental Deficiency. However, in view of the turnover of staff, especially during the first year of study, the training programme has been reoriented to place greater emphasis on those courses which are of a practical nature, reserving the more advanced and theoretical courses to the 2nd and 3rd year of study. There has been a tendency for the 2nd and 3rd year students to increase in number and at present there are 13 enrolled in the 3rd year course, an increase of 6 over last year.

As a matter of policy it was decided that all courses should be given by personnel at the School rather than extramural lecturers, since in this way greater stress can be placed on the relationship of the various subjects to the actual trainee at the School.

#### Training Programme For Trainees.

There is little doubt that the training programme for Trainees is showing good results. The children are undoubtedly better behaved, and there is less need for disciplinary measures than has been noted in previous years. As a result of this training, and the acquired reputation of the trainees, there is a far greater demand for trainees, trained at this School, for outside help—to a point where the actual requests for trainee help in the community exceeds the available trainees.

Academic Training and Sense Training: There was little change from last year. The curricula followed have shown good results.

*Recreation*: In the main the Recreational programme has followed the course planned during the past two years. This programme now services the majority of the trainee population. The acquisition of a third Recreational Instructor in the near future, will ease the work of the two present Instructors and the programme will be still further amplified.

Occupational Therapy: This department has done very well in all its classes—widening their scope as much as possible, and holding a very successful sale of the work done by the trainees during the year.

*Farm Instruction*: The instruction and supervision of the farm boys has continued at a good level, and their general behaviour has been very good. The outside demand for the boys services during the summer months exceeded the supply.

*Pre-Vocational Training*: The various wards and work departments are continuing to provide trainees with work experience and develop in them proper work habits.

*Guidance*: Guidance interviews were carried out with those trainees who had personal worries, and with those who presented behavioural difficulties. It is felt that there has been a general improvement in the conduct of the trainees.

#### Social Work Services.

The appointment of a Social Worker continues to be of great benefit to this School. In addition to his regular duties of securing and supervising outside employment of trainees, he assists with trainee discipline and behavior problems. In addition he has numerous interviews with trainees, parents, and employers, and constant telephone contacts with them.

#### Extra School Activity.

The work at the Guidance Clinic in Red Deer and Rocky Mountain House had perforce to be severely curtailed due to the absence of a complete psychiatric team. However, in November Red Deer and Rocky Mountain House were again recommenced, and both these Clinics are showing considerable activity, the Clinic at Red Deer being booked up nearly two weeks in advance. One patient was referred for Electric Convulsant Therapy which was carried out with complete recovery.

The members of the Training School staff participate whenever requested, giving talks of Mental Health and Psychiatric nature, thereby further augmenting community acceptance of the School.

Several community clubs have shown great interest in the progress and welfare of the trainees at this School, and have started taking the children out weekly to their homes, to church and other outings, and in several instances have provided some children without fathers or mothers with many birthday gifts and Christmas gifts.

#### New Construction.

Two new wards should be ready for occupancy early in 1953 and a third ward is well advanced in construction and may possibly be ready by the end of 1953.

A house for the Medical Superintendent was also begun during this year and is in an advanced stage towards completion.

A new Greenhouse was completed this year and should be a great help towards landscaping and providing the wards with flowers.

#### Farm and Garden Produce.

This year produced bumper crops from the farm and there was a total of over 300 tons of vegetables produced which should furnish a considerable amplitude in the vegetable diet of trainees and staff. The Dairy situation continues to improve. The herd is being replaced with pure-bred Holstein cattle, and a pure-bred Holstein bull was also purchased. Milk production is at a high level, although the butter fat content is not as high as would be desired.

#### Laundry and Sewing Room.

Both these departments are working to their maximum capacity, and with the increase of patients anticipated it may well be that additional equipment will be required for them as well as extension of the Sewing Room for the coming year.

#### Kitchen and Dining Room.

These two departments continue to function well, and the staff and trainees are receiving good and nourishing meals.

#### ROSEHAVEN, CAMROSE

#### Movement of Residents.

On January 1st, 1952, the resident population numbered 206, of which 111 were men and 95 women. The total number in residence on December 31st, 1952 was 249; 148 men, 101 women.

Admissions during the year numbered 105, 92 from various Provincial Institutions and 13 returned from Leave of Absence.

Discharges numbered 62 during the year, 48 attributable to death and 14 to leave of absence.

One resident remained on leave at December 31st, 1952. Five residents on leave from previous years remained on leave.

Admissions were sent from mental hospitals when beds were available. The number was increased this year due to the opening of a 34-bed unit.

Deaths were due to degenerative causes.

#### Accidents and Elopements.

During the year a number of residents had accidents caused by falls or as a result of interference from other residents. There were twenty accidents requiring special attention, of these eleven were fractures, three lacerations and five severe contusions. There were numerous accidents causing small abrasions and contusions requiring only minor attention.

Nine residents left the grounds without permission but in only two cases was police assistance required to locate the resident, in other cases the resident was returned by staff members.

#### General Health.

The general health of the residents has been fairly good considering the age group. There is, however, a noticeable progressive mental and physical decline in the majority of residents.

An average of 28 residents required bed care in a month, each averaging 14½ days in bed. Twenty-two required hospital care at a general hospital either for diagnostic purposes or for surgery. Outpatient work done for residents included 24 x-rays, 1 electrocardiograph, 1 cast application and 78 laboratory tests.

Medical attention was supplied by a local clinic.

Dental examination and necessary dental care was given twice in the year by the dentist from another mental hospital.

#### Occupational Therapy.

There have been no organized occupational classes held, but individual residents are encouraged to do handwork.

A group of 10-20 men assist with garden work and on the grounds.

Some twenty-five residents assist in various departments and with light housekeeping duties.

#### Religious Services.

Weekly services are arranged by the Ministerial Association.

#### Recreation.

Several parties have been arranged for all the residents. Smaller group parties were held to include special birthday groups. Movies were shown on two occasions and a local choral group entertained once or twice.

Walking parties and lawn groups were taken out when weather permitted.

#### Staff.

There has been no serious shortage of staff during the year. There was an increase in the number of staff owing to the establishment of the 44-hour week and the addition of the new unit. Eight staff members resigned and suitable replacements were procured.

Health of the staff has been satisfactory.

#### Visitors.

The Minister of Public Health and Deputy Minister of Health visited during the year.

Visists were made periodically throughout the year by the Director, Mental Health Division.

The Eugenics Board as a visting committee made their annual visit.

# Provincial Guidance Clinics

The Provincial Guidance Clinics functioned in the regular manner througout 1952. The Clinic Centres visited corresponded with those of the previous year. The over-all number of new cases for the year showed an increase. A Clinic team from the Provinical Mental Hospital, Ponoka, held Clinics not only in Ponoka, but in Rimbey, Stettler and Castor. Members of the Staff of the Provincial Training School at Red Deer operated the Guidance Clinic in that City.

A considerable number of talks, addresses and group discussion were participated in by members of all the various Clinic Staffs. A very large majority of the new cases examined in the Clinics as a whole were between the ages of zero to 19, indicating that cases are being referred at an early age. This would seem to be a hopeful sign since the aim of the Guidance Clinic work is chiefly preventive.

# EDMONTON AND DISTRICT GUIDANCE CLINICS (Northern Zone)

A total of 744 new cases and 230 re-registered cases were seen for the zone. The work load was 5,711. The number of cases carried in treatment in the Clinic has been substantially increased. Most of these have come from the Greater Edmonton area and the results of treatment have been gratifying. Of the new cases, 81.5% were in the age group of 5 to 19 years; 40.8% of the new cases were referred from schools; 15.8% from private physicians; 28.6% from community agencies. The percentage of those seeking assistance of the Clinic voluntarily was 13.2 and the remainder was from other sources. There were 173 periods of educational activity in the community by members of the Clinic staff.

# City of Edmonton.

New cases examined at the City of Edmonton amounted to 411, and 168 cases were re-registered. The work load was 4,311. The increase is accounted for by additional treatment done in the Clinic.

#### Barrhead-Westlock.

No Clinics were held at Westlock during this year. At Barrhead, 20 new cases were seen; re-registered, 4; and the work load was 77.

#### Camrose-Wetaskiwin.

No Clinics were held at Camrose. At Wetaskiwin, 29 new cases were seen; 3 re-registered; work load, 109.

#### Holden-Wainwright.

The total for the two Clinics: 20 new cases; 7 re-registered cases; total work load, 95.

#### Vegreville-Vermilion.

Total for the two clinics; 62 new cases; 11 re-registered cases; total work load, 252.

#### Peace River-Grande Prairie.

A total of 141 new cases were seen; 23 re-registered cases; total work load was 611. The Clinic made two trips of two weeks' duration, one in the spring and one in the fall.

#### Athabasca-Lac La Biche.

Total for both Clinics; new cases, 21; re-registered, 4; work load, 93.

# Bonnyville-Smoky Lake-St. Paul.

Total for the tree points: new cases, 40; re-registered, 10; work load, 163.

# PONOKA AND RED DEER DISTRICT GUIDANCE CLINICS (Central Zone)

The Clinics in this district were serviced by members of the staff of the Provincial Mental Hospital, as in previous years. Clinics were generally held bi-monthly, as scheduled, at Ponoka, Rimbey, Stettler and Castor. A total of 45 new and 18 re-registered cases were seen, with a work load of 221. This is a slight increase from 1951. Of the new cases, 73% were referred by school authorities; 16% by private doctors; 4% attended voluntarily; 2% were referred by community agencies and the rest were from other sources. The referring agencies have generally been very cooperative with the Clinic staff and have greatly facilitated the work of the Clinic.

#### Red Deer.

Some 57 half-day Clinic sessions were held. The number of patient and collateral interviews amounted to 209.

#### Rocky Mountain House.

There were three Clinics held at this Centure. The number of patient and collateral interviews given was 28.

#### Ponoka-Rimbey.

Three Clinics were held at Rimbey and one in the Town of Ponoka. In addition, several clinic cases were seen at the Provinical Mental Hospital by various members of the Hospital staff. A total of 25 new and five re-registered cases were seen, with a work load of 118.

#### Castor.

Three Clinics were held at Castor. There were 11 new and one re-registered cases seen, with a total work load of 43.

#### Stettler.

Four Clinics were held at Stettler. There were 9 new and 12 re-registered cases seen, with a total work load of 60. This is a slight decrease from 1951, which has probably been caused by the lack of a doctor at the Stettler Health Unit.

# CALGARY AND DISTRICT GUIDANCE CLINICS

# (Southern Zone)

One additional Clinic point was opened during the year at Cardston. Two Clinics were held, one in May and one in October, both of which were well patronized. The total number of new cases examined during the year was 45, made up of 259 male and 191 female cases. In addition, 229 cases previously examined were seen again for further advice or treatment. The work load for the year was 3,322, including 547 psychological examinations. This is a considerable increase over the work done in 1951, there being 48 more new cases and 57 more re-registered cases. In 1952 some 17% of the cases were referred by private physicians, 52% by school authorities, 13% by other community agencies, 12% attended voluntarily and 6% were from other sources.

#### City of Calgary.

Calgary is the headquarters for the Southern Zone. During the year 242 new cases were seen at this Clinic centre. The total work load for the year was 2,222, including a considerable number of psychotherapy periods. The administrative work for the Zone is done at Calgary, which cuts down somewhat on the actual amount of time available for the handling of new work.

#### Lethbridge.

Nine trips to Lethbridge were made during 1952. On each of the trips to this centre the Clinic spend two days, one dealing with school cases and one with general cases. During the year 71 new cases and 19 re-registered cases were seen, with a total work load of 341.

#### Medicine Hat-Brooks.

Medicine Hat was visited nine times during 1952 for two days on all but one occasion. Brooks was visited three times. Of the cases seen there were 79 new ones and 39 re-registered cases. The work load for the two centres was 418.

#### Claresholm-High River.

Both Claresholm and High River were visited four times during the year. There were 27 new cases and 12 re-registered cases, with a total work load of 150.

#### Pincher Creek-Crow's Nest Pass.

No Clinics were held in the Crow's Nest Pass during 1952 as these were discountined late in 1951. Pincher Creek was visited twice when four cases were seen.

# Didsbury.

Due to the changes in the Health Unit set-up some Clinics scheduled for Didsbury have been held at other approved points within the Health Unit. Five Clinics were held with a total of 14 new cases and 13 re-registered cases being seen.

#### Drumheller.

Only two Clinics were held at Drumheller in 1952, as was the case in 1951.

#### Cardston.

The Clinic was instituted in this centre at the request of local authorities. Two Clinics were held, at which 11 new cases and four cases previously seen in other Clinics were seen. The total work load was 60. The first Clinic was held in the local doctor's quarters and the second Clinic in the Court House Building. A very definite interest in the Clinic was shown by the people in the district.

#### TABLE 1

#### SUMMARY OF NEW AND RE-REGISTERED CASES EXAMINED, TREATMENT PERIOD, INTERVIEWS, PSYCHOLOGICAL EVAMINATIONS, AND TOTAL WORK LOAD OF CLINICS

Clinic Districts	Ne	w Ca	ises		regi Cas	ster	D	istributi	on of Wo	ork	Total Work
	M.	F.	Т.	M.	F.	т.	Pat.	Col.	Gen.	P.E.	Load
Edmonton and District Calgary	450	294	744	130	100	230	1709	2116	1045	841	5711
and District	259	191	450	143	86	299	1018	1377	380	547	3322
Ponoka and Red Deer District	55	40	95	29	24	53	226	162	28	92	508
Totals	764	525	1289	302	210	512	2953	3655	1453	1480	9541

NOTES:

Total new cases examined since the Clinics opened in 1929 is now 13,110.

Edmonton and District includes all the area served from Wetaskiwin north. This is the Northern Zone. It includes Clinics held in the Peace River-Grande Prairie area, and 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. This is the Southern Zone. It includes Clinics held at such points as Brooks, Cardston. Claresholm, 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. This is the Central Zone. It includes Clinics at such points as Castor, Ponoka, Stettler, Rimbey, Red Deer and Rocky Mountain House.

Re-registered cases are those that have been examined previously at a Clinic, and seen again for further consultation or treatment.

Pat.-Patient contacts including treatment periods.

Col.—Collateral, or contacts with a patient's parents, or relatives, or with others closely interested.

Gen.—General contacts regarding Clinic activities and work, including those with other Agencies and Community Services.

P.E.-Psychological examinations and tests.

Total Work Load—This includes patient interviews and treatment periods, interviews with parents and relatives, interviews with other Agencies concerning patients or Clinic work ,and psychological examinations, by Clinic Staff members. It includes as well talks, addresses, and teaching periods by Staff members.

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# The Eugenics Board

#### J. M. MAC EACHRAN, M.A., Ph.D., Chairman

The Eugenics Board for the Province of Alberta held five meetings during the year of 1952. All of these meetings were held at the Provincial Mental Hospital, Ponoka. The dates of the meetings held during 1952 are as follows:

8 February, 1952—The Provincial Mental Hospital, Ponoka.

4 April, 1952-The Provincial Mental Hospital, Ponoka.

27 June, 1952—The Provincial Mental Hospital, Ponoka.

5 September, 1952—The Provincial Mental Hospital, Ponoka.

21 November, 1952—The Provincial Mental Hospital, Ponoka.

#### Cases Presented.

The Board considered 57 cases. There were 21 male and 36 female cases, the majority of which were passed subject to the consent of the patient or parent or guardian, or to both patient and parent or guardian.

Of the 57 cases passed by the Board during the year, 17 had been first examined at a Provincial Guidance Clinic, although some of these had been institutionalized before presentation. This group of 17 cases was made up of 5 males and 12 females.

#### Operations.

Operations were performed on 24 cases during the year, 6 being male and 18 female. All of these operations were performed at the Provincial Mental Hospital, Ponoka.

The surgical operations mentioned above were performed by the Surgical Consultants Dr. J. W. Richardson, of Calgary, or Dr. J. Ross Vant, of Edmonton.

As in previous years the Eugenics Board wishes to express its sincere appreciation and thanks to the Directors, Division of Mental Health, to the Medical Superintendents and their respective Staffs, and the Guidance Clinics, for their cooperation in connection with the work of the Eugenics Board.

#### Tables.

A tabular summary of the work of the Eugenics Board to December 31st, 1952, is appended.

CASES PRESEN			SSED			
(To 31 De	cember	r, 1952)				
	3	learly To	otals	Cun	ulative	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	59	53	105	1145	1128	2273
1947	90	53	91	1183	1181	2364
1948	97	68	105	1220	1240	2469
1949	52	57	109	1272	1306	2578
1950	37	60	97	1309	1366	2675
1951	24	48	82	1343	1414	2757
1952	21	36	57	1364	1450	2814

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#### OPERATIONS ONLY

(To 31 December, 1952)

	3	early To	otals	Cun	nulative	Totals
	Male	Female	Totals	Male	Female	Totals
1929-1933	48	158	206	48	158	206
1934-1938	198	240	438	246	398	644
1939-1943	199	151	273	368	549	917
1944	12	27	40	381	576	957
1945	18	29	47	399	605	1004
1946	9.4	31	55	423	636	1059
1947	16	15	31	439	651	1090
1948	16	22	38	455	673	1128
1949	- 20	27	47	475	700	1175
1950	91	46	67	496	746	1242
1951	16	41	57	512	787	1299
1952	6	18	24	518	805	1323

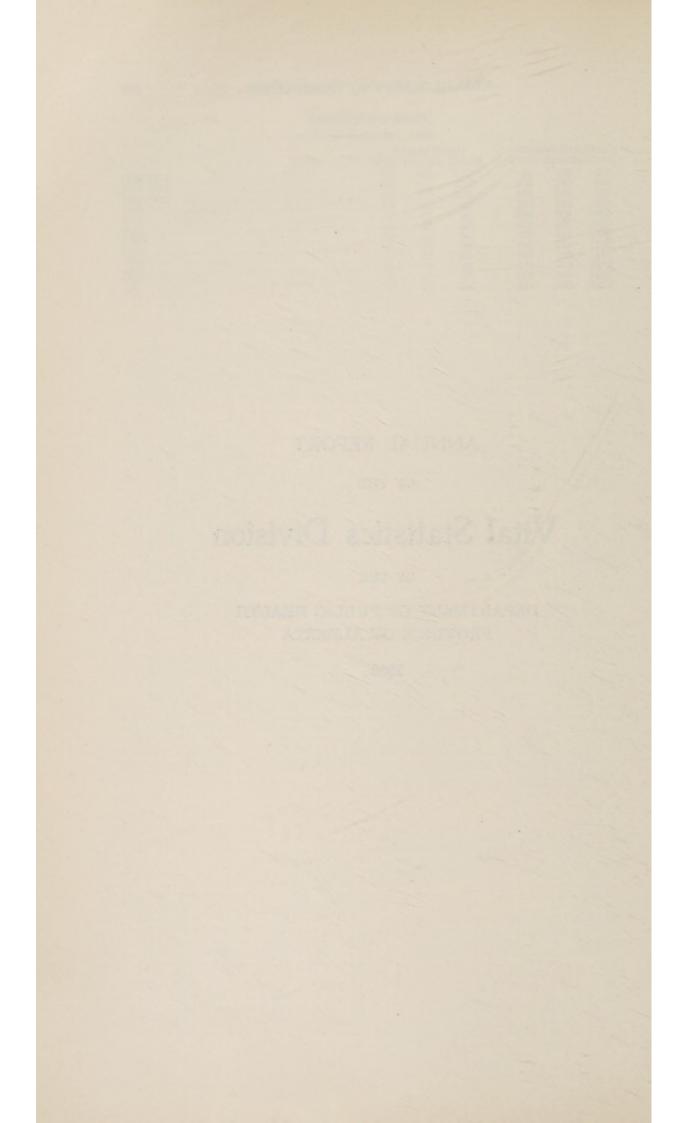
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# Vital Statistics Division

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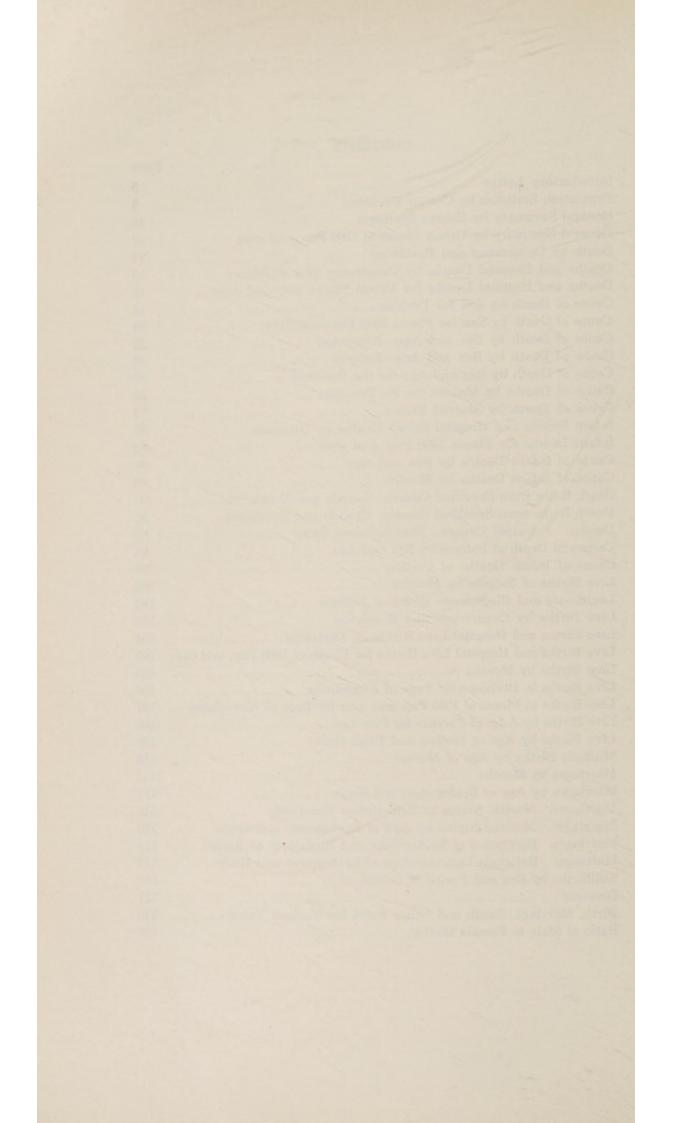
DEPARTMENT OF PUBLIC HEALTH PROVINCE OF ALBERTA

1952



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# Vital Statistics Division

(ARTHUR PACKFORD, Deputy Registrar General)

This Report of the Vital Statistics Division of the Department of Public Health is for the year 1952 and is the 48th Annual Report published since the establishment of the Province. The contents of this report differ considerably from that of previous years, as it contains an entirely new set of tables. The same information has been published for many years and it was considered that some of the information printed was no longer required, and that greater uniformity in the Provincial Tables was desirable. Therefore, a meeting of the Vital Statistics Council for Canada was held at the Dominion Bureau of Statistics, Ottawa, in March, 1953, to review the tabulations and this revised uniform set of Tables was approved for use by all the Provinces.

#### POPULATION

The population of the Province for 1952 has been estimated by the Dominion Bureau of Statistics as 970,000. The census taken on June 1, 1951, showed the population to be 939,501 at that time.

#### BIRTHS

There were 29,105 children born to residents of the Province during the year, 2,102 more than the previous year, the rate being 30.0 per 1,000 population; the previous year's rate was 28.7. Births of Indian children numbered 1,323. Of the total births, 14,969 were males and 14,136 were females, the ratio being 1,058 males to each 1,000 females.

Multiple births comprised 300 twin births and three sets of triplets.

There were 1,310 illegitimate births, the rate being 4.5 of all live births.

The number of births to residents of the four large cities were as follows: Edmonton, 5,949; Calgary, 4,059; Lethbridge, 716; Medicine Hat, 421. The total number of births in these cities were: Edmonton, 8,365; Calgary, 5,090; Lethbridge, 1,272, and Medicine Hat, 720.

Legal adoptions numbered 788 and 47 Alberta-born children were adopted elsewhere. Nine hundred and sixty-nine delayed registrations of birth were completed; 401 legal changes of name were recorded and 377 changes in christian names were filed. The births of 97 children were legitimated by the subsequent marriage of the parents.

The following table shows the birth rates for Canada, the Provinces and certain other countries for 1952.

#### VITAL STATISTICS BRANCH

	BIRTH	RATES
Canada	. 27.9	Australia 23.3
Newfoundland	99.0	New Zealand
Prince Edward Island	96.9	United States
Nova Scotia	0.77 8	Denmark 17.8
New Brunswick		Finland
Quebec	20.2	France 19.2
Ontario	96.0	Italy
Manitoba	96.0	Netherlands
Saskatchewan	96.0	Austria 14.5
Alberta	00.0	Norway
British Columbia	010	Portugal
England and Wales		Spain
Scotland	177	Sweden 15.5
Northern Ireland	20.9	Switzerland 17.4
Eire		

#### DIVORCES

Final Decrees of Divorce granted during the year numbered 630, being 41 more than in the previous year, but 25 less than the average for the five preceding years. Six Decrees of Nullity were also granted.

#### MARRIAGES

Marriages registered during the year numbered 9,514; 209 more than the previous year, and 499 more than the average for the preceding five years, the rate being 9.8 per 1,000 population. Of the bridegrooms, 368 were under 20 years of age and 24 were 75 and over; 440 were widowers and 438 were divorced. Of the brides, 2,651 were under 20 years of age and six were 75 and over; 516 brides were widows and 487 were divorced.

The number of marriages in the four large cities were: Edmonton, 2,749; Calgary, 1,892; Lethbridge, 420; Medicine Hat, 334.

Canada	England and Wales
Newfoundland 7.3	Scotland 8.0
Prince Edward Island	Northern Ireland
Nova Scotia 8.3	Eire 5.3
New Brunswick	Australia
Quebec 8.5	New Zealand 8.6
Ontario	United States
Manitoba 8.9	France 7.3
Saskatchewan 8.2	Italy 7.0
Alberta	Netherlands 8.4
Dritich Columbia 0.9	Austria 83

# MARRIAGE RATES

#### DEATHS

The deaths of 7,345 residents of the Province were registered during the year; of these, 346 were Indians. Four thousand five hundred and sixty-one of these deaths were males and 2,784 were females. There were 178 more deaths than in the previous year, the death rate being 7.6 per 1,000 population, the same rate as the previous year. Six hundred and twenty-six males and 489 females were 80 years of age and over. The number of deaths of residents of the four large cities were as follows: Edmonton, 1,319; Calgary, 1,232; Lethbridge, 170, and Medicine Hat, 166.

Diseases of the heart was the cause of 2,247 deaths, slightly higher than the previous year's total of 2,113, the rate being 231.6 per 100,000 population.

Deaths from all forms of cancer numbered 1,072; the rate was 110.5.

The polio epidemic was the worst in the history of the Province, 79 deaths being caused by acute poliomyelitis and two by late effects of acute poliomyelitis. There were two poliomyelitis deaths the previous year.

Deaths from tuberculosis, all forms, numbered 125, this being 21 less than the previous year; of these, 52 were Indians. Pulmonary tuberculosis caused 91 deaths; of these, 37 were Indians. There was a decrease in the number of deaths from pneumonia and influenza, the number being 298 and 47 as compared to 302 and 114 for the previous year. Violent and accidental deaths totalled 690; motor vehicle accidents, 196; other transport accidents, 66; accidental poisoning, 20; accidental falls, 90; accidents caused by machinery, 39; accidents caused by fire, 30; accidents caused by firearms, 14; accidental drowning, 49; all other accidental causes, 85; suicides numbered 94 and homicides seven.

The death rates for Canada, the Provinces and certain other countries are as follows:

#### DEATH RATES

Canada	8.7	England and Wales	
Newfoundland Prince Edward Island	7.4 8.9	Northern Ireland	10.8
Nova Scotia	8.8	Eire Australia	11.9 9.4
New Brunswick	0.4	New Zealand	9.3
Ontario	9.3 8.2	United States France	9.6 12.3
Manitoba Saskatchewan	7.0	Italy	10.0
Alberta		Netherlands	7.3
British Columbia	10.1	Austria	

#### MATERNAL MORTALITY

The steady decrease in the number of deaths from puerperal causes continued for 1952, the number of maternal deaths being 15; the rate per 1,000 live births was 0.5.

# MATERNAL DEATH RATES PER 1,000 LIVE BIRTHS

Canada Newfoundland	0.9	Ontario Manitoba	
Prince Edward Island	1.5	Saskatchewan	
Nova Scotia	0.8	Alberta	0.5
New Brunswick	1.1	British Columbia	0.6
Quebec	1.2		

#### INFANT DEATHS

There were 879 deaths of children under one year of age; 10 less than the previous year. Of this number, 515 were males and 364 were females. Two hundred and fifty-three of these children were under one day old, 452 were under one week, and 537 were under the age of one month. The infantile death rate was 30 per 1,000 live births; the rate the previous year was 33.

# INFANTILE MORTALITY RATES PER 1,000 LIVE BIRTHS

Canada	38 ,	Eire
Newfoundland	46	Australia
Prince Edward Island	31	New Zealand
Nova Scotia	34	United States
New Brunswick	44	Denmark 29
Quebec	50	Finland
Ontario	31	France
Manitoba	31	Italy
Saskatchewan	35	Netherlands
Alberta	30	Austria
British Columbia	29	Switlerland
England and Wales	28	Portugal
Continend and	35	Spain
Northern Ireland	39	Sweden

Stillbirths registered during the year numbered 399, being three less than the previous year, and the rate was 13.7 per 1,000 live births.

## DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTICS PURPOSES

As the Province of Alberta is not divided into Counties, and the political divisions are not permanently fixed, it has been found advisable to use as smaller areas, the Dominion Census Divisions.

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 1951 and 1941 division population figures.

Distance of Cash distance	To	otal	Division and Subdivision	To	tal
Division and Subdivision	1951	1941	Division and Subdivision	1951	1941
ALBERTA		796,169	Division No. 2-Continued:		
Rural		489,583			
Urban	488,188	306,586	Villages:	10000	1
			Coaldale	806	29
Division No. 1			Cowley	119	12
Rural			Frank	239	20
1. I.D.			Stirling	520	43
2. Burlington					
4. Warner			Division No. 3		15,51
11. I.D.		3,312	Rural		12,15
13. Bow Island			21. I.D.		2,413
14. Eureka		3,323	22. I.D.		63
25. Barons (pt.)	252		23. I.D.		1,359
Urban	21,846	13,187	28. Newell (pt.)		5,47
Cities:	10 004	10 571	34. Acadia (pt.)	19	
Medicine Hat Towns:	16,364	10,571	Army Experimental	0.04	0.0
Bow Island	653	291	Range	394	30
	224		Berry Creek-Sullivan		
Irvine Taber	3.042		Lake Area (pt.)	598	75
Villages:	3,042	1,001	Bow West Area (pt.)	700	86
Burdett	118	123	Vulcan No. 2 (pt.)	214	33
Foremost			Urban	5,131	3,36
			Towns:	604	EO
Grassy Lake Milk River	481	335	Bassano	624	583
Warner		296	Brooks	1,648	88
wanter	466	230	Redcliff	1,538	1,11
Division No. 2	71 480	58,563	Villages: Duchess	258	14
Rural				411	341
5. Sugar City	5.038		Empress Enchant		34.
6. Cochrane	3,475		Jenner	2.5 4 6 6 2.5	2
8. I.D.	39	2		259	193
9. Pincher Creek		3,363	Tilley Vauxhall	393	
10. I.D.		4.149	YauAnan	353	
16. Bright		2.427			
25. Barons (pt.)		6,693	Division No. 4	28,984	29,383
26. Argyle (pt.)		1,516	Rural	19.124	22,31
27. I.D. (pt.)	83	162	25. Barons (pt.)		3.92
Waterton Lakes Nat. Prk.	238	269	26. Arygie (pt.)	1,602	1.803
Indian Reserves	2,555	2.162	27 ID (nt)	83	10
Urban	39,862	28,838	27. I.D. (pt.) 31. Highwood	4.916	4.92
Cities:			32. Turner Valley (pt.).	4,088	6,17
Lethbridge	22,947	14,612	33. I.D.	31	25
Towns:	1. 1996.5 10		Bow West Area (pt.)	524	76
Blairmore	1,933	1,731	Vulcan No. 2 (pt.)	3,850	4.595
Cardston	2,487	1,864	Indian Reserves	164	2,000
Claresholm		1,265	Urban	9,860	7.068
Coleman		1,870	Towns:	0,000	1.000
Granum	327	238	High River	1.888	1.430
Macleod		1,912	Nanton	934	718
Magrath		1,207	Okotoks	767	591
Pincher Creek	1,456	994	Stavely	327	273
Raymond	2,279	2,089	Vulcan		73

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1951

#### POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1951—Continued

Division and Subdivision	To	otal	Division and Subdivision	Total	
	1951	1941		1951	1941
Division No. 4-Continued:		Deres 1	Division No. 6-Continued:		
Villages:			Villages-Continued:		
Arrowwood	222		Standard		21
Barons	369		Swalwell		11
Black Diamond		890 223	Trochu	630	48
Blackie Carmangay			Division No. 7	32,334	33,28
Cayley			Rural		26,11
Champion	378		52. Provost	3,610	4,71
Lomond	153		53. Paintearth		4,16
Milo Nobleford	141 255	129 111	61. Wainwright (pt.) 62. Flagstaff	3,583 6,129	4.75
Picture Butte			73. Beaver (pt.)		1.51
Turner Valley		676	Berry Creek-Sullivan		
	10.100	10 000	Lake Area (pt.)	101	14
Division No. 5	16,129	18,926 15,560	Sounding Creek-Neutral	2,173	3.01
Rural 34. Acadia (pt.)		739	Hills Area (pt.) Buffalo Nat. Park 6	2,708	3,01
42. I.D. (pt.)	2.642		Urban	9,722	7,16
47. Starland			Towns:		
Berry Creek-Sullivan	0.050	1.050	Castor	798	62
Lake Area (pt.)	3,252	4,658	Coronation Hardisty	738 536	58 43
Sounding Creek-Neutral Hills Area (pt.)	3,186	4,521	Wainwright	1,996	98
Urban		3,366	Villages:		
Towns:			Alliance	281	23
Hanna	2,027	1,622	Cadogan	340	34
Villages: Cereal	135	142	Chauvin Consort	396	20
Chinook	116		Czar	123	13
Craigmyle	136	186	Edgerton	309	23
Delia	278		Forestburg	443	2:
Morrin			Galahad		14
Munson Oyen			Hughenden Irma	1 2 2 2 3	27
Rumsey			Killam		34
Youngstown		188	Lougheed	186	19
Distriction Mar a	105 050	140 000	Monitor		2
Division No. 6 Rural		46,679	Provost Sedgewick		51 32
28. Newell (pt.)	671	668	Strome		23
28. Newell (pt.) 32. Turner Valley (pt.)	67	84	Veteran	206	19
40. Bow Valley	2,941	3,462	Viking	683	49
41. I.D. 42. I.D. (pt.)		212 4,011	Division No. 8	73,997	67,63
43. Serviceberry		3.706	Rural	1 (D) (D) (D) (D)	49,29
44. Conrich			54. Stettler		7,16
45. Springbank		3,241	55. Red Deer (pt.)	6,753	7,79
46. I.D.	6,364	3,598 8,135	63. Camrose	10,895	12,23
48. Kneehill 49. Mountain View		9,800	64. Lacombe (pt.) 66. Ponoka (pt.)	5,850	6,58 6,44
50.I.D.		1,085	73. Beaver (pt.)	383	5
51. Banff Nat. Park		2,545	74. Wetaskiwin (pt.)	6,216	7,20
Indian Reserves		1,859	Indian Reserves	1,554	1,24
Urban	144,916	100,311	Urban	30,032	18,33
Cities: Calgary	129,060	88,904	Cities: Red Deer	7,575	2.92
Drumheller		2,748	Wetaskiwin	3,824	2,31
Towns:	1000		Towns:		
Didsbury			Camrose	4,131	2,59
Gleichen Olds	430	435 1,337	Daysland	475	43
Strathmore		560	Innisfail Lacombe	2.277	1,60
Three Hills		706	Ponoka	2,574	1,30
Villages:			Stettler	2,442	1,29
Acme		285	Villages:	101	
Airdrie		191 240	Alix	461 603	36
Beiseker Bowness		240	Bashaw Bawlf	236	2
Carbon		409	Big Valley	307	29
Carstairs	468	371	Bittern Lake	25	
Cluny		138	Blackfalds	154	1
Cochrane		298 409	Botha	98 241	1 2
Forest Lawn		409 899	Clive Delburne	395	3
Hussar		116	Donalda		2
Irricana		172	Edberg	188	1
Langdon		95	Elnora	211	19
Rockyford	246	201	Erskine		1

# VITAL STATISTICS BRANCH

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1951—Continued

Division and Subdivision	Tot	al	Division and Subdivision	Total		
Division and Subdivision	1951	1941		1951	1941	
Division No. 8-Continued:			Division No. 11-Continued:			
			Rural-Continued:	-		
Villages—Continued: Gadsby	128	141	90. Sturgeon (pt.)	6,365	5,113	
Gull Lake	32	21	91. Morinville (pt.)	3,307	3,542	
Halkirk	148	118	93. Lac Ste. Anne (pt.)	4,999	5,654	
Ma-Me?O Beach		325	Elk Island Nat. Park Indian Reserves	1.014	991	
Millet Mirror	0.000	570	Urban	180,495	99,793	
New Norway	0.50	169	Cities:	Sec. 1		
Ohaton		53	Edmonton	159,631	93,81	
Penhold	174	183	Towns: Beverly	2,159	98	
Division No. 9	31,627	32,232	Devon			
Rural	27,306	29,045	Fort Saskatchewan	1,076	90	
55. Red Deer (pt.)	5,653	5,735	Jasper Place	9,139 1,842	87	
56. Waterloo	1,237 2,366	1,402 2,254	Leduc Morinville		58	
57. Raven 58. I.D.		94	St. Albert		69	
64. Lacombe (pt.)	1 40.00	2,670	Stony Plain	878	56	
65. I.D.	4,145	4,307	Tofield	692	55	
66. Ponoka (pt.)		3,576 257	Villages: Alberta Beach	79	5	
68. I.D. 69. I.D.	1 000	1,234	Calmar			
76. I.D. (pt.)	0.000	3,877	Hay Lakes	231	15	
79. I.D. (pt.)	1,166	2,017	Lakeview	15 189	15	
80. Jasper Nat. Park		1,622	Onoway Sangudo		17	
Indian Reserves	4,321	3,187	Seba Beach		8	
Towns:	1 1000	0,100	Thorsby	385		
Rimbey	757	410	Wabamun		20	
Rocky Mtn. House	1,147	800	Division No. 12	17,704	17,43	
Sylvan Lake	985	805	Rural	14,907	15.49	
Villages: Bentley	439	279	77. I.D.	1,325	1,82	
Bowden	277	234	78. I.D.		1,87	
Eckville		135	79. I.D. (pt.)	2,826 2,208	1,86	
North Red Deer		524	93. Lac Ste. Anne (pt.) 94. Pembina		3,46	
Sundre			95. I.D.	2,561	2,56	
Division No. 10	50,016		96. I.D.		8	
Rural	37,780		108. I.D. (pt.)		10 1,20	
61. Wainwright (pt.) 71. Vermilion River (pt.)	269	425 11.869	109. I.D. (pt.) 110. I.D. (pt.)	0.0	3	
72. Minburn	F 000	7.052	111. I.D. (pt.)			
73. Beaver (pt.)	3,032	3,683	Urban	2,833	1,93	
81. Eagle	10,094	14,483	Towns:	1 056	1.49	
82. Lamont	8,569	12,740 8,825	Edson Villages:	1,956	1,40	
Urban Towns:	16,600	0,000	Entwistle		21	
Lloydminster (pt.)	1,706	572	Mayerthorpe	472	21	
Mundare	596	756	Wildwood	405		
Vegreville	2,223	1,696	Division No. 13	30,152	33,17	
Villages: Andrew	625	326	Rural	0.0	30,80	
Bruderheim	10000	237	71. Vermilion River (pt.)	434	58	
Chipman			85. I.D.			
Derwent		171	86. St. Paul 87. Bonnyville		10,12	
Hairy Hill Holden		361	88. Glendon		1,96	
Innisfree	0.045	253	89. Smoky Lake (pt.)	3,282	4,83	
Islay		132	101. I.D.		6,2	
Kitscoty		234 438	102. I.D. (pt.)	2,791	2,74	
Lamont Lavoy		178	103. I.D. (pt.) Indian Reserves			
Mannville			Towns:	1		
Minburn	. 186	289	Bonnyville	1,139		
Myrnam		216 129	St. Paul	1,407	1,01	
Ranfurly Ryley			Villages: Bellis		12	
Two Hills		210	Elk Point	. 453	31	
Willingdon			Vilna		3	
Disister No. 11	000 100	140 100	Disister No. 11	40 701	47.90	
Division No. 11 Rural	226,199	149,193 49,400	Division No. 14			
73. Beaver (pt.)			89. Smoky Lake (pt.)		9,88	
74. Wetaskiwin (pt.)	. 56	39	90. Sturgeon (pt.)	2,430	3,16	
75. Leduc			91. Morinville (pt.)			
76. I.D. (pt.)			92. Westlock 93. Lac Ste. Anne (pt.)	9,797		
oo. outercould	7,921		102. I.D. (pt.)	0.040		

10

Division and Subdivision	Total Division and Subdivision		Division and Subdivision	Tot	tal
	1951	1941		1951	1941
Division No. 14—Continued:			Division No. 16	32,439	30,349
Rural-Continued:			Rural	25,631	26,349
103. Athabasca	7.799	7.922	133. Spirit River	1.406	1.828
107. I.D.	3.112	3.166	134. I.D.	2.568	2.37
108. I.D. (pt.)	1.072	1,088	135. Peace	1,741	2.00
122. I.D.	469	348	136. Fairview	2,031	2,32
Indian Reserves	48		138. I.D. (pt.)	1,663	1.61
Urban		3,373	139. I.D.	3,007	2.74
Towns:	1		Grande Prairie No. 1	10,198	11,18
Athabasca	1.068	578	Indian Reserves	101	16
Barrhead	1,243	399	Urban	6,808	4,00
Lac La Biche		517	Towns:		
Redwater			Fairview	929	43
Westlock	1,111	590	Grande Prairie	2,664	1,72
Villages:		1.1.1	Villages:	1000	
Clyde	219	160	Beaverlodge	514	33
Legal	. 523	462	Berwyn	288	20
Radway	184		Clairmont		10
Smoky Lake	. 491	430	Grimshaw	564	16
Thorhild			Hythe	342	24
Waskatenau	239	237	Rycroft	372	
	Land State	1.1.5	Sexsmith	331	32
Division No. 15	21,663	17,484	Spirit River	553	27
Rural	16,963	16,020	Wembley	251	18
108. I.D. (pt.)		917	and the second se	A	
109. I.D. (pt.)	170	160	Division No. 17	11,587	9,71
110. I.D. (pt.)		75	Rural	10,966	9,71
111. I.D. (pt.)	. 313		102. I.D. (pt.)		
123. I.D.		15	121. I.D. (pt.)	310	22
124. I.D.		2,545	128. I.D.	593	36
125. I.D.		3,044	129. I.D.	502	33
126. I.D.		1,687	131. I.D. (pt.)	179	-
130. I.D.		4,327	137. I.D.	124	4
131. I.D. (pt.)		1,829	138. I.D. (pt.)	2,547	1,97
Indian Reserves		1,154	143. I.D.	1,158	2,31
Urban	4,700	1,464	144. I.D.	115	-
Towns:			145. I.D.	158	-
High Prairie		4-1111	146. I.D.	754	27
McLennan		000	147. I.D.	1,589	1,37
Peace River	1,672	873	148. I.D.		1
Villages:		044	149. I.D.	39	e
Falher			Wood Buffalo Nat. Park	36	0.50
Grouard	0.00	347	Indian Reserves	2,862	2,50
Kinuso		18	Urban	621	***
111. I.D. (pt.)			Towns:	0.01	
132. I.D.	2,905	2,110	McMurray	621	

## POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1951—Continued

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Maternal	deaths	15	M M M M M M     M H   H	1, 1952	Neonatal Maternal	deaths	907101 00 1
Neonatal	deaths	537	823991121021232440 823341121021232440 823341121021232440	ALBERTA.	Neonata	deaths	
Infant	deaths	819	22888888888888888888888888888888888888	OVER,		deaths	
-	deaths	4,713	152 349 644 137 137 137 148 148 148 148 148 148 148 148 148 148	DINA NOF	Hospital	deaths	3011144 66 6112 30011144 66 6112
Total H		7,345	268 516 100 214 1.696 250 666 236 236 236 236 236 236 236 236 236	POPULAT	Total	deaths	1,2322 1,2322 1,2322 1,2322
_		9,514	422 176 150 150 150 153 336 3,123 336 3,123 336 3,123 336 299 299 299 299 299 257 257 257	OF 1,000 1	Excess births	over deaths	2,8277 250 242 242 534 242 534 242 534 256 534 256 534 537 537 537 537 537 537 537 537 537 537
	Stillbirths Marriages	399	12 31 31 31 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 22 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 31 2 3 2 3	PLACES (	Mar-	riages	29 14 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20
		1,310	842 842 842 842 842 842 842 842 842 842	URBAN	Still-	births	
Illegitimate				ORA TED	Illegiti-	births	014010101401 014010101401
Live births	in hospital	28,069	1,010 2,070 499 830 830 831 2,154 2,154 1,183 7,894 469 469 1,309 1,309 1,309 1,309 1,309 1,309 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032	FOR INCORPORATED URBAN PLACES OF 1,000 POPULATION	Live I	E E	4 054 109 109 109 109 109 109 109 109
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ILIV	Total	29,105	1,057 2,226 510 848 848 848 848 848 848 2,237 7,953 521 1,200 7,953 521 1,079 1,079 864 1,079 371	ARY OF VI	TIV	Total	169 169 169 169 169 169 169 169 169 169
	CENSUS DIVISIONS	ALBERTA	Division No. 2 Division No. 2 Division No. 3 Division No. 3 Division No. 4 Division No. 6 Division No. 6 Division No. 10 Division No. 11 Division No. 11 Division No. 13 Division No. 13 Division No. 13 Division No. 13 Division No. 14 Division No. 16 Division No. 16 Division No. 16	TABLE 2-GENERAL SUMMARY OF VITAL STATISTICS	CITTES TOWNS AND	VILLAGES	Athabasca Barrhead Beverly Beverly Black Diamond Blairmore Bonnyville Bowness

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# VITAL STATISTICS BRANCH

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Camrose Camrose Claresholm Coleman Didsbury Drumheller Edmonton Fort Saskatch Fort Saskatch Magner Place Leduc Leduc Leduc Leduc Leduc Leduc Leduc Leduc Leduc Leduc Leduc Leduc Leduc Cethbridge Locky Mount Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redwater Redw
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TABLE 3-DEATHS BY PLACE OF OCCURENCE AND PLACE OF RESIDENCE, 1952	
3-DEATHS BY PLACE OF OCCURENCE AND PLACE OF	1952
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3-DEATHS	BY
TABLE 3	-DEATHS
	TABLE 3

PLACE OF RESIDENCE	N.B. Que. Ont. Man. Sask. Alta. B.C. Yukon N.W.T. U.S.A. Other	4,647         34,854         44,402         6,552         6,625         7,345         12,080         89         271         649         49	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Nfld. P.E.I.	2,773 916	2,754 6 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Total	(occur- rence)	127,008	2.774 922 922 5.762 5.762 5.762 6.580 6.580 6.580 6.580 6.580 6.580 6.580 6.580 6.580 6.580 6.580 6.580 7.746 7.747 90 90 922 922 922 922 922 922 922 922 9
	PLACE OF OCCURRENCE	TOTAL (residence)	Newfoundland Prince Edward Island Nova Scotla New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories

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# VITAL STATISTICS BRANCH

A SA TO A DA D	Т	OTAL 1	DEATHS		DEAT	DEATHS IN HOSPITALS					
CENSUS DIVISIONS	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere			
LBERTA	7,346	7,345	166	165	4,722	4,713	103	9			
Division No. 1	240	268	30	58	127	152	20				
Division No. 2	514	516	66	68 33	353	349 64	52				
Division No. 3 Division No. 4	82 142	100     214	15 21	93	42 67	137	77				
Division No. 5	92	128	-1	44	38	78	i				
Division No. 6	1.796	1,696	244	144	1.188	1.087	205	1			
Division No. 7	206	250	16	60	106	148	8				
Division No. 8	757	666	189	98	529	452	160				
Division No. 9	184	236	37	89	88	145	24				
Division No. 10	289	364	21	96	167	238	14				
Division No. 11	2,093	1,762 118	467	136 56	1.581	1.224	429 2				
Division No. 12 Division No. 13	75 196	221	13 16	41	130	151	13				
Division No. 13 Division No. 14	252	299	28	75	122	172	17				
Division No. 15	163	188	14	39	70	94	8				
Division No. 16	195	222	15	42	94	128	3	3			
Division No. 17	70	97	4	31	12	37	1				

# TABLE 4—DEATHS AND HOSPITAL DEATHS BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1952

#### VITAL STATISTICS BRANCH

- provincing of each	T	OTAL I	DEATHS	3	DEATHS IN HOSPITALS					
CITY, TOWN OR VILLAGE	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere		
Athabasca Barrhead Beverly Black Diamond Blairmore Bonnyville Bowness Brooks Calgary Camrose Cardston Claresholm Coleman Didsbury Drumheller Edmonton Edson Forest Lawn Fort Saskatchewan Grande Prairie High Prairie High Prairie High River Innisfail Jasper Place Lacombe Leduc Lethbridge Lloydminster Macleod Magrath McLennan Medicine Hat Olds Peace River Pincher Creek Ponoka Raymond Redoliff Red Deer Redwater Rocky Mountain House St. Albert St. Paul Stettler Taber. Three Hills Vegreville Vermilion Vulcan Wainwright Westlock Wetaskiwin	$\begin{array}{c} 22\\ 23\\ 3\\ 3\\ 6\\ 34\\ 4\\ 32\\ 1,402\\ 157\\ 23\\ 211\\ 111\\ 23\\ 70\\ 1.857\\ 20\\ 1\\ 3\\ 58\\ 399\\ 65\\ 431\\ 41\\ 6\\ 52\\ 8\\ 228\\ 6\\ 20\\ 15\\ 211\\ 181\\ 40\\ 212\\ 299\\ 112\\ 17\\ 1\\ 98\\ 5\\ 24\\ 16\\ 66\\ 34\\ 199\\ 47\\ 41\\ 155\\ 42\\ 45\\ 78\end{array}$	$\begin{array}{c} 16\\ 12\\ 8\\ 8\\ 11\\ 19\\ 17\\ 15\\ 18\\ 1,232\\ 76\\ 6\\ 233\\ 14\\ 223\\ 1,319\\ 16\\ 3\\ 32\\ 1,319\\ 16\\ 3\\ 32\\ 1,319\\ 16\\ 3\\ 32\\ 1,319\\ 16\\ 6\\ 166\\ 166\\ 166\\ 166\\ 166\\ 166\\$	$\begin{array}{c} 10\\ 16\\ 1\\ 2\\ 18\\ 2\\ 16\\ 291\\ 88\\ 4\\ 11\\ 3\\ 9\\ 47\\ 669\\ 11\\ 25\\ 14\\ 52\\ 27\\ 19\\ 2\\ 24\\ 2\\ 81\\ 1\\ 5\\ 26\\ 6\\ 16\\ 80\\ 8\\ 1\\ 42\\ 12\\ 1\\ 30\\ 28\\ 11\\ 6\\ 26\\ 12\\ 7\\ 20\\ 0\\ 43\\ \end{array}$	456851511321217448849913172277712278176152379913207766164471538879883499153312	$\begin{array}{c} 17\\22\\31\\24\\969\\959\\126\\7\\19\\49\\99\\1,524\\4\\38\\31\\42\\32\\37\\40\\2\\186\\17\\100\\13\\121\\34\\41\\422\\100\\11\\75\\1\\1\\34\\41\\422\\100\\11\\75\\6\\14\\44\\28\\11\\32\\6\\30\\63\end{array}$	$\begin{array}{c} 12\\ 11\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1$	$\begin{array}{c} 9\\ 9\\ 16\\ 2\\ 17\\ 14\\ 252\\ 80\\ 1\\ 100\\ 1\\ 8\\ 44\\ 637\\ 2\\ 19\\ 13\\ 35\\ 222\\ 19\\ 19\\ 21\\ 2\\ 777\\ 4\\ 111\\ 33\\ 266\\ 5\\ 14\\ 4\\ 111\\ 33\\ 266\\ 5\\ 14\\ 4\\ 111\\ 33\\ 266\\ 5\\ 14\\ 4\\ 25\\ 9\\ 6\\ 6\\ 18\\ 39\\ 38\\ 38\\ 38\\ 38\\ 38\\ 38\\ 38\\ 38\\ 38\\ 38$			

# TABLE 5-DEATHS AND HOSPITAL DEATHS BY OCCURRENCE AND RESIDENCE FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1952

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VILLAGES) IN ALBERTA, 1952	Div. 17 Div. 17 Div. 15 Div. 13 Div. 13 Div. 13 Div. 12 Div. 13 Div. 13 Div. 13 Div. 14 Div. 14 Div. 16 Div. 16	666         236         364         1762         118         221         299         188         222         97           388         164         228         1104         78         147         163         119         141         57           278         72         136         658         40         74         136         69         81         40	4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 0 6 1 8 3 3 3 2 2 6 6 1 2 2 2 1 6 6 1 1 2 2 2 1 0 6 1 1 1 2 2 2 6 6 1 1 1 1 1 2 2 8 8 3 3 3 2 2 2 1 0 6 1 1 1 1 1 2 2 8 8 1 1 1 1 1 2 2 8 8 1 1 1 1		1 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
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	Div. 4	214 136 78				111	1 1 1			111	1111		
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UDI	Div. 1	268 165 103	17 17		-	111	111	111	111	111			
(INCLUDING	TetoT	7345 4561 2784	49 88 10	01	610 H	1 1 1	en 60	17			F	4-10	• • • • •
DIVISIONS		Total Male Female	Male Female Male Female		Male Female Male	Female Male Female	Male Female Male	Female Male Female	Male Female Male	Female Male Female	Male Female Male Female	Male Female	Female Male Female
TABLE 6-CAUSE OF DEATH BY SEX FOR CENSUS	CAUSE OF DEATH (Intermediate List)	ALL CAUSES	- 61	A 3 Tuberculosis of hones and joints	A 5 Tuberculosis, all other forms A 6 Congenital syphilis	A 7 Early syphilis	A 8 Tabes dorsalis	10		A 12 17photo tever A 13 Paratyphoid fever and other Salmonella infections	A 14 Cholera A 15 Brucellosis (undulant fever)	A 16 Dysentery, all forms	A 17 Scarlet fever A 18 Streptococcal sore throat

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TABLE 6-CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS CAUSE OF DEATH (Intermediate List)	Erysipelas Erysipelas Septicaemia and pyaemia Nhooping cough Meningococcal infections Meningococcal infections Meningococcal infections Meningococcal infections Plague Leprosy Tetanus Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthrax Anthra	A 38 Schistosomiasis Female.

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lue to helminths	wity and pharynx	Malignant neoplasm of stomach Malignant neoplasm of intestine, except rectum	Malignant neoplasm of rectum Malignant neoplasm of larynx	lung		54 Malignant neoplasm of prostate	Male Female Male Female	ther and unspecified sites Male Male Female Female	g

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LUD	Total	
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TABLE 6-CAUSE OF DEATH BY SEX FOR CENSUS DIVI	CAUSE OF DEATH (Intermediate List)	III, IV. Allergic Disorders and Endocrine Metabolic and Blood Diseases Nontoxic goitre and Blood Diseases Thyrotoxicosis with or without goitre and Anientius and other deficiency states Anaemias and other endocrine, metabolic and blood diseases and lother endocrine, metabolic and blood diseases and disorders of personality Disorders Psychoneuroses and disorders of personality Disorders Psychoneuroses and disorders of personality Disorders Numental deficiency and Sense Organs VI. Diseases of the Nervous System and Sense Organs Vascular lesions affecting central nervous system Multiple sclerosis Epilepsy Inflammatory diseases of eye and Glaucoma
		A 61 A 62 A 63 A 65 A 65 A 65 A 65 A 65 A 67 A 70 A 71 A 72 A 73 A 73 A 75 A 75 A 75
	u	

A 77 A 78	Otitis media and mastolditis All other diseases of the nervous system and sense organs	Male Female Male Female	41-45	THE	100	1-11	TIT		0 1-4	- 10	1001	1000	H H 00 10	
A 70	VII. Diseases of the Circulatory System	Male	6				_		03				e1	
A 80	Chronic rheumatic heart disease	Female Male	00 00	00	0101	01					C1 [~~ 7	0		
A 81	Arteriosclerotic and degenerative heart disease	Female	1240	990	4 98 94 96	18		31 335		421		2 76	282	
A 82	Other diseases of heart	Male	102	2010	90.	e 60						20-0		
A 83	Hypertension with heart disease	Male	38	19	e e e	11			580			141		
A 84	Hypertension without mention of heart	Female Male	40	N ; 1	Nois	02								
A 85	Diseases of arterles	Male	383		1	-	- 61	1 17	210			100		
A 86	Other diseases of circulatory system	Male	196	N	* [*	11	11-	-		-				
	VIII. Diseases of the Respiratory System	remate	PT	-	-	1	+	1	-	-	-	+	-	
A 87	Acute upper respiratory infections	Male	000	1.	1	1	-	-		1	1	-		
A 88	Influenza	Male	0230	- 1	11	11		-	4	4,	: -11 0	1 16		
A 89	Lobar pneumonia	Female Male	388	-	- 90			11	e t- 0			N		
A 90	Bronchopneumonia	remale Male	104	01.	0 00 0	11	C1 -	100 +	281:		- 6.0		18:	
A 91	Primary atypical, other and unspecified pneumonia	Female	288	- 01	~~ c	117			e 0		0010	100 -	91-9	
A 92	Acute bronchitis	Male	200	11	0	• ;	11	1.1	0-1	11	2	4 :		
A 93	Bronchitis, chronic and unqualified	Female	14.0	11		-	-	11		1 1	-		10	
A 94	Hypertrophy of tonsils and adenoids	Female Male	0	11	1.1	11	11	11	1 10	1 1	-		1	
A 95	Empyema and abscess of lung	Female Male	- 01	11	11	1 1	11	11		1 1		1 1	F	
	Districtor	Female	-	T	T	-	1	-	-	-			-	
	Alt office constructions discover	Female		1		1			1	0			-	
IR V	MI DURE RESULTANT DECEMBER System	Female	16	101	• ]	11	II.	1	9		1 64		010	
A 98	Diseases of testh and supporting structures	Male	-	-	-	-	-	-		-				_
-	traction of warming firm which the mild man to cacedor	Female		U					-	-				-

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Int		
DIVISIONS (INCLUDING CITIES, TOWNS		Male Female Female Female Female Female Female Female Female Male Female Male Female Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female
200		birth
TABLE 6-CAUSE OF DEATH BY SEX FOR CENSUS	CAUSE OF DEATH (Intermediate List)	A 99       Ulcer of stomach         A100       Ulcer of duodenum         A101       Gastritis and duodenitis         A102       Appendicitis         A103       Intestinal obstruction and hernia         A104       Gastro-enteritis and colitis, except diarrhoea of the newborn         A105       Cirrhosis of liver         A106       Cholelithiasis and cholecystitis         A107       Other diseases of digestive system         A108       Chronic, other and unspecified nephritis         A109       Chronic, other and unspecified nephritis         A110       Infections of kidney         A111       Calculi of urinary system         A112       Diseases of prostate         A113       Diseases of prostate         A114       Chore diseases of genito-urinary system         A113       Diseases of prostate         A114       Chere diseases of genito-urinary system         A113       Diseases of prostate         A114       Chere diseases of genito-urinary system         A115       Sepsis of prestancy, childbirth and the puerperium         A116       Toxaemias of pregnancy childbirth and the puerperium

TOWNS AND VILLAGES) IN ALBERTA, 1952-Continued CTTTPS

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DIVISIONS		Male. Female Female	Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Fema
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			Motor vehicle accidents Other transport accidents Accidental poisoning Accidental poisoning Accident caused by machinery Accident caused by fire and explosion of combustible material Accident caused by hot substance, corrosive liquid, steam and radiation Accident caused by firearm Accident caused by firearm Accident caused by firearm Accident caused by firearm and radiation Accident caused by firearm Accident caused by firearm Accident acuses Accident and self-inflicted injury Suicide and self-inflicted injury Injury resulting from operations of war Injury resulting from operations of war
TABLE 6-CAUSE OF DEATH BY SEX FOR CENSUS		XVI. Symptoms, Senility, and III-Defined Conditions Senility without mention of psychosis III-defined and unknown causes EXVII. Accidents, Poisonings and Violence (Classified According to External Cause)	Motor vehicle accidents Other transport accidents Accidental poisoning Accidental poisoning Accident caused by machinery Accident caused by fire and explosion of combustible material Accident caused by hot substance, corrosive liquid, st and radiation Accident caused by firearm Accident causes Accident causes Accident and self-inflicted injury Suicide and injury purposely inflicted by other per for inv resulting from operations of war Injury resulting from operations of war
CE CE		ondi (Clas	b liq
FOF		d C	osive osive
EX		oms, Senility, and III-Defined out mention of psychosis nd unknown causes dents, Poisonings and Violence According to External Cause)	orro orro
s si	Ea	-De Losi	sior nfli
B	CAUSE OF DEATH (Intermediate List)	III. Sych sych	kplc v v s o
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9		ym) wi wi bed Ac	or vehicle accide er transport accid dental poisoning idental falls ident caused by i material ident caused by and radiation ident caused by ident accused by ident actidental conting other accidental conting other accidental conting into the and injury (not in war)
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AB		XVI. Symptoms, Senility, and III-Defi Senility without mention of psychosis III-defined and unknown causes EXVII. Accidents, Poisonings and Viol	Motor vehicle accidents Other transport accidents Accidental poisoning Accident caused by machinery Accident caused by fire and explosion material Accident caused by fire and explosion and radiation Accident caused by firearm Accident caused by firearm Accident caused by firearm Accident caused by firearm Accident and submersion All other accidental causes Suicide and injury purposely inflic (not in war) Injury resulting from operations of wa
-		a second second second second	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		A136 A137	AE138       Motor vehicle accidents         AE139       Other transport accidents         AE141       Accidental poisoning         AE141       Accidental poisoning         AE142       Accidental falls         AE143       Accident caused by machinery         AF144       Accident caused by hot substance, cornanterial         AF144       Accident caused by fire and explosion omaterial         AF144       Accident caused by fire and explosion omaterial         AF144       Accident caused by fire and substance, cornand radiation         AE145       Accident caused by firearm         AE146       Accident caused by firearm         AE147       All other accidental causes         AE148       Suicide and self-inflicted injury         AE148       Suicide and injury purposely inflicte (not in war)         AF150       Injury resulting from operations of war

24

1         5         7         5         2         34         3         7         5         6         23         5           1         3         1         3         7         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         6         23         5         7         3         1         3         1         3         1         3         1         3         1         3         1         3         1         3         1         3         3         1         3         3         1         3         3         3         3         3         3         3         3         3         3	21         1         2         2         3         1         1           6         1         2         2         2         3         1         1         1				7         6         m         1         15         2         7         3         3         16         2           1         1         1         1         1         3         3         10         2         2	5         10         2         5         1         20         2         8         2         5         33           3         1         2         5         1         3         2         5         33					1         9         1         2         4         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1
Fracture of skull Male	Fracture of spine and trunk Male	Fracture of limbs	Dislocation without fracture Female	Sprains and strains of joints and adjacent muscles Male	Head injury (excluding fracture) Male	Internal injury of chest, abdomen, and pelvis Male	Laceration and open wounds Female	ig with intact skin	Effects of foreign body entering through orificeFemale	Burns Male Male Male Male Male Male Male Male	All other unspecified effects of external causes Female Female

NXVII. Accidents, Poisonings and Violence (Classified According to Nature of Injury)

AN140 AN141

AN138 AN139 AN144 AN145

AN146

AN143

AN142

AN149

AN150

AN148

AN147

### ANNUAL REPORT, 1952

	CAUSE OF DEATH (Intermediate List)		Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Ded Deer
ALL C	AUSES	Total Male	2979 1837	1232 749	1319 827				
	I. Infectious and Parasitic Diseases	Female							
A 1	Tuberculosis of the respiratory system	Male	9	3	5		1		
A 2	Tuberculosis of meninges and central nervous	Female	10	5			1		
	system	Male Female	1					1	
A 3	Tuberculosis of intestines, peritoneum and mesenteric glands	Male						-	1
A 4	Tuberculosis of bones and joints	Female Male							ł
A 5	Tuberculosis, all other forms	Female Male							1
A 6	Congenital syphilis	Female Male	2		2	****			i
A 7	Early syphilis	Female Male							в
A 8	Tabes dorsalis	Female	1	1					Į
A 9	General paralysis of insane	Female Male	2	2				****	ł
A 10	All other syphilis	Female	6						l
A 11	Gonococcal infection	Female Male	4	3					ł
A 12	Typhoid fever	Female Male							ł
A 13	Paratyphoid fever and other Salmonella	Female				0000			t
A 15	infections	Male				1000			1
A 14	Cholera	Female Male							Ī
A 15	Brucellosis (undulant fever)	Female Male	1				1		8
A 16	Dysentery, all forms	Female Male			1.000				Ł
A 17	Scarlet fever								L
A 18	Streptococcal sore throat	Female Male							ь
A 19	Erysipelas						****		£
A 20	Septicaemia and pyaemia	Female Male	2	1	1				1
A 21	Diphtheria	Female Male	1		1				s
A 22	Whooping cough	Female Male	1					****	l
A 23	Meningococcal infections	Female Male	1						E
A 24	Plague	Female Male							ł
A 25	Leprosy	Female Male							ł
A 26	Tetanus	Female Male						****	Ł
A 27	Anthrax	Female Male							
A 28	Acute poliomyelitis	Female Male	16	8					ł
A 29	Acute infectious encephalitis	Female Male	13	4	4	1		2	
A 30	Late effects of acute poliomyelitis and acute	Female			 				L.
	infectious encephalitis	Male	2		1 39304				1
A 31	Smallpox	Female Male Female							ŀ
A 32	Measles	Female Male Female						****	ŀ
A 33	Yellow fever	Female Male			2000				
A 34	Infectious hepatitis	Female Male	1						ы

# TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1952

	AND OVER IN ALBERTA, 1952-	Commune					_		-
	CAUSE OF DEATH (Intermediate List)		Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
A 35	Rabies	Male		-					and and
	Typhus and other rickettsial diseases	Female Male	1	-			1		
A 36		Female Male	in	4444					
A 37	Malaria	Female							
A 38	Schistosomiasis	Male Female		****				1000	
A 39	Hydatid disease	Male Female						1.000	
A 40	Filariasis	Male Female							
A 41	Ankylostomiasis	Male							
A 42	Other diseases due to helminths	Female Male						1000	
A 43	All other diseases classified as infective	Female							
A 45	and parasitic	Male Female	1	1			1.000		1 . 1.5
		remaie				1 1010		-	1111
	II. Neoplasms						1		
A 44	Malignant neoplasm of buccal cavity and pharynx	Male	6	2		3		1	
A 15	Malignant neoplasm of oesophagus	Female	3	24		6		1	
A 45		Female	5	1		3	1		2
A 46	Malignant neoplasm of stomach	Male Female	50 27	16 13	1		2		in
A 47	Malignant neoplasm of intestine, except rectum	Male Female	26 20	11 14		9 1		2	1
A 48	Malignant neoplasm of rectum	Male Female	19	11	1	6 3			1
A 49	Malignant neoplasm of larynx	Male	1	1					
A 50	Malignant neoplasm of trachea, and of bron- chus and lung not specified as secondary	Female	27	5	1		3	2	
A 51	Malignant neoplasm of breast	Female Male	52	1		1			
A 52	Malignant neoplasm of cervix uteri	Female Female	31 27	13		4			2 1
A 53	Malignant neoplasm of other and unspecified	and the second s							1
A 55	parts of uterus	Female	7	2		4		1	L
A 54	Malignant neoplasm of prostate	Male	26	12	1	3		1	L
A 55	Malignant neoplasm of skin	Male	4			2			
A 56	Malignant neoplasm of bone and connective	Female	1 1 2	1 26	1		1		1
	tissue	Male Female	35			1			
A 57	Malignant neoplasm of all other and unspeci- fied sites	Male	60	22					1
		Female	62	27	2	8			3 1
A 58	Leukaemia and aleukaemia	Male Female	13		3	9			
A 59	Lymphosarcoma and other neoplasms of lym- phatic and haematopoietic system	Male	10		5	3	1 2		
A 60	Benign neoplasms and neoplasms of unspeci-	Female	1	1					
	fied nature	Male Female	64		i	1			1
	III, IV. Allergic Disorders and Endocrine Metabolic and Blood Diseases	-	1000						
A 61	Nontoxic goitre	Male	1		1.5	1		1	
	Thyrotoxicosis with or without goitre	Female							
A 62		Female	1	1	1				
A 63	Diabetes mellitus	Female		5 1	8 1	0			$\frac{1}{3}$
A 64	Avitaminosis and other deficiency states	Male Female	1					1000	
A 65	Anaemias		5	5	5				
A 66			1						
	bolic and blood diseases	Male Female	32		3	3			5

# TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1952—Continued

	CAUSE OF DEATH (Intermediate List)	24	Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
	V. Mental, Psychoneurotic, and Personality Disorders								1
A 67	Psychoses	Male	3	2			1		
A 68	Psychoneuroses and disorders of personality	Female Male	2 4	2		1	****		
A 69	Mental deficiency	Female Male					****		L
	VI. Diseases of the Nervous System and Sense Organs	Female	1		1				1
A 70	Vascular lesions affecting central nervous		150	00			10	10	
	system	Male Female	152 149		65	1	5	13	3
A 71	Nonmeningococcal meningitis	Male Female	5	1	1010			1	
A 72	Multiple sclerosis	Male Female	22	1	1	1.1.1			
A 73	Epilepsy	Male Female	43	22	1				
A 74	Inflammatory diseases of eye	Male Female	****	****					ŀ
A 75	Cataract	Male Female							-
A 76	Glaucoma	Male Female							-
A 77	Otitis media and mastoiditis	Male Female	2 1	2					1
A 78	All other diseases of the nervous system and sense organs	Male Female	14 10	74		1		11	
	VII. Diseases of the Circulatory System	E. Martin		10.2					
A 79	Rheumatic fever	Male Female	12					1 March	1
A 80	Chronic rheumatic heart disease	Male	15	5 15	8	1	2	2	
A 81	Arteriosclerotic and degenerative heart disease	Male	542 246	254 105	218	2		26	5 1
A 82	Other diseases of heart	Male	30	8	17		4	1 2	
A 83	Hypertension with heart disease		14 43	19	18		29	4	
A 84	Hypertension without mention of heart		66 15	30 6	6		2		
A 85	Diseases of arteries	Female Male	11 38		20	1			3
A 86	Other diseases of circulatory system	Female Male Female	19 10 5	5		2	1		
	VIII. Diseases of the Respiratory System		-		1				1
A 87	Acute upper respiratory infections	Male Female	12	12					
A 88	Influenza	Male	47		1 2				
A 89	Lobar pneumonia	Male	14	7			1		L.
A 90	Bronchopneumonia	Male	35	17	18	3			1
A 91	Primary atypical, other and unspecified pneumonia	Male	6			3	1		1
A 92	Acute bronchitis	and the second second	11 2	3		3			
A 93	Bronchitis, chronic and unqualified	Female Male	6	2	4				-1
A 94	Hypertrophy of tonsils and adenoids		1						
A 95	Empyema and abscess of lung	Female Male		1		i			- 1
A 96	Pleurisy				1000000				
		Female		1	1000000				- 1

# TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1952—Continued

	AND OVER IN ALBERTA, 1952-	-Continue	eci				_		-
	CAUSE OF DEATH (Intermediate List)	10 10	Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
	IX. Diseases of the Digestive System								
A 98	Diseases of teeth and supporting structures	Male							
A 99	Ulcer of stomach	Female Male	6	4			1111	****	
A100	Ulcer of duodenum	Female Male	6 9. 3				1	-	
A101	Gastritis and duodenitis	Female Male Female	1						1
A102	Appendicitis	Male Female	3	1	1	1			
A103	Intestinal obstruction and hernia	Male	59	23	3				
A104	Gastro-enteritis and colitis, except diarrhoea of the newborn	Male Female	10	7	3				
A105	Cirrhosis of liver	Male Female	10	6	4				
A106	Cholelithiasis and cholecystitis	Male Female	4	1	10000				1
A107	Other diseases of digestive system	Male Female	56	2	24				
	X. Diseases of the Genito-Urinary System								
A108	Acute nephritis	Male Female	1		1				
A109	Chronic, other and unspecified nephritis	Male	18		12		2		1
A110	Infections of kidney	Male	32	3					
A111	Calculi of urinary system	Male Female	3	1	j				1
A112	Hyperplasia of prostate	Male	27	9	1:	5	1	2	
A113	Diseases of breast	Male Female			1			1.000	
A114	Other diseases of genito-urinary system	Male Female	1		1 1	L			
	XI. Deliveries and Complications of Preg- nancy, Childbirth and the Puerperium					1		1.13	
A115	Sepsis of pregnancy, childbirth and the puer- perium	Female							
A116	Toxàemias of pregnancy and the puerperium	Female	2						
A117	Haemorrhage of pregnancy and childbirth	Female							
A118	Abortion without mention of sepsis or		1	13				19	
Allo	toxaemia	Female			nie	1			
A119	Abortion with sepsis	Female	1			1			
A120	Other complications of pregnancy, childbirth and the puerperium	Female							
	XII, XIII. Diseases of the Skin and Musculo- skeletal System	1110							
A121	Infections of skin and subcutaneous tissue	Male Female							
A122	Arthritis and spondylitis	Male	1	1	1	2		. 1	
A123	Muscular rheumatism and rheumatism, unspecified		1				1		
A124	Osteomyelitis and perlostitis								
A125	Ankylosis and acquired musculoskeletal deformities	Malo							
A126	All other diseases of skin and musculoskeletal	Mala							
	system	Female	1						

# TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1952—Continued

_	AND OVER IN ALBERTA, 1952-	-Continue	ed.			_			
	CAUSE OF DEATH (Intermediate List)	1.	Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
	XIV. Congenital Malformations		-			1			
A127	Spina bifida and meningocele	Male	8	1			2		
	Congenital malformations of circualtory system	Female	6 12	24	4				4
A128		Female Male	16 17	47					1 0
A129	All other congenital malformations	Female	17	4	12		1		1.000
	XV. Certain Diseases of Early Infancy			1001					
A130	Birth injuries	Male Female	24 8	11		1		1	1
A131	Postnatal asphyxia and atelectasis	Male	27 11	54	19		2	1	2
A132	Infections of the newborn	Male Female	9	212	6	5	1		
A133	Haemolytic disease of new born	Maie	21 00 33	222	4		2		
A134	All other defined diseases of early infancy	Male	2333	21	1				
A135	Ill-defined diseases peculiar to early infancy,	Female	1000						
	and immaturity unqualified	Male Female	59 29	23 14	11	2	4		
	XVI. Symptoms, Senility and Ill-Defined Conditions				1 = 1				
A136	Senility without mention of psychosis	Male Female	6 2	22		ł			
A137	Ill-defined and unknown causes	Male Female	28 10	64	10		4	2	
	EXVII. Accidents, Poisonings and Violence (Classification According to External Cause)	-04							
AE138	Motor vehicle accidents	Male	62	22		3 1			1
AE139	Other transport accidents	Female Male	18 31	8	18		2	1	3
AE140	Accidental poisoning	Female Male	4	1					
AE141	Accidental falls	Female Male	1 26	1 15	1	5	1		1
AE142	Accident caused by machinery	Female Male	17	10		1		1000	
AE143	Accident caused by fire and explosion of	Female							
	combustible material	Male Female	32	1		3			
AE144	Accident caused by hot substance, corrosive hot liquid, steam, and radiation	Male	1	1					
AE145	Accident caused by firearm	Female Male	2	1		i		1000	
AE146	Accidental drowning and submersion	Female Male	13	5	-	1 1	1		1 1
AE147	All other accidental causes	Female Male	17	5		8	1 3		i
AE148	Suicide and self-inflicted injury	Female Male	21	15	1	4	2		1 1
AE149	Homicide and injury purposely inflicted by	Female	8	2	1	4 1	1		
	other persons (not in war)	Male Female	1			1			
AE150	Injury resulting from operations of war	Male Female							
	NXVII. Accidents, Poisonings and Violence (Classification according to Nature of Injury)								
AN138	Fracture of skull	Male	44			5 1			1
AN139	Fracture of spine and trunk	Female Male	10	1		3			1
AN140	Fracture of limbs	Female Male	1 8			3	1 1		1
AN141	Dislocation without fracture	Female Male	15	7		8			
		Female			1		.	.]	

TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1952—Continued

	CAUSE OF DEATH (Intermediate List)		Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
AN142	Sprains and strains of joints and adjacent muscles	Male							
AN143.	Head injury (excluding fracture)	Female Male Female	21	93	8			4	
AN144	Internal injury of chest, abdomen, and pelvis	Male	4 47 8	13	26 5	1	4	2	
AN145	Laceration and open wounds	Male Female	832		2		1	1	
AN146	Superficial injury, contusion and crushing with intact skin surface	Male	1	1					
AN147	Effects of foreign body entering through orifice	Female Male	5	2	2		1		-
AN148	Burns	Female Male Female	2 6 1 3 6	1	5				
AN149	Effects of poisons	Male	36	12	1 4				
AN150	All other and unspecified effects of external causes	Male Female	42	92	24 4		3	1	

# TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1952—Continued

EDMONTON, 1952 AGES	Not stateq         82+ Aears         80-84 Aears         12-13 Aears         90-94 Aears         32-33 Aears         32-33 Aears         50-54 Aears         50-54 Aears	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \hline \hline$							11					
AND SEX, BY AGE, IN	20-59 X6912 12-13 X6912 2-3 X6912 3 X6912 5 X6912 5 X6912 1 X6912 5	162         9         6         3         2         12         3         11           98         5         1         3         2         7         2         9         1           98         5         1         3         2         7         2         9         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         1         2         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3 </th <th></th> <th><b>1</b></th> <th></th>		<b>1</b>											
DEATHS BY CAUSE	Total	Total 1319 10 Male 827 1 Female 492	Male 5 Female 4		Acri had h		Female Z Male	Male			Male 4	Male	Male	ions Male	Female
TABLE A-DEATHS	CAUSE OF DEATH (Intermediate List)	ALL CAUSES I. Infective and Parasitic Diseases	A 1 Tuberculosis of the respiratory system	A 2 Tuberculosis of meninges and central nervous system	•	A 4 Tuberculosis of bones and joints A 5 Tuberculosis, all other forms	A 6 Congenital syphills	A 7 Early syphilis	A 8 Tabes dorsalis	A 9 General paralysis of insane	A 10 All other syphilis	A 11 Gonococcal infection	A 12 Typhoid fever	A 13 Paratyphoid fever and other Salmonella infections Male	A 14 Cholera

1952-Continued
EDMONTON,
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SEX, BY
AND
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THS BY
A-DEA
TABLE

1	Not stated	
	82+ Xests	
	80-84 Years	
	12-19 Xears	
	20-14 Years	
	65-69 years	
	en-e4 %ests	H MAHNA
	22-29 A6912	
	20-24 X6912	
AGES	42-49 A6912	
AC	40-44 Xests	
	30-24 A6918	
	52-59 Aests	
	S0-54 Aests	
	12-19 Aests	
	10-14 years	
	2-3 AGBLS	
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	Under 1 year	
	Total	13 4 14 1 1 3 3 6 4 9 3 3 3 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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		Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female
	CAUSE OF DEATH (Intermediate List)	Hydatid disease Filariasis Ankylostomiasis Ankylostomiasis Other diseases due to helminths All other diseases classified as infective and parasitic All other diseases classified as infective and malignant neoplasm of buccal cavity and pharynx Malignant neoplasm of otecal cavity and pharynx Malignant neoplasm of stomach Malignant neoplasm of stomach Malignant neoplasm of intestine, except rectum Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary Malignant neoplasm of breast Malignant neoplasm of breast Malignant neoplasm of cervix uteri Malignant neoplasm of cervix uteri Malignant neoplasm of other and unspecified parts of uterus Malignant neoplasm of prostate
		A 39 A 40 A 41 A 42 A 43 A 43 A 44 A 44 A 44 A 44 A 44 A 44

LE A-DEATHS BY CAUSE AND SEX, BY AGE, IN EDMONTON, 1952-Continued

30-34 years 25-29 years 20-24 years 10-14 years 4 years 3 years 2 years 2 years 2 years 2 years 2 years 2 years			Male 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Male Female Male 1	Male m m m m m m m m m m m m m m m m		of Pregnancy, rium	id the puer- Female	uerperium Female (	uldbirth Female	s or toxaemia Female		childbirth and Female
CAUSE OF DEATH (Intermediate List)	X. Diseases of the Genito-Urinary System	Acute nephritis Acute nephritis Chronic, other and unspecified nephritis	Infections of kidney	Calculi of urinary system Hymericasis of prostate	Diseases of breast	Other diseases of genito-urinary system.	XI. Deliveries and Complications of Pregnancy, Childbirth and the Puerperium	A115 Sepsis of pregnancy, childbirth and the puer- perium	Toxaemias of pregnancy and the puerperium	Haemorrhage of pregnancy and childbirth	Abortion without mention of sepsis or toxaemia	Abortion with sepsis	Other complications of pregnancy, childbirth and the puerperium
EATH List)	ienito-Urinary S	unspecified neph	tey	system	t	genito-urinary sys	I Complications of and the Puerperin	cy, childbirth and	mancy and the pue	regnancy and child	mention of sepsis	sis	ns of pregnancy, cl

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TABLE A-DEATHS BY CAUSE AND SEX, BY AGE, IN EDMONTON, 1952-Continued

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XII, XIII. Diseases of the Skin and Musculo- skeletal System       Musculo- skeletal System         Al21       Infections of skin and subcutaneous tissue       Male         Al22       Arthritis and spondylitis       Male         Al23       Muscular rheumatism and rheumatism, unspecified       Male         Al24       Osteonyelitis and periostitis       Male         Al25       Ankylosis and acquired musculoskeletal       Male         Al26       Osteonyelitis and periostitis       Male         Al27       Osteonyelitis and musculoskeletal       Male         Al28       Ankylosis and acquired musculoskeletal       Male         Al28       Al1 other diseases of skin and musculoskeletal       Male	XIV. Congenital Malformations A127 Spina bifida and meningocele A128 Congenital malformations of circulatory system A129 All other congenital malformations	A130       Birth injuries       Male         A131       Postnatal asphyxia and atelectasis       Male         A132       Infections of the newborn       Fema         A133       Haemolytic disease of newborn       Male         A134       All other defined diseases of early infancy.       Male         A135       Ill-defined diseases of early infancy.       Male         A135       Ill-defined diseases peculiar to early infancy.       Male         A135       Ill-defined diseases peculiar to early infancy.       Male	XVI. Symptoms, Senility, and III-Defined Conditions A136 Senility without mention of psychosis A137 III-defined and unknown causes

	CAUSE OF DEATH (Intermediate List)	EXVII. Accidents, Poisonings and Violence (Classification according to External Cause) Male Fema	AE138       Motor vehicle accidents       Male         AE130       Other transport accidents       Fema         AE140       Accidental poisoning       Fema         AE141       Accidental poisoning       Fema         AE142       Accidental poisoning       Fema         AE143       Accident caused by machinery       Fema         AE143       Accident caused by hot substance, corrosive       Male         AF144       Accident caused by hot substance, corrosive       Fema         AE145       Accident caused by firearm       Male         AF144       Accident caused by firearm       Fema         AE145       Accident caused by firearm       Male         AE146       Accident caused by firearm       Fema         AE147       Accident caused by firearm       Male         AE146       Accident caused by firearm       Male         AE147       Accident caused by firearm       Male         AE146       Accident caused by firearm       Male         AE147       Accident caused by firearm       Male         AE146       Accident caused by firearm       Male         AE146       Accident causes       Fema         AE147       All other accidental causes       Male
-		[e ]	Male Female Male Female Male Female Male Female Male Female Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female
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	12-16 A6912	1101	
	20-24 Years	1 12	
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A	32-33 AGULS	113	
AGES	42-49 X6912	- 10 00	
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	70-74 years	<u>1041</u>	юн : : : : : : : : : : : : : : : : : : :
	75-79 years	10 00 01	
	80-84 Years		
	85+ years	040	H
	Not stated	4-10	

TABLE A-DEATHS BY CAUSE AND SEX, BY AGE, IN EDMONTON, 1952-Continued

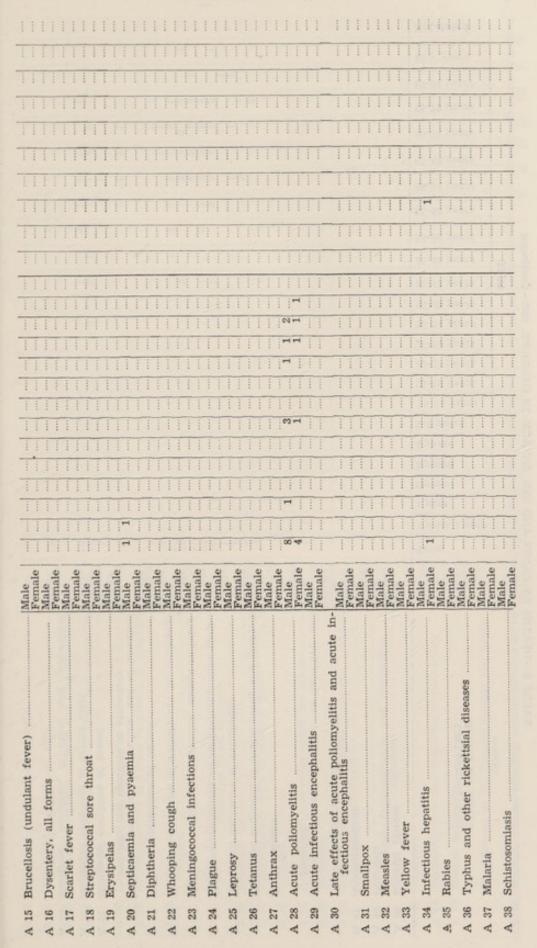
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causes				 	 	1



	CAUSE OF DEATH (Intermediate List)	AUSES	stem	Tuberculosis of meninges and central nervous system	Tuberculosis of intestines, peritoneum and mesen- teric glands	Tuberculosis of bones and joints	Tuberculosis, all other forms	Congenital syphilis	Early syphilis	Tahae dorealie	Incone		All other sypnilis	Gonococal infection	Typhoid fever	Paratyphoid fever and other Salmonella infections Male	Cholera
		Total 1 Male Female	Male	Male Female	2	Female	Male	Male	Female	Female	Female	Female	Female	Male	Male	Female	Female
-	Total	749 483	00 10	11	1	11	11	11	11	-	-	1 0	000		11	11	11
	Under 1 year	107 66 41				11	11	11	11	1	T	11	11		11	11	11
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	2-9 Aests	10 00 00	-	11	1	11	11	11	11		-	11	11	-	11	11	11
	10-14 years	000	11	11		11	11	11	11	1	1	11	11		11	11	11
	12-19 Years	00 10 00	11	11		11	11	11	11	1	1	11			11	11	11
	52-59 years	33				11		11	11				11	-	11	11	11
	SJUBA 42-02	14 26 7 18 8		11		11	11		11	-	:		1 1	-		1 1	
	32-39 Xests	8 19 8 14 8 14		11		11	11	-	11		-		11				1 1
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23	45-49 years	10 22		11		11	1	11			1				11	11	
	20-24 Aests	56 41 15	1		1	11		11	11		1	11	1 1	-			11
	22-23 Xests	78 27	11	11		11	11	11	11	1-	-	11			11		1.1
	60-64 years	139 96 43	11	11		11	11	11	11	1	1				11	11	11
	65-69 years	156 109	11	11		11	11	11	11				11	1	11	1.1	11
	70-74 years	187 99 88	-	11		11	11	11	11	11				i	11	11	11
	75-79 years	139 73 66	11	11	1	11	11	1.1	::	1 1			-	:		11	: :
	80-84 Years	97 39 39	14	11	:	11	11	11	11	11	1.1		11	1		1 1	1 1
	82+ Aests	91 45 46		11	1	11	11	11	11	11	11		8.8	1		1 1	11
	Not stated						-										

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# TABLE B-DEATHS BY CAUSE AND SEX, BY AGE, IN CALGARY, 1952-Continued

		VITAL STATISTICS BRANCH
1	Not stated	
	82+ Xests	
	80-84 Years	
	12-13 Aests	
	10-14 Years	
	65-69 years	
	60-64 years	
	22-23 Assts	
	20-24 Jests	<b>H N H N H N H N H N H H H H H H H H H H</b>
S	42-49 Aests	
AGES	40-44 A6918	HØ           0
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	30-34 Xests	
	25-29 years	
	20-24 Years	
	12-19 Years	
	10-14 Years	
	2-9 Years	
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1	i fille	Male Female Male Female Female Female Male Female Female Male Female Female Female Female Female Female Female Female Female Female Female
	CAUSE OF DEATH (Intermediate List)	latid disease interchance interchance in the complexity and parasitie interchance is a solution of the context and parasitie interchance is interchance interchance interchance interchance is a secondary and pharynx ignant neoplasm of the context and of bronchus ignant neoplasm of larynx ignant neoplasm of the context and of bronchus and lung not specified as secondary ignant neoplasm of cervix uteri ignant neoplasm of other and of bronchus ignant neoplasm of the context and of bronchus and lung not specified as secondary ignant neoplasm of the cervix uteri ignant neoplasm of other and of bronchus and lung not specified as secondary ignant neoplasm of the cervix uteri ignant neoplasm of other and unspecified barts of uterus of uterus of uterus is a secondary is the cervix uteri ignant neoplasm of the cervix uteri ignant neoplasm of other and unspecified barts of uterus of uterus is secondary is the cervix uteri ignant neoplasm of other and unspecified barts of uterus is the cervix uteri ignant neoplasm of the cervix uteri ignant neoplasm of other and unspecified barts of uterus is the cervix uteri ignant neoplasm of uter ignant neoplasm of the cervix uteri ignant neoplasm of uter ignant neoplasm of the cervix uteri ignant neoplasm of uter ignant neoplasm of the cervix uteri ignant neoplasm of uter ignant neoplasm of the cervix uteri ignant neoplasm of uter ignant neoplasm of the cervix uter ignant neoplasm of uter ignant neoplasm of the cervix uter ignant neoplasm of the cervix uter
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Malignant neoplasm of prostate Male Malignant neoplasm of skin Male Malignant neoplasm of bone and connective tissue Male Malignant neoplasm of all other and unspecified sites female Leukaemia and aleukaemia Female	Lymphosarcoma and other neoplasms of lymphatic Male and haematopoietic system Eenign neoplasms and neoplasms of unspecified Male nature nature Female	III, IV. Allergic Disorders and Endocrine Meta- bolic and Blood Diseases Nontoxic soltre	Thyrotoxicosis with or without goitre	Avitaminosis and other deficiency states Anaemias Anaemias Anaemias Anaemias Anaemias Anaemia Anaemia Anaemia Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female F	V. Mental, Psychoneurotic, and Personality Disorders Psychoses Psychoneuroses and disorders of personality Psychoneuroses and disorders of personality Male Male Male Female Female	A 70 Vascular lesions affecting central nervous system Male
A 54 A 55 A 55 A 56 A 57 A 57 A 58	A 59 A 60	A 61	A 62 A 63 A 63	A 64 A 65 A 65	A 67 A 68 A 68	A 70

Image: Construction     20-24 A6912       Image: Construction     20-24 A6912       Image: Construction     42-43 A6912       Image: Construction     40-44 A6912       Image: Construction     92-23 A6912       Image: Construction     90-34 A6912	Image: Second	Панта по 28 п
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TABLE B-DEATHS BY CAUSE AND SEX, BY AGE, IN CALGARY, 1952-Continued

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87 88 89 90	91 92 93	A 94 Hyperuophy of tonsus and ad A 95 Empyema and abscess of lung A 96 Pleurisy A 97 All other respiratory diseases	IX. Diseases of the Digestive SysteA 98Diseases of teeth and supporting sA 99Ulcer of stomachA100Ulcer of duodenumA101Gastritis and duodenitisA102AppendicitisA103Intestinal obstruction and herniaA104Gastro-enteritis and colitis, exceptA105Cirrhosis of liverA106Cholelithiasis and cholecystitisA107Other diseases of digestive system

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CAUSE OF DEATH (Intermediate List)		Total	I Year	5 Years	3 Years	4 Aests	10-14 Aests	12-19 Aests	20-24 years	25-29 years	30-34 A6912	40-44 Xeurs	42-49 years	20-24 X69L2	22-23 Xeurs	STPAY 48-08	65-69 years	70-74 years	12-19 Years	80-84 years	85+ years	betets toN
X. Diseases of the Genito-Urinary System							_	-														
A108 Acute nephritis	Male	1		1		1			1			-	-	1	-			1				:
A109 Chronic, other and unspecified nephritis	Male	40	11	11		11	11	11	11	11	11-	11	11	1 1	TT	1	-	2	11	1 1		
A110 Infections of kidney	Male Female	100		11	11	11			11	11	-		1 1	1 1	1 1			-	-		1 1	
A111 Calculi of urinary system	Male	F		11	11	11			11	11	11	11	1 1	11								
A112 Hyperplasia of prostate	Male	6		11.	11	11		11	11	11	11	11	11	I.F		-		6.1	01	64		-
A113 Diseases of breast	Male				1	1			1	1	1		-				-					
A114 Other diseases of genito-urinary system	Female	F			111	111			111		[ ] ]		111		1 1 1 1 1 1			FTF				
XI. Deliveries and Complications of Pregnancy, Childbirth and the Puerperium														-								
A115 Sepsis of pregnancy, childbirth and the puer- perium	Female	1			1	1			1	1												
Al16 Toxaemias of pregnancy and the puerperium	Female	63				-		-	-	1	1	-	-	-			1	:				
A117 Haemorrhage of pregnancy and childbirth	- Female				1	i				1		:	1		1						:	
All8 Abortion without mention of sepsis or toxaemia	Female	1				-		-		1	1							-				
A119 Abortion with sepsis	Female	1	-		-	I	-	1	-	1	1		1		-		-	-				
A120 Other complications of pregnancy, childbirth and the puerperium	d Female			-			-										-	-				

TABLE B-DEATHS BY CAUSE AND SEX, BY AGE, IN CALGARY, 1952-Continued

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XII, XIII. Diseases of the Skin and Musculo- skeletal System	A121 Infections of skin and subcutaneous tissue	A122 Arthritis and spondylitis	A123 Muscular rheumatism and rheumatism, unspecified	A124 Osteomyelitis and periostitis	A125 Ankylosis and acquired musculoskeletal deformities	A126 All other diseases of skin and musculoskeletal system	XIV. Congenital Malformations	A127 Spina bifida and meningocele	A128 Congenital malformations of circulatory system	A129 All other congenital malformations	XV. Certain Diseases of Early Infancy	A130 Birth injuries	A131 Postnatal asphyxia and atelectasis	A132 Infections of the newborn	A133 Haemolytic disease of new born	A134 All other defined diseases of early infancy	A135 Ill-defined diseases peculiar to early infancy, and Male immaturity unqualified Fema	XVI. Symptoms, Senility, and Ill-Defined Conditions	Al36 Senility without mention of psychosis	A137 Ill-defined and unknown causes
	A	Y	A	A	A	A		A	A	A		A	A	A	A	Å	A		A	A

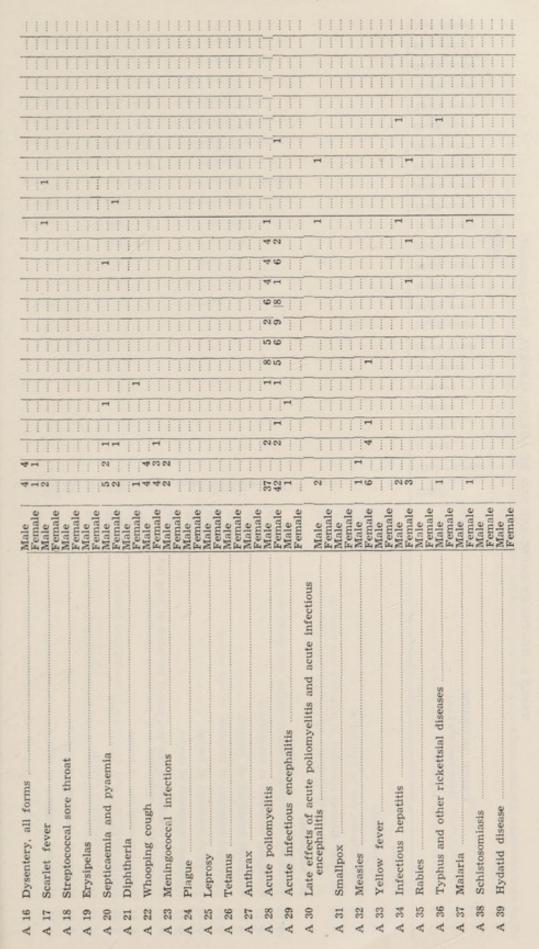
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		ece (			1	1	F	osi				by	
	CAUSE OF DEATH (Intermediate List)	EXVII. Accidents, Poisonings and Violence (Classification according to External Cause)	Motor vehicle accidents	Other transport accidents	Accidental falls	Accident caused by machinery	Accident caused by fire and explosion of com- bustible material	AF144 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-infileted injury	Homicide and injury purposely inflicted by other Male	AE150 Injury resulting from operations of war

Z B--DEATHS BY CAUSE AND SEX, BY AGE, IN CALGARY, 1952-Continued

AN138       Fracture of skull       Male       2a       1       1       2       1       3       6       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<		NXVII. Accidents, Poisonings and Violence (Classification according to Nature of Injury)	Total 8 Male 6 Female 2	24 12 3			61 61	1 1			0000	1911	11-1		19 00 00	910 =	-100		0.01		000	1014	111
	AN138	Fracture of skull	-	44	I	1			- 115	1		9-		1	63						1	1	E
	AN139			0-1-	11	11	-			11		1	•	11			1 1				• [*	11	11
$ \begin{array}{c} \label{eq:product} \text{Dislocation without fracture} \\ \mbox{Female} \\ \$	AN140	Fracture of limbs	_	1 00 0	11	11								1 1	-			1 1		-		0	11
Sprains and strains of joints and adjacent muscles Male Fermale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremale Fremal	AN141				11	11							111	1 1 1			1 1 1				1	1	
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	AN144	Internal injury of chest, abdomen, and pelvis	Male I Female		11	11				61	1	-	11	11		4			61				
	AN145	Laceration and open wounds	Male		11	11			11					111	-						11		11
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	AN146	Superficial injury, contusion and crushing with intact skin surface	Male 1		1									1	I					1	1	I	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	AN147	Effects of foreign body entering through orifice-	Female Female		TT	111			111		1 1 1		[]]		111	111	111	1 1 - 1	111	111		[]]	
Effects of poisons       Mate       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	AN148		Male		1		-		1	-	-		1				1	1	1		1	1	
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		Total 7345 Male 4561	FCHIAIC	Male	Male	glands Male				Male			Female		Male	*********			[Female ]
	CAUSE OF DEATH (Intermediate List)	Total 7345 Male 4561	FCHIAIC	Male	Male	glands Male				Male					Male	*********			Female
		Total	FCHIAIC	Male	Male	glands Male										*********			[Female ]
		Total	FCHIAIC	Male	Male	glands Male										*********			Female
		Total	FCHIAIC	Male	Male	glands Male										*********			Female
		Total	FCHIAIC	Male	Male	glands Male										*********			[Female]
		Total	I. Infective and Parasitic Diseases	Tuberculosis of respiratory system	Tuberculosis of meninges and central nervous system	Tuberculosis of intestines, peritoneum and mesenteric glands Male	Tuberculosis of bones and joints	Tuberculosis, all other forms	Congenital syphilis	Early syphilis	Tabes dorsalis	General paralysis of insane	All other syphilis	Gonococcal infection	Typhold fever	Paratyphoid fever and other Salmonella infections	Cholera	Brucellosis (undulant fever)	[Female ]
		ALL CAUSES ALL CAUSES Male 4561	FCHIAIC	Male	Male	glands Male										*********		Brucellosis (undulant fever)	Female

TABLE 8-DEATHS BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1952



## TABLE 8-DEATHS BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1952-Continued

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		Filariasis Ankylostomiasis Other diseases due to helminths	All other diseases classified as infective and parasitic Male Female	II. Neoplasms Malignant neoplasms of buccal cavity and pharynx Male	Malignant neoplasm of oesophagus	Malignant neoplasm of stomach Male Female	Malignant neoplasm of intestine, except rectum	Mailgnant neoplasm of rectum	Malignant neoplasm of larynx	Malignant neoplasm of trachea, and of bronchus of lung not specified as secondary	Malignant neoplasm of breast	Malignant neoplasm of cervix uteri	Malignant neoplasm of other and unspecified parts of uterus Female	Malignant neoplasm of prostateMale	Malignant neoplasm of skin
			Female Male Female	Male	Female Male	Male 1 Female	Male	Mailgnant neoplasm of rectum	49 Malignant neoplasm of larynx	mot Male	Remark	Female	uterus Female	Male	Female

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A 57 A 58	Malignant neoplasm of all other and unspecified sites	Male	147	-	-	-		_	-	2 1	4	
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23	Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system	Male	5 12	-	-			-	-			-
09	Benign neoplasms and neoplasms of unspecified nature $\frac{1}{2}$	Female	122	-		H			4.14	11		
	III, IV. Allergic Disorders and Endocrine Metabolic and Blood Diseases											
61	Nontoxic goitre	Male	01-	1	-					2		4.4
62	Thyrotoxicosis with or without goitre	Male	100 10								-	
63	Diabetes milletus	Male	48	1			1 1		1 1		11	
64	sis and other deficiency states	Male	01 01 0	11-	11	11	11	1 1	11		11	
A 66	Allergic disorders; all other endocrine, metabolic and blood diseases	Female	9 12									1 1
		Female	3	N	-	-			1	-		
2	1, Psychoneurotic, and Personality Disorders	Mala	M	-			-	-				_
A 67	Psychoses and other disorders of personality	Female	ה מו מ	11	111							
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RO	Mental dencency	Female	0	01	T		-	-	-			
	VI. Diseases of the Nervous System and Sense Organs											
A 70	Vascular lesions affecting central nervous system	Male	371 356			11	11	11	11	TI	11	
A 71	Nonmeningococcal meningitis	Male	12	90	-	F	11		-		1 1	
A 72	Multiple sclerosis	Male	410	1	-		11		11		1 1	
A 73	Epilepsy	Male				11	11	11	11	1 1	01	
A 74	Inflammatory diseases of eye	Male			1	1		-	-			

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## TABLE 8-DEATHS BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1952-Continued

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	CAUSE OF DEATH (Intermediate List)	Male		of the Circulatory System		art disease						of the Respiratory System		Male	
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	CAUSE OF DEATH (Intermediate List)			Diseases of the Circulatory System		art disease						Diseases of the Respiratory System			
	CAUSE OF DEATH (Intermediate List)			II. Diseases of the Circulatory System		art disease						III. Diseases of the Respiratory System			
	CAUSE OF DEATH (Intermediate List)	Cataract Glaucoma	Otitis media and mastoiditis	VII. Diseases of the Circulatory System	Rheumatic fever	Chronic rheumatic heart diseases Arteriosclerotic and degenerative heart disease	Other diseases of heart	Hypertension with heart disease	Hypertension without mention of heart	Diseases of arteries	Other diseases of circulatory system	VIII. Diseases of the Respiratory System	Acute upper respiratory infections	Influenza	Lobar pneumonia
	CAUSE OF DEATH (Intermediate List)			VII. Diseases of the Circulatory System		art disease	Other diseases of heart					VIII. Diseases of the Respiratory System			

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	CAUSE OF DEATH (Intermediate List)	-		XI. Deliveries and Complications of Pregnancy, Childbirth and the Puerperium	A115 Sepsis of pregnancy, childbirth and the puerperium Female	A116 Toxaemias of pregnancy and the puerperiumFemale	A117 Haemorrhage of pregnancy and childbirth	A118 Abortion without mention of sepsis or toxaemia Female	A119 Abortion with sepsis Female	A120 Other complications of pregnancy, childbirth and the puerperium Female	XII, XIII. Diseases of the Skin and Musculoskeletal System		Female		

TABLE 8-DEATHS BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1952-Continued

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		Ma	Fee	Fee	Fe	Ma	Fe		Fe	N <sup>2</sup> S	Mar	New	Fe
	CAUSE OF DEATH (Intermediate List)		Accidents caused by hot substance, corrosive liquid, steam, and radiation Accident caused by firerarm	Accidental drowning and submersion	Suicide and self-inflicted injury	Homicide and injury purposely inflicted by other persons (not in war)	Injury resulting from operations of war NXVII. Accidents Poisonings and Violence (Classification	According to Nature of Injury)	Fracture of spine and trunk	Fracture of limbs	Dislocation without fracture	Sprains and strains of joints and adjacent muscles	Head injury (excluding fracture)
			AE144 AC AE145 AC	AE146 AC		AE149 Ho	AE150 Inj		AN138 FT	AN140 Fr	AN141 Di	AN142 Sp	AN143 He

TABLE 8-DEATHS BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1952-Continued

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Male Female Male Female Male	Male 12 Female 12 Female 16 Female 23 Female 14 Female 12 Male 12 Female 22
Male         1           Female         Male           Male         Female           skin         Male           Female         Female	Male 12 Female 15 Female 16 Female 33 Male 14 Female 12 Female 12 Female 23
Male 1 Female Male temale Female Eenale Male Female	Male Female Male Female Male Male Female Female
n intact skin Female Male Female Female Female	Male Female Male Female Male Male Female Female
Male Female Male Intact skin Female Female	AN147 Effects of foreign body entering through orifice Male 12 AN148 Burns Male 15 AN148 Burns AN149 Effects of burns Male 34 AN150 All other unspecified effects of external causes Male 12 Female 24 Male 12 Female 12

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30       Late effects of acute poliomyeitits and acute infectious         31       Encephalitis       1       1       1       1       1         31       Smallpox       2       1       1       1       1       1       1         32       Male       6       3       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	29		Male	1	1			1	-	1		1		11	1 1
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32       Measles       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<	31		Female	1 1			-		-					-	-
33Yellow fever $\mathbf{b}$ $\mathbf{c}$ $\mathbf{d}$ $1$ $\mathbf{c}$ $\mathbf$	32		Male				1								
33Yellow rever34Infectious hepatitis1111134Infectious hepatitis2111111135Rabies3Typhus and other rickettsial diseasesMale11111136Typhus and other rickettsial diseasesFemale111111137MalariaFemale11111111138SchistosoniasisMale11111111139Hydatid diseaseMale111111111139Hydatid disease11111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <td>-</td> <td></td> <td>Female</td> <td>0</td> <td>0</td> <td></td> <td>-</td> <td>1</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>4</td> <td>1 1</td>	-		Female	0	0		-	1	-	-				4	1 1
34       Infectious hepatitis       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	33		Female					1							
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35       Rabies       mate			Female	2					-	-			1	1	
36       Typhus and other rickettsial diseases       Material       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td< td=""><td>35</td><td></td><td>Male</td><td>1111</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></td<>	35		Male	1111		-									1
37       Malaria       Image:	90		Male	I									1	1	
37 Malaria       Male       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       <	00		Female									1			1
38 Schistosomiasis       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	37		Male	-				and a							1
38 Schistosomiasis			Female	1		-		1	-	1				1	
39 Hydatid disease male male male market ma	38	histosomiasis	Wale Wanda	****								. 1		1	1
That a second manager and the second ma	00	udatid dieasea	Male				-				1				
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Mal Mal Leu Luyr Lyr Ber MII,	<ul> <li>A 61 Nontoxic goitre</li> <li>A 62 Thyrotoxicosis with or without goitre .</li> <li>A 63 Diabetes milletus</li> <li>A 64 Avitaminosis and other deficiency states</li> <li>A 65 Anaemias</li> <li>A 66 Allergic disorders; all other endocrine, metabolic diseases</li> </ul>	<ul> <li>V. Mental, Psychoneurotic, and Personality Disor</li> <li>Fsychoses</li> <li>Fsychoneuroses and other disorders of personality</li> <li>Mental deficency</li> </ul>	<ul> <li>VI. Diseases of the Nervous System and Sense 0</li> <li>70 Vascular lesions affecting central nervous system</li> <li>71 Nonmeningococcal meningitis</li> <li>72 Multiple sclerosis</li> <li>73 Epilepsy</li> <li>74 Inflammatory diseases of eye</li> </ul>

## TABLE 9-CAUSE OF DEATH BY SEX AND MONTH IN ALBERTA, 1952-Continued

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	Ishie	Male Female Female Female Female Female Female Female Female Male Female Female Female Female Female Female Female Female Female Female Female	Female
	CAUSE OF DEATH (Intermediate List)	Cataract	Lobar pneumonia
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<ul> <li>A 90 Bronchopneumonia</li> <li>A 91 Primary atypical, other and unspecified pneumonia</li> <li>A 92 Acute bronchitis</li> <li>A 93 Bronchitis, chronic and unqualified</li> <li>A 94 Hypertrophy of tonsils and adenoids</li> <li>A 95 Empyema and abscess of lung</li> <li>A 96 Pleurisy</li> <li>A 97 All other respiratory diseases</li> <li>A 98 Diseases of the Digestive System</li> <li>A 99 Ulcer of stomach</li> <li>A 100 Ulcer of stomach</li> <li>A 100 Ulcer of duodentits</li> <li>A 101 Ulcer of duodentits</li> <li>A 102 Appendicitis and duodentits</li> <li>A 103 Antal obstruction and hernia</li> <li>A 104 Cirrhosis of liver</li> <li>A 105 Cirrhosis of liver</li> <li>A 106 Cholelithiasis and cholecystitis</li> <li>A 107 Other diseases of digestive system</li> <li>A 108 Cholelithiasis and cholecystitis</li> <li>A 109 Other diseases of digestive system</li> </ul>	A108Acute nephritisA109Chronic, other than unspecified nephritisA110Infections of kidneyA111Calculi of urinary system

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TABLE 9-CAUSE OF DEATH BY SEX AND MONTH IN ALBERTA, 1952-Continued

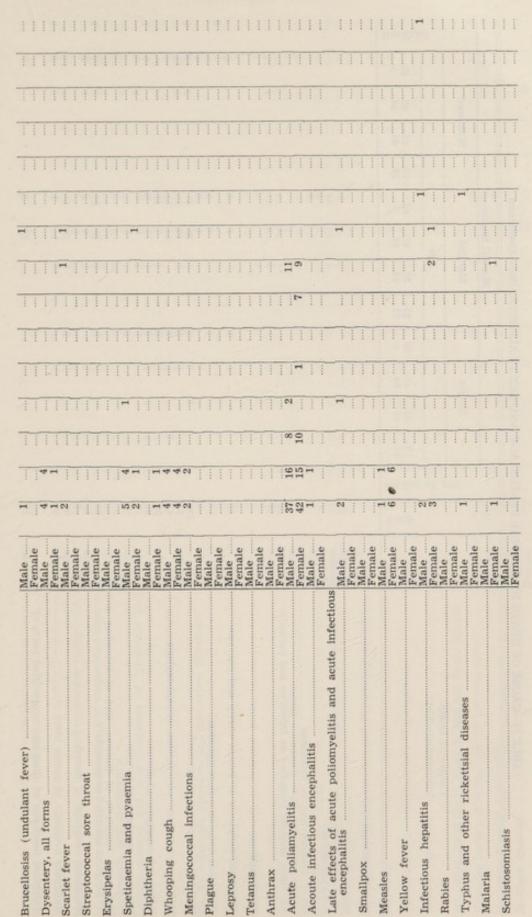
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BY SEX AND MONTH IN ALBERTA, 1952-Continued		Male Female Male Female Female Male Female Male Female Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Female Female Female Female
TABLE 9-CAUSE OF DEATH BY	CAUSE OF DEATH (Intermediate List)	AE143       Accidents caused by fire and explosion of combustible material         AE144       Accidents caused by hot substance, corrosive liquid, steam, and radiation         AE145       Accident caused by firerarm         AE146       Accident aused by firerarm         AE147       All other accidental causes         AE148       Suicide and self-inflicted injury         AE149       Homicide and injury purposely inflicted by other persons (not in war)         AE149       Injury resulting from operations of war         AE150       Injury resulting from operations of war         AE151       Fracture of skull         AN133       Fracture of skull         AN130       Fracture of skull         AN140       Fracture of skull         AN141       Dislocation without fracture         AN142       Sprains and strains of joints and adjacent muscles         AN143       Head injury (excluding fracture)         AN141       Dislocation without fracture         AN142       Sprains and strains of joints and adjacent muscles         AN143       Head injury (excluding fracture)         AN144       Internal injury of chest, abdomen, and pelvis

BLE 9-CAUSE OF DEATH BY SEX AND MONTH IN ALBERTA, 1952-Continued

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list no.	Causes of Death (Intermediate List)			X SI						Age							In
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I.—Infecti	IInfective and Parasitic Diseases																
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A 2 Tuberculos	Tuberculosis of meninges and central nervous system	Female Male	Q 00 0	200	110	N	11		<del>4</del> ;•	0	4	•	1 1	11	N	4	11
A 3 Tuberculos	Tuberculosis of intestines, peritoneum and mesenteric	Male	10	57	1	1	1	1	-	i	-	1	1	1		1	
A 4 Tuberculos	Tuberculosis of bones and joints	Female	6	-		-		11									
10	Tuharenlosis all other forms	Female		1	-		1			-				1			
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A 10 All other syphilis	synhilis	Female	17				4	-		1	. 4	9					
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A 13 Paratyphoi	Paratyphoid fever and other Salmonella infections	Male	1		I	I	1	T			T	1	1		-	T	
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Late effects of encephalitis

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Infectious hepatitis

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Yellow fever

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Tetanus Anthrax

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Dysentery, all forms

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Scarlet fever

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Erysipelas

Diphtheria

Whooping cough

TABLE 10-CAUSE OF DEATH BY MARITAL STATUS, AGE AND SEX IN ALBERTA, 1952-Continued

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		Causes of Death (Intermediate List)			Filariasis A structionicais	hue to helminths	All other diseases classified as infective and parasitic	II.—Neoplasms	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	Malimant neonlasm of breast	Malignant neoplasm of cervix uteri	Malignant neoplasm of other and unspecified parts of uterus
	Int.	list		A 39	A 40	A 42	A 43		A 44	A 45	A 46	A 47	A 48	A 49	A 50	A 51	A 52	A 53

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Male   60	Male 5	1	1	1	and Male 21	Female 11 Male 15 Female 12				Female 5 Male 48	le	e	Female 6 Male 57 Female 25	2	Male	Male Female Male	Male Female Male Male Male	Male Female Male Female Male Female	Male Female Male Male Female Female	Male Female Male Female Female Male	Male Female Male Female Female Female Male	Male Female Male Female Female Female Male Female	Male Female Male Female Female Female Female Famale
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	Lymphosarcoma and othe neoplasm of lymphatic haematopoietic system	Benign neoplasm and neoplasms of unspecified nature	III., IV.—Allergic Disorders and Endocrine, Metabolic and Blood Diseases	Nontoxic goitre	Thyrotoxicosis with or without goitre			Avecamine	Allegic disorders; all other endocrine, metabolic blood diseases	VMental, Psychoneurotic, and Personality Disorders	Psychoses	Psychoses Psychoneuroses and disorders of personality	Psychoses Psychoneuroses and disorders of personality Mental deficiency	Psychoses and disorders of personality Mental deficiency	Psychoses Psychoneuroses and disorders of personality Mental deficiency VI.—Diseases of the Nervous System and Sense Organs	Psychoses Psychoneuroses and disorders of personality Mental deficiency VI.—Diseases of the Nervous System and Sense Orga Vascular lesions affecting central nervous system	Psychoses Psychoneuroses and disorders of personality Mental deficiency VI.—Diseases of the Nervous System and Sense Orga Vascular lesions affecting central nervous system Nonmeningococcal meningitis	Psychoses Psychoneuroses and disorders of personality Mental deficiency VI.—Diseases of the Nervous System and Sense Orga Vascular lesions affecting central nervous system Nonmeningococcal meningitis	Psychoses Psychoneuroses and disorders of personality Mental deficiency VI.—Diseases of the Nervous System and Sense Orga Vascular lesions affecting central nervous system Nonmeningococcal meningitis
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## TABLE 10-CAUSE OF DEATH BL MARITAL STATUS, AGE AND SEX IN ALBERTA, 1952-Continued

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		t Causes of Death D. (Intermediate List)	Protections and generate a solution of		Inflammatory diseases of eye	Cataract	Glaucoma	· Otitis media and mastoiditis	All other diseases of the nervous system and sense organs	VIIDiseases of the Circulatory System	Reneumatic fever	Chronic meumatic heart disease	Arteriosclerotic and degenerative heart disease	Other diseases of heart	Hypertension with heart disease	Hypertension without mention of heart	Diseases of arteries	Other diseases of circulatory system
	Int.	no.		A 73	A 74	A 75	A 76	A 77	A 78		A 79	A 80	A 81	A 82	A 83	A 84	A 85	A 86

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XI.—Deliveries and Complications of Pregnancy, Child- birth and the Puerperium       Mith and the Puerperium       Image: Sepsis of pregnancy, childbirth and the puerperium       Female       Image: Sepsis of pregnancy, childbirth and the puerperium       Image: Sepsis of pregnancy and the puerperium       Image: Sepsis of pregnancy, childbirth and the puerperime       Image: Sepsis of preg	Other diseases of genito-urinary system	emale fale emale		1.00			1	111	1	111	101		111		[]]	
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Toxaemias of pregnancy and the puerperiumFemale413Haemorrhage of pregnancy and childbirthFemale321Abortion without mention of sepsis or toxaemiaFemale221Abortion with spesisor toxaemiaFemale213Other complications of pregnancy, childbirth and the remale11	Sepsis of pregnancy, childbirth and the puerperium	emale							1	1	1			1	1	1
Haemorrhage of pregnancy and childbirth       Female       3          2       1        2       1        2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       2	Toxaemias of pregnancy and the puerperium	emale					I	1	3			1110	-		1	
Abortion without mention of sepsis or toxaemia       Female       2       -       -       -       1       1       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       1       1       -       -       -       -       1       3       -       -       -       -       1       3       -       -       -       -       1       3       -       -       -       -       1       3       -       -       -       -       1       1       -       -       -       1       3       -       -       -       -       1       1       -       -       -       1       1       -       -       -       1       1       -       -       -       1       1       -       -       -       1       1       -       -       -       1       1       -       -       1       1       -       -       1       1       -       -       -       1       1       -       -       -       1       1       -       -       -	Haemorrhage of pregnancy and childbirth	emale				1	1	1	63	1	1	1	1	1	1	
Abortion with spesis     Female     4     -     -     1     3     -       Other complications of pregnancy, childbirth and the remale     1     -     -     -     1     1	Abortion without mention of sepsis or toxaemia	emale					I	1	1			-		:	1	1
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	Other complications of pregnancy, childbirth and the puerperium	emale					1		1		:	1	1		1	1

TABLE 10-CAUSE OF DEATH BY MARITAL STATUS, AGE AND SEX IN ALBERTA, 1952-Continued

 Male	Female	E amale	Fem	Tamala	Malo	Post	Female	mai	Fem	Malo	Female	1	_		Male	Fam	Mal	TOTAL	Mal	Fem	-			Male	Fem	Mal	Fen	Mal	Fen	Mal.	Fen	[Mal	Fen	im-[Mal	Fen				Mal	Fen	Fen
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<ul> <li>A122 Artritis and spondylitis</li> <li>A123 Muscular rheumatism and rhe</li> <li>A124 Osteomyelitis and periostitus</li> <li>A125 Ankylosis and acquired muscu</li> <li>A126 All other diseases of skin and</li> <li>XIV.—Congenital Malformatio</li> <li>A127 Spina bifida and meningocele</li> <li>A128 Congenital malformation of ci</li> <li>A128 Congenital malformation of ci</li> <li>A128 Congenital malformation of ci</li> <li>A129 All other congenital malform</li> <li>A130 Birth injuries</li> <li>A131 Postnatal asphyxia and atelec</li> <li>A131 Postnatal asphyxia and atelec</li> <li>A133 Haemolytic disease of newborn</li> <li>A135 Infections of the newborn</li> <li>A135 Infections of the newborn</li> <li>A136 All other diseases peculiar</li> <li>A136 Senility without mention of 1</li> </ul>	System Infections of skin and subcutaneous tissue	Male
Muscular rheumati Osteomyelitis and Ankylosis and acq All other diseases XIV.—Congenital Spina bifida and r Congenital malforn All other congenit All other congenit Birth injuries Postnatal asphyxia Postnatal asphyxia Haemolytic disease All other defined of All other disease maturity unqualif XVI.—Symptoms, Senility without n	spondylitis	Male
Osteomyelitis and Ankylosis and acq All other diseases XIV.—Congenital Spina bifida and r Congenital malforn All other congenit TV.—Certain Dise Birth injuries Postnatal asphyxia Infections of the r Haemolytic disease All other defined of maturity unqualif XVI.—Symptoms, Senility without n	rheumatism and rheumatism, upspecified.	Male Female
Ankylosis and acqual to ther diseases All other diseases <b>XIV.—Congenital</b> Spina bifida and r Spina bifida and r Congenital malforn All other congenit Birth injuries <b>XV.—Certain Dise</b> Birth injuries <b>Distributed</b> as the related as the related as the related as the related disease maturity unqualif <b>XVI.—Symptoms</b> , Senility without n	and periostitis	Male
All other diseases XIVCongenital Spina bifida and r Congenital malforn All other congenit Birth injuries Birth injuries Postnatal asphyxia Infections of the r Haemolytic disease All other defined o Ill-defined disease maturity unqualif XVISymptoms, Senility without n	acquired musculoskeletal deformities	Male
XIV.—Congenital Spina bifida and r Spina bifida and r Congenital malforn All other congenit Birth injuries Postnatal asphyxia Infections of the r Haemolytic disease All other defined of maturity unqualif XVI.—Symptoms, Senility without n	diseases of skin and musculoskeletal system	Male
Spina bifida and r Congenital malforn All other congenit XV.—Certain Dise Birth injuries Postnatal asphyxia Infections of the r Haemolytic disease All other defined of Ill-defined disease maturity unqualif XVI.—Symptoms, Senility without n	Malformations	
Congenital malforn All other congenit XV,—Certain Dise Birth injuries Postnatal asphyxia Infections of the r Haemolytic disease All other defined of Ml other defined disease maturity unqualif XVL—Symptoms, Senility without n	and meningocele	Male
All other congenit XV.—Certain Dise Birth injuries Postnatal asphyxia Infections of the r Haemolytic disease All other defined of Ill-defined disease maturity unqualif XVI.—Symptoms, Senility without n	Congenital malformation of circulatory system	Male
XV.—Certain Dise Birth injuries Postnatal asphyxia Infections of the r Haemolytic disease All other defined ( Ill-defined disease maturity unqualif XVI.—Symptoms, Senility without n	All other congenital malformations	Male
Birth injuries Postnatal asphyxia Infections of the r Haemolytic disease All other defined ( Ill-defined disease maturity unqualif <b>XVL—Symptoms</b> , Senility without n	Certain Diseases of Early Infancy	
Postnatal asphyxia Infections of the r Haemolytic disease All other defined ( Ill-defined disease maturity unqualif <b>XVI.—Symptoms</b> , Senility without n		Male
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Haemolytic disease All other defined of Ill-defined disease maturity unqualif <b>XVI.—Symptoms</b> , Senility without n		Female
All other defined of Ill-defined disease maturity unqualif XVL—Symptoms, Senility without n		Female
III-defined disease maturity unqualif XVI.—Symptoms, Senility without n	All other defined diseases of early intancy	Female
XVISymptoms, Senility without n	to early infancy and im-	Male
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A137 Ill-defined and unk	Senility without mention of psychosis F III-defined and unknown causes F F	Male Female Male Female

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					Male	Male	Male	Male	Male	Female Female	Male	Male	Male	Male	Male	Female Male	Female Male Female
		Causes of Death (Intermediate List)	alterative definencing	EXVII.—Accidents, Poisonings and Violence (Classifi- cation According to External Cause)	Motor vehicle accidents	Other transport accidents	Accidental poisoning	Accidental falls	Accidents caused by machinery	Accident caused by fire and explosion of combustible Male material Fema	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
	Int.	list no.			AE138	AE139	AE140	AE141	AE142	AE143	AE144	AE145	- AE146	AE147	AE148	AE149	AE150

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	То	tal Infa	nt Deat	hs	Infant	Deaths	in Hos	pitals
CENSUS DIVISIONS	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere
LBERTA	875	879	6	10	657	662	4	
Division No. 1	16	13	3		10	8	2	
Division No. 2 Division No. 3	71	67 11	6	2 4	56	51	6	
Division No. 4	9	11		11	63	10 12	****	
Division No. 5	10	12		2	9	11		
Division No. 6	174	172	13	11	148	144	13	
Division No. 7	23	28	1	6	17	22	141	
Division No. 8	88	83	11	6	68	65	8	
Division No. 9 Division No. 10	29 26	28 29	73	6	16 18	18 21	4	
Division No. 11	240	218	33		210	188	32	1
Division No. 12	12	17	1171	5	2	7		
Division No. 13	36	41		7	26	29	2	
Division No. 14	36 22 51	41 25 51	2 6 3 1 2	11 5 7 9 3 3	14	18	4	1
Division No. 15 Division No. 16	32	51 34	3	3 9	26 22	25 24	2	
Division No. 17	29	34	2	3	6	24		

## TABLE 11—INFANT DEATHS AND HOSPITAL INFANT DEATHS BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1952

	То	tal Infa	nt Deat	hs	Infant	Deaths	in Hos	pitals
CITY. TOWN OR VILLAGE	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence
Athabasca	3	2 1	1		2	1	1	
Barrhead	1	1	1	1	1	1	1	
Beverly	1	2 1		1	++++	1		
Black Diamond		1		1		1		
Blairmore								
Bonnyville	9	5	4		9	5	4	
Bowness		3	3	3	-	3		
lrooks algary	120	170	3 28	5	117	2 94	3	
angary	130 14	170	28		117		28 4	
lardston	4	3	) 1		72	3	4	
laresholm	4	2	2		4	5	2	
oleman	4	1		1	4	2 2 1	-	
lidsbury	6	6	2	2	6	Ĝ	2	
)rumheller	11	7	5	1	10	6	2 5	
dmonton	229	162	72	5	210	143	72	
dson	4	3	2	1	1	2		
orest Lawn								
ort Saskatchewan						100		
Frande Prairie	14	10	4		10	7	3	
Ianna Uish Desinis	9	5	4	****	8	4	4	
ligh Prairie ligh River	24 4	6 2	18 3	1	18	4	14	
nnisfail	9	5	5	1	1 9	5	15	
asper Place	0	3	-	3	5	3		
acombe	7	5	2		6	35	1	
educ	1	4		3		3		
ethbridge	31	16	15		28	13	15	
loydminster		14	-1417		-	100		
facleod	3	33			3	3		
Iagrath	2	3		1		1		
IcLennan	6	1	6	1	27	1	2 3	
Iedicine Hat	8	5	3		7	4	3	
lds eace River	8	47	4 3	1	56	1 3	433	
incher Creek	3		3	-	3	0	3	
onoka	7	7	2	2	7	6	2	
laymond	2	3	-	ĩ		1		
tedcliff		1		1	1000	î		
led Deer	13	12	2	1	10	10	1	
ledwater	-	1	in	1		1	12.2	
ocky Mountain House	8	5	3		3	1	2	
t. Albert								
t. Paul	7	1	6		7	1	6	
tettler	9	4	5	and the	9	4	5	
aber	7	5	2 1	2	3	2	1	
hree Hills egreville	1 6	6	100		16	6	1	
ermilion	4	1	3		3	6 1	2	
ulcan	9	2	0		1	1	4	
Jainwright	2 11	5	7	1	9	4	6	
Vestlock	5	2 5 3	3	1	5	3	3	
Vetaskiwin	10	4	6	-	9	3	6	

### TABLE 12—INFANT DEATHS AND HOSPITAL INFANT DEATHS BY OCCURRENCE AND RESIDENCE FOR URBAN PLACES OF 1,000 POPULATION AND OVER, 1952

		squou	14 I	52	1	11	11		11	11		1	:	11	1 17	-	-	14	10	11	-	
		muder 2 28 days and	M.	39	1	11	11		4	-	-	-	1	11	11	14	111	9	6	11		
			E.	10	1	11	11	1	11	11	-	1	1	11	11	11		1	3	11		-
1		sysb 72-12	M.	9	1		11	1	11	11	-	1	1	11	11	11	TT	11	-	11		TT
			F.	=	1	11	11	1	11	11	-	1	:	11	11	11	111	T	6	11		TT
		14-20 days	M.	16	1	11	11	1	11	11	1	1	1	-	11	11	111	1	4	-	-	• ;
i				15		11	11	1	TT.	II	-	1	-	TI	TT	II		T	01	1	-	-
		ayab 61-7	M.	27	1	TT	11	1	11	11	-	1		101	11	11	111	1	6	0	-	
			E.	-	1	11	11	ł	11	TT	-			TT	TT	11	111	11	T	11	-	TT
	h	sysb ð	M.	NO.	1	11	11	1	11	11		1	1	11	11	11		T	T	11	-	T
	at Death		E.	1.4	1	11	11	I	11	11		1	1	11	11	11	111	T	61	11	-	•
2	at 1	5 days	M.	00	1	11	11	-	11	11	-	1	-	11	11	11	11	-	1	-		01
ALBERTA, 1952	Age			- 00	1	11	11	1	11	11		1	-	11	11	11		-		11	-	-
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BER			F.	1.0	1	TT	11	T	TI	11	-	-	-	11	ÎT			1	¢1	61	-	
ALI		sysb 8	M.	52	1	11	11	1	11	11		1		11	11	11	-	11	63	0100	0	0.00
N			E.	18	1	11	11	1	11	11	-	-	1	11	11	11	ITI	11	01	00 00	0	100
AGE		s days	M.	26	1	11	11	1	11	11	-	1	1	11	TT	11	111	11	01	40	e	100
			E.	37	1	11	11	1	11	11	-	1	:	11	11	11	-	11	00	3	0	9.6
AND		Yeb I	M.	53	ł	11	11	1	11	11	-		1	11	IT	11		1	10	40	Y	14
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		Under 1 day	M.	148	1	11	11	1	11	11				11	11	11	111	1.	12	12	10	16
I BY		er	÷.		01	T	[ ]		• :	F		1		1000	1014	4		17	67	17	10	23
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DE		Total under 1 year	Total	879	4.	- 10	1 1		- 03 -	101	-	T	100	10.4	- 10 4	001	110	46	134	46	46	62
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TABLE 13.—CAUSE OF INFANT DEATH		CAUSES OF DEATH (Selected Causes)	ANTE A PARTA AND A	ALL CAUSES	Tuberculosis, all forms	Dysentery, all forms	scartet iever Erysipelas	Diphtheria	al infections	ia and aleukaemia	Malignant neoplasm and other neoplasms of lymphatic and haemotopoletic tissues	Benign neoplasms	Diseases of thymus gland	Mental denciency Meningits (nonmeningococcal)	Acute upper respiratory infection	Pneumonia (4 weeks and over)	Gastritis and duodenitis Hernia and intestinal obstruction	Gastro-enteritis and colitis Chronic enteritis and ulcerative colitis	Congenital malformations	-Without mention of immaturity 	a telectasis:	-With immaturity
		Int. List No.			001-019	045-048	052	055	057	204	205 203,	210-229	273	340	470-475	490-493	543 560-570	571	750-759	i d i i	762 0	5 v3

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-Without mention of immaturity -With immaturity Diarrhoea of newborn: -Without mention of immaturity -With immaturity	Other infections of the newborn: Without mention of immaturity With immaturity Maternal torsemia	-Without mention of immaturity 		Haemorrhagic disease of newborn: —Without mention of immaturity —With immaturity	Nutritional maladjustment: —Without mention of immaturity With immaturity	III-defined diseases peculiar to early infancy: —Without mention of immaturity —With immaturity	Immaturity Ill-defined and unknown causes Motor vechicle traffic accidents	Accidental falls Accidents caused by fire Inhalation and ingestion of food or other object Accidental mechanical suffocation	Other infection and parasitic diseases	Other neoplasms Other allergic, endocrine system, metabolic and nutri- tional diseases	Diseases of the blood and blood-forming organs	Other diseases of the nervous system and sense organs	Diseases of the circulatory system	Other diseases of the respiratory system	Other diseases of the digestive system	Other accidents and violent deaths
764 55	765-768 .0 .5	.59	.0-2 5-7	771 .0 .5	772 .0	773 .0 .5	774-776 795 E810-E825	E900-E904 E916 E921, E922 E924 F925	Residual I (001-138)	Residual II (140-239) Residual III (240-289)	Residual IV 290-299)	(330-398)	(400-468)	(470-527)	(530-587)	(E800-E999) Residual

-Without mention of immaturity	List No. List No. -019 -048 -048 -048 -203, -229 -570 -570 -570 -570 -570 -570 -570 -570	CAUSES OF DEATH (Selected Causes) (Selected Causes) ALL CAUSES Tuberculosis, all forms Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils Syphils	suffrom 2 2 2		sutnom 8							Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death		sujuou 8	subnom e				
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Pneumonia of newborn:      Without mention of immaturity        Without mention of immaturity      Without mention of immaturity         Diarrhoea of newborn:      Without mention of immaturity        With immaturity      Without mention of immaturity        With immaturity					
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# TABLE 14-CAUSE OF INFANT DEATHS BY SEX AND MONTH OF DEATH FOR ALBERTA, 1952

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	CAUSES OF DEATH (Selected Causes)		ALL CAUSES	Tuberculosis, all forms	Dysentery, all forms Dysentery, all forms Scarlet fever	Erisipelas	Whoping cough Weningcoccal Infections	Measles Leukaemia and aleukaemia	other neoplasms oletic tissues	Benign neoplasms	Diseases of thymus gland Mental deficiency	Meningitis (nonmeningococcal) Otitis media	Acute u per respiratory infection	Prumonia (4 weeks and over)	Gastritis and duodenitis Hernia and intestinal obstruction	Gastro-enteritis and colitis Chronic enteritis and ulcerative colitis	Congenital malformations	-without mention of immaturity with immaturity	Postnatal asphyxia and atelectasis- 	Preumonia of newborn
No. 1 March 1	List No. Int.			001-019	045-048	052	056	085 204	140-203, 205	210-229	325	340 391, 392	470-475 480-483	490-493 500-502	543 560-570	572	760.759	d r3	762 .0 .5	763 .0

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	11 11 1	1 97 1	-	1 1	1 1	1	1 1	1	11
	N	1 1 12 1 1	1 101	1 1	1 1	1	1 1	1	11
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		H	and the second						
	-without mention of immaturity -with immaturity Haemorrhagic disease of newborn- -with immaturity -with immaturity Nutritional maladjustment- -without mention of immaturity		Accidental fails Accidents caused by fire Inhalation and ingestion of food or other object Accidental mechanical suffocation	Other infective and parasitic diseases Other neoplasms	Other allergic, endocrine system metabolic and nutritional diseases Diseases of the blood forming organs	Other diseases of the nervous system and sense organs	Diseases of the circulatory system	Residual IX 530-587) Other diseases of the digestive system	Other accidents and violent deaths
								-	

90	VITAL STATISTICS BRANCH
B.C.	192 222 222 222 222 222 222 222 233 2478 246 65 65 65 65 65 65 65 65 65 65 65 65 65
Alta.	234 234 234 235 235 235 235 235 235 235 235 235 235
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Man.	232 232 252 252 252 252 252 252 252 252
Ont.	369 24 24 25 28 29 106 17 17 117 117 117 117 117 117 117 117
Que.	895 211 111 123 103 103 103 103 1145 1150 1150 1150 1150 1150 1150 1150
N.B.	882 11 11 11 11 11 11 12 12 12 12 12 12 12
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P.E.I.	19 19 19 19 19 19 19 19 19 19
Nfld.	1346 4 1346 4 1359 1359 141 151 151 152 152 153 152 153 152 153 153 153 153 153 153 153 153
Canada	2.017 2.97 2.97 2.97 2.97 3.11 2.236 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.36 3.37 3.36 3.77 1.577 1.577 3.66 3.736 3.740 3.723 4.389 3.740 3.740 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.746 3.
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 Wennagococcal infections Mennagococcal infections Malaria Malignant neoplasm, including neoplasms of lym- parasitic Cancer excluding Hodgkin's disease, leuk- arenia and aleukaemia Malignant neoplasm, including neoplasms of lym- parasitic Cancer excluding Hodgkin's disease, leuk- arenia and aleukaemia Leukaemia and aleukaemia Malignant neoplasm sifecting central nervous system Nonmeningococcal meningitis Anaerias Vascular lesions affecting central nervous system Nonmeningococcal meningitis Materioselerosis and degenerative heart disease Hypertension without mention of heart Hypertension soft heart disease hypertension without mention of heart hypertension without mention of heart hypertension without mention of heart hypertension soft heart disease hypertension without heart disease hype
Int. List No.	001-008 010-019 020-029 040 055 055 055 055 055 055 055 055 055
Abbrev. List	B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B

61	174 192 26 243	119	947 220 740	182	18	1.82	1	1	-	010-		-	-		-	
		1			12,080	ES. 1952	B.C.		16.0 1.8 2.8	00	0.6	3.3	1.0		1.8	4 EO 9
15	164 322 240	139	570 196 393	94	7,345	BY PROVINCES.	Alta.		9.5 2.8 0.5 2.8 0.5	0.5	0.8	8.1	0.7	0.1	2.1	1 011
13	107 143 41 197	11	536 127 300	61	6,625		Sask.	-	8.8 3.6 1.5	0.1 0.2	2.5	10.7	2.5	1 1	2.8	0
36	125 133 26 155	134	579 116 281	62 16	6,552	CAUSES	Man.	-	11.5 2.9 0.9	0.4	111	3.1	1.9		2.3	0 404
246	807 931 144 1,043	363	$3,072 \\ 1,041 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,887 \\ 1,88$	440 61	44,402	T OF 50	Ont.		7.7 0.6 1.8 (2)	0.4	0.3	1.0	0.4	66	2.2	
171	955 954 399 1.716	584	3,064 939 1,329	139	34,854	ED LIST	Que.	-	21.4 5.1 0.3	0.4	0.10	0.3	3.2	11	2.8	0.001
35	97 126 36 188	221	322 139 201	17	4,647	ABBREVIATED	N.B.		15.6 3.4 0.2	0.4	1.0	2.1	1.0	1 1	1.7	0 001
30	107 114 23 171	127	488 118 292	42 8	5,756		N.S.	-	$10.6 \\ 3.8 \\ 1.5 \\ 0.2 \\ 0.2$	111	8 19 19 0 0 0	6.0	1.4	0.2	1.8	2 001
H 4	16 11 3 18	21	66 26 40	0	916	INTERNATIONAL	P.E.I.		18.4 4.9 1.0	1.9		1.9	3.9	1 1	1.0	197.0
25	71 46 23 149	348	205 25 131		2,773	INTER	.bfild.		35.8 11.0 0.3 0.3	0.3	1.3		3.5	1 1	1.9	2 60
374	2.623 2.846 753 4.120	2,127	9.849 2.947 5.594	1,050	125,950	TO THI	Canada	-	14.0 3.1 2.1 0.1	500 003	0.6	2.2	1.6	(2)	2.3	0.001
Hyperplasia of prostate Complications of pregnancy, childbirth and the puerperium	Congenital malformations Birth injuries, postnatal asphyxia and atelectasis Infections of the newborn Other diseases peculiar to early infancy, and im-	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	TABLE 16-DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE	CAUSES OF DEATH		Tuberculosis of respiratory system Tuberculosis, other forms Syphilis and its sequelae Typhoid fever	Dysentery, all forms Scarlet fever, and streptococcal sore throat	Whooping cough Meningecoccal Infections	Plague Acute polionyelitis	Measles	1 other rickettsial diseases	All other difeases classified as infective and parasitic	Malignant neoplasm, including neoplasms of lym-
610 640-652,660, 670-689	750-759 760-762 763-768 769-776	780-795	Residual E810-E835 E800-E802, F840-F962	E963, E970-E979 E964, E965, E980-E999		DEATH RATES PI	H	Detailed List	001-008 010-019 020-029 040 043	045-048 050,051	056	058 080	085	110-117	030,039,041,042,044,049,052-054,	059-074.081-083, 086-096,120-138 140-205
B39 B40	B41 B42 B43 B44	B45	B46 BE47 BE48	BE49 BE50	NA.	BLE 16-	Int. Abbrev.	List	100045	91-0	B10	B11 B12	BI4	B16	B17	B18

91

158.2

110.5

114.0

125.9

139.1

120.9

122.2

129.7

137.9

92.5

129.0

Malignant neoplasm, including neoplasms of lym-phatic and haematopoietic tissues

ING TO THE INTERNATIONAL ABBREVIATED LIST OF 50 CAUSES, BY PROVINCE 
CORDI 1952-
ACCORD 1952
S ACCOR
TABLE 16-DEATH RATE PER 100,000 POPULATION AT ALL AGES ACCORD 1952

2		VITAL STATISTICS BRANCH	
	B.C.	150.8 150.8 5.4 5.4 5.4 5.4 5.4 1.1 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	1,008.3
	Alta.	102.4 1.5 6.6 6.6 6.9 6.9 6.9 6.9 6.9 8.1 1.5 2.0 2.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	757.2
	Sask.	107.6 1.4 5.0 5.0 77.0 77.0 77.0 77.0 5.6 5.6 5.6 5.6 7.2 23.5 7.6 7.2 23.5 7.6 7.2 23.5 5.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7	785.9
	Man.	118.7 118.7 11.1 6.1 9.5 9.5 9.5 9.6 5.1 9.5 1.4 5.1 1.4 5.1 1.4 5.1 1.4 5.1 1.4 5.1 1.4 5.1 1.4 5.1 1.4 5.1 1.4 5.1 1.4 5.1 1.3 5.1 1.4 5.1 1.3 5.1 1.4 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	821.1
	Ont.	$\begin{array}{c} 132.6\\ 1.7\\ 4.8\\ 1.7\\ 1.7\\ 1.4\\ 1.25.1\\ 1.25.1\\ 1.25.1\\ 1.25.1\\ 2.25\\ 5.3\\ 5.3\\ 5.3\\ 5.4\\ 7.6\\ 6.9\\ 5.3\\ 5.2\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 32.6\\ 1.2\\ 1.2\\ 1.2\\ 1.2\\ 1.2\\ 1.2\\ 1.2\\ 1.2$	931.6
	Que.	115.6 115.6 155.6 122.2 33.8 33.8 33.5 35.6 164.3 122.2 35.6 164.3 35.6 164.3 35.5 35.6 14.4 35.6 14.4 35.5 35.6 14.4 14.4 35.5 35.5 35.5 35.5 35.5 35.5 35.5 3	835.0
	N.B.	$\begin{array}{c} 116.3\\ 10.6\\ 5.3\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\ 10.6\\$	883.5
	N.S.	126.3 126.3 2.5 2.5 2.5 2.5 2.5 2.5 114.9 1.2 3.7 114.9 1.2 3.7 114.9 1.2 3.7 114.9 1.2 3.7 114.9 1.2 3.7 114.9 1.2 5.5 209.6 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 1.2 5.5 5.5 1.2 5.5 5.5 1.2 5.5 5.5 1.2 5.5 5.5 1.2 5.5 1.2 5.5 5.5 1.2 5.5 5.5 1.2 5.5 5.5 1.2 5.5 5.5 1.2 5.5 5.5 1.2 5.5 5.5 5.5 1.2 5.5 5.5 1.2 5.5 5.5 1.2 5.5 5.5 1.2 5.5 5.5 5.5 5.5 5.5 5.5 5.5 1.2 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	881.5
	P.E.I.	130.1 1.0 6.8 6.8 6.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	889.3
_		91.2 91.2 1.1 3.2 91.3 91.3 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3	741.4
	Canada	12239 1.5 1.5 1.5 1.5 1.5 2.6 1.1 2.8 2.5 3.5 5.5 5.5 3.5 5.5 5.5 1.7 5.5 5.5 5.5 5.5 1.7 5.5 5.5 1.7 5.5 5.5 5.5 1.7 5.5 5.5 1.7 5.5 1.7 2.8 6 0 3.5 5.5 1.7 2.8 8 5.0 3.5 5.5 1.7 2.8 8 5.0 1.7 2.8 8 5.0 1.7 2.8 8 5.0 1.7 2.8 8 5.0 1.7 2.5 8 5.0 1.7 2.5 8 5.0 1.7 2.5 8 5.5 0 1.7 2.5 8 5.5 0 1.7 2.5 8 5.5 0 1.7 2.5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	874.3
and as part	CAUSES OF DEATH	Cancer excluding Hodgkin's disease, leuk- aemia and aleukaemia Hodgkin's disease Leukaemia and aleukaemia Benign and unspecified neoplasms Benign and unspecified neoplasms Benign and unspecified neoplasms anaemis Anaemis Vascular lesions affecting central nervous system Nonmeningococcal meningitis Anaemis Vascular lesions affecting central nervous system Nonmeningococcal meningitis Anaemis Arteriosclerotic and degenerative heart disease Arteriosclerotic and hernia Complications of the newborn Appendicitis Appendicitis Appendicitis Birth injuries, postnatal asphyxia and atelectasis Infections of the newborn Outer diseases poentiar to early infancy, and in- maturity unqualified An other diseases All other accidents All operations of war	All causes
. List No.	Detailed List	(140-200,202 203.205) (201) (201) (201) (201) 210-239 240 240-402 440-443 440-443 440-443 440-443 440-443 440-443 440-493 550-552 540.541 550-552 540.541 550-552 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 543.571,572 550-553 543,571,572 550-552 543,571,572 550-552 543,571,572 550-552 543,571,572 550-552 543,571,572 550-552 543,571,572 550-552 543,571,572 550-552 543,571,572 550-552 543,571,572 550-552 543,571,572 550-552 543,571,572 550-552 550-552 550-552 550,571,572 550,573 550,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 560,573 570,573 560,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573 570,573	
Int.	Abbrev.	B19 B20 B21 B22 B23 B23 B23 B23 B23 B23 B23 B23 B23	

TABLE 16a-CERTAIN CAUSES OF DEATH	1952	Number of Deaths	Diseases of the Heart
ISES 0	63	Rate per 100,000	22 110 104 104 104 104 104 104 104 104 104
F DEA	1951	Number of Deaths	2113 1065 1165 568 756 60 113 7 7 7 123 60 115 112 125 60 112 125 113 114 113 114 115 113 114 115 113 1165 1113 1165 1113 1165 1113 1165 1113 1165 565 565 565 565 565 565 565 565 56
TH BY		Rate per 100,000	2224 113 112 123 123 123 123 123 123 123 123
	1950	Number of Deaths	2046 9946 1333 1337 1337 1337 1337 1337 1337 133
BERS		Rate per 100,000 population	22 110 100 100 100 100 100 100 100 100 1
AND	1949	Number of Deaths	2033 957 128 128 135 155 155 666 666 666 666 155 155 155 15
NUMBERS AND RATES		Rate per 100,000 population	22333 109 114 244 244 244 244 24 11 24 12 12 12 12 12 12 12 12 12 12 12 12 12
FOR	1948	Number of Deaths Rate per 100,000	1896 975 975 362 362 362 368 34 34 368 34 368 34 368 34 368 34 37 37 239 37 37 236 37 37 236 37 37 37 37 37 37 37 37 37 37 37 37 37
FOR EACH YEAR		Dopulation	22 1125 133 135 133 135 155 133 133 135 155 133 133
YEAR	1947	Number of Deaths Rate per 100,000	1756 11756 1177 1177 1177 1177 1197 1197 1197 1106 1106 1106 1106 1106 1106 1106 110
OF		population	2121 1013 265 265 265 265 265 265 265 265 265 265
THE LA	1946	Number of Deaths Rate per 100,000	1721 1721 102 3650 3652 3652 3652 3652 3652 3650 1100 1128 1128 1128 1128 322 1000 1128 322 322 328 328 328 328 328 328 328 3
LAST DE		notration	214 1 107 1 56 55 56 55 56 55 56 55 56 51 11 12 26 52 11 12 26 52 56 52 56 57 56 56 56 56 56 56 56 56 56 56 56 56 56
DECENNIAL	1945	Number of Deaths Rate per 100,000	1138 830 1138 1138 1138 1133 1143 1143 1143 1143
		population	1100 1100 116 55 55 55 55 117 117 117 117 117 117 117
PERIOD	1944	Number of Deaths Rate per 100,000	7534 7534 7534 7534 7537 554 554 554 554 554 554 554 554 557 554 557 554 557 554 557 554 557 554 557 554 557 554 554
		bobnjaion	186 846 846 846 846 846 81 846 81 846 81 846 81 846 846 846 846 846 846 846 846 846 846
	1943	Number of Deaths	1550 748 588 588 588 588 588 588 588 584 77 77 77 77 77 77 77 77 77 77 77 77 77
	_	population population	194 194 194 194 194 194 194 194 194 194

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80-84 Years	1081		1	11	11			1 1	11	11		11	11	1	1	-	-	-	: :	
75-79 Years	1001		1	11			I I	11	11	11	I	11	1		1		1	1	1 1	
20-24 Years	6 1 4		11	TT	1	1				11	-	11				-	-	-	1 1	
62-66 A6912	11 12	- 1-	1	11	-					1.1		11	-	1		1	-	-	1 1	
55-59 years	1- 0110			11		1			1-1	11	-	11	1		1			-	1 1	
	-010-		-	11	11			11	11	11		11	1.1	1			-	-	1 1	-
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40-44 Years	0 19 00	1	1	11	1.1	1	1		11	11	-	11	1	1			-	-		
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22-23 A6912 PC		-	1	11	1 1	1			11	11		11	11	-		1			11	
20-29 A6918	44			TI	1	1	-		11	11	1	11	1	1		-	-	-	11	
20-24 Years		0100	-	1 1	1	-	:			11	4.4	1 1	1				-		11	1
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10-14 Years		40	101	1 1					1 1	11		1 1		-		-		-	1 1	-
2-9 Years				+ -	1 1					1 1	-	1 1			-	:	-	-		
4 Years	10 01 00	-	1 1 -	-		-	-								-			-		
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IntoT		e			Temale	Temale			Temale	1 1	-	-	Temale	Female	remale	Male	le			Female
IstoT	Total 346 Male 179 Female 167	Male 18 Female 19			Male	Female		Female 1	Female	Female	-		Female	Female	Female	Male	le		Male	Female
CAUSE OF DEATH	Total Male Female	Male	Male	Male			Female	Female	T GIN SHERMOOR SOLE AND AN ANTONIA SHE TI	Female .	Male	Male					Female	Male	Male	
		e				Cholera	Female	Consist former and structureness one thread	Source and suchwooded sore miner manners	Female .	-	-	R-11 Plague Male Male	A and a mallamentalities	B-12 Acute pollomycuus	B-13 Smalipox	Female			

TABLE 17-CAUSE OF DEATH (ABBREVIATED LIST) OF INDIANS BY SEX AND AGE IN ALBERTA, 1952

										14.01						
		Not stated	-	-	1		11		-			11		11	11	
		82+ Years	1	1	-	11	11	1 1	1	10		11		11	11	111
		80-84 Years			-		11		1	-	11			17	1.1	
		75-79 years		1	ł	11	11		-	- 01	-	11		11	11	
1		70-74 years	1	-			11		1.0		101	01	• 1		-	
		65-69 years	1	-	1	1	11	1	1	F	11	1		-	11	
		60-64 years	1	1	1	11	11	1 1	1	11		-		11	•	III
		22-23 A6912	1	1	i	11	11		-	F	11	11		11	11	III
		20-24 Aests	1	1	ł	11	11	1 1	1	-	11	6161	-	-	11	
		42-49 Years	1	1	1	11	11		1	-	11			-	11	
		40-44 Xests	1	63		11	11		1	11			•	117	1	
	AGES	32-39 Aests	1	1	1	11	11	1 1	1	11	11	10 00	1	01	11	-
	AG	30-34 Aests	1	1	I	11	11	1 1	1	11	-	11		11	11	ITT
•	2	52-59 X6818	-		i	11	11	1 1	1	1	11	~~~	-	01	11	TT
		20-24 Years	1	1	1	11	11	1 1	1	1	11	00 00	H	01	TT	II
		12-19 years		1	1	IT	11	1	1	11	-	01 0	1	1	11	TT
		10-14 Years		1	1	II	11	1	1	T	-		-	11	II	TT
		2-8 AGULS		1	1	11	11	1 1	1	11	11		-	-	11	
		4 Acets	-	1	1	11	11	1 1	1	1	-	11	1	11	11	TT
		3 Years	1	1	1	11	11	1 1	I	11	TT		1	-	IT	TT
		5 AGULS		1	1	11	11	1	1		11	-		11-	1	III
		7 X69L			1	IT	11	1 1	1	101	-	01-1-1-		-	1	TT
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		IstoT	Male	Female	Male	Male	Male	Male	ule		Male	Total Male Female		Male 1		Female
		CAUSE OF DEATH	B-39 Hyperplasia of prostate	B-40 Complications of pregnancy, childbirth and the puerperium Female	4	Birth injuries, postnatal asphyxia and atelectasis	B-43 Infections of the newborn	Other diseases peculiar to early infancy, and immaturity unqualified Male		Female		-		-		BE-50 Homicide and operations of war Female

TABLE 17-CAUSES OF DEATH (ABBREVIATED LIST) OF INDIANS BY SEX AND AGE IN ALBERTA-Continued

"N" Code	"N" Alternative classification of accidents, poisonings and violence Code (nature of injury)	Total Male Female	1202	61-1-12	I		111			10 10		111	co co :	1		61 61	111					111	111
BN-47	BN-47 Fractures, head injuries and internal injuries	Male Female	4 1	11		-	11	11		101		11	61	1 1	-	-				1		11	1.
BN-48	BN-48 Burns	Male 7emale	3 1		-	11	11			1 1	2	11	-	11	11	11			1			11	
BN-49	BN-49 Effects of poisons	Tale		11	11	11	11	11		1 1	11	1 :	11	11	11	11				11	11		11
BN-50	BN-50 All other injuries	fale	1-10	11	1 1	1.1	11			0	11	1	1 1	-	11	11	11	T		11	11	11	
		-	-			-	-	-	_	_					-		-	-	-	-	_	_	_

			AL Tur Syy Syy Syy Syy Syy Syy Syy Sy
	CAUSES OF DEATH (Selected Causes)	survey of press outside and the guardeness	ALL CAUSES Tuberculosis, all forms Syphilis Dysentery, all forms Scatter feve Explained feve Explained feve Meningococcal infections Meningococcal infections Meningerses and haematopoietic tissues Bengm neoplasm and other neoplasms of lymphatic and haematopoietic tissues Bengm neoplasm and other neoplasms of lymphatic and haematopoietic tissues Bengm neoplasm and other neoplasms of lymphatic and haematopoietic tissues Meningitis (nonmeningococcal) Meningitis (nonmeningococcal) Meningitis (nonmeningococcal) Meningitis (nonmeningococcal) Meningitis (nonmeningococcal) Meningitis and duodentits Meningitis and duodentits and underative colitis Congenital malformations Intury at birth:  -With mention Postnatal asphyxia and atelectasis: -Without mention
	Total under 1 year	Total M.	133         74           133         1           133         1           133         1           133         1           133         1           133         1           133         1           133         1           133         1           133         1           133         1           133         1           133         1           134         1           135         1           136         1           137         1           138         1           141         1           15         1           15         1           15         1           15         1           15         1           16         1           17         1           18         1           19         1           10         1           11         1           12         1           13         1           14         1           15         1
-	r der	F.	82 10 10 10 10 10 10 10 10 10 10
	Under 1 day	M. F.	мания и на
	I day	M. F.	•         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •
	s days	M. F	
	3 days	F. M.	64
		F. M.	<u> </u>
AGE	step þ	E	
AT	sáep g	M.	-
DEATH		F. M.	
	system 8	F. N	
	7-13 days	M. F.	I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I
	14-20 days	M. F.	
	21-27 days	. M.	
		F. M	N
	nuqer 2 months 28 days and	M. F.	

TABLE 18-CAUSE OF INFANT DEATHS OF INDIANS BY AGE AND SEX, ALBERTA, 1952

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4         2         3         1         4         2         1         4         2         1         4         2         1         4         2         1         4         2         1         4         1         4         2         1         4         1         4         2         1         4         2         1         4         2         1         4         2         1         4         2         1         4         2         1         4         2         1         4         2         1         4         2         1         4         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	11 1	1 1	1	11	1	1	-	_	11	11	1 17	1 1	1	1	-	1 1	1	1	11
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nutti-	4 1		+						•	-	• •						1	1	
—Without mention of immaturity         —With immaturity         —Without mention of immaturity         —Without menturity         In-defined diseases peculi				11			1		-			-					1	-	
<ul> <li>—With immaturity</li> <li>—With immaturity</li> <li>Diarrhoes of newborn:</li> <li>—With immaturity</li> <li>Other infections of the newborn:</li> <li>—Without mention of immaturity</li> <li>Other infections of the newborn:</li> <li>—Without mention of immaturity</li> <li>—Without mention of immaturity</li> <li>—With immaturity</li> <li>—Without mention of immaturity</li> <li>—Without mention of immaturity</li> <li>—With immaturity</li> <li>Indefined diseases of newborn:</li> <li>—With immaturity</li> <li>Indefined and unknown causes</li> <li>Motor vehicle traffic accidents</li> <li>Motor vehicle traffic accidents</li> <li>Motor vehicle traffic accidents</li> <li>Motor vehicle traffic diseases</li> <li>Other infective and parasitic diseases</li> <li>Other neoplasms</li> <li>Other allergic, endoorning of food or other object traffic accidents</li> <li>Other allergic, endoorned and blood-forming organs</li> <li>Other diseases of the blood and blood-forming organs</li> <li>Other diseases of the respiratory system</li> <li>Other accidents and volent estates</li> <li>Diseases of the digestive system</li> </ul>														÷					
	-Without mention of immaturity -With immaturity Diarrhoea of newborn: Without mention of immaturity	immaturity tions of the newborn: ut mention of immaturity	immaturity toxaemia:	nout mention of immaturity	hout mention of immaturity	chagic disease of newborn:	onal maladurity ithout mention of immaturity	ined diseases peculiar to early infancy: Vithout mention of immaturity	un immaturity	vehicle traffic accidents	ents caused by fire ation and ingestion of food or other object	ental mechanical suffocation	neoplasms	· allergic, endocrine system, metabolic and nut mal diseases	90		diseases of the respiratory system	diseases of the digestive system	accidents and violent deaths

# TABLE 18-CAUSE OF INFANT DEATHS OF INDIANS BY AGE AND SEX, ALBERTA, 1952-Continued

		1	-	-	1	-	1	AGE	AT -	DEATH	H -		_	s	-	-	
Int. List No.	CAUSES OF DEATH (Selected Causes)	2 months and 2 months and	bao adtaora 6	a months and	A months and A months and		under 6 months	pus stinom 9	stinom 7 rebnu	7 months and suffrom 8 months		sthrom 8 months	pue sutuom 6	under 10 month	pue sujuou 01	under 11 month	II months and Inonths and
-		M. I	F. M.	Å.	M.	F. N	M. F.	M.	F.	M.	F. M	M. F.	M.	Ŀ.	M.	Ŀ.	M.
	ALL CAUSES	- 9	-30	5	-07	-1-		4 3	63	- 00	10		4 8	01	63	61	4
001-019	Tuberculosis, all forms	1		1	1			1				1	1	1		1	1
020-029 048-058	Syphilis Dysentery, all forms	11	11	11	T	-				1 1	11	-	11	11	1	11	11
	Scarlet fever	-	-	-		I	-					:	-	1	-	-	-
	Diphtheria	1, 1			1 1	11				1 1	1 1		1 1	1.1		11	11
	Whooping cough Meningconceal infections	-	-	ł	1	1					1			1		1	;
	Measles	1		1												1	
204 202	Leukaemia and aleukaemia	4	-		1	T	-	1	1	-		1	-	1	1	-1	1
205											-					1	i
210-229	Benign necplasms	1				1							1		1	1	
	Diseases of thymus gland Mental deficiency			-		-					-	-	-				
	Meningitis (nonmeningococcal)		I	T	1	1	1				11					11	-
391, 392	Otitis media					1							-		1	1	
470-475	Acute upper respiratory infection	-	-	-		I		- 1			+	-	-	-		ſ	
490-493	Phuemonia (4 weeks and over)	0	01	01	1 1	101	00	1	01	-	-	-	2 1	-	I	01	.03
500-502	Bronchitis	1			-	1	-		-			•			-	1	
560-570	Hernia and intestinal obstruction	-		-	11	1				-	1			-	1	1	:
	Gastro-enteritis and colitis	1	01	1	0	1	-	2 1		T			1 5			1 1	1 1
572	Convenite1 malformations		-			1-	-					-		-		1	
191	Injury at birth:	-	-	-	1		+				-	-		1	-	1	-
<i>o</i> , <i>z</i>	-Without mention of immaturity	1	T		I	1	-	-				-			-	-	
?	Postnatal asphyxia and atelectasis:	-	-	-	1	1	-		****		1	-		1	-	1	1
Q M	-Without mention of immaturity	-		-	1	;	-					-			1	1	1

100

VITAL STATISTICS BRANCH

							м	Ionth	s				
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province	1323	116	116	126	124	120	107	104	94	108	89	105	114

#### TABLE 19-LIVE BIRTHS OF INDIANS BY MONTH, ALBERTA, 1952

# TABLE 19a—LEGITIMATE AND ILLEGITIMATE BIRTHS OF INDIANS (EXCLUSIVE OF STIRRBIRTHS) IN ALBERTA, 1952

	To	tal Bi	rths	Le	tiim	ate	Ille	gitim	ate
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	1323	668	655	980	496	484	343	172	171

TABLE 20-BIRTHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE, 1952

	Total						PLA	PLACE OF RESIDENCE	RESIDE	NCE					
PLACE OF OCCURRENCE	occur- rence	Nfid. P.E.I.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon	N.W.T.	U.S.A.	Other
Total (residence)	404,057	404,057 12,561	2,703	17,951	16,691	126,416	123,891	20,777	22,605	29,105	29,827	389	543	569	59
Newfoundland Prince 5dward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Saskatchewan Britsh Columbia Vukon Northwest Territories	$\begin{array}{c} 12.529\\ 2.691\\ 17.964\\ 17.964\\ 12.6977\\ 125.363\\ 125.363\\ 122.863\\ 20.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 220.948\\ 22$	12,519 19 13 2 2 2 1 2 2 1 2 2 2	2,675 10 6 6 6 1	3 17,855 355 355 31 31 31 1 31 1 1	1 16,444 24 24 2 2 118	3 1 1 1 1 1 1 2 3 2 3 2 4 4 4 4 4 4 5 2 5 2	1 2 14 23 23 23 23 12 8 8 8 8 8 2 2 2 2 12 2 2 2 11 2 2 20 12 20 12 20 20 12 20 20 14 20 20 14 20 20 14 20 20 14 20 20 14 20 20 14 20 20 12 20 20 12 20 20 12 20 20 12 20 20 20 20 20 20 20 20 20 20 20 20 20	1 1 20,553 20,553 1 7 44	4 1 27 179 22,281 186 186 186 9 9	11 16 16 16 14 28,722 37 7 18	29,6165 29,6165 12 12 12 12 12 12 12 12 12 12	333.366 23 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2516 11 14 11 14 11 14	2 246 246 27 27 27 27 27 27 20 29 10	1   2   1   1   1   1   1   1   1

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	Т	OTAL I	BIRTHS		BIR	THS IN	HOSPIT	AL
CENSUS DIVISIONS	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere
ALBERTA	28,951	29,105	229	383	27,919	28,069	227	373
Division No. 1	1,062	1,057 2,226	199	194	1.017	1,010 2,070	196	189
Division No. 2	2,585	2,226	416	57	2,424	2,070	409	55
Division No. 3	394	510	72	188	386	499	71 10	184
Division No. 4	451	848	10	407	433	830	10	40
Division No. 5	230	402	13	185	221	392	13	18
Division No. 6	6,248	5,865	561 82	178	6,189	5,804	559 79	17
Division No. 7	922	901	82	61	889	871	79	6
Division No. 8 Division No. 9	2,382	2,237 731	325	180 254	2,296 471	2,154 675	319	11
Division No. 9 Division No. 10	525 919	1,200	48 84	365	899	1.183	46 81	17 25 36
	8,522	7,953	813	244	8,467	7,894	809	230
Division No. 11 Division No. 12	412	521	41	150	362	469	40	14
Division No. 13	895	977	53	135	362 821	899	52	13
Division No. 14	1,206	1,363	161	318	1,150	1,306	157	31:
Division No. 15	821	864	83	126	725	768	80	12
Division No. 16	1.084	1,079	126	121	1,036	1,032	124	120
Division No. 17	293	371	9	87	133	213	3	8

#### TABLE 21—LIVE BIRTHS AND LIVE BIRTHS IN HOSPITAL BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1952

		TO	TAL LIV	E BIRT	HS	LIVE B	IRTHS I	IN HOSE	PITALS
CITY, TOWN OR VILLAGE	Code No.	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, occurrence elsewhere
Athabasca Barrhead Beverly Black Diamond Blairmore Bonnyville Bowness Brooks Calgary Camrose Cardston Claresholm Coleman Didsbury Drumheller Edmonton Edson Forest Lawn Fort Saskatchewan Grande Prairle Hanna High Prairie High River Innisfail Jasper Place Lacombe Leduc Lethbrigde Lloydminster Macleod Magrath McLennan Medicine Hat Olds Peace River Pincher Creek Ponoka Raymond Redcliff Red Deer Redwater Rocky Mtn. House St. Albert St. Albert Taber Three Hills Vegreville	044 045 014 405 204 035 502 205 206 603 012 207 016 606 607 016 064 404 505 404 404 505 208 209 015 208 209 015 208 209 017 203 606 607 016 064 405 205 205 206 607 012 024 806 207 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 024 806 202 80 202 80 202 80 202 80 202 80 202 80 202 80 202 80 202 80 202 80 80 80 80 80 80 80 80 80 80 80 80 80	$\begin{array}{c} 201\\ 209\\ 41\\ 184\\ 253\\ 5.090\\ 443\\ 236\\ 135\\ 477\\ 112\\ 342\\ 8.365\\ 210\\ 353\\ 147\\ 327\\ 220\\ 154\\ 17\\ 299\\ 1.272\\ 75\\ 61\\ 195\\ 720\\ 207\\ 15\\ 454\\ 106\\ 266\\ 279\\ 311\\ 134\\ 198\\ \end{array}$	$\begin{array}{r} 32\\ 62\\ 68\\ 31\\ 61\\ 109\\ 81\\ 4.059\\ 160\\ 106\\ 106\\ 73\\ 97\\ 42\\ 118\\ 5.949\\ 107\\ 42\\ 118\\ 5.949\\ 107\\ 42\\ 118\\ 5.949\\ 107\\ 42\\ 118\\ 5.949\\ 107\\ 42\\ 106\\ 59\\ 50\\ 36\\ 37\\ 421\\ 746\\ 58\\ 112\\ 999\\ 274\\ 83\\ 63\\ 47\\ 79\\ 115\\ 142\\ 56\\ 63\end{array}$	$\begin{array}{c} 170\\ 161\\ \\ 399\\ 142\\ 177\\ 1,125\\ 138\\ 138\\ 138\\ 70\\ 2\\ 84\\ 231\\ 2,487\\ 115\\ 215\\ 98\\ 270\\ 166\\ 108\\ 221\\ 573\\ 38\\ 322\\ 163\\ 311\\ 141\\ 107\\ 78\\ 108\\ 43\\ 197\\ 56\\ 193\\ 173\\ 177\\ 84\\ 141\\ \end{array}$	$1 \\ 14 \\ 68 \\ 31 \\ 59 \\ 109 \\ 5 \\ 94 \\ 8 \\ 8 \\ 52 \\ 14 \\ 77 \\ 12 \\ 33 \\ 6 \\ 5 \\ 5 \\ 6 \\ 185 \\ 11 \\ 117 \\ 17 \\ 99 \\ 13 \\ 7 \\ 5 \\ 12 \\ 8 \\ 12 \\ 44 \\ 13 \\ 18 \\ 29 \\ 17 \\ 83 \\ 13 \\ 47 \\ 6 \\ 9 \\ 8 \\ 6 \\ 6 \\ 6 \\ 185 \\ 11 \\ 117 \\ 17 \\ 5 \\ 12 \\ 8 \\ 13 \\ 13 \\ 47 \\ 6 \\ 9 \\ 8 \\ 6 \\ 6 \\ 6 \\ 185 \\ 11 \\ 117 \\ 17 \\ 5 \\ 12 \\ 8 \\ 13 \\ 13 \\ 47 \\ 6 \\ 9 \\ 8 \\ 6 \\ 6 \\ 6 \\ 185 \\ 11 \\ 117 \\ 17 \\ 5 \\ 12 \\ 8 \\ 13 \\ 13 \\ 47 \\ 6 \\ 9 \\ 8 \\ 6 \\ 6 \\ 6 \\ 185 \\ 11 \\ 117 \\ 17 \\ 5 \\ 12 \\ 8 \\ 13 \\ 13 \\ 47 \\ 6 \\ 9 \\ 8 \\ 6 \\ 6 \\ 6 \\ 185 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 1$	$\begin{array}{c} 200\\ 209\\ 41\\ 183\\ 250\\ 5,086\\ 219\\ 219\\ 135\\ 37\\ 111\\ 341\\ 8,359\\ 206\\ 351\\ 147\\ 219\\ 146\\ 298\\ 1,270\\ 69\\ 49\\ 194\\ 717\\ 205\\ 198\\ 130\\ 204\\ 104\\ 451\\ 97\\ 266\\ 278\\ 300\\ 134\\ 198\\ \end{array}$	$\begin{array}{c} 32\\ 62\\ 68\\ 31\\ 61\\ 109\\ 81\\ 4,054\\ 97\\ 73\\ 86\\ 41\\ 118\\ 5.941\\ 105\\ 35\\ 33\\ 142\\ 54\\ 61\\ 59\\ 47\\ 185\\ 88\\ 117\\ 713\\ 99\\ 47\\ 27\\ 37\\ 417\\ 74\\ 104\\ 57\\ 37\\ 417\\ 74\\ 104\\ 57\\ 37\\ 74\\ 104\\ 57\\ 99\\ 272\\ 83\\ 59\\ 47\\ 79\\ 114\\ 138\\ 56\\ 63\\ \end{array}$	169 161 39 141 174 1,124 130 70 2 8 4 230 2,485 103 223 230 2,485 103 223 230 2,485 105 221 572 25 29 162 35 29 165 105 221 572 35 29 165 105 572 35 29 165 572 35 29 165 572 35 29 165 572 35 29 165 572 35 29 165 31 31 31 39 165 174 174 174 174 174 174 174 174 174 174	$1 \\ 14 \\ 68 \\ 31 \\ 59 \\ 109 \\ 5 \\ 92 \\ 8 \\ 8 \\ 51 \\ 14 \\ 7 \\ 67 \\ 12 \\ 33 \\ 6 \\ 5 \\ 5 \\ 6 \\ 185 \\ 111 \\ 15 \\ 99 \\ 13 \\ 7 \\ 5 \\ 11 \\ 8 \\ 29 \\ 17 \\ 83 \\ 13 \\ 47 \\ 6 \\ 9 \\ 8 \\ 6 \\ 6 \\ 6 \\ 185 \\ 111 \\ 15 \\ 99 \\ 13 \\ 7 \\ 5 \\ 11 \\ 82 \\ 9 \\ 13 \\ 13 \\ 47 \\ 6 \\ 9 \\ 8 \\ 6 \\ 6 \\ 6 \\ 185 \\ 11 \\ 117 \\ 15 \\ 99 \\ 13 \\ 7 \\ 5 \\ 11 \\ 12 \\ 4 \\ 13 \\ 12 \\ 4 \\ 13 \\ 13 \\ 47 \\ 6 \\ 9 \\ 8 \\ 6 \\ 6 \\ 6 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ $
Vermilion Vulcan Wainwright Westlock Wetaskiwin	005 407 704 047 893	174 138 238 309 376		118 96 126 253 241	4 7 6 5 14	174 138 229 306 374	60 49 111 59 148	118 96 124 252 240	4 7 6 5 14

#### TABLE 22 — LIVE BIRTHS AND HOSPITAL LIVE BIRTHS BY OCCURRENCE AND RESIDENCE FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1952

#### TABLE 23-LIVE BIRTHS BY MONTH IN ALBERTA, 1952

	2,29
	 2,10
farch	 2,44
pril	 2.47
for	2 50
LOLY	0.00
une	2,52
uly	 2,65
ugust	 2.53
entember	2 45
eptember	0.00
	2,30
ovember	 2,23
lecember	 2.44
TOTAL	00.10

BLACENDOR DO BOR	1.1		A Low Mark Sol .	ATTEN	IDED BY	
CENSUS DIVISIONS	Code	TOTAL	Physician	Nurse	Midwife	Unattended and not stated
ALBERTA		29,105	28,404	177	122	402
Division No. 1	100	1.057	1.031	8	16	2
Division No. 2	200	2,226	2,134	26	50	16
Division No. 3	300	510	508			16 2 9 3
Division No. 4	400	848	836	1	2	9
Division No. 5	500	402	399			3
Division No. 6	600	5,865	5,822	12	11	20
Division No. 7	700	901	898	1	2 7 2	1918
Division No. 8	800	2,237	2,164	43	7	23
Division No. 9	900	731	717	3	2	9 7
Division No. 10	000	1,200	1,192	1		7
Division No. 11	010	7,953	7,907	10	22	34 15 52 21 67
Division No. 12	020	521	504		2	15
Division No. 13	030	977	916	2 13	7	52
Division No. 14	040	1,363	1,328	13	1	21
Division No. 15	050	864	781	11	5	67
Division No. 16	060	1,079	1,049	14	1	15
Division No. 17	070	371	218	32	14	107

.

#### TABLE 24—LIVE BIRTHS FOR CENSUS DIVISIONS BY TYPE OF ATTENDANCE, ALBERTA, 1952

and the second second			ATTEND	ED BY	
CITY, TOWN OR VILLAGE	TOTAL	Physician	Nurse	Midwife	Unattended and not stated
Athabasca	32	32			
Barrhead	62	62			0111
	68	68		****	
Beverly Black Diamond				1112	
	31	30		10.00	1
Blairmore	61	61	44.14	****	
Bonnyville	43	43	****	1010	
Bowness	109	109	****	****	
Brooks	81	81		1110	
Calgary	4,059	4.056		1	2
Camrose	160	156		3	1
Cardston	106	106			
Claresholm	73	73	A		
Coleman	97	97			10000
Didsbury	42	42		****	
Drumheller	118	118			
	5,949				2
Edmonton		5,943	4		
Edson	107	105			2
crest Lawn	35	35			
Fort Saskatchewan	33	33	****		
Grande Prairie	144	143			1
Ianna	54	54			
ligh Prairie	62	62			
ligh River	59	59			1
nnisfail	52	52		100000	1
asper Place	186	186			481.9
acombe	89	88	4444 C	1410	
educ	117	117	****	****	1
			****		
ethbrigde	716	716	41114	1913	
loydminster	99	99			ania
facleod	50	50		****	
lagrath	36	35	****	1	
IcLennan	37	37			4411
Iedicine Hat	421	419	1		1
Olds	74	74			
eace River	106	106			
incher Creek	58	57			1
onoka	112	112		****	10
laymond	90	89	****		4444
tedcliff	29	29		1	
			4.14.8	****	
ed Deer	274	274	****		
edwater	83	83			****
ocky Mtn. House	63	63		****	
t. Albert	47	47			
t. Paul	79	79			
tettler	115	115	1010		
aber	142	142			
hree Hills	56	56			
egreville	63	63			
ermilion	60	60		****	
ulcan	49	49			
Vainwright	118	118		****	
Jestlock	61	61		****	1110
Vestlock					
Vetaskiwin	149	149	and /		

# TABLE 25—LIVE BIRTHS IN INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER BY TYPE OF ATTENDANCE, ALBERTA, 1952

# TABLE 26-LIVE BIRTHS BY AGE OF PARENTS, ALBERTA, 1952

1.08

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Not stated         5         2         2         1           TOTAL         29,105         8,650         7,880         5,463         3,097         1,598         950         497         329         216         139         167         78         43         28         14         7         2         2         4

# TABLE 27-LIVE BIRTHS BY AGE OF MOTHER AND BIRTH ORDER, ALBERTA, 1952

		SING	LE	SETS	OF T	WINS	SETS	SOF	TRIPL	ETS
AGE OF MOTHER (Years)	Total Children Born	Liveborn	Stillborn	Both Liveborn	Both Stillborn	1 Liveborn. 1 Stillborn	3 Liveborn	3 Stillborn	2 Liveborn, 1 Stillborn	1 Liveborn.
OTAL	29,504	28,482	373	300	6	14	3			
	1	1								-
		1111								
	10	9	1				****			
	15	15						****		
	87	86	1						****	
	325	318	3			-			42.02	
	612	597	9		111					
***************************************	1,160	1,132	12							
	1,435	1,410	11		1	• 1				
	1,740	1,706	16							
**********	1,909	1,854	21 23	16 15	1000	1				
	1,971	1,913 1.817	28		1030	1	1			
	1,891 1,848	1.803	13			1				
	1,843	1,797	20							
	1.767	1,715	14	19					****	
	1.674	1.606	22	22		1		1.1.1		
	1,595	1.533	26	17	1					
	1,451	1,394	20	16	î		1		****	
	1,264	1.215	14	15	1000	1	î			
	1,256	1,192	14	23	1	î				
	973	918	17	17	î	ĩ			. Ann	
	862	824	10	13		ĩ				
	738	700	10	13		1				
	652	615	. 15	11						
	636	609	13	6		1				
	483	468	5	3	1	1				3
***************************************	364	347	3	7					in	
	324	307	7	5		****				
***************************************	221	206	11	1		1	· · · · ·			
	161	155	6							
	109	101	2	3						
	54	51	1	1			1000			
*****	26	25	1					****		1
	19	18	1		****		4444			
	13	10	3	1111						1
***************************************	6	6		- the	****	****			****	
second second	4	4								1
and over									****	
ot stated	5	5				****	****			- 4

# TABLE 28-MULTIPLE BIRTHS BY AGE OF MOTHER, ALBERTA, 1952

TABLE 29-MARRIAGES BY MONTH OF MARRIAGE IN ALBERTA, 1952

January February	402 535 393
March May	675 693
Jule August	1,244 996 1,090
September October November	731 975 1.072
TOTAL	708

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	AGE OF GROOM	

TABLE 30-MARRIAGES, AGE OF BRIDE BY AGE OF GROOM, ALBERTA, 1952

ANNUAL REPORT, 1952

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TOTAL MARRIAGES	MARRIAGES BETWEEN											
	Bac	helors a	nd	Wi	dowers	and	Divorced Men ar					
	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women			
9,514	8,111	213	312	144	248	48	256	55	127			

#### TABLE 31-MARRIAGES, MARITAL STATUS OF BRIDEGROOM BY STATUS OF BRIDE IN ALBERTA, 1952

#### TABLE 32—MARRIAGES, MARITAL STATUS BY AGE OF BRIDEGROOMS IN ALBERTA, 1952

AGES	TOTAL	Bachelors	Widowers	Divorced Men
TOTAL	9,514	8,636	440	438
Under 20 years	368	368		
20-24 years	4,183	4.172	2	9
25-29 years	2.578	2,498	14	66
0-34 years	1.014	895	29	90
35-39 years	454	321	33	100
0-44 years	295	182	45	68
5-49 years	191	94	50	47
0-54 years	145	60	61	24
5-59 years	92	17	53	22
0-64 years	78	16	53	93
5-69 years	48	7	38	3
0-74 years	44	2	42	
5+ years	24	4	20	
Not stated	****			

#### TABLE 32a-MARRIAGES, MARITAL STATUS BY AGE OF BRIDE IN ALBERTA, 1952

AGES	TOTAL	Spinsters	Widows	Divorced Women
FOTAL	9,514	8,511	516	487
Under 20 years	2.651	2,649	2	
20-24 years	4,061	3,997	12	52
25-29 years	1,388	1,231	39	118
30-34 years	540	364	52	124
35-39 years	325	147	74	104
0-44 years	193	67	77	49
5-49 years	121	34	69	18
0-54 years	73	12	47	14
5-59 years	66	5	57	. 4
0-64 years	39		36	3
5-69 years	30	3	26	1
0-74 years	19		19	
5+ years	6		6	
Not stated	2	2		

								BI	RTH	IPLA	CE	OF	BRII	DE					
	10							Can	ada										
BIRTHPLACE OF GROOM	TOTAL GROOMS	TOTAL	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other and prov- ince unspecified	British Isles and possessions	Europe	Asia	United States	Other	Unspecified
CANADA	7559	7120	2	7	32	18	38	147	187	1077	5465	139	8	142	195	3	93	5	1
Newfoundland Prince Edward	.9	8									7	1		1					
Island	16	15		4				2		2	7				1		3		
Nova Scotia New Brunswick	87 46	80 43			9 33	4	1	2 6 2 7 42	2 3 2 15	11 5 9	47 26	3		1 2	312		1		
Quebec Ontario	92 346	84 299		1	1	221215	85	42	15	40	54 185	1 8	1	21 21 10	8	1	4	****	
Manitoba Saskatchewan	324 1315	301 1247	2		127	1 2	28	6 26	32 38	53 418	195 728	8	2	10 22	5 29	2	8 12		1
Alberta	5085	4822		2	9	5	14	49	83	518	4062	76	ã	78	139		44	22	
British Columbia Other and prov-	231	214			1	1		7	12	21	148	24		5	7		4	1	****
ince unspecified British Isles and	8	7			ún						6		1	1			-++++		****
possessions	368	238		2		22	2	14	6	35	170	4		89	14		26	1	
Europe Asia	1159 21	440	****		1	2	6	11	9	44	359	7	1	26 1	671 3	2 11	18	2	
United States Other	398	280 5		1	2	1	5	7	14	43	201	5	1	17	22 3	1	76	21	
Unspecified				++++															
TOTAL	9514	8089	2	10	38	23	51	179	216	1200	6204	156	10	275	908	17	213	11	1

#### TABLE 33—MARRIAGES, BIRTHPLACE OF GROOM BY BIRTHPLACE OF BRIDE, . ALBERTA, 1952

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# VITAL STATISTICS BRANCH

11 1	Unspecified of unknown	
	Non-religious denominations	14H4
	Other religions	
	United Church of Canada	71112 1960 4 4 4 4 3 3 1 4 1 9 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Swedenborgians Unitatians	
	Spiritualists	
	Society of Friends	
	Salvation Army	I 0
	Roman Catholics	224 119 133 11 11 11 11 11 119 119 119 119
	Presbyterians Reformed Churches (Christian)	01-11 1 22 22 01-11 1 1 22 22
	Plymouth Brethren	
DE	Pentecostal Assemblies	
BRIDE	Oriental religions	
OF I	Inor-denominational	
	Mormons	
OIL	Motavian Church	
INA	Methodists	
DENOMINATION	Mennonites	
DEN	Lutherans	10 10 11 11 11 H 1 H 1 H
	International Bible Students Jewish	
OIE	Holiness Movement	
RELIGIOUS	Greek Catholic Churches	101 110 2226
R	Gospel bodies	
	Evangelicals	H 84 N
	Eastern Orthodox Churches	117 117 119 119
	Doukhobors	
	Church of God	1 1 1 4
	Churches of Christ (Disciples)	6 6 6
	Christian Scientists	
	Christian Missionary Alliance	
	Christians	
	Christadelphians	
	Brethren including United	23 23 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25
	Apostolic bodies Baptists	
	Anglicans	3322 7 128 11 1 112 30 1131 3 32 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	Total Grooms	$\begin{array}{c} 1056 \\ 1056 \\ 320 \\ 320 \\ 14 \\ 12 \\ 10 \\ 11 \\ 10 \\ 10 \\ 360 \\ 360 \\ 360 \\ 360 \\ 360 \\ 360 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380 \\ 380$
	RELIGIOUS DENOMINATION OF GROOM	Adventists Anglicans Anglicans Baptists Baptists Bethren including United Christian Missionary Alliance Christian Scientists Churches of Christ Churches of Christ Churches of Christ Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches Churches C

TABLE 34-MARRIAGE, RELIGIOUS DENOMINATION OF GROOM BY RELIGIOUS DENOMINATION OF BRIDE, ALBERTA, 1952

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	19		95
Moravian Church Mormons Non-denominational Oriental religions Pentecostal Assemblies Pyresbyterians	(Christian) Roman Catholics Salvation Army Society of Friends Spiritualists Swedenborgians Unitarians Unitarians Unitarians Canada	Other religions Non-religious denom- inations Unspecified or unknown	Total brides

PERIOD OF GESTATION	Male	Female
4 weeks	1	
3 weeks	4444	
3 weeks	13	1 7
) weeks	6	5
) weeks	14	25
l weeks	4	
weeks	21	14
weeks	2	5
weeks	12	4
5 weeks	9	14
weeks	25	24
weeks	7	9
weeks	13	18
weeks	8	9
weeks	50	53
weeks	3	4
weeks	3	8
weeks	1	1
weeks		1
weeks	4144	
weeks	1	100
weeks		
weeks		
ot stated	3	2
OTAL	196	203

TABLE 35-STILLBIRTHS BY SEX AND PERIOD OF GESTATION IN ALBERTA, 1952

		Divorce	5	1	Nullities	
Judicial Districts	Number of Divorces	Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife
Edmonton Calgary Lethbridge Medicine Hat Peace River Grande Prairie	323 246 20 11 9	116 97 6 8 2	207 149 14 3 7	24		23
Hanna Red Deer Drumheller Fort Macleod Wetaskiwin	8 5 2 6	1 3 1 5	7 2 1 1	····· ·····		1419 1419 1419 1419
Total	630	239	391	6	1	5

# TABLE 36—DIVORCES AND NULLITIES BY JUDICIAL DISTRICTS FOR THE YEAR 1952, ALBERTA

Year	Granted to Husband	Granted to Wife	Total
19	3	3	6
20	74	26	100
01	53	37	90
99	80	49	129
99	57	32	89
04	66	53	110
95	59	42	101
0.0	79	75	154
07	83	66	149
90	91	84	143
20	77	71	140
20	64	87	148
01	69	87	151
99			100
00	68	81	149
33	56	79	135
34	62	106	168
35	74	135	209
36	74	135	209
37	102	139	241
38	105	162	267
39	104	163	267
40	119	154	273
41	135	176	311
42	179	201	380
43	190	223	413
44		243	488
45	302	273	575
46	494	480	974
47	404	478	882
48	302	357	659
49	262	332	594
50	249	311	550
51	255	334	589
52	239	301	630

DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

te Death Rate Rate of Per 1,000 Natural Births	6.33     114.07       6.33     6.33       6.33     114.07       6.33     114.07       6.33     114.07       8.65     114.07       8.75     114.07       8.83     114.07       8.48     117.84       6.13     5.48       6.13     5.48       6.13     5.48       6.13     5.48       6.13     5.48       6.13     5.143       6.13     5.143       6.13     5.143       6.148     114.24       6.158     114.01       6.168     114.186       6.168     114.186       6.168     116.16       6.168     116.16       6.168     116.16       6.168     116.16       6.168     116.16       6.16     116.16       6.16     116.16       6.16     116.16       6.16     116.16       6.16     116.16       6.16     116.16       6.17     116.16       6.18     116.16       6.19     116.16       7.26     116.16       7.27     114.01       7.28     125.2       7.29     12	
Infantile Death Rate per 1.000 Births	90.00 126.57 126.57 126.57 126.57 126.57 127.40 1107.10 1107.10 126.57 126.57 126.57 126.57 126.57 176.57 176.57 176.57 176.57 176.57 176.57 176.57 176.57 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 1	510
Death Rate	7,286 8,288 10,58 10,58 10,58 10,58 10,58 10,58 10,58 11,72 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73 11,73	80
Number of Deaths	114 1.578 2.662 2.1878 2.5862 3.526 3.526 4.432 4.432 4.432 4.432 4.432 4.432 4.432 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.520 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529	6 385
Marriage Rate	6.77 6.77 7.63 7.63 7.63 7.63 7.63 7.63	10.7
Number of Marriages	$\begin{array}{c} 187\\ 1.9027\\ 2.032\\ 3.630\\ 3.6306\\ 3.63086\\ 3.63086\\ 3.6302\\ 3.63086\\ 3.6429\\ 5.032\\ 5.032\\ 4.270\\ 4.167\\ 4.270\\ 4.270\\ 5.110\\ 5.110\\ 5.110\\ 5.110\\ 5.110\\ 5.110\\ 5.110\\ 5.110\\ 5.110\\ 5.110\\ 5.032\\ 5.054\\ 5.054\\ 5.054\\ 5.054\\ 5.055\\ 5.054\\ 5.056\\ 6.010\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6.020\\ 6$	8.470
No. of Births Received to Date	$\begin{array}{c} 4,032\\ 5,900\\ 7,495\\ 7,495\\ 7,495\\ 7,495\\ 7,495\\ 10,732\\ 10,732\\ 10,732\\ 15,655\\ 15,658\\ 16,155\\ 15,669\\ 15,669\\ 15,669\\ 15,669\\ 15,796\\ 16,123\\ 16,123\\ 16,123\\ 17,426\\ 17,728\\ 16,123\\ 16,422\\ 16,422\\ 16,422\\ 16,422\\ 16,422\\ 16,422\\ 16,6915\\ 16,422\\ 16,6915\\ 16,6915\\ 16,6915\\ 16,6915\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 16,692\\ 1$	17.590
Rate Birth	2041 2041 2041 2041 2041 2041 2041 2041	21.7
Number of Births	421 3,003 421 5,973 5,973 5,973 5,973 5,973 5,973 8,321 8,321 8,321 8,321 13,576 13,465 13,465 13,465 13,465 13,465 14,490 14,890 14,890 14,890 14,890 14,890 16,163 15,163 15,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,163 16,16	17.308
Population	185,000 286,000 286,000 373,000 373,000 373,000 374,000 4429,000 4429,000 558,000 558,000 558,000 558,000 558,000 558,000 558,000 558,000 558,000 558,000 558,000 558,000 558,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,000 572,	796.169
Year	1905 1905 1906 1910 1911 1911 1913 1914 1914 1915 1915 1915 1925 1925 1925 1925 1925	

7-POPULATION, BIRTHS, MARRIAGES, DEATHS, AND RATES FOR THE YEARS 19

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# VITAL STATISTICS BRANCH



Year		Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths
1905		1.059	3.13	1928	1.064	2.75
1906		1.094	2.07	1929	1.042	2.71
1907		1.075	2.96	1930	1,027	3.21
1908		1.077	2.73	1931	1,075	3.25
909		1.086	2.59	1932	1,052	3.08
1910		1,065	2.69	1933	1,053	3.01
911		1,103	2.43	1934	1,032	3.04
912		1,084	2.43	1935	1,055	2.81
913		1.053	2.67	1936	1,049	2.57
914		1.081	3.30	1937	1.019	2.38
1915		1,000	3.74	1938	1.046	2.70
916		1.063	3.29	1939	1,046	2.85
917		1.061	3.25	1940	1,033	2.79
918		1.069	1.88	1941	1,054	2.71
919		1.074	2.56	1942	1,058	3.02
920		1.055	2.92	1943	1,041	2.96
921		1,055	3.32	1944	1,060	3.06
922		1,034	3.06	1945	1,061	3.08
923		1.072	3.13	1946	1,036	3.36
1924		1,036	2.97	1947	1,061	3.76
925		1,036	2.97	1948	1.049	3.44
926		1.053	2.80	1949	1,051	3.52
927		1.065	2.94	1950	1,052	3.74
1928		1,064	2.75	1951	1,039	3.76
				1952	1,058	3.95

# TABLE 38-RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS



