Contributors

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ANNUAL REPORT

OF THE

Department of **Public Health**

PROVINCE OF ALBERTA

INCLUDING

Vital Statistics Division 1953

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON PRINTED BY A. SHNITKA, QUEEN'S PRINTER 1955

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OF THE

Department of Public Health

PROVINCE OF ALBERTA

INCLUDING

Vital Statistics Division 1953

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY





December 31, 1954.

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 1953.

I have the honour to be, Sir,

Your obedient Servant,

WALLACE WARREN CROSS, Minister of Health.



December 31, 1954.

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

SIR:

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

I have the honour to be be, Sir,

Your obedient Servant,

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



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

Divisions:

- 1. General Administration.
- 2. Communicable Diseases.
- 3. Health Units.
- 4. Entomology.
- 5. Cancer Services.
- 6. Public Health Education.
- 7. Nutrition Services.
- 8. Municipal Nursing.
- 9. Social Hygine.
- 10. Provincial Laboratories.
- 11. Sanitary Engineering.
- 12. Hospital and Medical Services.
- 13. Nursing Aides School.
- 14. Arthritis Services.
- 15. Cerebral Palsy Clinics.
- 16. Canadian Red Cross Blood Transfusion Service.
- 17. Tuberculosis Control-

Sanatoria: Aberhart Memorial Sanatorium, Edmonton. Central Alberta Sanatorium, Calgary.

18. Mental Health-

Institutions: Provincial Mental Hospital, Ponoka.

Provincial Auxiliary Mental Hospital, Claresholm.

Provincial Auxiliary Mental Hospital, Raymond.

Provincial Mental Institute, Edmonton. Provincial Training School, Red Deer.

Rosehaven, Camrose.

Guidance Clinics.

Eugenics Board.

19. Vital Statistics.

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

PROVINCIAL BOARD OF HEALTH

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

There was one change in the membership of the Board brought on by the resignation of Mr. W. A. Dexter as Provincial Sanitary Engineer. Mr. Dexter was succeeded by Mr. H. L. Hogge as Provincial Sanitary Engineer and, therefore, as a member of the Board.

REGULATIONS PASSED OR AMENDED DURING THE YEAR

O.C. 111/53 and O.C. 112/53. Amendments to Provincial Board of Health Regulations respecting Nuisances and General Sanitation Nuisances. The regulations were renumbered to agree with other Provincial Board of Health Regulations. A new regulation was inserted in the section dealing with outside closets providing authority to Local Boards of Health to give instruction concerning the location of oustide closets on through lots. Another new regulation provided authority to Local Boards of Health to supervise public toilet rooms. Changes were made in the slaughter house section of the regulations to require provision of hot and cold water in slaughter houses and to make those slaughter houses slaughtering animals for animal food subject to applicable portions of the regulations. Previously, the regulations only applied where animals were slaughtered for food for humans. A new regulation was inserted providing that no animal or poultry may be slaughtered under conditions which may constitute a hazard to the health of the public.

O.C. 534/53. Provincial Board of Health Regulations for the Control of Communicable Diseases. Existing regulations for the Control of Communicable Diseases were rescinded and replaced by new regulations under this Order. The list of notifiable diseases was greatly reduced from that appearing in the old regulations. Also, the methods of notification of some diseases was changed in an effort to improve notification. The list of diseases for which placarding is required was also reduced. A new regulation provides means of dealing with cases of communicable diseases occurring in living quarters attached to restaurants for the protection of the public. The old regulations dealing with limitation of movement in and out of the province and with action to control communicable diseases in railway trains were omitted from the new regulations as not being generally applicable. The new regulations dealing with the responsibility of the Local Health Authority to secure isolation and quarantine provide that the municipality in which the case is discovered is responsible for expenses not borne by the patient except hospital charges. A new regulation prohibits treatment of persons suffering from communicable diseases for gain by any person other than a registered medical practitioner or a nurse working under supervision. Changes in the requirements of the regulations in respect to notification, placarding, isolation and quarantine for certain specific diseases were made where this was justifiable.

O.C.1173/53. Provincial Board of Health Regulations regarding Plumbing and Drainage. This Order-in-Council rescinded existing Plumbing and Drainage Regulations and replaced them with new regulations. The administration portion of the new regulations requires urban municipalities having a population in excess of 2,000 or possessing water or sewer systems to provide plumbing inspectors. The scope of the regulations has been altered so that the new regulations do not apply to plumbing installations in onefamily dwellings not connected to public water or sewer systems. All private sewage disposal systems are within the scope of the regulations. The technical portion of the new regulations conforms with the National Building Code except in some instances where conditions in Alberta made necessary certain deviations.

A widespread outbreak of poliomyelitis affected the province during the year. Numbers of cases began to appear in August and the epidemic continued through the remainder of the year. Following consideration of the outbreak, the Board supplied Local Boards of Health with information concerning the transmission of the infective organism and published information in newspapers advising the public of precautions which should be taken. In an effort to reduce the spread of the disease, the Board ordered the exclusion of children under 16 from theatres and public gatherings from the middle of August to the middle of September. The Board also ordered that the opening of schools throughout the province be delayed until September 14th, 1953.

During the year a number of cases of persons who were suffering from tuberculosis in an infectious form and who were refusing treatment were drawn to the attention of the Board. After proper investigation of the cases, the Board issued thirty Orders covering the removal of such persons to hospitals and sanatoria for treatment under the provisions of the Communicable Disease Regulations.

Following up the recommendations made in the report on the pollution of the Bow River made in 1952, the Board during 1953 issued instructions to the City of Calgary and the Town of High River requiring them to provide primary treatment for their sewage. The North Saskatchewan River also received attention particularly in reference to the effect of wastes being deposited in this river by industries in the greater Edmonton area.

A number of other matters related to public health were on the agenda of the meetings of the Board and received attention. Throughout the year, the Board gave its guidance and assistance to the various Divisions of the Department and co-related their activities into an overall programme designed to improve the health of the citizens of the province.

LEGISLATION PASSED DURING THE YEAR

Cancer Remedy Act Repeal Act (Chapter 14).

This Act repeals The Cancer Remedy Act, being chapter 188 of the Revised Statutes of Alberta, 1952.

This Act was obsolete and is therefore, repealed.

This Act came into force on March 31st, 1953.

Alberta Health Insurance Act Repeal Act (Chapter 50).

This Act repeals The Alberta Health Insurance Act, being chapter 204 of the Revised Statutes of Alberta, 1942.

This Act was replaced by The Alberta Health Insurance Act, 1946, and was to have been repealed thereby but the later Act did not come into force. The earlier Act was not in a form that could be implemented and it is therefore repealed.

This Act came into force on March 31st, 1953.

Alberta Health Insurance Act, 1946, Repeal Act (Chapter 51).

This Act repeals The Alberta Health Insurance Act, 1946, being chapter 3 of the Statutes of Alberta, 1946.

This Act was enacted in 1946 and was to come into force upon proclamation. It has never been proclaimed and it is not in a form that could be implemented, and it is therefore repealed.

This Act came into force on March 31st, 1953.

Health Unit Act Amendment Act (Chapter 52).

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

In certain more isolated areas within health units, municipal nurses are presently employed under the provisions of The Nursing Service Act. In other isolated areas within health units, it appears desirable to employ the services of municipal nurses in addition to the health unit nurses. At the present time the municipal nurses are employed by the municipalities requiring the service of a municipal nurse and if the municipality, or the portion of it within which the municipal nurse is employed, is within a health unit, approximately one-fifth of the municipal nurse's services are a duplication of the services of the health unit nurse. Also, those people who are served by the municipal nurse are levied upon for the municipal nurse service and pay with the other residents of the health unit, through their taxes for the services of the health unit nurse.

The amendments to section 2 and section 10 (except the amendment to clause (f), and the new section 9a), all deal with the matter of municipal nurses. The effect of these amendments is

- (a) to define a municipal nurse for ease of reference,
- (b) to provide that for each municipal nurse employed in a municipal nursing service administered by the health unit board, the population required for the employment of a health unit nurse shall be increased by one-fifth in the computation of population,
- (c) to permit a health unit board, by agreement with the municipalities concerned, to administer their nursing service and to assume a portion of the municipalities' cost therefor.

The effect of the amendment to clause (f) of subsection (1) of section 10 is that now (instead of a part-time sanitary inspector being authorized for a population of twenty thousand or over as formerly) for every ten thousand of population over twenty thousand and or any multiple of twenty thousand, a student sanitary inspector may be employed by the board of the health unit.

This Act came into force on March 31st, 1953.

Hospitalization and Treatment Services Act (Chapter 56).

This Act enacts a new Act to be known as "The Hospitalization and Treatment Services Act".

The Minister of Health is authorized to provide for part or all of the costs of hospitalization and treatment services for a person and his dependents residing in Alberta. The person must be in receipt of provincial old age assistance, or mothers' allowance, or a supplementary allowance, or a widow's pension and must not be the responsibility for health and welfare services, of the Government of Canada.

The Minister may provide the costs of hospitalization and treatment services for persons under twenty-five years of age who are resident in Alberta and suffering from the effects of rheumatoid arthritis. This does not apply to persons who are the responsibility of the Government of Canada for health and welfare services.

Also, the Act enables the Minister to provide for the costs of similar services in the case of recipients of Canadian old age pensions or old age security benefits if they have resided in Alberta for three years prior to their application and if they can qualify to a test of means which is set out in section 5. These recipients must not be the responsibility of the Canadian Government for health and welfare purposes.

The Minister is empowered to make agreements with approved hospitals with respect to treatment services for the persons entitled to benefits under this Act. He may also pay for hospitalization and treatment services in an approved hospital that does not enter into an agreement for such purposes but the person receiving the treatment is required to submit the account to the Minister.

The same benefits may be given under section 8 to persons afflicted with cerebral palsy.

Agreements may be entered into with other provinces having similar legislation whereby residents of that province in Alberta may receive benefits under this Act and Alberta residents in that other province receive benefits under the Act or Acts of that other province.

The Minister, with the approval of the Lieutenant Governor in Council, may pay to any general hospital operating a school of nursing a sum not exceeding three hundred dollars for each nurse trained in and graduated from that school, and may pay to any general hospital operating a school of nursing the sum of one hundred dollars for each graduate of the school of nursing of any provincial mental hospital who received approximately two years of her training in the said general hospital.

With the approval of the Lieutenant Governor in Council, the Minister may subsidize any insurance organization or company that provides a policy or scheme of insurance for Alberta residents covering all or part of the costs of the special hospital services not provided under standard ward hospitalization, and may make regulations with respect to the subsidy.

The Minister may make regulations concerning applications, investigations, defining and determining income for the purpose of section 5, and such regulations as may be necessary to effect the purposes of the Act.

The expenses incurred in administering the Act are to be met by moneys appropriated for the purpose by the Legislature.

This Act came into force on March 31st, 1953.

Hospitals Act Amendment Act (Chapter 57).

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

Section 2 is amended by the addition of clause (m) defining "special hospital services".

Sections 3h, 3i, 3j, 3k, 3l, and 3m are added to the Act. Section 3h provides for the designating of special hospital services by the Lieutenant Governor in Council.

Section 3i provides for the payment by the Minister of a refund for special hospital services in the case of municipal hospital district boards and local authorities entitled to the hospitalization grant provided for by this Act. The refund will not exceed fifty per cent of the amount remitted or paid by the board or local authority on account of special hospital services supplied a ratepayer or contract holder.

Section 3j provides for the payment or reimbursement for special hospital services in the case of a ratepayer or contract holder hospitalized in a hospital other than the municipal hospital district hospital, or an approved hospital with which the board or local authority has a special hospital services agreement. Section 3k prohibits the payment of a special hospital services grant in respect of a person referred to in section 3d.

Section 31 provides for the making of regulations in connection with the administration and payment of special hospital services reimbursement payments.

Section 3m provides that the Province's share of the costs of providing the special hospital services refund and reimbursement be paid out of moneys appropriated therefor by the Legislature.

This Act came into force on June 1st, 1953.

Mental Diseases Act Amendment Act (Chapter 73).

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

Section 2 is amended. "Hospital" is redefined. "Psychiatric ward" is redefined to mean a part of a hospital declared by the Lieutenant Governor in Council to be a psychiatric ward. "Superintendent" is redefined to mean the superintendent of the mental hospital, where such is concerned, or the superintendent of the hospital in which there is established a psychiatric ward, where such wards are concerned.

Part II is amended by striking out sections 35 to 44 and by substituting therefor new sections. Section 35 permits the Lieutenant Governor in Council to declare a part of an approved hospital to be a psychiatric ward.

Section 36 sets out the duties of the superintendent with respect to a psychiatric ward.

Section 37 provides that no one is to be admitted to or hospitalized in a psychiatric ward otherwise than in accordance with Part II.

Section 38 provides that upon the application of a medical doctor, consented to by the superintendent, a person who has signed an application or for whom an application has ben signed by the spouse, relative or guardian, may be admitted to a psychiatric ward if no coercion is necessary to have him so admitted.

Section 39 prohibits the admission of certain mental and other cases such as alcoholics, drug addicts, persons suffering from senility, or a communicable disease, mental hospital patients and certain persons out of penal institutions.

Section 40 permits the superintendent to refuse admission to prevent overcrowding in the ward.

Section 41, subsection (1) provides when a patient shall be discharged from a psychiatric ward. Subsection (2) provides that no patient shall be kept in a psychiatric ward for a longer period than three months in a twelve month period.

Section 42 authorizes such restraint of the patient as may be necessary for his treatment.

Section 43 provides for the discharge of a patient.

Section 44 authorizes the Lieutenant Governor in Council to make necessary regulations to implement the intent of Part II.

This Act came into force on June 1st, 1953.

Municipal Hospitals Act Amendment Act (Chapter 83).

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

Section 47a is new. This Act did not clearly define the time when a newly elected member of a municipal hospital board took his office. Section 47a provides that a newly elected member takes office at a meeting subsequent to the declaration of the returning officer as to the results of the poll. A member of the board holds office until his successor takes his oath of office which must be taken by a member of the board before entering upon his duties.

Section 71 is amended. Subsection (2) is renumbered as subsection (4). New subsections (2) and (3) are added. The effect of the amendment is to permit a board which has once obtained authority for an increased capital expenditure and which later finds that its estimate of the additional amount required is inadequate, to borrow a further additional amount for capital expenditure. If the amount required is not over forty thousand dollars or thirty per cent of the original estimate, whichever is less, they may borrow with the approval of the Minister and the Board of Public Utility Commissioners. If the additional amount required is greater, however, they must obtain approval by a vote, in addition to the approval of the Minister and the Board.

Section 73, subsection (1a) is amended. The effect of this amendment is to make this section conform with The Assessment Act, as amended, in respect of equalizing the distribution of requisitions where different index values for assessment have been used by contributing municipalities.

This Act came into force on March 31, 1953 and the amendments to section 73 are retroactive to January 1st, 1953.

Poliomyelitis Sufferers Act Amendment Act (Chapter 91).

This Act amends The Poliomyelitis Sufferers Act, being chapter 193 of the Revised Statutes of Alberta, 1942.

Section 2a is new. By it the Minister of Health, with the approval of the Lieutenant Governor in Council, is empowered to appoint a medical supervisor in every hospital which has entered into an agreement under this Act to supervise the care and treatment of the poliomyelitis sufferers who have been admitted to such hospital, or who require further treatment as out-patients after discharge from hospital; the Minister is also authorized to provide medical and surgical care for persons suffering from the effects of this disease.

Section 3 is repealed as this provision is now to appear in another Act.

Section 5 is new. It enables the Minister of Health to make any necessary rules or regulations to carry out the intent of this Act.

This Act came into force on March 31st, 1953.

Solemnization of Marriage Act Amendment Act (Chapter 106).

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

A new section 7a is added. This section provides that a license issuer under this Act is ex officio a commissioner for taking affidavits. It further provides that affidavits heretofore or hereafter taken by a license issuer shall have the same force as an affidavit taken by a commissioner under the Commissioners for Oaths Act. Sections of this Act require affidavits to be "made or delivered to" a license issuer but heretofore there was no express authority for a license issuer to take the required affidavits.

This Act came into force on the 1st day of July, 1953.

Tuberculosis Act Amendment Act (Chapter 117).

This Act amends The Tuberculosis Act, being chapter 195 of the Revised Statutes of Alberta, 1942.

Section 2, clause (c) is amended to remove the reference to the Central Alberta Sanatorium.

Section 3 is amended. The effect of the amendment is to remove the reference to the Central Alberta Sanatorium, and to permit the Minister, with the approval of the Lieutenant Governor in Council, to operate sanatoria for the treatment of tuberculosis without reference to any particular sanatorium.

This Act came into force on March 31st, 1953.

DEPARTMENT OF PUBLIC HEALTH

REVENUE AND EXPENDITURE FOR FI	and the second se		17 91 1054
REVENUE AND EXPENDITURE FOR FI			
and Administration (Commits)	Salaries \$ 11.558.90	Expenses \$ 3,165,75	Revenue \$
601. Administration (General) 602. Administration (General)	\$ 11,558.90 55,712.76	\$ 3,165.75 2,449.59	2.227.54
		4.641.47	
618. Administration (Postage) 603. Hospitals Division—Administration and		4,041.41	
Grants	8.249.24	1.384.149.54	55.00
605. Communicable Diseases	5,421.19	77,768.57	00.00
605. Sanitary Engineering	22,977.96	12,347.52	4,416.53
606. Municipal Nursing	7.549.42	121.352.89	53,404.21
607. Bureau of Vital Statistics	53,544.63	10,231.10	103,588.34
608. Municipal Hospitals	6,493.69	1.872.40	
609. Insulin		9.350.28	
610. Social Hygiene	47.546.95	18,324.25	32,225.99
622. Mental Health	31.123.59	12,774.38	
626. Public Health Laboratory		251,116.64	32,511.95
631. Poliomyelitis		816,275.89	
633. Cancer Clinics	108,043.21	397,170.89	236,898.30
637. Maternity Hospitalization	4,631.55	2,023,511.82	
638. Civil Service Nurse	3,030.79	2,070.73	
639. Public Health Education	11,040.13	4,568.17	
640. Division of Entomology	7,600.39	5,774.50	00.000.00
641. Health Units	5,787.53	343,373.33	93,382.29
643. Nursing Aides Act	5,990.51	1,082.56	1,626.00
644. Pensioners, Hospital and Medical	15 174 10	2.424.060.23	
645. Health Services, Extension Programme	15.174.18 361.883.63	536,480.21	636,992.24
646. Hospital Construction Grants	001,000.00	1.256,803.56	1.025.876.62
647. Grants to Local Authorities	13,510.45	2,216,432.69	
648. Grants for Public Health Services	10,010.40	58,437.89	
649. Alcoholic Foundation of Alberta		43,309.63	
651. Division of Cerebral Palsy Clinics	31.616.52	4,119.44	39,145.41
652. Division of Arthritis Services	10.883.18	6.435.44	
S.W. No. 49 Hospital Finance and Fact Find-	20,000120		
ing Committee		1,002.50	
ing Committee S.W. No. 49 Hospital Construction Grant to			
City of Calgary as assistance towards con-			
struction of Psychiatric Unit at Calgary		and the second	
General Hospital		70,000.00	
Institu	tions		
604-1. Division of Tuberculosis Control	24,231.26	45,491.90	
604-2. Central Alberta Sanatorium,	54,501,50	40,401.00	
Calgary	512.849.78	254,548.31	204,639.62
604-3. Aberhart Memorial Sanatorium,	012,010.10	2011010101	
Edmonton	490,351.31	173.734.28	223,806.63
612-1			
613-2. Prov. Mental Institute, Oliver	790,465.59	347,474.79	254,996.24
612-2. Prov. Training School, Red Deer	442,088.57	173,186.29	112,497.30
612-3. Prov. Mental Hospital, Ponoka	1.022,541.07	491,610.22	335,538.87
010-1,]	1,022,041.07	401,010.22	000,000.01
612-4. Prov. Auxiliary Mental Hospital,	17 001 00	01 050 07	17 000 45
612-5. Prov. Auxiliary Mental Hospital	47,334.86	31,259.67	17,229.45
612-5. Prov. Auxiliary Mental Hospital Raymond	65,604.15	27,002.14	21,798.84
650. Rosehaven, Camrose	189,127.66	63,191.35	180,201.54
goo. Rosenaven, camose mannament	100,121.00	00,101.00	100,201.04
	\$4,413,964.65	\$13,727,952.81	\$ 3,613,058.91
Total Expenditure—Department of Public He	alth		\$18,141,917.46
Less: Public Helath Revenue			3,613,058.91
Net Expenditure—Department of Public H	ealth		\$14,528,858.55
			Statement Street

Vital Statistics

Vital Statistics registered during the year are as follows:

Births	31,376
Marriages	10,126
Deaths	7,646

In all cases where rates are shown, such rates are based on a population of 1,002,000, this being the estimated population figure for 1953. 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 1948 to 1953:

Year	No. of Births	Birth Rate	No. of Marriages	Marriage Rate	No. of Deaths	Death Rate
1948	24,075	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
1953	31,376	31.30	10,126	10.10	7,646	7.60

The birth rate for 1953 is 31.3 as compared with 30.0 for 1952. The marriage rate for 1953 is 10.1 as compared with 9.8 for 1952. The death rate for 1953 is 7.6, the same rate as for the previous year.

The general death rate in Alberta at 7.6 per thousand can be considered good. There have, however, been some changes in the causes of death which call for thought. A study of the list of causes of death for 1953 shows that tuberculosis is no longer in the first ten causes of death. This disease is far from finished but one can now dream of its eventual elimination. In 1952 poliomyelitis first appeared among the first ten by taking tenth place with 79 deaths. In 1953 it has superseded tuberculosis, suicides and diabetes mellitus to reach seventh place with a total of 108 deaths.

The big three still retain their position with diseases of the heart, cancer and cerebral homorrhage in first, second and third place. However, the death rate for these three is down slightly.

In maternal deaths (0.7) and infant deaths (30) Alberta has a better than average rate in Canada. However, better infant death rates exist in other countries to show that our job is incomplete.

More detailed information is available in the report of the Vital Statistics Division.

General Health Conditions

For two years Alberta has failed to make a gain in the general death rate, the 1951, 1952 and 1953 rates being identical at 7.6 per thousand. With the increasing number of older people in Alberta, it is quite possible that we are reaching the stage where a continued drop in death rate cannot be achieved.

During 1952 and 1953 Alberta has had the two worst epidemics of poliomyelitis in its history. No explanation has been found for the occurrence of two major epidemic years in a row nor has any explanation been found for the unusual incidence of cases during November and December, 1953, and extending over into January and February of 1954. This high incidence of poliomyelitis has made it the major communicable disease in place of tuberculosis. It has replaced this disease as a cause of death and as a cause of permanent disability and has placed a heavy burden on the hospital services under The Poliomyelitis Act.

During the 1953 epidemic gamma globulin was used extensively

with rather indefinite results. The evidence in relation to this experiment was hard to get and even harder to evaluate. This general idea was experimented with in Alberta from 1928 to 1941. At that time blood was collected from persons who had recovered from poliomyelitis and the serum was supplied by the Provincial Laboratory for use with exposed children. The service was discontinued because it had been impossible to get information to *prove* that is was effectual. The dose used at that time was 15 c.c. serum in the earlier stages and 20 c.c. in the later period. This dose is considerably less than the amount of gamma globulin used in 1953 which was equivalent to a pint of whole blood. However, that point is offset to some extent when one considers that the serum in the earlier Alberta experiment was from persons who had recovered from polio, while the gamma globulin used recently was obtained from the general population.

Deaths due to accident has retained the fourth place among the causes of death in Alberta. This is much to high for a cause that is fundamentally preventable. Of a total of 667 accidental deaths, motor vehicles tops the list with 263.

Local Health Services

It is pleasing to see the continued expansion of Health Units throughout rural Alberta. During 1953 one new Health Unit was established, namely, the Barons-Eureka Health Unit at Coaldale. This brings the total of rural Health Units to 15 covering a population of about 410,118 people.

Further information can be found in the report of the division.

Federal Health Grants

The Federal Health Grants are now in their sixth year. An additional amount of money has been made available for a variety of public health purposes. This money can only be obtained through a "project" which must have the approval of federal authorities.

The official figure for the 1953/54 fiscal year are as follows and Alberta stands second in the use of these grants among the provinces of Canada.

	Amount	Projects	Approved
Grant	1953/54	Amount	Percentage
Crippled Children	\$ 36,073.00	\$ 36,073.00	100 %
Professional Training	36,073.00	32,079.71	88.9%
Hospital Construction	766,575.00	742,975.26	96.9%
Venereal Disease Control	36,073.00	36,073.00	100 %
Mental Health	424,804.00	424,345.51	99.8%
Tuberculosis Control	252,439.00	252,439.00	100 %
General Public Health	535,000.00	525,086.32	98.1%
Cancer Control	241.917.00	241,917.00	100 %
Laboratory and Radiological Services	291,000.00		
Medical Rehabilitation	16,620.00	11.893.20	71.5%
Child and Maternal Health	4,273.00		
TOTAL	\$2,640,847.00	\$2,302,882.00	87.2%

Detailed reports of the work of the various divisions of this department will be found in the reports of those divisions.

I would like to record here my appreciation of the co-operation received from the Directors of the various divisions of the Department and my sincere thanks for the excellent work done by the numerous employees.

Respectfully submitted,

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

Communicable Diseases

C. E. ANDERSON, M.D., Director

The work of the Division falls under two headings:

1. Communicable Disease Control.

2. Supervision of Health Units.

1. COMMUNICABLE DISEASES

It is the responsibility of this Division to supervise generally the control of communicable diseases throughout the Province. Direct control is by the Local Health Authorities in organized areas. In unorganized areas, the Division acts directly. The Cities of Edmonton, Calgary and Lethbridge have well organized Health Departments; two of the smaller cities—Red Deer and Medicine Hat—are serviced by the Health Units with these municipalities as contributing authorities. The Boards of the Health Units act as the local authority, and the Medical Officer of Health of the Health Unit as the Health Officer.

Ascertainment is the first step in control. Notification is required by every doctor treating a case listed in the schedule of communicable diseases. The notification is directed to the Local Health Authority where one exists; otherwise, directly to the Provincial Health Department. In theory this should work out well, but in practice it has many weaknesses. Many cases of communicable diseases, even the more serious ones, are "not-reported" either because of neglect by the doctor or because of misunderstanding between doctors where the case is referred. Used as a measure of incidence of disease, the figures obtained are of relative value and one can only infer from them that the incidences is rising or falling.

A return showing the number of cases of each disease notified is sent to the Dominion Government, to all principal local Health Authorities in the Province, and to neighbouring provinces and the nearby States of the United States. Similar returns are received. By this means, Health Departments can be kept aware of what is happening in adjacent areas. This information is of value in controlling infectious diseases in that trends may be forecast. The statistics are also of assistance in assessing the value of measures taken to control.

The Regulations for the control of Communicable Disease which were revised and rewritten were approved by Order-in-Council No. 534/53. These Regulations were published in booklet form and distributed to medical practitioners, health authorities and school districts. The Regulations were formulated with a view to improving ascertainment, and the list of notifiable disease was reduced. The Regulations pertaining to specific diseases were made to conform as far as is practical with those approved by the World Health Organization.

DISTRIBUTION OF BIOLOGICAL PRODUCTS

The Communicable Disease Division is in charge of the distrubition of vaccines and other material used for immunization.

Immunization is being carried out 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. Immune Serum Globulin was given as an immunizing agent to immediate contacts of poliomyelitis. It is too early to definitely appraise the value of this procedure. The amount of Immune Serum Globulin sent to Health Officers, physicians, etc. during the year was 48,000 c.c.'s.

The cost of supplying biologicals during the year was in excess of last year. The total cost of the programme was \$95,598.21. 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 in the Province so that it is readily available

POLIOMYELITIS

The greatest outbreak of poliomyelitis in the history of the Province occurred during 1953. In all there were reported 1,458 cases with 111 deaths. Up until 1953, the year 1952 was reported as the largest epidemic recorded in the Province with 774 cases and 81 deaths. The high incidence in 1953 was not expected, as it is unusual to have two epidemic years following each other. Eight cases were reported in January, three in February, eight in March, and one in April. This would seem to indicate the end of the 1952 epidemic.

As indicated in previous reports it would appear that a year from June to June would be a better recording year for poliomyelitis cycle than the calendar year. Four cases were reported in May, four in June, seventy-three cases were reported in July, indicating the beginning of another epidemic year. August followed with three hundred and thirty-four cases, and September was the peak month with four hundred and sixteen cases. A decline in incidence then occurred; there were two hundred and forty-one cases in October; two hundred and forty in November, and one hundred and twenty-five in December.

Of the three main cities, Edmonton was the most seriously affected; there were three hundred and twenty-two (322) reported cases with sixteen (16) deaths. The curve of weekly incidence showed an unusual and unexpected upswing in the first week of November. It was assumed from past experience that the peak had occurred in the week ending October 3rd with twenty cases reported for the week in Edmonton alone. By the end of October the weekly incidence was reduced by half. In the first week of November there were thirty-seven new cases and a further thirty-eight new cases in the second week. From the third week in November there was a decline and in the last week of the year no new cases were reported.

As one method of control, the Provincial Board of Health ordered the exclusion of all children of sixteen years and under from theatres, swimming pools and other public gatherings; the elementary, junior high and high schools were closed. These orders remained in force until September 14th, 1953. Gamma Globulin was supplied free by the Department for the inoculation of intimate contacts. In all approximately 48,000 cc's were supplied. At the present time the efficacy of Gamma Globulin as an immunizing agent, has not been clearly established. The earlier it can be administered to the intimate contacts, the greater is the chance of inducing a protective effect. However, it usually happens that by the time the initial case in the family is diagnosed and isolated, the great majority of the contacts who are going to be infected have already become so and have progressed too far into their incubation period for Gamma Globulin to become effective. This time relationship is due to the fact that in most instances an individual is infectious for an indefinite period of several days prior to the appearance of any recognizable symptoms.

The Department purchased a total of thirty-seven respirators and three rocking beds. This equipment was available to any area in the Province when needed. The transportation of this equipment was assumed by the Department. Every case requiring a respirator was supplied.

In December a Committee was set up to study the epidemic with the object of studying the statistics and to obtain, if possible, information on the mode of spread, measures to be taken to combat future outbreaks; also a study of the effect, the usefulness or otherwise, of gamma globulin. This survey is under the direction of Dr. E. S. Orford Smith, and should be concluded by the middle of next year.

RABIES

There was gratifying progress made in the control of this disease in animals during the year 1953. In the Spring of the year the disease had spread as far south as the Lethbridge area, but due to the control measures adopted by the fall of the year the disease was localized in the Athabasca area, as approximately one-half of the reported cases in animals were from that area. There were some isolated cases reported from the Peace River area.

The educational programme carried out by the Department and other government agencies was most fruitful. People were made aware of the conditions and the measures to be taken for prevention in the event of being bitten or scratched by animals.

It is difficult to determine exactly how many persons were given the Pasteur treatment. There were 135 treatment packages sent out, but from the unused and partly used packages returned, it is estimated that approximately 82 full treatments were administered. Vaccine was sent out from this Division in every case where it was asked for or indicated. It frequently happened that the doctor in attendance, after examination decided to withhold treatment. It is extremely pleasing to report that no human cases of rabies have occurred.

DIPHTHERIA

(28 cases, 3 deaths)

There was an increase in the number of cases notified. However, the total number of cases was quite small and does not indicate a return to the incidence of former years. The immunization programme carried out throughout the Province and the examination and control of contacts as carried out by the local health agencies has, without doubt, contributed materially to the control of this disease. It is of interest to note that in two of the fatal cases, toxoid had been offered but had been refused.

TYPHOID

(9 cases, 1 death)

There was considerable decrease in the number of cases notified. The number of cases of typhoid occurring is a good index of the sanitary conditions prevailing. As sanitation improves and more districts have the benefit of better water and sewerage facilities, we may look forward to the day when typhoid will be a rarity.

WHOOPING COUGH

(1,085 cases, 15 deaths)

The incidence of whooping cough was slightly lower than last year. It is felt that the number of cases reported does not convey a true picture of the number of cases occurring. When more adequate health services are provided, there will doubtless be increased notification which will make it difficult to dissociate from increased incidence. The small number of deaths supports the impression that immunization greatly reduces the severity of the disease in those cases which fail to obtain complete protection.

SCARLET FEVER AND STREPTOCOCCAL SCORE THROAT

(2,163 cases, 3 deaths)

There was considerable reduction in the number of cases reported. The cases reported, however, must represent only a small part of the cases occuring, especially of streptococcal sore throat with a rash. Modern methods of treatment have greatly modified the outlook in scarlet fever.

Table 1

NUMBER OF CASES OF COMMUNICABLE DISEASES REPORTED IN THE YEARS 1952 and 1953

	1952	2 1953		1952	2 1953
Acute Anterior Poliomyelitis	774	1,399	Rocky Mountain Spotted Fever		
Chicken Pox	4.470	3,169	Rubella		
Diphtheria		28	Scarlet Fever and Spectic		
Dysentery		53	Throat	3.829	2.173
Food Poisoning		84	Smallpox		
Glandular Fever			Tetanus	1	
Infectious Hepatitis		117	Tuberculosis-Pulmonary	769	726
Leprosy		1	Tuberculosis-Non-pulmonary		140
Malaria			Tularaemia		
Measles		7.260	Typhoid Fever		9
Meningitis		13	Undulant Fever		2
Mumps			Whooping Cough		1.085
Paratyphoid Fever		8		-,	-,

TABLE 2

DEATHS ASCRIBED TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR THE YEAR 1952 and 1953

		1952		1953
Name of Disease	Total Deaths	Rate Per 100,000 Population	Total Deaths	Rate Per 100,000 Population
Acute Anterior Poliomyelitis and Polio- encephalitis	81	8.3	109	10.9
Gastroenteritis and Colitis (except Diarrhoea	01	010	100	10.0
of the Newborn)	77	7.9	47	4.6
Diphtheria	1	.1	3	0.3
Influenza	47	4.8	33	3.3
Measles	7	.72	8	0.8
Pneumonia	298	30.7	324	32.3
Scarlet Fever	2	.2	3	0.3
Small Pox	0	0.0	0	0.0
Tuberculosis (Pulmonary)	91	9.4	51	5.1
Tuberculosis (Other)	34	3.5	17	1.7
Typhoid	2	.2	1	0.1
Whooping Cough	2 8	.82	12	1.2
Meningococcal Meningitis	2	.2	13	1.3
Population of Alberta in 1952 970,000	I	Population of A 1,002,		1953

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A APPEN							0	HICK	CHICKEN POX	X											
1	SEX	X					-	SHTNOM	SH					-			AGES	S			
1952	Male	Female	.ust	Feb.	Mar.	Apr.	May	əunr	July	·\$n¥	Sept.	Oct.	.voV	Dec.	1-0	¥-1	2-14	61-91	20-over	Age Not Stated	JATOT
Calgary Edmonton Lethbridge Urban Rural	300 335 335 335 335 335 335 335 335 335	245 343 343 343 343 35 344	152 275 70 131 209	123 163 56 113 270	147 152 35 69 262	88 88 34 109	88 i i 88 88	421 - 1	3011	11100	1 1 18 10	324	11.180	88111	14 52 38 38 38	120 215 48 162 197	396 377 377 378 812	3121 - 10	238 ° 19 8	48112	545 678 195 620 1,131
TOTAL	1,642	1,527	837	725	665	386	170	135	49	16	18	57	44	67	133	742	2,103	59	81	51	3,169
							I	THAIC	DIPHTHERIA												
Edmonton Urban Rural	-1-9	100	1 60 0	400	0	1 100 0	111		TIL	111	1 1 1	41		4.01	10	400	191		144	1 101	121
TOTAL	14	14	m	0	21	N	T	N	1	1	T	0	-	9	m	2	14	1	01	01	58
								MEA	MEASLES												
Calgary Edmonton Lethbridge Urban Rural	2,026 55 360 1,001	$2,062 \\ 46 \\ 322 \\ 1,002 \\ 1$	18 65 24 126	12 248 54 103	43 773 1 80 156	1,161 15 135 222 222	95 1,145 24 563	75 521 38 38 290	25 96 34 140	18 18 106 106	34 34 46 46	10	28 17 13 13 13 13 13 13 13 13 13 13 13 13 13	3 8 150 153	66 159 77 74	1,661 25 207 496	2,147 2,147 64 383 1,147	28 28 23 335 28 22	51 23 23 23 24 8	36028	4,088 101 682 682 2,003
TOTAL	3,645	3,615	233	417	1,052	1,633 1	1,827	1,039	314	176	112	59	83	315	273	2,518	4,114	138	132	85	7,260

TABLE 3

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	SEX	Male Female	123 131 294 271 164 17 164 142 325 259	920 840 25		133	265 312 575 684 13	1,890 2,275 32		162 145 145 145 145 145 145 145 145 145 145	116				
		Feb.	24 20 127 154 5 21 88 76	254 271			49 93 131 129	321 525		59 34 157 136 6 16 28 47 190 133					
		Mar.	1 186 50 50 50	274			250	151		51 87 93 93	258				
		Apr.	118 118 90 99	334 355		334	334	334		32	87 181	702		24 68 28 3 70	193
	-	May	194 50 111			11	374	2324	752	sc	37 32 49	141			
IUM	SHLNOW	əunr	6222	136	RUBI	118	112	637	ARLE	17 50 19 24	111				
MPS	SH	ŋŋλ	17	43	RUBELLA	54	38.8	136	SCARLET FEVER	24 3 24 3 14 9 3 14 9 3	52				
		.8n¥	13.21	15		501	36	72	ER	10 10	24				
		Sept.	00 -7	15		10.44.4	37	67		16 10 8	38				
-		Oct.	1 1º 8	34		-00	5900	41		20 88 17	54				
	1	'vov	1 1 100 10	80		3	11	46		22 9 28	78				
	1	Dec.	12 ⁶	21		-103	24 81	115		31 22 23 12 20 60	150				
		I-0	1010 -1-1	18		421	48 ⁴	150		11 19	18				
		I	93 35 35 70	252 1		312	121 220	696 2		74 55 59 144	479				
	AGES	2-14	157 412 24 236 336	,129		214	339 814	2.742		214 376 32 140 429	161.				
		61-91	26 19 34 42	121		5 164	37	318		29 29 29 29	11				
SAMUM		20-0761	10 18 32 74	165		145	62 13.	235		43 43 9 651 2 2 3 9	132				
		Age Not Stated	800100g	75		10	1221	24		00 01 01 00	15				
		TOTAL	254 585 31 306 584	1,760		2,028	577	4,165		307 640 626 691	1,906				

TABLE 3-Continued

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4 1 5 3 1 1 1 1 55 9 11 7 17 16 14 1 55 9 11 7 17 15 1 1 1 7 17 15 1 1 1 2 3 1 15 1 1 2 3 1 1 8 29 10 1 7 3 2 7 75 283
23 23 23 23 62 62 62

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TABLE 4

INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES FOR THE TEN YEAR PERIOD, 1943-1953

	Dopulation	Total	Total	Mortalit; Rate
				1.4 0.6
				1.1
				0.9
				0.9
	846,000	52	6	.7
	871,000	59	12	1.4
	895,000	13	1	.1
		2	1	.1
				.1
	1,002,000	28	3	0.3
				-
	792,000	11	1	0.1
				1.0
				0.2
				0 0.12
				0.12
				.11
	895,000	13	î	.1
	939,501	37	0	0
	970,000	16	2	.2
	1,002,000	9	1	0.1
ACUTE A	NTERIOR POI	LIOMYELIT	IS	
	792,000	24	0	0
	818,000	107	1	0.1
		19		0
				1.0
				0.9
				3.3 1.0
				1.0
				.2
				8.1
*****	1,002,000	1,399	109	10.9
W	HOOPING CO	UGH		
	792,000	1,520	12	1.5
***************************************			42	5.7
				5.2
				2.3
				1.1
	871,000	98		.57
	895,000	120	3	.3
	939,501	827	7	.7
	970,000	1,105	8	.8
	1,002,000	1,085	12	1.2
	SCARLET FE	VER		
	792,000	1,675	7	0.9
	818,000	2,615	9	1.1
	826,000	1,358	1	0.1
		482		0.1
				0
				0
				0
				.6
				.0
	1,002,000	*2,173	3	0.3
			1000	
		818,000 826,000 803,330 803,330 822,000 846,000 871,000 939,501 970,000 1,002,000 818,000 822,000 818,000 822,000 818,000 822,000 846,000 871,000 933,501 970,000 933,501 970,000 1,002,000 ACUTE ANTERIOR POI 792,000 818,000 822,000 846,000 818,000 822,000 846,000 871,000 933,501 970,000 1,002,000 WHOOPING CO 792,000 822,000 846,000 871,000 822,000 846,000 871,000 970,000 1,002,000 822,000 <td>Population Cases 792,000 46 818,000 57 826,000 53 803,330 48 822,000 86 846,000 52 871,000 59 939,501 2 970,000 11 </td> <td>Population Cases Deaths 792,000 46 11 818,000 57 5 826,000 53 9 833,30 48 7 822,000 86 7 822,000 56 7 8346,000 52 6 871,000 12 1 939,501 2 1 970,000 11 1 1,002,000 28 3 TYPHOID FEVER 792,000 11 1 818,000 101 8 8 822,000 17 1 1 970,000 13 1 1 939,501 37 0 1 1 939,501 37 0 1 1 939,501 37 0 1 1 939,501 37 0 1 1 1,002,000 137 1 0 1 <t< td=""></t<></td>	Population Cases 792,000 46 818,000 57 826,000 53 803,330 48 822,000 86 846,000 52 871,000 59 939,501 2 970,000 11	Population Cases Deaths 792,000 46 11 818,000 57 5 826,000 53 9 833,30 48 7 822,000 86 7 822,000 56 7 8346,000 52 6 871,000 12 1 939,501 2 1 970,000 11 1 1,002,000 28 3 TYPHOID FEVER 792,000 11 1 818,000 101 8 8 822,000 17 1 1 970,000 13 1 1 939,501 37 0 1 1 939,501 37 0 1 1 939,501 37 0 1 1 939,501 37 0 1 1 1,002,000 137 1 0 1 <t< td=""></t<>

SMALL POX

1943		792,000	2	0	0
1944		818,000	0	0	0
1945		826,000	0	0	0
1946	***************************************	803,330	0	0	0
1947		822,000	0	0	0
1948		846,000	0	0	0
1949		871,000	0	0	0
1950		895,000	0	0	0
1951		939,501	0	0	0
1952		970,000	0	0	0
1953		1,002,000	0	0	0

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2. HEALTH UNITS

This division supervises the work of the Health Units. Under the Public Health Act, Public Health is made the responsibility of local government agencies. However, outside the major cities, no local government authority in the Province is large enough to maintain its own Public Health Nurse. Grouping of local government agencies into health units makes it possible for the group to receive the benefit of a well organized service. The Provincial Government contributes 60% of an approved budget, the local contributing authorities contribute 40%. The district designated as a health unit is divided into wards, each ward is represented by one member from one of the contributing councils in the ward. This constitutes the board or governing body of the health unit. This organization 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 area served to receive a service-the equal of the service they would enjoy in the major cities.

The services which are provided include 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,

9. Dental Service for Children.

The Health Unit in addition, acts as the serum centre storing and distributing the sera and vaccines supplied by the Provincial Health Department.

The Units are staffed by a medical officer, nurses, sanitary inspectors and steno-technicians, the number employed depending on the population served.

The Medical Officer acts as director of the unit and usually as Medical Officer of Health for its contributing councils.

During the year, the Barons-Eureka Health Unit was established, making in all fifteen full-time Health Units in operation, viz:

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

The staff position was good and at the end of the year there were very few staff vacancies. Collectively the units employ the following staff:

Medical Officers of Health	14
Public Health Nurses	59
Sanitary Inspectors	18
Stenographer-Technicians	18
Secretary-Treasurers	15

Dr. Norman Baster who was Director of the Division of Communicable Diseases and Health Units resigned in August of 1953. In November, Dr. C. E. Anderson was appointed as Acting Director. In September, Mrs. D. McPhail, who had been Assistant Director of the Municipal Nursing Services, was appointed as Nurse Consultant to the Health Unit Nurses and Assistant to the Director of the Division.

Division of Entomology

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

The Division of Entomology deals with insect borne diseases, with particular attention being paid to Rocky Mountain Spotted Fever, Bubonic Plague, Tularaemia and Encephalitis.

Other insect problems, such as fly and mosquito control, insecticides, insect infestation in food-stuffs and insect pests of institutions, fall within the work of the Division. Furthermore, a considerable amount of time is devoted to determining the disttrubution of insects, ticks and mites that are involved in the transmision of human diseases.

Tick Survey.

1. Rocky Mountain Spotted Fever—This is a seasonal disease occurring from April to September, but being most common during June and July. It is transmitted to man through the bite of an infected tick. The fatality rate in Alberta was 80% but this has been decreased somewhat by vaccination programs and the use of the newer antibiotics. In Alberta it is transmitted by the Spotted Fever Tick and the Rabbit Tick.

(a) Cases—One human case occurred west of Calgary during June, 1953. This case involved an 18 year old female. This girl gave a history of visiting an area where 3 collections of infected ticks were made in May of 1952. She responded to treatment.

(b) *Vaccinations*—The use of Rocky Mountain Spotted Fever vaccine as a protection against Spotted Fever is well-established in Alberta. It is given in three 1-cc doses one week apart and confers good protection for one year.

During 1953 a total of 2,240 doses were given. Of these 470 were given at Manyberries, 347 at Redcliff, 282 at Medicine Mat, 69 at Elkwater, and 1,072 at Ralston.

2. Collections—During 1953 a total of 1,828 ticks were collected. Of these 76 were taken from small wild animals and 1,752 were collected from grass by means of a cloth flag.

3. Infected Ticks—Twenty-five separate collections totalling 589 ticks were found to be infected. These were as follows:

Collections	Ticks	Place
1 3 1 20	25 214 100 250	Milk River Foremost Nemiscam Banff
25	589	
	1 3 1 20 —	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

4. Colorado Tick Fever—The first record of Colorado Tick Fever in Canada was made in 1953 when 20 lots totalling 250 ticks collected at Banff on May 11, 1953, were found to be infected. The determination of the infection in the ticks was made by Dr. C. L. Larson, Director, Rocky Mountain Laboratory, Hamilton, Montana. Colorado Tick Fever in man is caused by the bite of an infected tick. It is characterized by a very sudden onset of chills, headaches, and fever 4 to 5 days following the tick bite. It can be confused with dengue or influenza. Determination is made on the basis of complement-fixation tests using 8 to 10 cc. of blood.

At present there is no treatment other than supportative treatment in hospital.

5. Tick Paralysis—The first fatal case of Tick Paralysis in Alberta occurred at Edmonton, during April, 1953. It involved an 18 months old female. This child came with her parents to visit relatives in Smoky Lake from Vernon, British Columbia, where she presumably picked up the tick.

Plague Survey.

1. Bubonic Plague—Sylvatic or Bubonic Plague is a serious human disease. It is carried by rats, gophers and mice, and the fleas that infest such rodents. It is transmitted to man through handling plague infected animals and by the bite of infected fleas. Although no human cases have occurred in Alberta in recent years the presence of the disease in gophers and fleas constitutes a serious health hazard.

2. Distribution—Two very large areas of plague infection, one centering on Hanna and the other on Brooks, are present in Alberta. In both of these areas plague-infected gophers and plague-infected gopher fleas are present in large numbers.

3. Animals Involved—Most of the plague infection has been found in the prairie gopher as it is the most plentiful of the susceptible animals. However, there are indications that the "pallid vole" (a small field mouse) is also carrying the infection.

Up until 1950 rats were not present in Alberta. On July 18, 1950 the first colony in Alberta was found on a farm on Sec. 36, Twp. 26 Rg. 1, W. of the 4M., near Alsask. Since then there has been a steady infiltration and during 1953 rats were trapped on the eastern edge of plague area at Sibbald, Oyen and Cereal.

4. Collections—During the course of the Plague Survey 109 collections were made consisting of 538 animals, of which 248 were shot and 290 trapped. A total of 1,121 fleas and 364 tissue specimens, mostly from the prairie gopher, were recovered and submitted to the Laboratory for bacteriological examination. No positives were recovered.

5. Fleas Involved—It is now known that there are 14 species of fleas in Alberta that are capable of transmitting plague from infected animals to man. Fortunately most of these species are not very numerous, and in many cases their distribution is limited. However, their presence indicates that in the event of an outbreak of plague there are sufficient vectors present to build it up to epidemic proportions.

Tularaemia.

1. The Disease in Man—Tularaemia or, as it is frequently called Rabbit Fever, is an accidental infection of man and occurs through handling infected animals, by the bite of infected ticks and by the bite of infected deer flies. It is a serious disease and although the fatality rate is low the period of convalescence may extend over several weeks. There is no vaccination against the disease but some of the newer antibiotics are fairly effective in treatment.

2. Tularaemia in Nature—Tularaemia infection in Alberta is known to be present in cats, fleas, deer flies, field mice, gophers, grouse, gulls, mice, mink, muskrats, rabbits, sheep, shunks, swine and ticks. One case of Tularaemia in man was traced to the contaminated water in a settling tank at the Canadian Pacific Railway roundhouse in Lethbridge.

3. Collections—During 1953 four collections of ticks, three made at Foremost and one at Nemiscam, were positive for tularaemia infection.

Fly Control.

1. Lethbridge Fly Control District—The fly control program was very successful, with the benefits being received by the towns, villages and dairy farmers participating far outweighing the actual cost. It is anticipated that the program will become an integral part of the basic sanitation program in that area.

2. Camrose Fly Control—During the summer the town of Camrose became interested in a Fly Control Program. In order to achieve maximum results in the short time available it was recommended that the whole town be "fogged" with an insecticide. A commercial pest control firm was engaged and, apparently, good results were obtained.

Mosquito Control.

1. Edmonton—At the request of the Edmonton Chamber of Commerce suggestions for a Mosquito Control Program in the City were prepared. These were approved by the Chamber and forwarded to the City. The City Commissioners placed the Control Program under the Parks Department for implementing.

2. *High River*—At the request of the Local Medical Officer of Health and the Executive of the Active Club suggestions for a Control Program were prepared. The Control Program is to go into effect in the Spring of 1954.

3. In Irrigated Districts—The great expansion of irrigation in Alberta has brought about a serious mosquito problem, because of the shallow pools created.

4. Number of Species Present—To date 31 species of mosquitoes are known to be present; six of these are potential transmitters of equine encephalomyeltis. Considerable effort is being devoted to determining the distribution of *Culex tarsalis*, which is of considerable importance in the transmission of encephalomyelitis.

Encephalomyelitis.

1. The Disease—Encephalomyelitis is a virus disease that affects both man and animals. The type that occurs in Alberta is known as the Western Encephalomyelitis. Intermittent outbreaks of this disease have occurred generally attacking horses, although a number of human beings were also affected. This disease belongs in a group referred to as Viral Encephalitides which have many similarities to Poliomyelitis.

2. Distribution—In Alberta indications of the virus infection have been demonstrated in such animals as horses, prairie gophers and small birds.
3. Mosquitoes—A number of species of mosquitoes have been shown to be capable of transmitting the virus. Six of these species are present in Alberta, with *Culex tarsalis* (which is a common mosquito), being the most important transmitting agent. The distribution of the mosquitoes involved is being determined. *Laboratory Work*.

1. Insect Collections—Since moving into our new quarters in the Administration Building great progress has been made in arranging the collection of insects and ticks injurious to human health. This has been primarily due to the laboratory facilities that are now available.

2. Insect Infestations in Foodstuffs—The infestation of foodstuffs, particularly flour, rolled oats, dry cereals, raisins, currants, nuts, etc, with insects has become a serious problem and complaints are constantly received from purchasers of such infected materials. This is a Federal responsibility under The Food and Drug Act, so these problems are drawn to the attention of the Federal Authorities.

3. Vaporizers—Vaporizers are mechanical devices for releasing the fumes of DDT and other insecticides by means of electrical heating elements. They are recommended by manufacturers for use in restaurants, hotels, etc., as a means for control of pest insects. There is a considerable element of risk associated with the improper use of these devices as most of the insecticides are toxic to man. This Division has always maintained that vaporizors should only be used in places where they are properly installed and serviced. As no Provincial regulations exist in regard to their use represenations were made to the Pesticide Division of the Department of National Health and Welfare for regulations.

General—The usual procedure of keeping the Provincial, City, Health Unit and Liquor Board Inspectors informed on the latest methods of control of pest insects was continued with gratifying results.

The usual Lectures to Medical Students, Public Health Nurses in training, and Undergraduates in Home Economics were given, and in some cases, expanded.

Education Work.

The usual educational work in regard to the control of insectborne diseases was carried out by means of radio, motion pictures, newspapers and lectures.

During 1953 two papers were published. They are:

- 1. A Chicken Mite Infestation in a Hospital-by J. H. Brown, M.Sc., Journal Economics Entomology, 46 (5), p. 900, October, 1953.
- The Division of Entomology-by J. H. Brown, B.Sc., M.Sc., F.A.P.H.A., Alberta Medical Bulletin, Vol 18, No. 1, p. 37 February, 1953.

Division of Cancer Services

V. W. WRIGHT, M.D., Director

The recent addition to the Edmonton Clinic has practically been completed and should be ready for occupancy about the end of January. This will provide suitable quarters for Dr. M. Marlborough, Head of the X-ray Department and Dr. John Hurley, in charge of diagnostic x-ray.

Certain x-ray machines presently located in the old part will have to be transferred and can be moved at the week-end without disruption of the Diagnostic and Therapy Treatment Service.

The X-ray Department will then have the following units:

- 1. a Picker Diagnostic Unit (500 M A).
- 2. a 140 KV Picker Superficial Therapy Unit.
- 3. a 260 KV Picker Intermediate Therapy Unit.
- 4. a 270 KV Picker Rotational Therapy Unit.
- 5. We expect to have installed a 60 Cobalt Rotational Therapy unit which has been ordered and which should arrive in the near future.

Radium with necessary accessories for intra-cavity treatment is in use and will be installed in the new building and radium in suitable form for interstitial treatment has been ordered.

Protection against X-rays for the Therapist and Trainees has been taken care of and monitor badges worn by each testify to the protection provided. This set up will provide the residents of the Province of Alberta with as adequate and as modern an X-ray Department as there is on the Continent of North America.

A certified Physicist will be employed as soon as the Cobalt 60 Machine is installed.

A Haematology Laboratory was put in operation on July 22nd, 1953 and to December 31st, 1953 performed 1,184 Blood Counts.

A start has been made towards providing Clinical Statistics. A copy of all deaths in the Province for 1953 has been made and checking against our Index Cards of patients is proceeding. This was found necessary as the Cause of Death of patients registered with us as proven cancer was in many cases shown as heart disease, pneumonia, etc. and would therefore not have been noted unless a check were made.

The International Code of Neoplasms has been set up in combination with our daily patient register and diagnosis entered on the Register as Pathological Reports were received. Files of patients which show malignancy are then drawn and entered on a card from which information will be punched on an International Business Machine Card. Statistics can then be obtained from machines presently in use at the statistical Branch of the Department of Health. The Statistical report for 1953 is hereto appended:

I.	Number of Examinations made Malignant and	Benign .			10,827.
		New	Follow-up	Total	
	Edmonton Calgary Lethbridge	2,470 1,327 453	4,515 1,644 418	6,985 2,971 871	
		4,250	6,577	10,827	

It will be noted that the total number of examinations made in the Edmonton, Calgary and Lethbridge Clinics is 10,827 as compared with 9,291 in 1952 and 9,034 in 1951.

II. Number of examinations made where	malignancy	was prove	en		6,175
New Reporting Malignant Examin	ations:			Total	
Edmonton 937 Calgary	361 L	ethbridge	147	1,445	
Review examinations of malignant	t cases:				
Edmonton 3,716 Calgary	508 L	ethbridge	339	4,563	
New non-reporting malignant case	s:				
Edmonton Calgary	134 L	ethbridge	33	167	
Total Malignant Case Examinations	8:				
Edmonton 4,653 Calgary	1,003 L	ethbridge	519	6,175	
A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER	Same		CALCULAR ST		
III. Number of examinations made which	proved to	be non-ma	alignant		4,652
	Edmonton	Calgary	Lethbridge	Total	
New reporting non-mal. exam	1.533	701	220	2,454	
Review non-mal. exam.	799	1,136	79	2,014	
was not arrived at		131	53	184	
Total non-mal. examinations	2,332	1,968	352	4,652	
Examinations where diagnosis was not arrived at		131	53		

Following are set out the number of procedures authorized by the Clinics and paid for during the Calendar year 1953 (A number of procedures were authorized but not done for various reasons and a number were done but reports were not received during the calendar year 1953).

(A) The Total number of cases referred:

	Hospital	and Radium	Diagnostic
	Services	Treatment	X-ray
Edmonton	1,470	630	1,966
Calgary	529	260	396
Lethbridge	221	121	284
Total	2,220	1,011	2,646

The Edmonton Clinic X-ray department made 2,274 X-ray examinations on 1,734 patients and 489 series of X-ray treatments for Cancer were given in the Clinic. This total does not include services performed by Dr. Marlborough, Director of the X-ray Department, with regard to Radium treatment with authorized gynecologists at the University of Alberta Hospital.

Sixty biopsies were done in the Clinic by Dr. Marlborough and Dr. Morrish.

Putter Selar Bren Dave 2004	CASES REF.	ERRED		
	Major	Exploratory	Breast	Other
	Surgery	Laparotomy	Biopsies	Biopsies
Edmonton	541	126	233	387
Calgary	244	42	146	203
Lethbridge	65	21	46	99
TOTAL	850	189	425	689

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	Diagnostic Curettages	Encephalo- grams, etc.		
Edmonton Calgary	250 20	21 0	87 21	118 3
Lethbridge	43	0	5	13
TOTAL	313	21	113	134
communication appendic preferation incommunication of the relation reports to be annual section of the relation	Cystoscopy	Diagnostic Consulta- tions	Laboratory Tests	Other X-ray Examinations
Edmonton Calgary Lethbridge	149 47 22	115 11 2	1,370 7	1,966 374 173
TOTAL	218	128	1,377	2,513

Since the opening of the Clinics in 1941 the total number of examinations made is 71,937.

Division of Public Health Education

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

Seeing and hearing, looking and listening are major ways and means by which human beings learn. Aimed at broader opportunity for learning and more effectiveness in learning, many media have been developed and are widely used in all quarters of the world.

Audio-visual materials related to health should be recognized as aids or as some ways and means of realizing the objectives or goals of an educational program. Audio-visual materials are not ends in and of themselves but rather tools of learning and teaching. Since they are tools, these materials must be utilized within and along with the pattern of the health instructional programme.

Tours

A variety of public health talks ranging in subject matter from the organization of health units to work shop lectures were presented this year. Citizens of the province interested in health unit service received help in understanding the program of local health administration. As a result of these discussions and other factors one new health unit was established and new areas incorporated into existing units.

To present health education media and explain their use to new nurses in municipal distrcits and health units and also to maintain the interest of nurses in service a tour was made of twelve municipal nursing centres and two health units. An increase in the use of films and health education literature was the result of this orientation. Nurses and medical officers of health were most receptive to suggestions for further applications of educational methods in their respective fields of work.

Public meetings were addressed by the health educator upon request from municipal nurses and medical officers in health units. Subjects included services of the Department in general and specifically Alberta's Hospitalization Program and the Health Unit Organization. The nutritionist of the Department of Health often spoke on phases of her work on joint programs with the health educator.

Conferences of nurses and sanitary inspectors held in Edmonton, were attended. At the former, a special film "Our School Children's Health" was presented to point out an important phase of the workshop on health education. The sanitary inspectors requested a workshop on film utilization to enable them to use audiovisual equipment to the best advantage. Classes of twenty-five and thirty-five members respectively attended these workshops.

There are still a large number of one-room schools in Alberta. Most of these seldom have an opportunity to receive health education supplemented by a film. It has been the phase of the program of this division to bring to some of these isolated points health films approved by both the departments of education and health. Requests are received from teachers and nurses for this type of teaching service. In preparing an itinerary for an area our objective is to contact as many adults as possible in addition to the school children. This is made possible through public meetings usually aranged by one of our public health nurses.

Teachers and pupils participate in each program which consists of a lesson taught by the health educator or nutritionist based on the curriculum and related to the film to be presented. Following the screening of the film a discussion is held based on the work covered by the lesson and film. Suggestions are given for follow-up activities which will provide material to be used in the learning process. Teachers and nurses will take advantage of this opportunity to receive help from the program, give suggestions to the educators and assist in the development of the child's health education.

A number of schools were visited during the year. Programs presented included lessons on services of the Department of Public Health, Communicable Diseases, Immunization, Dental Health, Nutrition, Sanitation, Pasteurization and Saftey.

Public meetings were held at various points in the province as the need was indicated through requests from nurses, health units, organizations and other individuals.

Films

Use of films and filmstrips from the Health Education Film Library increased 75 percent during the year. There were 1,552 bookings of films and filmstrips for approximately 3,100 screenings to a total reported audience in excess of 110,000 persons.

Bookings were for 60 filmstrips, 71 silent films and 1,421 sound films. These were in addition to 154 bookings of films from the pool reserved for use by schools of nursing.

About 55 per cent of the bookings were for classroom use in schools, 10 per cent for professional groups, doctors, nurses, sanitary inspectors, druggists or teachers. The remainder were booked for community groups such as Home and School Associations, church organizations, Women's Institutes and general public meetings.

Many of the latter bookings were arranged through the Health Units or Municipal Nurses. For many of these meetings the Division supplied source material for speakers, in addition to the films.

Local sanitary inspectors have reported on the value of films in promoting interest in community sanitation programs and projects. The Edmonton Board of Health during the year used films in educational work among food handlers and restaurant help.

Staff members of the Edmonton Guidance Clinic have given their time in the evenings to present mental health films to Home and School Associations. Staff of the Calgary Guidance Clinic have utilized these films in group work in the clinic as well as for showings to other groups being addressed by staff members.

Many of the bookings were for films to assist in professional training of various groups in public health work. These included provision by the Division of Health Education of a number of films on first aid and obstretics for a group of R.C.M.P. constables going to isolated postings in the North-West territories. These films provided them with some preparation for unexpected emergencies they might have to meet without benefit of medical or nursing aid.

To meet the needs of this growing program 28 new sound films, one silent film and 41 filmstrips were added to the library during the year. Additional copies of a number already in the catalogue were secured to provide for heavier demands or replace worn out films. Titles now in the library number 224 sound films, 35 silent films and 118 filmstrips.

Radio

The cooperation of eleven Alberta radio stations was secured by the Division in dissemination of facts about the various divisions of the Department and general health information. A series of brief, factual "spot" announcements regarding the work of the Alberta Department of Public Health have been prepared by the division and are broadcast by the eleven stations. The announcements are aired at different times on the stations when convenient in their programs.

A weekly health program sponsored by the Department of Public Health through an arrangement made by the Division is presented every week over CKUA. Discs for the programs are obtained in sets by the Division and supplied to CKUA.

Publications

The booklet ALBERTA'S HOSPITALIZATION PROGRAM, to inform residents of the Province of the hospital services available to them and explaining in detail how they are obtained, was prepared and 10,000 copies were printed. More than 6,000 copies have been distributed to municipal officials, Health unit boards and officials and hospital boards, newspaper editors, doctors, executives of community organizations such as Home and School Associations and Women's Institutes and the general public. Considerable appreciation has been received from those receiving the booklet for the clarity and brevity of its information.

Minor revisions were made in the booklet YOUR HEALTH SERVICES and 3,000 copies were printed and distributed. A further revision covering the changes in services available for poliomyelitis patients was made in December and an additional 3,000 copies are being printed which will largely be used up by unfilled orders.

A new catalogue for this division entitled HEALTH EDUCA-TION SERVICES and describing and listing the films, filmstrips, literature, displays and services available from the division, was completed early in the year and 3,000 copies were printed. The catalogue binding was designed to allow new pages listing additional material, to be inserted as they are released to those using the catalogue.

The two booklets MENTAL HEALTH SERVICES, outlining the work of the Mental Health Division, and YOUR HEALTH UNIT, describing Alberta's Health Units, were revised and new editions printed during the year. A revised edition of the mimeographed publication ORGANIZATION AND SERVICES, ALBERTA DE-PARTMENT OF PUBLIC HEALTH, was also prepared and published by the Division. It has been distributed to health workers, professional groups and students and teachers of public health.

A bright poster on spring clean-up to promote local clean-up campaigns, was prpeared and printed by the division. It was widley used by local Boards of Health and Health Units' sanitary inspectors.

New versions of the four pamphlets CHICKEN POX, MEASLES, SCARLET FEVER and TYPHOID PARATYPHOID, DY-SENTERY and FOOD INFECTION were prepared and printed. New versions of phamplets on several other communicable diseases have been prepared and will be printed in the near future.

A monthly mineographed publication HEALTH EDUCATION NOTES, was prepared and published by the division and distributed to the staff of the department and other public health workers in the province.

Exhibits and Displays

General supervision of arrangements for and planning of the exhibits of the Department of Public Health at the Edmonton Exhibition in July, 1953 and especially preparation of the Health Education exhibit was the principal display activity of the division during the year.

All divisions of the department except one were represented at the exhibition, most of them with new displays and material. As far as possible all exhibits pointed to the common theme of the need of public cooperation with the program of the Department of Public Health. The Division of Communicable Diseases and Health Units was represented by an excellent exhibit placed by the Stony Plain Health Unit.

Attractiveness of the exhibits was augmented by the continuation of alterations and improvements that had been started the previous year in the Health Exhibits building. These included paintings, changes in the floor plan to allow easier movement of spectators to all exhibits and erection of more picket fences.

The exhibit drew a gratifying response from the public which, added to the interest accumulated from previous years, resulted in a record attendance for the six days. From sample counts made daily it is estimated that more than 20,000 persons visited the exhibits.

Assistance was given to Health Units in planning displays at local exhibitions in Camrose, Stettler, Vegreville, Athabasca, Grande Prairie and Westlock. Material and equipment was loaned by the Division for these displays. Theme of the displays was the work of the Health Units in their communities and in each case the work of the Department of Public Health and its relationship to the Health Unit was tied in to the exhibit.

Several of these exhibits featured the filmstrip HEALTH OF THE PEOPLE dealing with the work of the department. It was shown on an automatic projector on the projectograph with an explanatory comment offered by the attendants at the exhibits.

Exhibits were also arranged by the Division at a number of gatherings and conventions during the year. These included the annual meeting of the Alberta Home and School Associations where our display featured literature and program planning help available from the division.

At the annual meeting of the Alberta division of the Canadian Medical Association a display representing the Department of Public Health was arranged and a representative of the division was in attendance for five days. More than 400 doctors viewed the exhibit and 127 stopped to discuss the exhibit, ask questions about the Department and leave requests for specific material.

Exhibits demonstrating the use of health education materials and resources in community work were shown at the previously mentioned conferences for the Sanitary Inspectors and Municipal Nurses.

As a result of these exhibits and activity following them, closer liason has been established between the Division of Health Education and the medical profession and the Home and School Associations in Alberta. Through the courtesy of the Alberta C.M.A. office, an informative letter and several booklets including ALBERTA'S HOSPITALIZATION PROGRAM were mailed to every doctor in the province. Many doctors have received other material directly from the division for distribution to their patients.

The central office of the Alberta Home and School Association also handled a similar mailing of letters and booklets to its 500 members associations in the province and an increasing number of these groups are using our films, materials and program help.

Health Literature

More than 196,000 pieces of health literature and 6,600 posters were distributed by the Division during the year. By subject matter the largest distribution was in the field of child health and welfare and child training to the number of 95,000 booklets and pamphlets. In the field of maternal health and welfare 12,000 booklets were distributed. Approximately 22,000 booklets and pamphlets dealing with services and work of the Department of Public Health were distributed including about 6,000 copies of the booklet Alberta's Hospitalization Program.

A consistent effort has been made to direct this material to readers who would have an immediate interest and use for it. A large proportion is passed out through physicians, nurses and other public health workers dealing with personal queries on specific subjects. Other methods have been worked out such as having local Home and School Associations in the summer distribute the leaflet PRE-PARING YOUR CHILD FOR SCHOOL to parents of children starting school in the fall.

Nutrition Services

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

During the year, Nutrition Services has endeavoured to meet the request from health units, municipal nurses, city health departments, municipal hospitals, and individuals. This office has not been able to respond to all the requests for assistance with programs; however a greater total volume of work than in the past was accomplished due to better organization and enlarged facilities.

Work with Nurses.

The staff education program for the public health nurses was continued during the field visits of the nutritionist. The topics discussed varied with the nurses and the locale and included, in part: a review of the basic information about nutrition; the effect of food habits upon nutrition practices in Alberta; nutrition for children; adequate diets for families with low incomes; special dietary problems such as diabetes; obesity and underweight. During the year twenty-four public health nurses were visited.

In March, 1953 the nutritionist assisted at a workshop for the school nurses in Calgary. The subject of the workshop was "Allergies". In April, the nutritionist participated in a workshop designed for the municipal nurses on the subject School Health Services at which she conducted the section dealing with school lunch programs. The feeling of the nurses was that they should concentrate their efforts on educating the parents and children to bring a good lunch from home, rather than promote a lunch program where the meal or part of it is prepared at school.

Nutrition Services received and answered written inquiries from public health, industrial and hospital nurses on various phases of nutrition. These included: sources of materials, food fads and fallacies, budgets, and the relative cost of cod liver oil preparations.

The mimeographed leaflet entitled "Nutrition News" continued to be distributed to the public health and industrial nurses to keep them posted in the trends of the science of Nutrition. The topics included: school lunches, vitamin D and extracts from current journals.

Time was devoted to professional training—lecturing and the supplying of teaching aids—in cooperation with the University of Alberta and the training schools for nurses.

Clinics.

During scheduled field visits the services of the nutritionist were available to the well-baby and pre-school clinics sponsored by the health units and municipal nurses. Group discussions and individual conferences with parents were held at these clinics. Other people were referred in person and by letter to the nutritionist from the health unit doctor or nurse.

Work with Teacher.

Instruction in nutrition and special assistance to teachers has been continued in the province during the school year. Teachers have requested specific help in classroom teaching and have included planned nutrition teaching with the children as part of their health program. The teachers have requested and received nutrition pamphlets and posters.

Assistance to Institutions.

The Dietary Consultant service to small hospitals which was begun in 1949 has continued to be well received. It has included assistance with therapeutic diets; providing menu guides and quantity recipes; the preparation and distribution of the monthly mimeographed release entitled, "Institutional Supper Menus". At the request of the Department of Welfare, the names of institutions under their jurisdiction were added to the mailing lists for Institutional Supper Menus.

The nutritionist assisted two hospitals in obtaining the services of qualified dietitians to lecture to the student nurses and to manage the dietary departments.

Special Activities.

The work with lay groups in the various communities has continued, as in the past. This has included study groups composed of parents, industrial workers, Home and School Associations, Women's Institutes and others. The energies of the nutritionist have also been directed to furthering work with teen age groups (e.g. Girl Guides and Church Groups).

The nutritionist worked with two industrial nurses in planning and preparing food guides for working girls and family groups in their organizations.

Nutrition Services prepared mimeographed materials for use in special programs planned by the nurses (e.g. pre-natal leaflet). In addition materials prepared in previous years were revised and mimeographed for distribution.

Summer Projects.

Nutrition exhibits were planned for the Edmonton Exhibition and for some of the class B fairs.

Pre-planning for food service at summer camps and assistance to food service personnel throughout the camping period was given. Educational materials about food as it is related to health were made available to the camp leaders during the camping period.

In March the nutritionist attended the meeting of the Dominion Provincial Nutrition Committee in Ottawa.

Division of Municipal Nursing

MARGUERITE M. MACALISTER, P.H.N., Director

The year 1953 has been a very busy one for the Nursing Division. There were a total of thirty-four (34) Municipal Nursing Services open, twenty- seven (27) in Local Improvement Districts and six (6) full time and one part time in organized Municipalities; and one (1) One Nurse Health Unit. A new Municipal Nursing Service was opened at Tomahawk in the Municipal District of Stony Plain in December.

In September Mrs. Dorothy K. McPhail, Assistant Director was transferred to the Division of Communicable Disease and Health Units, and a replacement was not made in the Nursing Division.

During the year there were four (4) permanent appointments and thirteen (13) new appointments. There were eleven (11) resignations from the staff, three (3) to take other employment and eight (8) nurses married; five (5) of these eight (8) nurses were temporary employees. Three nurses transferred from Municipal Nursing, two to Health Units and one to the Ponoka Mental Hospital. Mrs. Johnson of Tangent had four months' leave of absence to take the Advanced Course in Practical Obstetrics and Miss Gibson of Warner took leave of absence in September to take the course in Public Health Nursing

Municipal Nursing Services in Local Improvement Districts are as follows:

Alder Flats	Hines Creek	Sunnynook
Blueberry Mountain	Kinuso	Tangent
Bonanza	Lindale	Valleyview
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: 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.

Tomahawk in M. D. of Stony Plain No. 84.

Whitemud Creek in M.D. of Smoky River No. 130 (part time service).

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

Alder Flats	—Buck Lake
Bonanza	-Bay Tree and Cherry Point
Fawcett	-Flatbush and Jarvie

DEPARTMENT OF PUBLIC HEALTH

Foremost	—Etzikom, Hoping School, Orion, Many- berries and Lucky Strike
Fort Accinibair	ne—Timeu and Doris
	-Schuler
Hilda	
Kinuso	—Faust
Lea Park	—Fish Lake
Milk River	Coutts
New Brigden	-Esther, Compeer, Sibbald, Consort, Bodo,
	Altario, Kirriemuir, Sedalia, Naco,
	Farming Valley, Lanfine
Peers	-Haddock and Shining Bank
Slave Lake	-Canyon Creek and Widewater
Smith	-Chisholm
Sunnynook	-Iddesleigh, Cessford, Sheerness, Craig-
Dunnynoon	myle, Scapa, Elmer School, Hand Hills,
	Jenner
Tangent	—Eaglesham and Watino
Vauxhall	—Hays
Wanham	-Belloy
Warner	-Wrentham
Whitecourt	-Blue Ridge
Youngstown	—Hemaruka, Veteran, Chinook

See Appendix No. I and II for Statistics.

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

Wainwright Health Unit at Wainwright.

MacLeod-Pincher Creek Health Unit at Granum.

The Wainwright Unit was included in the Minburn-Vermilion Health Unit as of September 1st.

A new car was purchased by the School Division for the MacLeod-Pincher Creek Nursing Service in December. There are two nurses serving this unit and it has been fully staffed since June 1st when Miss E. McLean was appointed.

(See appendix No. 3 for Statistics)

The increase of population in the Province is being felt in the outlying district and the Municipal nurses load, with regard to Public Heath Service, is continually increasing. The statistics of work accomplished as shown in the appendix is the smallest part of the work. The thorough care and the time and energy and patience consumed with the many problems and consultations, often with regard to social and welfare situations, are not shown by simple numbers. Many welfare cases were brought to the attention of the nurse in her Public Health work and these cannot be disregarded, as the R.C.M.P. who act as welfare officers are also limited in the amount of attention they can provide.

Staff Education.

All of the nurses were in Edmonton for three days following Easter week-end for the Spring Conference. A workshop was held the first two days, the theme of which was "The Improvement of the School Health Program in Alberta." Miss R. Chittick, Associate Professor, Faculty of Education, University of Alberta, Calgary Branch, was guest speaker and consultant. The final day included a speaker on New Drugs and use of Penicillin, and a discussion period of general problems.

The News Letter was issued quarterly to all staff members with general information on newer trends in nursing applicable to the Municipal Nursing program.

New staff members were given a few days orientation in the Nursing Office and observed clinics and school health programs conducted by other health agencies. They also spent a few days in a district with a senior nurse before proceeding to an appointed centre.

Reports are submitted at the end of each month through which a certain amount of assistance can be directed to the nurse regarding the service. Correspondence is heavy when less than one field trip is made a year.

Supervision.

Twenty-five districts were visited by the office staff of the Nursing Division. Many problems which the nurse had encountered in the course of duty were discussed and a brief inspection given of the service rendered. In each district visited the Nurses' Home Committee had a meeting in order that their problems and responsibilities could be discussed.

Miscellaneous.

A four-hour evening course was given at the University of Alberta on "Nursing Care of Patients with "Polio" which was attended by the Director. Mimeographed lectures regarding the above were provided to us by the Nurse Consultant of Civil Defence which were distributed to all Municipal Nurses.

The Annual Meeting of the A.A.R.N. and A.P.H.A. was attended by the Director.

Lectures given by the office staff were as follows:

- 1 lecture to 30 Public Health Nursing students on "Prematurity and care of Premature Badies."
- 1 lecture to 30 Public Health Nursing students on "Nursing care of Radiation sickness."
- 1 lecture to 30 Public Health Nursing students on "Municipal nursing."
- 1 lecture to third year medical students on "Municipal and Public Health Nursing in Alberta".
- 1 summary and discussion to Officers of Health in Alberta on the workshop of "Improvement of School Health".
- 6 lectures at High School Careers Night on "Nursing".

The film "District Nurse" was used in each instance when speaking on Muncipal Nursing. A new leaflet "Municipal Nursing" was released in November describing the organization and service offered.

TABLE No. 1

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

	Total
No. Treatment Consultations	37,986
No. Treatment Consultations Postpartum	927
No. Miscellaneous P.H. Consultations	12,373
No. Antepartum Consultations	1,733
No. Infant and Pre-School Consultations	8,068
No. Treatment Home Visits	7,452
No. Miscellaneous P.H. Home Visits	2,379
No. Communicable Disease Home Visits	1,859 634
No. Maternal Welfare Home Visits No. Infant and Pre-School P.H. Home Visits	1.369
No. Deliveries	72
No. Abortions	45
No. Cases sent to doctor or hospital	2.172
No. Deaths under 1 year	6
No. Deaths over 1 year	33
No. Deaths over 1 year No. Cases of Communicable Diseases Reported	2,169
No. Pieces P.H. Literature Distributed	5,491
Fees Collected	\$24,379.09
Municipal District	3,585.33
	\$27,964.42
MMUNIZATION WORK DONE AT OFFICE OR CLINICS:	
	110
No. Immune Serum Globulin for Measles	116 86
No. Immune Serum Globulin for Mumps No. Immune Serum Globulin for Poliomyelitis	78
No. Staphlococcus Toxoid (Doses)	21
No. Rables Vaccine (Doses)	10
No. Diphtheria Toxoid (Doses)	7,117
No. Pertussis Vaccine (Doses)	6.394
No. Tetanus Toxold (Doses)	5.559
No. Smallpox Vaccine	1,885
No. Typhoid Fever Vaccine (Doses)	58
No. Patch Tests	153
Old Tuberculin Tests	30
TOTAL	21,499
-	
IISCELLANEOUS:	
No. Lectures to Organizations	86
No. Films shown	21
No. Generalized Clinics	217
No. Child Welfare Clinics	125
No. Classes Home Nursing	24
No. Classes First Aid	8
Old Are Benelenen Mene Welte (treated fore)	38
Old Age Pensioners—Home Visits (treated free)	539 284
Swimming Classes twice a week.	204
4 Mental Hygiene Plays.	
1 trip Drumheller Hospital suspected Rabies.	
4 T.B. Cases sent to Sanatorium.	
1 pre-natal Class.	
1 Class Civil Defence.	

72 Welfare Cases. 234 V.D. Cases. 4H Club—Girl Guides, Scout Troops, Cubs, C.G.I.T. organized in one district.

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TABLE No. 2

SCHOOL HEALTH PROGRAMME

1	No of Visite to Schools	464
1.	No. of Visits to Schools	
3.	No. of Students Inspected	6,707
3.	No. with Suspected Defects	3,872
	(a) Defective Visions	700
	(b) Defective Hearing	164
	(c) Diseased Tonsils	1,869
	(d) Unsound Teeth	2,742
	(e) Eye Diseases	89
	(f) Ear Diseases	102
	(g) Enlarged Cervical Glands	471
	(h) Enlarged Thyroid Glands	45
	(i) Malnutrition	260
	(j) Nervous Disorders	160
	(k) Faulty Posture	288
	(1) Orthopaedic Defects	13
	(m) Ringworm	19
	(n) Impetigo	82
	(o) Scables	49
	(p) Pediculosis	61
	(q) Other Skin Conditions	154
	(r) No. exclusion, Suspected Communiacble Disease	293
4	No. Correction of Defects	1.004
5.	Classroom Talks	198
6.	Capitory Ingraction of Cabools	422
0.	Sanitary Inspection of Schools No. Consultations with Teachers	594
1.		
ð. 0	No. Consultations with Parents	614
9.	No. School follow-up Home Visits	330
10.	No. Pre-School Children seen at School	24
	NUT A DECASE	
	NIZATIONS:	
1.	Total No. of Doses of the following:	
	(a) Diphtheria Toxold	2.083
	(b) Tetanus	937
	(c) Smallpox Vaccine	818
	(d) Whooping Cough Vaccine	1.461
	(e) Typhoid Fever Vaccine	6
2.	Mantoux Tests and Patch Tests	113
100 1	Mantous rests and raten rests succession and succession	110

2. Mantoux Tests and Patch Tests

TABLE No. 3

Tublication Cheer Korny Services	Macleod_		
SCHOOL HEALTH PROGRAMME:	Pincher Creek	Wainwright	TOTAL
1. No. of Visits to Schools	198	34	232
2. No. of Students Inspected	694	376	2,076
3. No. with Suspected Defects	718	115	833
(a) Defective Vision	238 44	26	264
(b) Defective Hearing	205	10	44 245
(c) Diseased Tonsils	578	40 60	638
(d) Unsound Teeth	22	00	23
(e) Eye Diseases		1	
(g) Enlarged Cervical Glands	111	20	131
(h) Enlarged Thyroid Glands	19		19
(i) Malnutrition	70	0	72
(j) Nervous Disorders	22	9	31
	85	e	91
(k) Faulty Posture (1) Orthopaedic Defects	24	0	24
(m) Ringworm	7		7
(n) Impetigo	5		6
(o) Scabies	16	1	16
(p) Pediculosis		2	
(q) Other Skin Conditions	******	3	23
4. No. Correction of Defects	212	11	223
5. Classroom Talks	24	13	37
6. Sanitary Inspection of Schools	51	20	71
7. No. Consultations with Teachers	212	29	241
8. No. Consultations with Parents	74	9	83
9. No. School follow-up Home Visits	181	21	202
10. No. Pre-school children seen at school	15		15
10. No. Fie-school children seen at school	10		15
CLINICS:			
1. Child Welfare Clinics held	75	19	94
Attendance: (a) Infants	891	240	1.080
(b) Pre-schools	555	166	721
2. Pre-natal Home Visits	19	1	20
3. Infant Welfare Visits	51		51
4. Pre-school Home Visits	89		89
5. Tuberculosis Home Visits	184	14	198
6. Mental Hygiene Home Visits	26	3	29
		AND A DESCRIPTION OF A	

DEPARTMENT OF PUBLIC HEALTH

INSTINUT ATTONC.			
IMMUNIZATIONS:			
1. Total No. of Doses of the following:			
(a) Diphtheria and Tetanus	57		57
(b) Diphtheria Toxoid	12	58	70
(c) Smallpox Vaccine	217	70	287
 (d) Scarlet Fever Toxin (e) Diphtheria and Tetanus and 		3	3
Pertussis (f) Whooping Cough Vaccine and	724	40	764
Diphtheria Toxold	155	233	388
2. Mantoux Tests and Patch Tests	23	15	43
			10
COMMUNICABLE DISEASE CONTROL:			
1. Visits to Cases, Contacts and Suspects	397	- 24	421
2. No. cases Quarantined or Isolated	414	60	474
(a) Scarlet Fever	109	10	119
(b) Measles	97	26	113
(c) Chickenpox	24	5	29
(d) Mumps	100	6	106
(e) Whooping Cough	19	- 2	21
(f) Rubella	1	4	5
3. Contacts Isolated		7	7
HEALTH EDUCATION:			
1. Interviews	782	3	785
2. No. of Lectures	5	3	8
3. Literature Distributed (approx.)	359		359
4. Films shown	5		5
5. Newspaper Publicity	80		80
6. School Health Paper Published	851		851

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Division of Social Hygiene

P. L. RENTIERS, M.D., Director

This Division has completed another very active year of operation. Our three full time clinics in Edmonton, Calgary, and Lethbridge, have all shown a greater patient attendance during the past year, although there has been no significant change in rate of any of the venereal disease entities. The heavier patient load has resulted because of : (a) constant effort to bring all persons named as contacts to venereal disease under care. (b) the intensification of the follow-up programme carried out on all treated cases of venereal disease, and (c) a larger number of persons reporting to the clinics, either referred by the private physician or coming of their own volition, for routine examination. This growing tendency for persons to report for periodic examination is, without a doubt, the result of health education and the resultant public awareness of venereal diseases. It is gratifying to note that despite the rapid increases in population, particularly in urban centres, no significant rise in venereal disease cases occurred.

The Mobile Clinic unit was utilized to its full capacity in 1953. This was made possible by the fine co-operation of the Mobile Tuberculosis Chest X-ray Service. Arrangements were completed to allow the mobile unit to accompany the former group, thus assuring a far better patient attendance. It is hoped that this programme will continue in 1954. In the past year a large part of north-eastern Alberta was thus surveyed. Independent spot surveys were also done by the mobile unit in the Chard and the Lac La Biche areas. The Unit functioned both as a diagnostic and treatment clinic.

The Division has continued distributing antibiotics and heavy metals to private physicians and institutions for treatment of patients suffering from venereal disease. It also maintains, largely through the Edmonton office, a consultation service to physicians, public health nurses, and other interested persons. The three clinics continue to offer diagnostic and treatment service for those patients wishing to report directly to them.

Lectures to medical, nursing, and lay audiences form an important part of the educational programme of the Division. At the same time distribution of free literature on venereal diseases and the showing of motion pictures of educational value has been encouraged. An effort to interest large groups was undertaken last year with the showing of a continuously run film on venereal disease entitled "Look at a Stranger", at the Edmonton Exhibition. It is felt that this type of programme could be of great value and might be extended to other centres.

During the year consultations were held with social workers from other Divisions with a view to extending our own social service. It is felt that personal counselling and rehabilitation can play a great part in the control and prevention of venereal diseases, particularly in the younger age group. We are attempting to put more time and emphasis on this phase of the work and we hope that the result will prove the value of the project.

The work and aims of the Division have been greatly facilitated by the encouragement and help of a large number of interested people. The Division is most appreciative of the co-operation of the private physicians, the public health nurses, and the health unit personnel, who have contributed much to the success of the venereal disease control programme. Special thanks are extended to the staff members of the Provincial Laboratory of Public Health, the Division of Public Health Education, and the Bureau of Vital Statistics for their advice and assistance.

In addition, we wish to express our appreciation to Dr. G. R. Davison of the Division of Tuberculosis Control, Mr. E. R. Baxter, Director of X-ray Surveys, Alberta Tuberculosis Association, the Department of Indian Affairs, the Edmonton City Police and the Royal Canadian Mounted Police, for their co-operation in the furtherance of the work and objectives of this Division.

Finally, my sincere thanks to the entire staff of the Division of Social Hygiene.

The statistical report of the Division is as follows:

ALLEGED SOURCES OF VENEREAL INFECTION OR CONTACTS For the Period January 1st, 1953 to December 31, 1953

Location of Source of Inf Contact Edmonton *			Number of Sources of Infection or Contacts Reported	Number of Sources of Infection or Contacts Located 572		ntacts ated
Calgary			273	241	88	
Lethbridge			15	9	60	1.00
Medicine Hat			7	6	85	
Remainder of Province			745	659	88	%
ALBERTA TOTALS			1.736	1,487	86	%
Sources of Infection or Co ed outside of the Provin				84	49	76
TOTALS			1,907	1,571	82	%
Unit Forwarding Inform	nation		Number of Sources of Infection or Contacts Reported	Number of Sources of Infection or Contacts Located		ntacts
Armed Forces			159	111	70	
Private Doctors and Provin	cial Cl	inice	1 598	1.365	85	
Other Provinces			150	95	63	
TOTALS			1,907	1,571	82	96
Sources of Infection in All cerned Sources of Infection outsid ties concerned Number of Notification Card	o of A	Iborto	who could not			105
DETAILS OF INFO						
How Informant Met Source of Infection or Contact Pick-ups Introduction	798	42 %	Where Informa of Infection Boarding Hou	or Contact ise or Rooming		
Friend	92 211	5 %			28	1 %
Marital Partner	185	11 % 10 %	Restaurant on	Beer Parlor	324	17 %
Common-law Wife	66	3 %	Street or Ou	tdoors	154 304	8 % 16 %
House of Prostitution	4	.2%	Friend or Pr	ivate House	109	6 %
Appointment	32	2 %	Hotel		120	6 %
No Data Available	519	27 %	Marital Parts	ner	185	10 %
			Recreation or	Private Party	93	5 %
			Danot	ay Station, Bus		
			Depot		18	1 %
			House of Pro	stitution	4	.2%

At Work

No Data Available

12 549

29 0

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DETAILS OF INFORMATION OBTAINED ON THE CONTACT INVESTIGATION

Occu	pation	n of :	Sour	ce
			ALC: 1	

of

Place of Exposure			Infection or Contact			
Rooming House or Apt Private House	168 151	9 % 8 %	Waitress Housewife	175 54	9 2 4	%%%
Outdoors Car or Truck	103 239	5 %	Prostitute or Street Walker Domestic, Hotel, Hospital	77	4	%
Train, Boat, Auto-Camp House of Prostitution	30	12 % 2 % -2%	Maid Clerk, Salesman, Steno,	109	6	%
Taxi or Taxi Office	2	.1%	Teacher or Cashier	67	4	%
Hotel Room, House or Shack	282 431	15 % 23 %	Factory or Plant Worker Service Personnel	8 11	1.4	
No Data Available	497	26 %	Unemployed Laundress or Dry Cleaner	6 7	.3	96
			Truck, Taxi or Bus Driver Farmer, Trapper or	28	1	%
			Fisherman	35	2	%
			Nurse, Student Dressmaker, Hairdresser	8 3 51	.4 .2	19%%
			Laborer or Transient Business man	51 1	3 0.0	5%
			Tradesman, Electrician, Plumber	21	1	1%
			Dispatcher	2	.1	. %
			No Data Available	1,244	65	%

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

		der yr.	-	-4 rs.	5- 		15- yi	19 s.		yrs. over	Age	not	
	M.		M.	F.	M.	F.	M.	F.	M.	. F.	M.	F.	Totals
Gonorrhoea (all forms)			****				34	42	551	122			749
Syphilis (Congenital)								****		1			1
Acquired—Primary		****						1	10	1	****		12
Acquired-Secondary			****					2		2			4
Acquired-Latent				****				2	5	12			19
			-				-						
TOTALS							34	47	566	138	in		785
		-			-		-				-	-	
Number of cases of Syphilis Number of Cases of Gonorri						164							36 749

Number of Cases of Gonorrhoea-Male 585, Female 164

Number and results of Serological tests for Syphilis: 8,457 of which 566 were positive. Number and results of Cerebrospinal fluid tests: 29 of which 8 were positive. Number and results of Bacteriological tests for gonococci: 1,973 of which 135 were positive. Number and results of Cultures taken for gonococci: 1,252 of which 200 were positive.

	Une 1	der yr.	1- y1	-4 rs.	5-1 yr		15- yr		20 y & o		Age	not	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)							6	6	213	46			271
Syphilis (Congenital)				-					1			****	1
Acquired—Primary							1	****	6	1			8
Acquired—Secondary								****		2			27
Acquired—Latent	****	****		****			1		4	2			7
Other									2				2
	-			-	-	-				-	-	-	
TOTALS					and a		8	6	226	51			291
					-		-					-	

Number of cases of Syphilis—Male 15, Female 5 Number of cases of Gonorrhoea—Male 219, Female 52 271

Number and results of Serological tests for Syphilis: 3,286 of which 252 were positive. Number and results of Cerebrospinal fluid tests: 5 of which 1 was positive. Number and results of Bacteriological tests for gonococci: 2,247 of which 244 were positive. Number and results of Cultures taken for gonococci: 1,389 of which 28 were positive.

LETHBRIDGE	CLINIC-315-10th	Street South,	Lethbridge,	Alberta
------------	-----------------	---------------	-------------	---------

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

	Une 1 y	der yr.	-	-4 rs.	5-1 yr		15- yr	19 s.	20 y & o		Age	e not ted	
	M.		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)		****					1		4	3			8
Syphilis (Congenital)												****	
Acquired-Primary					1111			4111	2	****			2
Acquired-Secondary	****	****		****				****		****			
Acquired—Latent						1111		11114	1	****		****	1
the second se			-	-	-		-			-		-	
TOTALS		****					1		7	3			11
											-		
Number of Cases of Suphillie	3.5.	ala 9	For	nala	0								

Number of Cases of Syphilis—Male 3, Female 0 Number of cases of Gonorrhoea—Male 5, Female 3 8 Number and results of Serological tests for Syphilis: 399 of which 22 were positive. Number and results of Cerebrospinal fluid tests: 18 of which 5 were positive. Number and results of Bacteriological tests for gonococci: 37 of which 4 were positive. Number and results of Cultures taken for gonococci: 2 of which 0 were positive.

PROVINCIAL GAOL-Fort Saskatchewan, Alberta

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

	Une 1 y	der yr.	1- y1	-4 rs.	5-: yr		15- yr		20 3 & 0		Age	e not ted	
	M.		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)							3	15	20	44			82
Syphilis (Congenital)						-							
Acquired—Primary		artes						-	****		****		****
Acquired—Secondary						-			iner .				
Acquired—Latent									2	3			5
Other							1	1					2
		-			-	-	-	-	-		-	-	
TOTALS	1411				****		4	16	22	47			89
		-	-	-	-		-	-		-	-		

Number of cases of Gonorrhoea-Male 23, Female 59

Number and results of Serological tests for Syphilis: 3,612 of which 122 were positive. Number and results of Cerebrospinal fluid tests: 0 of which 0 were positive. Number and results of Bacteriological tests for gonococci: 1,316 of which 49 were positive. Number and results of Cultures taken for gonococci: 1,184 of which 54 were positive.

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79429

PROVINCIAL GAOL-Lethbridge, Alberta

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

	Une 1 y	der yr.	1- y	-4 rs.	5-1 yr		15- yr		20 y		Age	not	
	M.		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all forms)							1		4				5
Syphilis (Congenital)									1				1
Acquired-Primary							****		****				
Acquired-Secondary													
Acquired-Latent							1						1
	-	-					-	-			-		
TOTALS							2		5				7
			-	-		-		-		-		-	
Number of cases of Syphilis Number of Cases of Gonorrh													2 5

Number of prisoners admitted, 1,662. Number and results of Serological tests for Syphilis: 1,401 of which 13 were positive.

MOBILE CLINIC-Chard, Lac La Biche and Surrounding Areas

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

	-	der yr. F.	-	-4 rs. F.	5-3 yr M.	s.	15- yı M.		20 y & o M.	ver F.	Age sta M.	not ted F.	Totals
Gonorrhoea (all forms)								1					1
Syphilis (Congenital)					2								2
Acquired—Primary													
Acquired—Secondary					teres.								
	****	****		****		1111				1111	****		
Acquired—Latent		****					1	T	1	6	****		9
Other							1		1				2
	-	-	-								-	-	
TOTALS					2		2	2	2	6			14
	-	-	-			-		-	-		-		-
Number of cases of Syphilis Number of cases of Gonorrh													13

Number of cases of Gonorrhoea-Male 0, Female 1

Number and results of Serological tests for Syphilis: 4,986 of which 65 were positive. Number and results of Cerebrospinal fluid tests: 2 of which 0 were positive. Number and results of Bacteriological tests for gonococci: 1 of which 0 were positive.

PRIVATE PHYSICIANS REPORTING CASES

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

		der yr.		-4 rs.	5- yr		15- yr		20 y & o		Age	not ted	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Totals
Gonorrhoea (all Forms)				1		1	33	26	286	41	33	8	429
Syphilis (Congenital)	2			1	1	1	1	1		1		1	9
Acquired—Primary		-					2	1	4	-			7
Acquired-Secondary						****			1	1			2
Acquired—Latent		****					1	1	12	15	2	2	33
Other					****		****		19	8		1	28
				-	-	-		_					
TOTALS	2			2	1	2	37	29	322	66	35	12	508
	-	-	-				-	-	-				

Number of cases of Syphilis—Male 45, Female 34 Number of cases of Gonorrhoea—Male 352, Female 77

Number of Doctors in the Province receiving consultative service, 328. Number of doses of Arsenicals distributed to Private Physicians, 74. Number of doses of Bismuth distributed to Private Physicians, 1,110. Number of Units of Penicillin distributed to Private Physicians, 1,212—Vials (3,000,000 Units) Procaine G in Oil.

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	Under 1 yr.	1-4 yrs.	5-14 yrs.	15.	-19 rs.	20 y	ver		e not ated	
	M. F.	M. F.	M. F.		F.		F.		F.	Total
Gonorrheoa (all Forms) Syphilis (Congenital) Acquired—Primary Acquired—Secondary Acquired—Latent Other	2	1 1 	3 1	111 1 4 	90 1 2 2 4 1	$ \begin{array}{r} 1213 \\ 25 \\ 1 \\ 25 \\ 22 \end{array} $	257 2 2 5 38 8	38 	8 1 2	1719 14 33 8 75 34
TOTALS	2	2	3 2	122	100	1288	312	41	11	1883
Total number of cases of Sy	philis-M	ale 94. F	emale 70							164
Total Number of cases of Go	norrhoea	-Male 1	362, Fem	ale 3	57					1,719
TOTAL NUMBER OF C.	ASES AD					us c	LIN	ICS	OF ?	THE
Sex			Syph			Gono		ea		Tota
Male Female			44 37				837 279			881 316
TOTALS										1 107
TOTALS			81			1,1	116			1,197
CASES REPORTE	D BY DO	OCTORS	AND MI	LITA	ARY	AUT	HOI	RITH	s	
			Private		iciar	is A	rme	d Fo	rces	Tota
Syphilis Gonorrhoea			4	79 29			1	4		83 603
			-				-	_		
TOTALS			5	08			1	78		686
	hilis rep	orted in	Alberta .							164
Total number of cases of Syj										1,719
Total number of cases of Syn Total number of cases of Go	norrhoea	reported	in Albei	rta						
Total number of cases of Sy Total number of cases of Go	norrhoea	reported	in Albei	rta						1,883
Total number of cases of Go Total number of cases of Sy	norrhoea philis rep	reported	Alberta	exclu	usive	of A	Arme	ed Po	er-	-
Total number of cases of Sy Total number of cases of Go Total number of cases of Sy sonnel Total number of cases of G Personnel	norrhoea philis rep onorrhoea	reported orted in a reporte	Alberta	exclu	usive	e of A	Arme	ed Po	er-	1,883 160 1,545

NEW CASES OF SYPHILIS AND GONORRHOFA REPORTED IN ALBERTA-1953

Report of the Provincial Laboratories

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

During 1953 the Provincial Laboratories carried out 277,374 examinations, the nature of which is shown in the accompanying tables. The work done has increased by 24,594 examinations or by 10%. To this increase the contribution of the Calgary Laboratory, directed by Dr. Shute, was notable being almost 9,000 examinations or 15% of its previous total.

Central Provincial Labtoratory. In Edmonton, our recent provision of gonococcal culture facilities has amply justified the time and energy put into it. It is hoped that 1954 will see the Southern Branch Laboratory taking over the investigations of this nature applicable to its own area. The value of our program of routine bacterial sensitivity tests is, I think, being increasingly appreciated by clinical workers in view of the developing complexities of antibiotic therapy. In sanitary bacteriology the trend to centralization of water examinations under the control of health units has produced circumstances favourable to our development of special transport methods applicable to the widely dispersed sources of potable waters in the Province.

Dr. Macgregor, Provincial Pathologist, in recording an increase in the number of Ascheim Zondek tests for pregnancy carried out by his department, has indicated that the frog test is now replacing the rabbit test. Frogs can readily be obtained commercially at all times of the year, cost considerably less than rabbits, and their use entails no expense for maintenance.

Southern Brank Laboratory. In Calgary, a trend away from its immediate service attachment to the Provincial T.B. Sanatorium has arisen owing to the impracticability of correlating laboratory and Sanatorium working hours. Laboratory techinians must perforce return to Calgary at times fixed by available transport. This has re-emphasized the unfortunate siting of our public health laboratory with all its disadavantages, the provision of special transport, difficulties of attracting and retaining staff, etc. In the long view, a re-location of our Calgary Laboratory in the city itself would achieve economy and would undoubtedly result in an increasingly valuable service.

New or Supplementary Services.

Due largely to the crippling influence of staff resignations, often through the attraction of higher salaries in commercial undertakings, no developments worthy of note have occurred in the Central Laboratory this year. Supplementary, however, to our normal service we have undertaken a survey of the incidence of Tularaemia and Brucellosis among the Indian population in collaboration with physicians of the Camsell Hospital.

In the Calgary Laboratory a diagnostic service in Mycology is being actively developed by Dr. Crichton who has received special training in this work through a Provincial Training Grant. Dr. Crichton has also undertaken a painstaking survey of the relationship between community serum antibody levels and the applications of the popular Widal technique to the diagnosis of enteric infections.

Regular Laboratory Services.

The general level of bacteriological investigations has been maintained in both laboratories. The epidemiological importance of our enteric investigations and particularly the valuable information on the spread of Salmonellosis derived through our excellent relationship with the Provincial Veterinary Laboratory has been favourably commented on in Ottawa. The occurrence in an Indian reserve at Vilna of a small typhoid outbreak caused by a type of typhoid bacillus not previously recorded in Canada is an interesting though puzzling example of such an epidemiological circumstance. The importance of our Indian populations as possible reservoirs of human epidemic diseases is also emphasized by the occurrence of four cases of diphtheria on the Reserve at Cardston. An investigation under Dr. Snute's direction revealed that ten out a total of 150 children were carrying virulent diphtheria bacilli in their throats.

The considerable increase in syphilis serology recorded under Wassermann and Kahn tests is mainly ascribable to a vigorous campaign by the Division of Social Hygiene. Special surveys have been undertaken in the far north of the Province during the late summer and early fall with a view to determining the incidence of latent or unrecognized syphilis in the local populations. Except among the Indian and halt-breed population of the Lac La Biche area no significant incidence of endemic syphilis was revealed.

Sanitary Bacteriology.

The very considerable increase in water examinations in both the Edmonton and Calgary Laboratories is due partly to the increase of commercial undertakings throughout the Province and partly to the greater emphasis on the importance of bacteriological control of water supplies in general. Much of this stems from the increasing public health supervision now available through the increased number of health units.

Pathology.

The importance of this work is demonstrated by the continued demand on the surgical diagnostic tissue service. Both Edmonton and Calgary Laboratories report an increase in the numbers of specimens received. Dr. Macgregor and Dr. Shute independently comment on the value of this service particularly to rural communities where the services of a tissue pathologist are not available and both emphasize its importance in cancer diagnosis. In this last connection, the increasing reliance in smear techniques for the examination of bronchial washings, sputum, cervical secretions, etc. is noteworthy. Such techniques are speedy in performance but demand an extremely high level of professional skill and experience. The clinical acceptance of our findings reflects great credit on our pathologists and their staffs.

Staff.

In the Central Laboratory, Dr. C. R. Amies, M.B., B.S., M.D., D.T.M. and H., L.R.C.P., M.R.C.P. (Lond.), M.R.C.S. (Eng.), has

recently arrived to fill the vacancy created by the transfer of Dr. J. H. Stirrat. Dr. Amies, who was trained in the best laboratories in England, comes to this department from a senior position in the South African Institute of Medical Research. His wide experience in general bacteriology and his special acquaintance with virus research should prove of great value to the Province. No other changes have occurred in the senior professional staff.

In the Calgary Laboratory, Dr. Shute returned to full duty from the early part of the year. His satisfactory recovery from the serious illness which caused grave concern at this time last year is most gratifying.

	67
	195
	YEAR
	THE
	DURING
	LABORATORIES
1.	PROVINCIAL.
E No	THE
ABL	NI
T	VALUE
	COMMERCIAL
	SHOWING
	PERFORMED
	WORK

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Item	Edn Edn	Edmonton	Cal	Calgary	T	Total
	Value Number	Value	Number	Value	Number	Value
Sputum Examinations	1.00 1.547	\$ 1.547.00	5.052	\$ 5.052.00	6.599	S 6.599.00
Diphtheria and Haemolytic Strentococci	1.00 3.467	3.467.00	838	838.00	4.305	4.305.00
Diphtheria Virulence Tests			28	140.00	28	140.00
Typhoid Fever (Agglutination Test)	1.00 2.262	2.262.00	1.313	1.313.00	3,575	3.575.00
Milk	1	4,845.00	1,136	3,408.00	2,751	8,253.00
Water	10.00 6,284	62,840.00	1,796	17,960.00	8,080	80,800.00
Guinea Pig Inoculations	2	6,975.00	1,199	3,597.00	3,524	10,572.00
Miscellaneous Bacteriology	3.00 6,741	20,223.00	985		7,726	23,178.00
Blood Cultures	3.00 900	2,700.00	129	387.00	1,029	3,087.00
Enterobacteria and Intestinal Parasites	3.00 3,381	10,143.00	278	834.00	3,659	10,977.00
Urinalysis	11.000 11	11.00	2,873	2,873.00	2,884	2,884.00
Medico-legal (Blood, Seminal, etc.)	5.00 8	40.00			00	40.00
Blood Counts	1.00		1,501	1,501.00	1,501	1,501.00
Biochemistry Investigations	3.00		380	1,140.00	380	1,140.00
Cerebro-spinal Fluids for the Wassermann Test	1.00 2,144	2,144.00	1,146	1,146.00	3,290	3,290.00
bloods for the Quantitative Mann Test	2.00 898	1,796.00	313	626.00	1,211	2,422.00
bloods for the Wassermann 1est	1.00 5,249	5,249.00	2,616	2,616.00	7,865	7,865.00
Bloods for the Standard Kahn Test	1.00 5.154	5.154.00	2,431	2,431.00	7,585	7,585.00
Bloods for the Presumptive Kahn Test	1.00 94,551	94,551.00	27,719	27,719.00	122,270	122,270.00
Smears for Gonococcus	1.00 10.200	10,200.00	2,619	2,619.00	12,819	12,819.00
Cultures for Gonococcus	1.00 8,704	8,704.00	annual and a second		8,704	8,704.00
Pathological Histological Material		54,945.00	2,735	13,675.00	13,724	68,620.00
Blood Smear Examinations		460.00	94	188.00	324	648.00
Post Mortem Examinations	25.00 339	8,475.00	4	100.00	343	8,575.00
Post Mortem Reports (Outside Points)		1,890.00	2	70.00	189	1,960.00
Ascheim Zondek Tests	5.00 107	535.00			101	535.00
FLUE LEVIS		2,040.00			408	2,040.00
Fluids for Cancer Cells	5.00 268	1,340.00	165	825.00	433	2,165.00
Cancer Cytology	5 000 2 000 2 0 0 0 0 0 0 0 0 0 0 0 0 0	115 00			200	138.00
Constructions Phylic Press (Analysis) (2012 David)	0.00 0 504	00'CTT	1 100	0.050.00	0702 0	DO CTT L
Performent riutus Examinations (Conotan Gold, Failuy)	701 002	235.00	1,140	00.00212	0,122	00255
R abortite Evanimations (& solutionation Teach		1 167 00	1 212	676.00	2 649	1 894 00
P. tularents (Arglutination Test)	50 2.387	1.193.50	1.313	656.00	3.700	1.850.00
Antibiotic Sensitivities. etc. (Discs)		2.865.00			28.650	2.865.00
Mycological Examinations		2.208.00			736	2,208.00
Weil Felix		12.00			12	12.00
Paul Bunnell Tests		1,856.00			928	1,856.00
T.B. Smears and Cultures	e,	9,645.00	739	2,217.00	3,954	11,862.00
Autogenous Vaccine Cattle Bloods	1.00 24	375.00			375	375.00
TOTALS	209,426	\$337,954.50	61,843	\$ 99,729.00	271,269	\$437,753.00

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DEPARTMENT OF PUBLIC HEALTH

TABLE No. 2

DETAILS OF EXAMINATIONS OF MILK PERFORMED DURING	THE YEA	R 1953
Milk	Edmonton	Calgary
Number of milks examined bacteriologically	1,615	1,136
Number of milks examined for butterfat	250	228
Number of milks examined for B. coli	699	1,127
Number of milks tested by the Phosphatase Test	274	236
Number of ice creams examined	70	
Number of rinse waters examined bacteriologically	*****	28

TABLE No. 3

DETAILS OF THE BACTERIOLOGICAL AND CHEMICAL EXAMINATIONS OF WATER PERFORMED THROUGHOUT THE YEAR 1953

Water	Edmonton	Calgary
Number of samples of water examined bacteriologically and found fit for human consumption	3,136	1,243
Number of samples of water examined bacteriologically and found unfit for human consumption	922	552
Number of samples of water examined bacteriologically and chemically and found fit for human consumption	572	
Number of samples of water examined bacteriologically and chemically and found unfit for human consumption	544	
Number of samples of water examined chemically and found fit for human consumption Number of samples of water examined chemically and found unfit	1,349	
for human consumption	865	
Number of samples of ice examined bacteriologically and found fit for human consumption	12	1
Number of samples of ice examined bacteriologically and found unfit for human consumption		

TABLE No. 4

LABORATORY WORK DONE IN RELATION TO THE CONTROL OF TUBERCULOSIS DURING 1953

ative	Calgary 92.21% 94.35% 86.1% 65.22% 100.0% 66.7% 90.1%	80.94% 94.1 %
% Negative	Edmonton 85.0% 90.1% 88.3% 94.3% 98.3% 98.9% 88.9%	94.0%
live	Calgary 450 484 31 15 11 4 4 1,109 1,104	4,089 492 5,685
Negative	Edmonton 1.558 621 136 50 50 111 183 2.810	1,454
itive	Calgary 7.79% 5.65% 33.1.78% 33.3 % 9.9 %	19.06% 5.9 %
% Positive	Edmonton 15.0% 9.9% 11.7% 5.7% 1.2% 11.1%	6.0%
ive	Calgary 29 29 28 29 29 4	963 31 1,088
Positive	Edmonton 275 68 16 3 3 23 405	93 498
Smear and Culture	Edmonton 936 325 35 35 35 1 1 1 1 1 1 1 1 1 068	
n Pig I Culture	Calgary 488 513 513 36 36 11 6 1,198 1,198	5,052 523 6,773
Guinea Pig Smear and Culti	$\begin{array}{c c} \mbox{Edmonton} & \mbox{Calgary} \\ \mbox{897} & \mbox{488} \\ \mbox{897} & \mbox{488} \\ \mbox{60} & \mbox{513} \\ \mbox{119} & \mbox{51} \\ \mbox{51} & \mbox{51} \\ \mbo$	1,068 1,547 4,762
Specimen	lings	Specimens Examined by Smear and Culture (Edmonton) Sputums Examined by Smear only Miscellaneous Examined by Smear only GRAND TOTAL

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

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TABLE No. 5

TESTS MADE IN RESPECT TO THE USE OF ANTIBIOTICS PENICILLIN, STREPTOMYCIN, AUREOMYCIN, TERRAMYCIN AND CHLOROMYCETIN—Calgary

Calgary

Penicillin sensitivity of a variety of organisms isolated from cases of infection Streptomycin sensitivity of Mycobacterium tuberculosis isolated from cases	312 31 23
Streptomycin sensitivity of other bacteria	312
	312
Aureomycin sensitivity of other bacteria	
Terramycin sensitivity of other bacteria	312
	312
Chloromycetin sensitivity of other bacteria	312
Thiosulfil sensitivity of other bacteria	3
Erythromycin sensitivity of other bacteria	6

TABLE No. 6

BACTERIOLOGICAL EXAMINATIONS FOR EVIDENCE OF TYPHOID, DYSENTERY AND RELATED INFECTIONS—Edmonton

Stool and urine cultures Blood cultures	937 1.969
Bloods examined by agglutination test for typhoid and related fevers, undulant fever and tularaemia	2,387
Other materials	2,001

Details of Results Salmonella S. para-Other Typhi typhi B. Salmonella Shigella Negative Total 5 5 33 57 824 924

Urine cultures	1 3	****			12 1,966	13 1,969
				-	-	
Total isolations	9	5	33	57	2,802	2.906
Number of cases	5	3	19	41		68
Number of carriers						

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

Salmonellae from Poultry

9

Details of Salmonella cases and

carriers S. typhosa S. paratyphi B S. typhi_murium S. barelly S. tennessee S. oranienburg Total Shigella Isolations	5 3 15 1 2 1 27	S. typhi-murium S. gallinarum S. oranienburg S. bareilly S. bredeney S. newport S. thompson S. anatum S. san diego S. derby S. tennessee	39 19 1 6 9 1 19 1 19 1 1 2
Sh. sonnei Sh. flexnerl 2a 3a	32 1	*Total	99
Alkalescens dispar Total	1 6 41	Salmonellae from Animal Sources S. typhi-murium S. cholerae-suis S. thompson S. bredenev	5 2 1

TABLE No. 6A

Total

INTESTINAL PARASITES

umber of specimens examined and found negative for parasites		294
Endolimax nana	3	
Giardia lamblia	17	
Iodamoeba butschlii Trichuris trichiura	22	
Showing Ova:	26	26
Ascaris lumbricoides Enterobius vermicularis	2 10	
Worms or portions of worms:	12	12
Ascaris lumbricoides	12	
	12	12
TOTAL		344

Source Stool cultures

N

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TABLE 6

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

						1,31
	Details of	f Results				
-	Salmonella					-
Source			Salmonella			
Stool Cultures Jrine Cultures					54	223 54
Number of bloods examined by Number of bloods examined by	agglutination	tests an	d found ne	gative		796 505
Number of bloods unsuitable for Number of bloods for agglutinat	r agglutinatio	n test				15 1
Details of Salmonella Cases:		Details o	f Shigella	Cases:		
Salmonella typhi murium Salmonella paratyphi B		Shigella	1			3
3. typhi					Pos	sitive 129
5. typhi and Paratyphoid A						87
5. typhi and Paratyphoid B						30
S. typhi and B. abortus						15
5. typhi and P. tularensis						1
5. typhi, Paratyphoid A and Par	ratyphoid B					83 12
 typhi, Paratyphoid A and B. typhi, Paratyphoid A, Paraty 	abortus	D abart				6
S. typhi, Paratyphoid A, Paraty	phoid B B and	bortus an	d P tulare	mele		
S. typhi, Paratyphold R, Paratyp	abortus	borrus ai	iu r. culare	11515		1422
S. typhi, Paratyphoid B and B. S. typhi, Paratyphoid A, Paratyp	boid B and	P. tularer	isis			2
S. typhi, Paratyphoid A, B. abor	tus and P. tu	larensis				2
Paratyphoid A						12
Paratyphoid A and Paratyphoid	B					2
Paratyphoid A and B. abortus						1
Paratyphoid A and P. tularensis						1
Paratyphoid B				****		16
Paratyphoid B and B. abortus					******	4
Paratyphoid B and P. tularensis Brucella abortus				*****		67
P. tularensis						13
B. abortus and P. tularensis						6
Weil Felix						6
5. typhi and Weil Felix						
5. typhi, Paratyphoid A. Paraty	phoid B and	Weil Fel	ix			1 2 1
5. typhi, Paratyphoid B and We	il Felix					
Paratyphoid B and Weil Felix						1

TABLE No. 6A

I	NTESTINAL PARASITES-0	Calgary	
		parasites	50 6
Worms:	Ova:	Protozoan:	
Ascaris lumbricoides Enterobius Vermicularis		Giardia lamblia	1

TABLE No. 7

MYCOLOGICAL EXAMINATIONS-Edmonton

Type of material examined	Number of specimens	Number found positive for pathogenic fungi
Skin and nail scrapings	405	66
Sputum	109	48
Scalp hairs	45	16
Beard hairs	22	7
Vaginal swabs	34	10
Mouth and throat	44	32
Miscellaneous	77	16
Total	736	195

DEPARTMENT OF PUBLIC HEALTH

Fungi identified	Source	No. of specimens
Aspergillus fumigatus	sputum, vaginal smears, and nail scrapings, i throat and ear sv abscesses	skin nose, vabs,
Geotrichum sp.		
Mallassezia furfur		
Microsporum audouini	hair	2
Microsporum canis	hair, skin scrapings	
Mosaic fungus	skin scrapings	
Trichophyton faviforme	hair, skin scrapings	
Trichophyton mentagrophytes		
Trichophyton rubrum		

TABLE No. 8

NUMBER OF BLOOD AND CEREBRO-SPINAL FLUID EXAMINATIONS BY SEROLOGICAL TESTS FOR THE DIAGNOSIS OF SYPHILIS DURING THE YEAR 1953

	Edmonton	Calgary
Bloods examined—Presumptive Kahn	94,551	27,719
Standard Kahn	5,154	2,431
Quantitative Kahn	898	313
Wassermann (Kolmer)	5,249	2,616
Cerebro-spinal fluids examined by Wassermann (Kolmer) test	2,144	1,146
Bloods and cerebro-spinal fluids unsuitable for examination	1,586	432
Bloods broken and leaked in transit	213	76
Bloods and cerebro-spinal fluids "Positive" to reaction	806	322
Bloods and cerebro-spinal fluids "Negative" to reaction	94,387	29,253
Bloods giving "Reaction Not Interpreted"	1,621	1,217

TABLE No. 9

NUMBER OF BLOOD AND CEREBRO-SPINAL FLUID EXAMINATIONS BY SEROLOGICAL TESTS FOR THE DIAGNOSIS OF SYPHILIS, BY THE MONTH DURING THE YEAR 1953

		mptive n Test		ndard n Test	Quant Kahi			lood rmann		S.F.		able for nation
	Edmonton	Calgary	Edmonton	Calgary	Edmonton	Calgary	Edmonton	Calgary	Edmonton	Calgary	Edmonton	Calgary
January February March April May June July August	9,107 8,952	1,787 1,891 2,202 2,200 2,288 2,699 2,495 2,506	523 469 518 510 334 359 403 312	421 302 183 189 161 115 177 188	58 70 63 73 81 63 75 57	26 39 28 43 28 32 21 14	524 480 526 515 346 358 415 335	430 313 208 206 175 199 198 205	170 166 206 188 163 175 187 164	64 68 48 74 55 70 69 171	241 118 120 91 111 101 141 130	56 22 38 28 13 32 34 55
September October November December	7.763 8.536 7,258 7.687	2,421 2,589 2,345 2,296	400 496 426 404	167 204 161 163	108 104 69 77	24 25 20 13	405 498 432 415	191 118 184 189	181 193 165 186	182 139 128 78	128 127 110 168	26 40 39 49
Totals	94,551	27,719	5,154	2,431	898	313	5,249	2,616	2,144	1,146	1,586	432

TABLE No. 10

NUMBER OF PREMARITAL BLOODS SUBMITTED FOR SEROLOGICAL TESTS FOR SYPHILIS DURING THE YEAR 1953 Reactions Not

	Neg	Pos	Positive Interpreted Unsuitable					Total		
	Edmonton	Calgary	Edmonton	Calgary	Edmonton	Calgary	Edmonton	Calgary	Edmonton	Calgary
January	583	408	3		8	2	20	14	614	424
February	580	414	1	1	9	2	6	1	596	418
March	658	539	2		3	8	9	6	672	553
April	939	581	1	1	5	2	12	5	957	589
May	1,025	640		1	4	1	6	4	1,035	646
June	1,519	1,041	2		6	7	7	11	1,534	1,059
July	1,490	848	1	1	15	2	19	9	1,525	860
August	1,122	797	3		3	4	5	10	1,133	811
September	1.070	708	6	1	7	1	8	7	1,091	717
October	1,359	768			8	5	8	3	1,375	776
November	1,034	686	2		3	3	9	4	1,048	693
December	825	615	1		7	3 3	12	11	845	629
Totals	12,204	8,045	22	5	78	30	121	85	12,425	8,175
	and the second second									-

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TABLE No. 11

	SYPHIL	IS DU	RING	THE	YEAR 1	1953—Ec	imontor	n		
	Negative	Positive	Reaction not Interpreted	Anti-Comp.	8	able for Haem	Exami	Q. ced	Accid. Broken	tal
	Ne	Pot	Re	An	Fatty	Ha	N	N.S.	Ac	Total
January February	756 801	1	5 9	1	11 4	38 19	2	57	2	820 843
March	856		2		10	17	î	1		887
April	848 936		97	12	35	15 16	4 8	1	1	882 978
June	982		5	4	11	12	4	i		1,019
July	971		6		21	19	8 5	2		1,027
August September	911 1.094	1	2	****	12	20 12	19	5		948 1,145
October	903		1		9	13	12		1	939
November December	790 1,107	1	3 5	1	$\frac{4}{10}$	15 28	10 7	2	5	824 1,164
Totals	10,955	3	58	9	107	224	81	29	10	11,476

NUMBER OF CORD BLOODS SUBMITTED FOR SEROLOGICAL TEST FOR SYPHILIS DURING THE YEAR 1953—Edmonton

TABLE No. 12		
SERA AND VACCINES DISTRIBUTED DURING THE		Galan
Smallpox Vaccine, Glycerinated:	Edmonton	Calgary
1 point package	2,226	2,532
10 points package	4,637	2,552
Diphtheria Toxoid: 3 x 1 c.c. amps.	949	1.225
4 x 1 c.c. amps. (diluted)	14	10
6 x 3 c.c. amps.	24	000
6 x 6 c.c. amps. Diphtheria Toxoid and Tetanus Toxoid Combined:	436	330
4 x 1 c.c. amps.	393	390
6 x 6 c.e. amps.	149	
Diphtheria Toxoid and Pertussis Vaccine Combined:		
4 x 1 c.c. amps. 6 x 6 c.c. amps.	3,121 702	2,195 328
Diphtheria Toxoid, Pertussis Vaccine and Tetanus Toxoid:	102	0.00
4 x 1 c.c. amps.	4,427	4,330
6 x 6 c.c. amps.	1,790	386
Diphtheria Antitoxin:		-
1,000 units	268 65	72 18
20,000 units	141	53
Diphtheria Toxin for Schick Test:		
25 tests	213	463
Scarlet Fever Streptococcus Toxin:		107
5 x 1 c.c. vials	537 343	485
6 x 6 c.c. vials Strength "A"-30 c.c. pkg.	30	
Strength "B"	47	
Strength "C"30 c.c. pkg. Strength "D"30 c.c. pkg.	43 30	****
Strength "E"-30 c.c. pkg.	31	
Scarlet Fever Streptococcus Antitoxin:		
3,000 units	228	82
9,000 units	83	63
Scarlet Fever Streptococcus Toxin for Dick Test: 10 tests	173	196
Typhoid-Paratyphoid Vaccine:	110	100
3 amps.	387	364
10 c.c.	388	299
T.A.B.T. Vaccine:		
3 c.c. vial 8 person package	502 171	354
Pertussis Vaccine:		****
4 x 1 c.c. amps.	564	341
6 x 6 c.c. amps.	37	13
Tetanus Toxold:		
3 x 1 c.c. amps. Rocky Mountain Spotted Fever:	360	306
1 c.c. bottle	15	
2 c.c. bottle	1	
20 c.c. bottle	ĩ	
1,500 units	827	1.000
10,000 units	10	51
20,000 units	42	38
Stabhylococcus Toxoid: 2 c.c. vial	107	171
Starhylococcus Antitoxin:	127	171
10.000 units	5	3
20,000 units	8	
Gas Gangrene Antitoxin:		
4,000 units 10,000 units	123 153	196 85
Anti-Measles Serum:	100	80
5 e.c. vial	1,153	542
Immune Serum Globulin:		

A D	1.10	- 757	~	
AB	120	1.1	Ο.	14

CONDUCTED FOR THE CENTRAL ALBERTA SANATORIUM DURING THE YEAR 1953-Calgary	
Blood counts	1,501
Biochemistry Investigation (Blood Sugars, N.P.N.'s, Etc.)	2,873 380

TABLE No. 13 **Clinical Pathology Investigations** 3,745

182 8,972

23

13732 2

386

3

66

Rabies: 14 dose treatment package Snakebite Antivenin: 15 c.c.

2 c.c. vial 10 c.c. vial 5. c.c. vial

Autogenous Vaccine: 25 c.s.

Division of Sanitary Engineering

H. L. HOGGE, B.Sc., Director

The continued generally high level of prosperity has resulted in the amount of construction in the province maintaining the pace of the last few years. This is reflected in the work of all sections of the division; municipal engineering, stream sanitation, sanitary inspection and plumbing inspections. Some major industries adjacent to Edmonton have started production this year and have greatly increased the work of the stream sanitation division on the North Saskatchewan River.

Engineering.

Municipal—Many more Alberta towns and villages have either constructed waterworks and/or sewerage system this year or have made plans to construct them in 1954. At the end of the year 110 urban municipalities had waterworks and/or sewerage systems installed, 18 of them being constructed during the last year. Thirtytwo municipalities are either presently constructing utility systems or plan to construct them next year.

The plans and specifications of these systems are checked by the engineers of the division and discussed with town officials and the designing engineers. The source of water supply and method of sewage disposal are considered to ensure that an adequate supply of suitable water is available and that the sewage disposal facilities are adequate.

Some assistance on problems of operating existing waterworks and sewerage systems was accomplished but there is still much work to be done in this field.

Stream Sanitation.

On the basis of the report on Bow River, completed in 1952, directives have been sent to the City of Calgary and the Town of High River to make provision for adequate sewage treatment facilities.

Work during the summer of 1953 was concentrated on the Oldman and South Saskatchewan River system, from the Crowsnest Pass to the City of Medicine Hat. Data on the condition of the river during the winter time are being compiled to complete the report. This report will be considered by the Provincial Board of Health and the report will be circulated to municipalities and industries concerned.

The latter part of this year saw the start of production at two new industries in the Edmonton area which are discharging wastes to the North Saskatchewan River. Also one industrial plant at Duvernay commenced production with some wastes being discharged to the same river. Investigations during November and December showed that a degree of pollution exists which is impairing the quality of the water for some uses. Subsequently negotiations with industrial firms have resulted in full scale waste surveys. It is proposed to intensify the work on the North Saskatchewan River in the coming year to assess the effect of improvements in waste disposal systems and to study means of maintaining a satisfactory quality of the water in this river.

The preliminary survey of the Oldman and South Saskatchewan Rivers in 1953 has completed the initial survey of the main rivers in the province which are receiving significant amounts of waste material at this time. This program was initiated in 1950 in order to obtain information on the sanitary quality of these streams and to determine areas of importance. Future work can now be concentrated in these areas of the rivers and on the waste effluents affecting them. The rapid expansion of cities and industries has taxed the capacity of some rivers very heavily and the need for adequate waste disposal facilities is becoming increasingly important.

SANITARY INSPECTION SECTION

The year 1953 saw the staffing of the Grande Prairie and Barons-Eureka Health Units, each of which employs a full time Sanitary Inspector. Thus at the year's end there was a total of 43 full time Sanitary Inspectors employed in the Province, 3 by the Division of Sanitary Engineering, 17 by Health Units and 23 by City Health Departments.

The Town of Fairview and the Village of Sedgewick passed compulsory pasteurization by-laws during the year, increasing the total number of cities, towns and villages with such by-laws to 34 at the year's end. New pasteurizing plants were opened at Fairview, Grimshaw, Sangudo, Sedgewick, Stettler and Sundre. Plants at Cadomin, Macleod and Strathmore were closed during the year. The communities formerly served by the plants at Macleod and Strathmore now receive pasteurized milk from other sources, while the closing of coal mines at Cadomin has resulted in most families leaving the community. At the year's end there were 77 pasteurization plants in the Province supplying milk to the public, while a further 6 operated for the benefit of schools and institutions.

The Department of Industries and Labour revised its licensing regulations during the year replacing the annual licenses formerly issued to restaurants and bakeshops with permanent licenses. The full effect of these changes on the sanitary control of these premises may not be known for some time, but it would appear that the changes should have very little, if any, effect as provision is made for the suspension or cancellation of any license for cause on the recommendation of the Local Board of Health. Some problems may rise during the change-over period but it is anticipated that these can be solved with the high degree of co-operation which exists between the Licensing Office and Health Authorities.

One meat canning license was issued during the year by the Provincial Board of Health to a plant under the supervision of the City of Calgary Health Department.

A number of new waste disposal grounds were established during the year throughout the province. In most instances the sites selected received the approval of the Division of Sanitary Engineering or the Health Unit concerned due to the co-operation received from the Lands Branch of the Departments of Lands and Forests and the Surveys Branch of the Department of Highways. Provisional Certificates of Approval were issued covering the sites selected for 18 new cemeteries during the year. Prior to issue of the certificates, inspections were made by the Division of Sanitary Engineering or the Health Unit concerned. Arrangements were made to co-operate closely with the Department of Highways in regard to sites adjacent to Provincial Highways. Final Certificates were issued to 35 cemeteries which had completed the establishment procedure provided by the cemetery regulations.

Arrangements were made early in the year whereby City Health Departments and Health Units took over the inspection of tourist camps in areas under their supervision for the enforcement of the Department of Industries and Labour's Tourist Camp Regulations. Previously, all these inspections were made by the Inspectors of the Division of Sanitary Engineering. The new arrangements should provide a better service in the cases of new tourist camps and those under construction, though some uniformity in the matter of classification may be lost. During the change-over period, a number of tourist camps were inspected jointly by the Provincial Sanitary Inspector and the local Sanitary Inspector in order to familiarize local Sanitary Inspectors with the program. The full effect of this change will therefore not be felt by the Division of Sanitary Engineering until 1954.

Provincial Sanitary Inspectors employed in the Division of Sanitary Engineering operating from offices in Edmonton and Calgary, continued the program of assisting Local Health Authorities in areas outside Cities, and Health Units in dealing with sanitary matters. The number of inspections made was reduced below the number made in 1952 as the number of Provincial Sanitary Inspectors was reduced during 1952 from 5 to 3 because of the increasing number of inspectors in Health Units. The service provided in 1953 in the north half of the Province remained about the same as in previous years, while that in the south half of the Province was somewhat reduced to about the same level as that provided in the north.

Emphasis has again been placed on inspection of eating establishments and milk handling premises. Less frequent inspections have been made at tourist camps, industrial and construction camps, bakeries, waste disposal grounds and in connection with private water supplies and sewage disposal systems.

It came to our attention during the early part of the year that the operations of some milk pasteurizing plants were unsatisfactory. The inspection program in these premises was therefore stepped up though this meant reducing the program in other directions. As a result of the activities of the Provincial Sanitary Inspectors and with the co-operation of local authorities and the Dairy Branch of the Department of Agriculture, much desirable improvement has been obtained, particularly in three plants where operations had been hazardous. There appears to be continuing need for frequent inspection of milk pasteurizing plants by qualified personnel interested primarily in the safety of the milk supply, notwithstanding the activities of other Departments.

In the fall of the year, the Division co-operated with the Dairy Branch of the Department of Agriculture in the judging of milk plants, creameries and cheese factories for competitions receiving the support of the Dairy Branch.
The number of inspections of dairy farms which can be made by the present staff is limited by the location of these premises, poor side road conditions during certain seasons and by the need to carry out other inspections of an equally essential nature. Some improvement has, nevertheless, been obtained in some areas though it cannot be suggested as yet that there is any marked trend to improvement in the conditions under which raw milk is supplied to many communities.

The Division's restaurant inspection program was continued with some reduction in frequency of inspection in areas where population is lower. This program continues to produce gradual improvement in the industry from a public health viewpoint. In some communities where Local Boards of Health were very active and cooperated fully with the Provincial Sanitary Inspector, remarkable improvements were obtained.

The increasing danger of rats becoming established in Alberta and the condition into which many waste disposal grounds have deteriorated has caused the Division to give more attention to waste disposal ground inspections, particularly in the eastern portion of the Province. For the most part, only first inspections have been carried out so it is not possible to assess results achieved in obtaining improvements.

Complaints were again received during the year concerning sanitary conditions at industrial and construction camps particularly those where employees are engaged in the lumbering industry, road building, and general construction activities. The inspections made in response to these complaints have indicated that in many camps sanitation standards are low though there are outstanding exceptions. Co-operation has been received from the Division of Public Health Engineering of the Department of National Health and Welfare towards obtaining improvement in those campus where employees were engaged on Federal projects. The Division has great difficulty in maintaining an inspection service to even a token number of these camps due to the limitation of their operating seasons, mobility of some types, remoteness of location in other cases, and the limited staff available. Some of these camps are, or will be, located in Health Units but many, including most of the 1,000 or more sawmill camps operated during part of each winter, are in remote locations beyond the boundaries of Health Units. It can be anticipated that these will remain a responsibility of the Provincial Department of Public Health.

The staffing of the two new Health Units during the year reduced to some extent the area and population served by the Provincial Sanitary Inspectors. At the end of the year there was still a population of approximately 200,000 not served by City Health Departments or Health Units. The areas dependent for service on Provincial Sanitary Inspectors are much larger and more scattered than those served by Health Unit Inspectors. It is not possible for the present staff of Provincial Sanitary Inspectors to provide a service which will cover all sanitation matters.

PLUMBING REPORT

During the year 1953 the Plumbing and Drainage Regulations were completely revised and were passed as Order-in-Council 1173/53. The revision was necessary in order to modernize the regulations and to conform with the Plumbing Section of the National Building Code. It was necessary to deviate from the National Building Code in certain instances because of conditions peculiar to our climate therefore a number of regulations were maintained from the previous set. The new regulations become effective on the 15th day of March 1954. A complimentary copy of the new regulations was sent to every individual within the province who is in possession of a certificate of proficiency as a plumber. Every registered plumbing apprentice was also forwarded a copy.

A course was held in February of 1953 to assist local plumbing inspectors as appointed under the provisions of the Plumbing and Drainage Regulations. This course was given to familiarize these inspectors with the regulations as well as with proper installation practises. The course was attended by 18 inspectors.

There are 98 urban municipalities in the province responsible for their own plumbing inspections but this figure will be increased by at least 20 during 1954.

During the year this office issued 550 plumbing permits valued at \$3,814.50. These figures show a decline from 1952 but this is because of the greater number of urban municipalities issusing plumbing permits.

During 1953 this office viewed 14 rural school plans and 10 rural hospital plans as well as the plans of the sanitary sewage systems installed in a number of the new industrial establishments erected on the eastern outskirts of the City of Edmonton.

A number of requests were received from various School Boards to inspect existing systems and to submit reports to the Board concerned to improve the operation of the plumbing system installed. In each case this was done resulting in a standard of school sanitation superior to that experienced in the past by the schools concerned. It would appear that requests for such inspections will become more numerous in the future.

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.

Division of Hospital and Medical Services

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

INTRODUCTION

The Division of Hospitals and Medical Services administers the legislation whereby the Department of Health provides, out of general revenue of the Province, maternity hospitalization for residents; hospitalization, medical, dental, optical and special treatment services for the social service groups and their dependents who qualify for these services. The Division is also responsible for the administration of the Provincial Municipal Hospitalization Plan, supervision of Municipal Hospital Districts, supervision of Nursing Aide School, inspection of hospitals, hospital grants, hospital construction grants, orthopaedic care grants, poliomyelitis hospitalization and medical care, nurses training grants and home confinement grants.

The following report presents information on the foregoing as well as statistical tables and diagrams.

Statistical Summary

Through consecutive legislative programmes over a period of years, the Provincial Department of Public Health has made provision for the hospitalization of residents of the Province. Its expenditures for the year 1953 for hospitalization were as follows:

Provincial Municipal Hospitalization Plan Maternity Hospitalization Pension Group Hospitalization 70 cents per Diem Hospitalization Grant Orthopaedic Hospitalization Out-post Hospital Grant Poliomyelitis Hospitalization	$\begin{array}{c} \$ \ 2,043,896.99 \\ 1,955,989.95 \\ 1,688,243.00 \\ 1,269,433.20 \\ 45,172.80 \\ 10,531.20 \\ 700,019.00 \end{array}$
SUBTOTAL	\$ 7,713,286.14
*Cancer Hospitalization *Tuberculosis Hospitalization (Fiscal Year 53/54) *Mental Hospitalization (Fiscal Year 53/54)	\$ 57,965.00 1,609,217.76 4,169,465.28
TOTAL	\$13,549,934.18

The above data shows the expenditures by the Province for hospitalization. The items marked with an asterisk are not administered through the Division of Hospital and Medical Services and will appear no further in this report.

Other expenditures through the Hospital and Medical Services Division, were as follows:

Poliomyelitis (medical, surgical, etc.) Maternity Confinements at home Pension Group (Medical, Dental, Optical, etc.) Nurse Training Programme Hospital Construction Grants (Fiscal year 53/54)		78,149.30 4,880.00 676,757.56 63,880.00 561,600.25	
	\$ 1.	485 187 11	

The general, hospitals in the Province are classified into groups according to their facilities and the services they are able to provide. Group A comprises the six large hospitals in the cities of Edmonton and Calgary.

Group B hospitals are for the main part located in the small cities. The number of hospitals in each group is as follows:

Group A	6
Group B	8
Group C	35
Group D	47
Group E	4
Total	100

The four Group E hospitals are outpost hospitals. They receive a special outpost grant of \$1.80 per adult day and\$1.30 per child day on behalf of hospitalized residents. Table I shows the distribution of patient days by hospital group and months, excluding the D.V.A. Division of the University of Alberta Hospital. Diagram I gives the same information in graphical form. TABLE No. 1-PATIENT DAYS BY HOSPITAL GROUP AND MONTH, 1953

(excluding D.V.A. Division of University Hospital)

	Dec. Year	69,809 18,569 324,539 322,319 322,359 19,126 19,069	141,452 1,688,390	9,445 117,722 2,843 32,706 4,333 55,181 2,856 38,892 238 2,586	19,715 247,087
	Nov.	68,333 19,199 34,494 20,519	143,973	9,110 2,611 4,554 3,198 3,198	19,624
	Oct.	64,230 18,539 34,246 19,530 19,530	138,107	10,247 2,570 4,432 3,158 3,158	20,638
	Sept.	65,056 18,056 30,094 18,385 1,585	133,176	9,895 2,641 3,466 238	20,715
1	Aug.	63,306 19,105 30,883 19,151 1,617	134,062	10,573 2,891 4,717 3,184 2,21	21,586
TENTRONT	July	63,839 18,093 29,699 19,247 1,579	132,457	10,482 2,767 3,106 3,106	21,056
forein and	June	67,664 18,301 30,917 19,289 1,397	137,568	10,791 2,713 5,074 3,277	21,987
	May	66.815 19,423 33,246 21,066 1,414	141,963	9,882 3,003 4,644 3,447 221	21,197
	Apr.	69,698 20,291 33,836 21,930 1,539	147,294	9,586 2,644 3,246 3,246	20,576
0	Mar.	63,719 22,197 35,419 23,345 1,829	146,509	9,002 2,709 3,706 2,84	20,665
	Feb.	67,896 20,701 32,188 21,632 1,691	144,108	8,969 2,661 4,209 3,044 263	19,146
	Jan.	65,493 22,065 34,918 23,445 1,799	147,720	9.740 9.740 3.204 169	20,182
		ADULTS AND CHILDREN Group A Hospitals Group B Hospitals Group D Hospitals Group D Hospitals Group E Hospitals	Provincial Total	NEWBORN Group A Hospitals Group B Hospitals Group C Hospitals Group E Hospitals	Provincial Total

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Diagram 1

Table 2 gives the monthly movement of patients for adults and children and newborn. Again, data for the D.V.A. Division of the University of Alberta hospital is excluded. Diagram 2 shows monthly admissions and births graphical form.

	Year	3,985 193,243 197,228 189,688 3,459 4,081	587 587 587 587 587
14	Dec.	4,888 15,108 15,629 15,629 4,081	2,463 3,130 2,500 2,500 587
-	Nov.	4,488 15,842 20,330 15,134 4,888	2,475 3,475 3,475 2,366 667 667
~	Oct.	4,458 15,695 20,153 15,353 4,488	2,419 2,419 2,419 2,419 2,419 600
	Sept.	4,332 14,507 18,839 14,088 4,458	656 3,285 2,545 2,545 707
IS, 1953	Aug.	4,223 16,109 20,332 15,724 4,332	2,585 2,585 2,585 2,589 2,589 2,589 2,589 2,589 656
PATIENTS,	July	4,234 16,066 20,300 15,800 15,800 4,223	2,610 3,309 2,577 694
OF	June	4,296 16,153 20,449 15,976 4,234	692 3,331 2,539 2,589 699 699
MONTHLY MOVEMENT	May	4,906 16,827 21,733 17,160 4,296	2,660 3,382 2,654 2,654 692
HLY MC	Apr.	$\begin{array}{c} 4,940\\ 17,669\\ 22,609\\ 17,431\\ 272\\ 4,906\end{array}$	697 2,518 3,215 2,454 722
TNOM-	Mar.	4,809 17,351 22,160 16,900 4,940	2,519 2,519 2,495 2,495 697
E No. 2	Feb.	4,818 15,473 20,291 15,164 4,809	667 2,252 2,919 2,158 719
TABLE No.	Jan.	3,985 16,443 20,428 15,329 4,818	2,307 2,307 2,307 2,307 2,307 2,307 2,307 2,307 667
		ADULTS AND CHILDREN In at the beginning Admissions Total Under Care Discharges Deaths In at the end	NEWBORN In at the beginning Live Births Total Under Care Discharges Deaths In at the end





Table 3 records the distribution of patients discharged from hospital, or deceased, according to the type of Provincial hospitalization benefit, if any, that they received. The average length of stay in hospital, from time of admission to discharge, is also shown. For purposes of comparison, similar data for 1952 is included. It is of interest to note here that there has been no change in the average length of stay in hospital of patients whose standard ward care was part of the Provincial-Municipal Hospitalization Plan, since the inception of the plan in June, 1950.

Diagram 3 illustrates similar information for all patients under care during the year 1953.

Diagram 4 is a bar-graph of the average length of stay in hospital, by type of hospitalization benefit. Other residents not covered by any type of Provincial hospitalization benefit are included for comparative purposes. The comment made in regard to the averages shown in Table 3 also applies here.

	1953		1952		
	No. of Patients Discharged or de- ceased to nearest 100	Average length of stay	No. of Patients Discharged or de_ ceased to nearest 100	Average length of stay	
Recipients of: Municipal Hospitalization Benefits: (a) Standard Ward Only (b) Standard Ward and Special Services Maternity Hospitalization Benefits Old Age Benefits Mother's Allowance Blind Pension Widow's Allowance Residents not eligible for any of above Others	28,300 12,200 900 300	7.6 8.1 7.9 16.2 7.6 14.4 12.2 7.6 9.7	65,900 N.A. 26,000 10,900 900 300 66,800 9,000	7.6 N.A. 8.2 15.9 6.9 13.5 10.5 7.8 10.7	

TA	DT	Tr.	No.	
10	DL	i Est	140	0

LENGTH OF STAY IN HOSPITAL. BY PATIENT TYPE

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

Newborn infants and polio and orthopaedic patients are not included in above.

The average length of stay for patients having both standard ward care and special hospital services appears higher at 8.1 days than the average for those having standard ward care only. This is not a true comparison since a higher proportion of the special hospital services recipients were hospitalized in Group A hospitals, which, as referral centers tend to have a longer average length of stay than the smaller rural hospitals. As the coverage for special hospital services becomes more widespread throughout the province, the comparison of these averages will have more meaning.

Expenditures of the Provincial Department of Public Health for active treatment care in general hospitals is illustrated in the following diagram for a period of four years. The term "per diem" refers to the 70 cent per diem grant paid to hospitals on behalf of hospitalized residents and persons who qualify under the Provincial-Municipal Hospitalization Programme.

"Standard Ward" refers to the Provincial-Municipal Hospitalization Plan for standard ward care which came into effect in June, 1950. In July, 1953 this plan was expanded to cover special hospital services as well.



Diagram 3



Diagram 4



Diagram 5

The average length of stay in hospital from time of admission to discharge, is shown by age-group of the patients in Table 4. The same information is presented in graphical form in diagram 6.

Age Group	Patients Discharged or Deceased	Patients still in Hospital at the end of year	Average length of Stay
0- 4 5- 9 0-19 0-29 0-39 0-44 5-49 0-54 5-59 0-64 5-69 0-74 5- and Over ot Stated	$19.963 \\13.996 \\20.246 \\44.210 \\29.881 \\9.487 \\8.546 \\8.032 \\6.774 \\7.297 \\7.841 \\7.411 \\9.318 \\154$	$\begin{array}{r} 388\\ 206\\ 343\\ 720\\ 526\\ 178\\ 166\\ 202\\ 165\\ 232\\ 246\\ 297\\ 408\\ 1\end{array}$	$\begin{array}{c} 7.1 \\ 6.1 \\ 7.2 \\ 7.0 \\ 7.4 \\ 8.3 \\ 8.9 \\ 9.7 \\ 11.1 \\ 12.5 \\ 13.5 \\ 15.3 \\ 16.8 \\ 7.6 \end{array}$
Total	193,156	4,078	8.7

TABLE No. 4 AVERAGE LENGTH OF STAY IN HOSPITAL BY AGE GROUP OF PATIENTS DISCHARGED OR DECEASED (excluding D.V.A. and Newborn)



Diagram 6

Alberta Approved Hospitals

An "Approved Hospital" is an active treatment public hospital which is receiving a per diem allowance for all residents hospitalized therein. The term does no include chronic hospitals, mental hospitals, tuberculosis sanatoria, private hospitals, or nursing homes. The statistics in this section pertain to approved hospitals only.

At December 31st, 1953, there were 100 approved hospitals operating in the Province, divided as follows:

Municipal Municipally Owned and Community Denominational Industrial Service Group Provincial	1953 51 7 37 2 2 1	1952 51 6 37 2 2 1
terraria persina de activa pera apara	100	99

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 and therefore is not counted separately. The community hospital at Coaldale became an approved hospital effective January 1st, 1953.

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

Table 5—Bed Capacity, bed complement, and movement of patients.

Table 6—Patient days, average stay in hospital and occupancy.

Table 7—Staff.

Table 8-Operating expenditure.

Table 9-Revenue for operating purposes.

Table 10-Distribution of hospital operating expenditure.

Table 11-Grants paid directly to hospitals.

For convenient reference the information in the above tables is herewith presented in summary form, together with corresponding entries for 1952 for comparative purposes.



ACTIVE TREATMENT HOSPITAL BEDS

	ACTIVE TREATMEN		1953 Complement	ant Cana	1952
		100 m 100 m 100 m 100 m	and the second		city Complement
	eds and cribs assinets		6,810 1,241	5,75 1,02	
R	eds per thousand population (exclud-	7,454	8,051	6,77	4 7,324
	ing Bassinets) eds per thousand population (includ-	6.3	6.7	5.	9 6.3
	ing Bassinets)	7.4	7.9	6.	.9 7.5
Р	atients accommodated per bed per year (excluding newborn)	29.0		30.	2
	PATIEN	r DAYS		1953	1952
	dults and children			731,621 247,087	1,614,151 231,292
			-		
	Il Patients atient days (excluding newborn) per		1,3	978,708	1,845,443
	of population			1.7	1.6
	PATIENTS UNDER CAR	E DUR	ING THE		
				1953	1952
A	dults and children Average stay			98,847 8.8	186,025 9.0
N	ewborn			30,620	28,164
т	Average stayotal		2	8.7 39,467	8.9 214,189
	Average stav			8.7	8.9
%	verage in hospital daily of population in hospital daily	and a second second		5,421 0.53	5,042 0.51
24	of population admitted per year (ex births)			19.1	18.6
	BIR	THS			
		13.1.1		1953	1952 🝚
	ive births in approved hospitals till births			30,075 447	27,650 367
	ercentage of births in approved hos total births in Province	pital to		96.0%	95.0%
				100	ner a la
	STAFF—FULL TIM	E AND	PART TIM		1050
T	otal Staff			1953 7.544	1952 6,443
	urses:			1,044	0,440
	Graduate Student			1,562 1,253	1,298 1,182
N	furses Aides:			1,200	1,102
	Certified			479.00	412
				475	
0	Trainee			475 25 152	65
In	Trainee Inderlies Internes			25 152 111	65 116 99
In	Trainee Inderlies Internes alaried Doctors			25 152 111 43	65 116 99 31
II ST	Trainee rrderlies nternes alaried Doctors echnicians			25 152 111 43 244	65 116 99 31 177
ISTD	Trainee Inderlies Internes alaried Doctors			25 152 111 43	65 116 99 31
HSTD	Trainee rderlies tternes alaried Doctors echnicians ietitians			25 152 111 43 244 74	65 116 99 31 177 40 - 3,023
II ST DA	Trainee rderlies nternes alaried Doctors echnicians pietitians II Others FINAN	NCIAL	1953	25 152 111 43 244 74 3,605	65 116 99 31 177 40 3,023 1952
II STDA	Trainee rderlies iternes alaried Doctors echnicians itetitians ill Others FINAN otal revenue for operating purposes	ICIAL	1953 \$21,471,679	25 152 111 43 244 74 3,605	65 116 99 31 177 40 3,023 1952 517,340,006.97
LI STDA TT	Trainee rderlies hternes alaried Doctors echnicians hetitians ll Others FINAN otal revenue for operating purposes otal operating expenditures	ICIAL	1953 \$21,471,679 20,946,569	25 152 111 43 244 74 3,605	65 116 99 31 177 40 3,023 1952
LISTDA TTRE	Trainee rderlies ternes alaried Doctors echnicians bietitians ll Others FINAN Total revenue for operating purposes otal operating expenditures tevenue per patient per day expenditure per patient per day	ICIAL	1953 \$21,471,679 20,946,569 11 11	25 152 111 244 74 3,605 9.90 \$ 0.04 1.84	65 116 99 31 177 40 3,023 1952 517,340,006.97 17,188,076.16 10.29 10.20
LISTDA TTRES	Trainee rderlies hternes alaried Doctors echnicians letitians li Others finan finan otal revenue for operating purposes otal operating expenditures levenue per patient per day expenditure per patient per day alaries and wages	ICIAL	1953 \$21,471,679 20,946,569 11 11	25 152 111 244 74 3,605 0.90 0.04 1.84 1.55 64.5%	65 116 99 31 177 40 3,023 1952 17,340,006.97 17,188,076.16 10.29 10.20 52.6%
LISTDA TTRESS	Trainee rderlies hternes alaried Doctors echnicians ietitians ill Others otal revenue for operating purposes otal operating expenditures levenue per patient per day expenditure per patient per day alaries and wages upplies	ICIAL	1953 \$21,471,679 20,946,569 11 11	25 152 111 43 244 74 3,605 .05 .04 .84 .55 54.5% 28.4%	65 116 99 31 177 40 3,023 1952 17,340,006.97 17,188,076.16 10.29 10.20 52.6% 31.1%
LISTDA TTRESSP	Trainee rderlies hternes alaried Doctors echnicians heititians lil Others otal revenue for operating purposes otal operating expenditures tevenue per patient per day expenditure per patient per day alaries and wages upplies urchased services	ICIAL	1953 \$21,471,679 20,946,569 11 11	25 152 111 43 244 74 3,605 9.90 \$ 0.04 1.84 1.55 \$4.5% 28.4% 3.0%	$\begin{array}{r} 65\\116\\99\\31\\177\\40\\3,023\end{array}$
HSTDA TTRESSPHD	Trainee rrderlies rdernes alaried Doctors echnicians ietitians iII Others FINAN otal revenue for operating purposes otal operating expenditures ievenue per patient per day alaries and wages upplies urchased services isurance epereclation	ICIAL	1953 \$21,471,679 20,946,569 11 11	25 152 111 244 74 3,605 .04 .04 1.84 1.55 54.5% 28.4% 3.0% 0.8% 4.4%	$\begin{array}{r} 65\\116\\99\\31\\177\\40\\3,023\end{array}$ 1952 1952 17,340,006.97 17,188,076.16 10.29 10.20 52.6% 31.1% 3.1% 3.1% 0.9% 4.4%
II STDA TTRESSPIDR	Trainee rrderlies nternes alaried Doctors echnicians ietitians ietitians ill Others FINAN otal revenue for operating purposes otal operating expenditures tevenue per patient per day alaries and wages upplies urchased services nsurance teperciation tepairs and Replacements	ICIAL	1953 \$21,471,679 20,946,569 11 11	25 152 111 43 244 74 3,605 .04 .04 .84 .55 .28.4% 3.0% 0.8% 4.4% 3.4%	$\begin{array}{r} 65\\ 116\\ 99\\ 31\\ 177\\ 40\\ 3,023\\ \end{array}$ $\begin{array}{r} 1952\\ 17.340,006.97\\ 17.188,076.16\\ 10.29\\ 10.20\\ 52.6\%\\ 31.1\%\\ 3.1\%\\ 0.9\%\\ 4.4\%\\ 3.7\%\\ \end{array}$
II STDA TTRESSPIDRI	Trainee rrderlies rdernes alaried Doctors echnicians ietitians iII Others FINAN otal revenue for operating purposes otal operating expenditures ievenue per patient per day alaries and wages upplies urchased services isurance epereclation	ICIAL	1953 \$21,471,679 20,946,569 11 11	25 152 111 244 74 3,605 .04 .04 1.84 1.55 54.5% 28.4% 3.0% 0.8% 4.4%	$\begin{array}{r} 65\\116\\99\\31\\177\\40\\3,023\end{array}$

DEPARTMENT OF PUBLIC HEALTH

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		Deatus	ldren ults and		16 25 13 23	12153.46	15 479 282 1	45 26 26 8 26 8	04000 04000	456 16 33 456
	Discharges		Apotu	New	223 81 82 209 111	38 83 67 148	232 2,938 2,537 195	385 34 206 27 96	25 194 114 69	80 62 119 358
	1-1-14	DISCUS	ldren ults and		1,781 819 787 1,612 466	$^{+22}_{-530}_{-533}_{-533}_{-1,342}$	$\substack{1,676\\322\\14,195\\12,187\\216}$	$ \begin{array}{r} 3.425 \\ 233 \\ 233 \\ 1.135 \\ 304 \\ 1.121 \\ \end{array} $	1,218 527 578 477	546 788 379 803 2,219
000		stons	nborn	Vev	224 82 82 210 113	39 82 82 67 153	232 3,003 2,593 203	399 209 209 36	26 93 119 71	81 61 25 126 364
10, 12	1-64	Admissions	ldren ilts and		1,794 850 1,629 805 476	435 578 1.733 527 1,348	$1,680 \\ 321 \\ 321 \\ 14,754 \\ 12,495 \\ 223 \\ 223 \\$	3,501 237 1,160 312 1,130	255 1,246 534 539 481	548 798 381 830 2,254
CINTEN IS'	5		Ie	toT	2,032 947 1,872 905 600	478 680 1,980 609 1,533	$1,951 \\ 446 \\ 18,100 \\ 15,380 \\ 15,380 \\ 428 \\$	3,952 274 1,389 350 1,245	284 1,456 643 712 566	638 881 881 970 2,682
OF Fr	ng Year		[Ef0T	F.	1.149 488 1.070 341	280 377 377 353 353 857	$1,125 \\ 196 \\ 10,897 \\ 9,414 \\ 325$	2,291 131 871 179 768	143 894 824 386 309	386 465 256 552 1,516
	Care During			M.	883 459 802 802 259 259	198 303 861 256 676	826 7,203 5,966 103	1,661 143 518 171 477	141 562 219 326 257	252 416 155 155 1166
I NITINITA A O			Newbor	F.	116 40 52 52	18 34 28 66 66	127 1,484 1,271 101	217 17 118 108 48	11 97 28 28	31 31 191
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AND	Patients	u	Childre	F.	1,033 448 970 438 289	262 343 343 343 791	998 9,413 8,143 224	2,074 114 753 169 720	132 797 377 322 281	336 434 239 1,325 1,325
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11		Bed	ទា	Bed	26422	16 21 24 24	64 156 328 328 25	98 212 242 25	0.01 00 11 CO	18 114 65 65
		Hospitals			Athabasca, Municipa, Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass, Mun. Bomyville, Kath. H. Prittie Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General 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 Coaldale, Community Cold Lake, John Nell Consort, Municipal	Coronation, Municipal Daysland, Providence Desmarals, St. Martin's Didsbury, Municipal Drumheller, Municipal

TABLE No. 5-HOSPITAL BEDS AND MOVEMENT OF PATIENTS, 1953

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1.128 10.727 10.727 78 12.118	14,970 873 13,063 1,481 1,481	1,210 1,808 200 387 1,109	605 449 573 892 892 476	2,638 245 1,065 831 2,134	1,574 990 380 690 1,072	1,262 1,788 2,477 3,313 111	6,484 1,430 1,571 516 526
119 126 1,335 2,481	3,576 1,670	237 173 34 55 156	13 13 13 13 13	369 56 150 322 322	273 160 33 91 115	228 264 171 437	912 226 65 93
1,133 131 10,916 89 12,323	15,171 914 13,404 1,525 1,525	1,232 1,826 208 397 1,131	613 455 585 585 895 895 895	2,682 241 1.078 846 2,147	1,597 1,020 388 697 697 1,095	1,271 1,830 2,492 3,373 111	6.584 1.433 1.580 523 531
$^{1,270}_{12,497}_{12,447}_{103}$	$19,180\\946\\15,458\\1,619\\240$	1,487 2,037 247 464 1,312	703 521 683 970 550	$ \begin{array}{c} 3.107 \\ 303 \\ 1.251 \\ 938 \\ 2.533 \end{array} $	$^{1,200}_{1,200}$ $^{428}_{1,228}$ 1,228	1,518 2,128 2,716 3,913 114	7.657 1.697 1.844 597 631
722 201 7,046 47 9,467	11,599 444 8,217 ailable 137	1,227 1,227 135 253 795	392 303 530 322 322	$1,752 \\ 174 \\ 683 \\ 539 \\ 1,436 \\ 1,436 \\$	1.163 648 226 370 773	883 1,281 1,281 2,246 61	4.424 1.012 1.082 351 336
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53 688 646 1,271	1,758	120 333 333 333 333 333 333 333 333 333 3	82284	170 331 332 161	136 136 59 59	104 116 206 206	415 1112 200 399
68 64 707 1.247	923	120 21 24 76	88488	204 25 39 39 39 171	139 79 22 58 58	125 155 84 242	518 115 127 56 56
669 6,400 8,196	9,841 444 7,436 ailable	687 1,142 122 220 712	352 377 377 506 506 294	1,582 143 618 618 501 1,275	1,027 563 215 323 714	779 1.165 1.493 2.040 61	4,009 896 970 331 297
480 4,744 4,329	5,699 5,699 6,318 N'tav 103	560 720 91 187 187	278 192 233 405 196	1,151 104 482 360 926	597 473 180 384 397	510 692 1,046 1,425 53	2,715 570 635 239 239
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Eckville, Municipal Edmonton, Beulah Home Edmonton, General (a) Pollo Edmonton, Misericordia	Edmonton, Royal Alexandra (a) Isolation Edmonton, University of Alberta (a) D.V.A. (b) Polio	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 (a) Isolation	Lethbridge, St. Michael's General Lloydminister, Lloydminister† McLennan, Sacred Heart Magrath, Municipal Manning, Battle River

DEPARTMENT OF PUBLIC HEALTH

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	ges	vborn	New	95 149 711 36	31 204 258 204 280 280 200	120 205 84 89 137	557 164 119 92 94	278 307 335 125 129	55 75 88 204 189
	Discharges	lits and dren		$ \begin{array}{c} 544 \\ 1,125 \\ 4,090 \\ 855 \\ 855 \\ \end{array} $	607 117 1,038 344 1,313	1,325 1,446 878 600 626	3,649 1,011 895 545 1,104	2.294 1.791 609 792	411 560 957 2,268 1,037
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		Įe	Tot	$ \begin{array}{c} 660 \\ 5.024 \\ 4 \\ 921 \\ 921 \end{array} $	655 1,306 1,306 1,553	1,499 1,710 1,000 703 792	4,345 1,213 1,059 655 1,249	2.631 2.400 2.189 764 951	$484\\668\\1,069\\2.550\\1,269$
ng Year	-		Ŀ.	374 675 2,846 1 498	368 89 754 210 853	842 974 571 571 519	2,559 731 575 364 715	1,473 1,342 1,292 493 574	306 350 610 768
Care During		fetoT	M.	286 631 2,178 423	287 61 552 189 700	657 736 429 276 276 273	1,786 482 484 291 534	1,158 1,058 897 271 377	178 318 459 1,026 501
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s Unde	u	Newbor	M.	54 91 387	14 115 114 27 108	68 67 68 68 68 68 68 68 68 68 68 68 68 68 68	230 230 234 235 235	154 174 166 61 62	28 50 106 100
Patients Under	u	Children	E.	326 611 2,494 1 474	349 73 658 189 756	781 858 527 386 441	2,270 644 510 323 671	1,1338 1,195 1,111 426 504	277 322 563 1,418 674
	put	stlubA	M.	$ \begin{array}{c} 232 \\ 540 \\ 1,791 \\ 3 \\ 409 \\ 409 \end{array} $	273 46 438 162 592	589 641 387 210 210	1,496 3399 425 237 479	1,004 884 731 210 315	150 268 415 920 401
	ement	Ic	Tot	11327 321 321	22 24 53	75 24 24 24	129 34 44 21 43	90 57 37 18	33 106 106
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	Bed (s	Bed	142 142 28	11 34 20 20	63 29 18 20 29 18	105 26 34 32 32 32	66 255 255 255 255 255 255 255 255 255 2	31 28 91 40
	city	Ie	Tot	19 28 11 30 30	19 22 46 22 46	322332	134 27 20 20 31	53 26454 26454 2653	37 35 99 41
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	Bed	S	Bed	15 20 118 26	13 31 37 37	64 48 26 11 18	104 35 35 27	37 37 25 21 21	31 255 37
		Hospitais		Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Medicine Hat, Isolation Mundare, General	Myrnam, Municipal Nordegg, General Olds, Municipal Oyen, Municipal Peace River, Municipal	Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's Raymond, Municipal	Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougall Spirit River, Holy Cross	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

TABLE No. 5-HOSPITAL BEDS AND MOVEMENT OF PATIENTS, 1953-Continued

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93 71 244 306	364 67	30,076	I	30,076	
1,216 433 $1,127$ $1,343$ $2,996$	2,278	194,768	2,109	192,659	
$1,335\\521\\1,273\\1,612\\3,366$	2,682 1,010	229,467	2,408	227,059	
767 300 716 914 1,880	1,470	132,428	\$	132,048	
568 557 557 698 1,486	1,212 422	\$ \$5,420	* 409	95,011 1	alula -
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35 31 48 75	13	6,371	519	5,852	an al
Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata	Wetaskiwin, Community	Grand Total	Less D.V.A., Orthopaedic, Polio, Division Cases	NET TOTAL	*Daar not include D.V.A. Division of University, Boundar for

*Does not include D.V.A. Division of University Hospital, for which information was not available. ‡Lloydminister Hospital is located in Saskatchewan.

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	ents Dis- ased	Total	10.1 6.5 6.8 6.0	8.88 1.12 1.15 1.88 1.88 1.88 1.88 1.88 1.88 1.88	140.0 9.1 8.5 9.3	8998 8998 8998 8998 8998 8998 8998 899	7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5
	tay of Patients ed or Deceased	Newborn	7.7 6.6 7.7 7.7 7.7 7.7	1-801-1-80 8110018	6.9 7.8 8.0 9.4	8.7 447 8.9 448 8.9 9 448	8844 844 941 941 941 941	10.3 9.0 7.5 7.5 7.5 7.5 7.5
PATIENT DAYS	Average Stay charged	Adults and Children	4.3 6.4 6.8 6.8 6.3	2.2 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	140.0 140.0 8.7 9.2	6.6 6.6 791 379 379 379 379 379 379 379 379 379 379	7.5.8 2.0.6 1.0 2.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	8.8 7.1 10.8 7.5 9.6
	ents Dis- ased	Total	9,431 9,287 9,287 11,949 6,126 3,569	2,719 5,474 14,388 4,242 11,794	12,807 45,228 161,367 129,321 3,836	26,449 1,799 8,583 2,725 6,820	2.091 12.323 3.667 3.667 4,586	5,669 6,226 4,313 7,203 24,435
	ays of Patients ed or Deceased	Newborn	1,732 545 1,542 1,542 551	298 1,555 1,555 1,310	1,610 23,353 20,742 1,837	3,414 1,230 1,551 817 817	1,576 1,576 779 652	824 557 196 1,063 2,651
	Patient Days charged	Adults and Children	7,699 8,742 10,407 5,484 3,018	2,421 4,749 12,833 3,713 10,484	11.197 45,228 138,014 108,579 1,999	23,035 1,569 7,032 2,465 6,003	$\begin{array}{c} 1.884 \\ 10.747 \\ 2.976 \\ 2.888 \\ 3.934 \end{array}$	4,845 5,669 4,117 6,140 21,784
	ng 1953	Total	9,405 11,204 11,678 6,118 3,471	2,542 5,377 14,267 4,123 11,820	$12,457\\45,895\\163,887\\130,454\\3,967$	26.479 1.786 8.418 2.699 6.758	$ \begin{array}{c} 2.153 \\ 12.305 \\ 3.736 \\ 3.684 \\ 4.689 \\ 4.689 \end{array} $	5,751 6,229 3,238 7,393 24,282
	Days During 1953	Newborn	1,728 545 1,531 638 552	302 1,555 1,555 1,396	1,692 23,587 20,650 1,914	3.438 3.438 1.540 819	1,560 761 761 786 658	830 550 195 2,670
	Patient	Adults and Children	7,677 10,659 10,147 5,480 2,919	2.240 4.666 12.712 3.625 10.424	$10.765\\45.895\\140.300\\109.804\\2.053$	23,041 1,556 6,878 2,445 5,939	1.937 10.745 2.975 2.898 4.031	4.921 5.679 3.043 6.294 21.612
	Homitals		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. 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 Coaldale Community Cold Lake, John Neil Consort, Municipal	Coronation, Municipal Daysland, Providence Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal

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		AN	NUAL RI	EPORT, 19)53		93
61.5 83.7 74.7 95.4	71.8	60.9 86.3 43.3 69.5 69.5	94.2 33.8 89.9 91.9	77.9 74.0 97.5 126.0	70.4 82.7 67.3 53.7 67.6	91.8 73.9 52.2 110.1	91.7 N.A. 105.0 58.7 58.7
611 859 814 81	98.5 98.5 98.5	7.1 6.8 9.6 7.3	16.5 5.7 5.9	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7 8 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0	612 7.5 10.2 13.4 13.4	880141 80041
122 1822 1822 100	9.5	9.8 9.8 9.8 9.8 9.8	7.6 8.6 9.1 10.1 9.1	7.1 8.1 9.9 7.9	7.4 7.2 9.9 9.9	7.0 8.7 9.1	8 8 8 8 9 9 19 9 9 9 9 9 19 9 9 9 9 9 9
1399 889 8344 8344 8344 8344 8344 8344 83	9.6 11.7 25.9 88.5	8.4 9.6 7.9 9.6 7 2 7 2 5 7	8.0 1746 555 555	872 128 148 87 87 87 87 87 87 87 87 87 87 87 87 87	7.2 8.1 7.0 7.0	6.1 7.3 6.9 13.4 13.4	8.6 7.1 8.6 7.1 8.6
7,620 4,096 108,179 4,475 119,028	174,525 10,596 178,480 39,400 17,333	10.301 13.676 2.297 4.228 9.301	5.537 3.938 10.727 5.503 3.182	24,598 1,728 11,243 7,765 21,380	13.529 9.456 3.555 7.565 7.565	9.292 15.655 18.668 39.040 1.528	64.144 15.776 13.01 4.369 3.201
867 2,314 10,745 17,365	29,142	2,237 1,460 332 528 1,239	545 509 647 539 539	2,611 455 1,359 741 2,567	2.015 1.180 276 887 1.101	1,568 2,289 1,476 4,030	7,729 2,030 1,939 578 624
6,753 1,782 97,434 4,475 101,663	145,383 10,596 162,643 39,400 17,333	8,064 12,216 1,965 3,700 8,062	$\begin{array}{c} 4,992\\ 3,429\\ 10,080\\ 2,643\end{array}$	21,987 1,273 9,884 7,024 18,813	11.514 8.276 3.279 4.863 6.464	7.724 13.366 17.192 35.010 1.528	56.415 13.746 11.162 3.791 2.577
7.370 4.126 6.107 119.767	170,672 11,680 183,175 43,231 19,828	10,485 13,816 2,554 9,379 9,379	5,386 3,970 10,798 5,495 3,219	23,848 1,754 10,821 7,848 21,389	13,293 9,623 3,469 5,926 7,779	9.294 15.789 19.525 37,052 1,497	65.049 15.885 13.009 4.440 3.203
2.294 11,050 17,430	15,910	2,263 1,465 332 548 1,261	573 520 574 536	2,693 455 1,359 2,536	1,991 1,171 276 888 1,121	1,585 2,303 1,467 3,975	7,867 1,951 1,951 1,951 577 631
6.511 1.832 96.960 6.107 102,337	141,577 11,680 167,265 43,231 19,828	8,222 12,351 2,222 3,642 8,118	4,813 3,450 10,149 4,921 2,683	21,155 1,299 9,462 7,116 18,853	11,302 8,452 3,193 5,038 6,658	7,709 13,486 18,088 33,077 1,497	57.182 13.934 11,111 3.863 2.572
Eckville, Municipal Edmonton, Beulah Home Edmonton, General (a) Polio Edmonton, Misericordia	Edmonton, Royal Alexandra (a) Isolation Edmonton, University of Alberta (a) D.V.A. (b) Pollo	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 (a) Hythe Sub-Hospital Hanna, Municipal Hardisty, St. Anne's High Prairie, Providence	High River, Municipal Innistali, Municipal Islay, Municipal Jasper, Seton Killam, General	Lac la Biche, St. Catherine's Lacombe, Municipal Lamont, Archer Memorial Lethbridge, Galt (a) Isolation	Lethbridge, St. Michael's General Lloydminister, Lloydminister ^a McLennan, Sacred Heart Magrath, Municipal Manning, Battle River

TABLE No. 6—PATIENT DAYS AND OCCUPANCY, 1953—Continued		Occu-		6.7 67.5 6.6 97.5 8.1 80.4 8.0 0.8 6.7 59.2	5.7 70.0 44.9 9.6 8.5 82.3 6.9 82.3 9.6 87.7	6.8 43.5 6.5 55.0 6.1 67.8 6.0 65.4 59.7	67.1 16.1 16.1 16.1 16.1 16.1 16.1 16.1	7.2 116.9 85.9 88.7 66.6 85.2 61.1 39.1 65.9 74.1	9.0 32.6 6.5 67.1 8.6 64.1 7.7 59.7
		ents Dis- ased	Total	ක ක ක ක ක	104000	001-013	FFFF1000	1-0000	
		Stay of Patients rged or Deceased	Newborn	7.3 8.5 8.6	10.3 7.7 7.7 7.7 10.4	8.8.4.8 8.4.8.6 4.8.4	8.8 6.8 6.8 9.1	10.3 7.8 8.2 8.2 8.2 7.0	104 719 819 819 819 819 819 819 819 810
ed		Average Stay charged	Adults and Children	6.0 8.0 6.0 6.0 6.0 6.0 6.0		6.6 5.7.1 5.8.5 7.5	6.9 7.4 8.0 8.0	6.9 6.7 6.7 6.7 6.8 7 6.8	8.9 10.6 6.4 8.7 7.7
	rs St	ents Dis- ased	Total	4,352 8,489 40,014 32 6,056	3.677 710 10,900 2.722 14,708	9.884 10.947 6.931 4.187 4.614	30,543 8,689 7,557 9,869	18,583 20,948 14,325 4,592 6,401	4,291 6,714 6,857 6,857 21,593 9,681
	PATIENT DAYS	ys of Patients ed or Deceased	Newborn	1,507 6,187 310	338 224 1,634 2,118	1,018 1,617 538 7538 7538 894	5,043 1,123 1,020 635 882	2,886 2,474 2,802 1,040 905	574 609 1.921 1.523
OCCUPAN	PAT	Patient Days charged	Adults and Children	3,626 6,982 33,827 5,746	3,339 9,266 2,351 12,590	8,866 9,330 6,333 3,333 3,720	25,500 7,566 6,537 8,987	$15,697 \\ 18,474 \\ 11,523 \\ 3,552 \\ 5,496$	3.717 6.105 6.128 19,672 8,158
AND		g 1953	Total	4,430 8,643 41,068 5,935	3,638 720 2,744 13,942	11,194 11,259 6,973 4,102 4,809	30,431 8,760 7,569 3,339 10,125	18,652 20,613 14,236 6,586	$\begin{array}{c} 4.285\\ 6.499\\ 6.842\\ 21.800\\ 9.564\end{array}$
ENT DAY		Patient Days During 1953	Newborn	734 1,525 6,420 319	317 229 1.617 2.099	1,031 1,619 537 761 889	4.949 1.124 1.016 629 891	2,860 2,485 2,485 1,002 903	591 620 1,508 1,508
. 6-PATI		Patient	Adults and Children	$ \begin{array}{c} 3,696\\ 7,118\\ 34,648\\ 5,616\\ 5,616 \end{array} $	3,321 9,308 2,373 11,843	10,163 9,640 6,436 3,341 3,321	25,482 7,636 6,553 9,234	15.792 18,128 11,519 3,573 5,683	3,694 5,879 6,127 19,880 8,056
TABLE No		Hoenttale	annagene	Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Medicine Hat, Isolation Mundare, General	Myrnam, Municipal Nordegg, General Olds, Municipal Oyen, Municipal Peace River, Municipal	Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's Raymond, Municipal	Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougali 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

ABLE No. 6-PATIENT DAYS AND OCCUPANCY, 1953-Contir

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7.0 64.5 8.1 65.8 6.3 69.6 8.8 68.1 7.4 80.7 6.8 118.5 6.2 118.5	8.7	50.8	8.3
9.4 9.7 9.4 9.4 7.6 8.7	8.2	-	8.2
6.8 7.2 6.7 6.0 6.0 6.1	8.8	50.8	8.4
9,211 4,130 7,960 13,884 24,471 17,977 6,153	1,961,963	106,436	1,855,527
887 701 1,095 1,978 2,873 2,873 2,873 2,756	246,158		246,158
8,324 3,429 6,865 11,906 21,598 15,231 5,595	1,715,805	106,436	1,609,369
9,133 4,063 7,805 13,935 24,970 18,269 6,197	1,978,708	115,061	1,863,647
887 703 1,1110 2,009 2,872 2,872 2,872 2,872 2,872 573	247,087		247,087
8,246 3,360 6,695 6,695 11,926 22,098 15,474 5,624	1,731,621	115,061	1,616,560
Viking, Municipal Vina, Our Lady's Vulean, Municipal Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Grand Total	Less D.V.A., Orthopaedic and Polio Division Cases	NET TOTAL

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	Hospital	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crows 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 Cammore, Cammore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	Cereal, Municipal Claresholm, Municipal Coaldale, Community Cold Lake, John Neil Consort, Municipal	Coronation, Municipal Daysland, Providence Desmarais, St. Martins Didsbury, Municipal Drumheller, Municipal

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	Hospital	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 Vermilion, Municipal Viking, Municipal Vilina, Our Lady's Vulcan, Municipal	Wainwright, Muncipal Westlock, Immaculata Wetastiwin, Community Willingdon, General	TOTAL
-	Total	33 33 33 33 36 8 8 8 8 8 8 8 8 8 8 8 8 8	15 16 102 20 20	12 53 61 36	19 14 23 23	141 23 21 21 21 21	34 66 10	7.544
Nurses	Graduate	12 1 12 12	ດາດອີດເບ	13 16 2 2 2	0101000	19 33 7 7	11 20 4	1.562
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su	Technicia				1111			43 244
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5	All Others	202 20 117 117	10 57 15	9 35 35 14	L12 42	17 11 11 14 14	22 8 8 8 8 9	3.605
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	Nurses School School		11111			• • • • • •	1111	N.A.
	Graduated During th Year		11111	11111		9	1111	394

Not Reported: Medicine Hat Isolation; Nordegg, General.

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Hospitals	Salaries and Wages	Supplies	Purchased Services	Insurance	Deprecia- tion	Repairs and Replace- ments	Interest and Exchange	Miscel- laneous	Total Expenditure
Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	\$ 31,788.79 66,273.04 60,817.89 24,072.51 14,328.84	\$ 21,150.02 42,878.23 22,162.57 17,663.89 11,354.14	\$ 4,626.25 4,112.57 3,166.23 4,938.75 2,608.62	\$ 1,046.50 1,818.80 603.86 234.89 349.42	\$ 8,144.90 3,207.20 1,492.15 2,528.51 645.20	\$ 1,068.62 7,136.17 3,049.69 2,550.91 1,277.78	\$ 13,876.63 116.26 4,037.15 233.54	\$ 9,911.13 507.38 609.63 979.94	\$ 91,612.84 126.638.50 95,836.92 52,891.86 31,777.48
Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass Municipal Bonnyville, Katherine H. Prittie Bonnyville, St. Louis	14,777,34 16,391,12 76,520,48 12,044,68 45,494,56	9,337,04 10,206,66 43,226,67 10,741,86 18,021,30	2,044.23 2,138.65 2,937.57 1,554.41 1,707.61	298.33 578.09 989.05 17.00	6,510.87 6,000.00 20,627.50 4,156.43	1,102.52 1,142.13 3,193.93 3,507.69 2,147.80	2,315,43 1,495,56 9,305,35 7,38 7,90	62.60 1,614.86 3,506.17 695.51 739.54	36,448,36 39,567.07 160,306,72 28,551.53 72,292.14
Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgary, Holy Cross Calgary, Salvation Army Grace	66.867.00 286.761.12 1,635.835.61 870.336.83 14,772.40	44.230.41 73.347.69 581.839.16 422.087.17 10.910.27	6,493.78 7,455.71 33,641.40 39,512.32 780.60	1,005.26 5,363.13 3,820.98 8,251.93 317.75	9,750.00 80,332.95 920,48	8,526.95 3,690.09 51,732.32 31,084.82 1,326.49	7,891.06 211,324.90 7,166.96	3,299.29 60,000.05 43,154.88 909.17	$\begin{array}{c} 144.764.46\\ 379.917.03\\ 2.578.194.42\\ 1.501.927.86\\ 29.937.16\end{array}$
Camrose, St. Mary's Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary Cereal, Municipal	163.243.32 39.068.55 25.058.52 24.329.34 10.586.10	58,408,53 33,881,07 11,050,26 18,980,24 10,641,87	8,768.97 3,225.35 2,021.00 2,052.98 1,415.08	1.625.39 348.15 407.38 110.00	20,701.34 3,040.54 4,500.00 2,083.63		12,672,39 198,21 12,47	$\begin{array}{c} 1.954.62\\ 9.085.53\\ 118.10\\ 1.244.16\\ 2.355.00\end{array}$	280,838,40 92,393.04 47,013.30 54,106.17 28,118.55
Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal Daysland, Providence	50.589.65 14.864.50 18.863.26 19.857.45 30.522.96	$\begin{array}{c} 27,686.47\\ 10,396.19\\ 14,848.05\\ 15,160.69\\ 16,058.05\\ 16,058.05\end{array}$	4,511.09 1,389.81 4,561.84 2,140.16 2,074.55	503.42 50.00 207.50 217.13 686.44	5,499.29 781.12 7,100.00 2,472.65 5,472.92	2.730.17 2.124.78 1.919.55 5.432.91 3.177.44	$1,100.00\\6.20\\1,852.55\\2.15\\20.77$	162.50 238.55 238.02 2,308.02 356.63	92,782,59 29,851,15 49,377,75 47,591,16 58,369,76
Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal Edmonton, General	5,340.00 35,631.10 128,966.94 28,2966.94 741,993.43	5,479.65 29,377.17 81,271.33 16,793.33 356,686.58	735.00 2.144.45 9.545.87 5.473.82 24.842.77	$\begin{array}{c} 46.15\\ 765.44\\ 1.544.48\\ 724.98\\ 14,989.60\end{array}$	7,078.23 5,219.18 8,607.55 97,173.39	1,588.00 2,440.32 12,807.73 1,841.19 36,553.21	3,005.85 3,603.50 2,702.57 122,422.34	231.15 1.154.29 8,920.42 8,920.42 20,749.54	$\begin{array}{c} 13,819.95\\ 81,596.85\\ 81,596.85\\ 251,879.91\\ 64,895.74\\ 1,415,410.86\end{array}$
Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, University of Alberta Edson, St. John's Elk Point, Municipal	698,814.44 1,212,003.85 1,674,154.59 47,878.58 40,039.80	343,130-33 624,561.36 836,758.74 16,480.80 32,360.28	36,477.14 28,823.25 53,670.17 2,045.88 5,041.46	6,795.65 53,975.42 13,349.51 533.27 680.35	62,832.00 45,578.35 59,217.53 5,315,15 14,479.83	59,428,49 103,028,09 64,688,94 5,411,84 4,418,91	15,839.24 62,775.04 118,305.26 51.65 6,854.69	14,016.69 15,458.60 26,383.76 309.96 1,639.16	1,237,334.08 2,146,203.96 2,846,528.50 78,027.13 105,514.48

TABLE No. 8-OPERATING EXPENDITURES, 1953.

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DEPARTMENT OF PUBLIC HEALTH

	Total Expenditure	\$ 32,282.83 44,488.16 76,246.03 70,317.62 47,797.36	53,491.29 40,978.60 39,339.98 198,121.47 110,855.85	62,794.26 131,727.81 115,929.10 91,627.06 31,279.16	49,058.70 64,254.16 55,583.90 148,704.26 204,290.59	382,216.97 601,908,75 93,723,76 54,136,48 26,359,21	40.822.27 102.926.72 387.801.65 73.401.17 54.243.21	96.941.45 34.018.91 125.348.91 79.946.01 128.763.99
	Miscel- laneous	\$ 1,569.40 700.61 4.022.22 1.165.88 1,509.94	277.65 113.25 971.05 11.843.95 368.18	$\begin{array}{c} 472.84\\ 1.190.03\\ 1.032.19\\ 3.696.90\\ 2.757.02\end{array}$	346.50 321.00 1,379.40 1,081.70 4,451.22	1,619.05 2,903.11 1,314.27 298.37 543.26	3,054.50 4,548.89 6,291.65 5,522.64 773.06	489.57 3,627.50 3,221.10 512.42 512.42
	Interest and Exchange	\$ 1.947.58 85.18 2.443.59 560.00 2.970.99	$\begin{array}{c} 4.012.77\\ 2.819.49\\ 3.344.35\\ 2.268.88\\ 3.819.49\end{array}$	$\begin{array}{c} 1.866.58\\ 2.986.67\\ 2.986.67\\ 3.15\end{array}$	$\begin{array}{c} 813.58\\ 988.57\\ 1.05\\ 3.854.39\\ 2.040.46\end{array}$	28,061.14 28,061.14 3,528.35 19.95	4.176.36 920.57 6.20	3,666.21 621.80 2,521.62 8,665.10
ontinued	Repairs and Replace- ments	\$ 854.33 3,133.51 3,484.10 5,915.40 163.87	2,138.11 3,225.04 1,862.84 1,573.38 6.670.19	2,764,58 6,273,16 6,348,54 11,591,92 1,903,27	2.123.77 2.210.71 1.022.40 1.724.08	13,082,04 8,034,35 1,443,17 700,73 309,04	$\begin{array}{c} 1.408.85\\ 4.880.31\\ 5.589.12\\ 5.106.37\\ 2.429.40\end{array}$	4,695.82 1,816.98 3,722.36 6,948.97 4,524.63
EXPENDITURES, 1953-Continued	Deprecia- tion	\$ 3,943.52 7.172.23 2,957.58 6,033.00	$\begin{array}{c} 4.697.44\\ 1.639.83\\ 2.574.65\\ 16.889.53\\ 3.818.52\end{array}$	4,711.44 5,608.51 10,028.15 6,274.10 1,134.25	4,073,72 4,620,34 1,699,05 11,485,90 4,067,67	$\begin{array}{c} 21.49\\ 19,901.23\\ 2.666.60\\ 5.220.24\\ 2.303.08\end{array}$	1,975.70 7,979.81 2,098.68 3,021.20	$\begin{array}{c} 5.178.49\\ 1.744.11\\ 9.500.00\\ 10.900.00\\ 18.041.59\end{array}$
KPENDITUR	Insurance	\$ 282.78 800.72 593.00 457.80 55.10	329.96 245.00 1,646.98 1,765.74	772.18 755.69 961.94 196.85	870.00 341.00 1,477.90	2.988.02 2.335.32 357.11 357.11 148.77	$\begin{array}{c} 453.14\\912.60\\1.870.54\\84.70\\198.50\end{array}$	554.37 298.74 1.113.33 275.30 1.597.66
OPERATING EN	Purchased Services	\$ 1,060.74 2,571.06 4,050.42 341.30 1,808.55	42.51 1.043.47 3,018.86 13,782.62 5,685.72	2,059,19 4,443,21 4,758,28 3,875,89 1,698,26	1,182.94 1,645.63 3,050.33 11,530.24 7,496.72	12.271.62 16,633.24 3,354.75 4,155.92 1,437.34	2,336,94 5,017,70 31,955,23 825,14 4,692,03	8,910.59 2,591.66 5,337.38 1,877.55 7,177.68
	Supplies	\$ 8,875.33 16,340.65 25,631.81 24,869.39 9,911.36	$\begin{array}{c} 17,968.33\\ 9,988.56\\ 10,908.36\\ 63,849.70\\ 37,230.31\\ \end{array}$	19,047.48 44,659.61 33,707.55 29,903.75 7,872.54	$\begin{array}{c} 10,581.94\\ 20,330.01\\ 18,445.54\\ 51,810.12\\ 77,078.85\end{array}$	162,100.12 178,051.25 128,051.25 42,843.21 14,585.33 8,771.27	$\begin{array}{c} 13.101.54\\ 34.607.02\\ 113.948.30\\ 112.260.68\\ 15.891.69\end{array}$	31,730.25 9,810.70 38,487.87 18,486.29 29,782.23
TABLE No. 8-	Salaries and Wages	\$ 13.749.15 20.856.43 28.848.66 34.050.27 25.344.55	$\begin{array}{c} 24,354.48\\ 24,610.30\\ 16,515.93\\ 86,266.43\\ 51,497.70\\ \end{array}$	$\begin{array}{c} 31,099.97\\ 67,977.65\\ 56,107.65\\ 56,105.78\\ 35,747.44\\ 15,713.82\end{array}$	29,066.25 33,796.90 29,215.00 65,739.93 100,216.70	$\begin{array}{c} 189,300.23\\ 345,989.11\\ 345,989.11\\ 25,289.38\\ 25,289.35\\ 12,826.50\end{array}$	18,488.50 40,804.03 227,226.24 47,496.76 27,237.33	$\begin{array}{c} 41.716.15\\ 13.507.42\\ 61.445.25\\ 41.240.40\\ 58,462.68\end{array}$
	Hospitals	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 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	Olds, Municipal Oyen, Municipal Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal

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91,019.89 42,387,17 43,737,15 335,154,18 93,220,59	61,972.11 36,851.34 82,086.15 142,647.15 199,543.67	128,798.38 70,471.27 63,895.57 48,140.58 69,590.69	71,242.94 194,720.26 73,063.08 88,533.58 51,404.63	84,302.54 125,421.06 197,647.77 153,741.86 52,930.10	\$20,946,569.04
1,028.07 179.60 947.76 1,837.72 340.00	188.35 342.15 6.247.66 673.84 1,203.95	1,324.31 736.30 193.20 449.51 4,117.35	432.24 2.091.92 4.755.50 6.171.98 420.00	5,250.62 1,604.87 549.23 505.29 4,102.17	\$ 354,163.43
6,706.80 23.22 1,388.55 15,926.76 4,894.03	4,516.74 168.63 558.65 1,740.65 5,531.34	3,864.49 3,232.90 3,875.59 2,157.45 552.06	$\begin{array}{c} 3.736.02 \\ 3.094.21 \\ 5.506.75 \\ 38.75 \end{array}$	2,200.69 6,898.25 16,004.43 29.98 24.07	\$ 790,115.71
2,692.79 549.12 867.11 7,467.75 6,120.07	$1.708.05\\1.793.78\\4.599.35\\14.836.74\\6.640.39$	$\begin{array}{c} 6.040.96\\ 1.607.34\\ 2.272.54\\ 1.143.21\\ 17,448.83\end{array}$	$\begin{array}{c} 1,887.03\\7,496.20\\1.718.62\\2.079.54\\4.059.34\end{array}$	3,717.83 3,284.84 8,839.05 5,599.69 1,351.00	\$ 713,832.58
9.725.13 326.75 1.799.11 30,112.07 9,008.24	$\begin{array}{c} 2.695.40\\ 1.765.12\\ 2.309.10\\ 11.639.27\\ 9.309.57\end{array}$	$\begin{array}{c} 10.385.08\\ 10.014.74\\ 7.646.79\\ 11.183.99\\ 741.19\end{array}$	$\begin{array}{c} 5.960.44\\ 21.030.78\\ 5.996.63\\ 4.030.08\\ 2.827.00\end{array}$	9,899.44 16,569.28 23,275.26 15,583.23 2,113.83	\$ 921,798.06
633.07 158.16 176.77 1,539.14 736.20	$1,150.00\\140.27\\214.43\\1,450.86\\1,182.13$	250.01 471.25 829.64 246.21 70.50	2,261.23 2,261.23 1,258.75 1,288.75 678.25	813.85 1.190.78 1.483.72 779.03 153.61	\$ 167,611.22
$\begin{array}{c} 3.98820\\ 1.75188\\ 1.96225\\ 23.110.04\\ 6.995.48\end{array}$	5,460.96 1,233.23 1,952.04 3,428.88 8,542.14	$\begin{array}{c} 5.282.51\\ 4.528.79\\ 2.702.79\\ 1.089.34\\ 3.108.36\end{array}$	$\begin{array}{c} 3,489.10\\ 14,168.55\\ 4,363.20\\ 3,078.47\\ 1,087.09\end{array}$	3,542.12 5,052.39 6,537.03 6,882.43 581.79	\$ 626,319.11
29,053.32 12,661.49 16,087.34 95,173.52 33,156.52	20.108.78 8.901.08 34.906.74 32.461.85 68,286.12	40.206.48 16.900.95 22.625.80 12.341.52 18.768.63	21.922.15 67.972.13 19.610.51 30.689.10 11.521.01	22.964.33 38.678.45 38.321.77 51.906.01 13.050.96	\$5,940,813.11
37,192.51 26,736.95 20,508.26 159,987.18 31,970.05	26,143.83 22,507.08 31,298.18 76,415.06 98,848.03	$\begin{array}{c} 61,444.54\\ 32,979.00\\ 23,749.22\\ 19,529.35\\ 24,783.77\end{array}$	33,435,20 76,605,24 36,154,45 35,688,91 30,773,19	35,913,66 52,142,20 102,637,28 72,456,20 31,552,67	\$11,431,915.82
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 General Vermilion, Municipal Viking, Municipal Viking, Municipal	Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	TOTAL

Not Reporting: Canmore, Canmore; Coaldale, Community; Edmonton, Buelah Home; Medicine Hat, Isolation; Nordegg, General.

ANNUAL REPORT, 1953

URPOSES	
OPERATING 1	
UE FOR	
9-REVENUE	
TABLE No	

	Dr	PARI	WIENI	OF TOI	Lic	III.			
Total Revenue	94,880.06 128,680.15 89,993.73 53,538.96 35,657.72	31,936.50 42,305.82	37,291.81 80,976.00	131,755,70 379,475,47 2,578,194,42 1,520,309,57 35,033,15	261,837.51 92,445.60	46.239.03 53,136.81 29,065.54	109.707.52 222.268.18 46.257.60 44.287.45 53,002.79	13,819.95 94,034.81 288,357.15 73,239.28 1,346,696.55	1,238,644.12 2,146,203.96
Other Revenue	129.82 11.82 11.82 625.45 2.067.50 920.24	261.99 173.50	233.46 75.34	ble 23,872.65 3,137.40	1,416.31 27.75	7,283.50 1,035.39	300.00 69.10 567.11 119.68	7,621.80 253.83 2,104.36 673.11 28,702.70	26,304.67 32,020.44
Total Operating Revenue	\$ 94,750.24 128,668.33 89,368.28 51,471.46 34,737.48	31,674.51 42,132.32	175,984.54 37,058.35 80,900.66	22.335 131.755.70 Details Not Available 37.94 2.578.194.42 37.20 1.496.436.92 31.895.75	260,421.20 92,417.85	45,395.00 45,853.31 28,030.15	109,407.52 22,199.08 45,690.49 44,287.45 52,883.11	6,198.15 93,780.98 286,252.79 72,566.17 1,317,993.85	1,212,339.45 2,114,183.52
Out-Patient Earnings	\$ 13,222.20 1,309.10 1,595.00	948.30 385.00	1,270.05	1,632.35 Deta 25,497.94 42,737.20	3,675.70	1,215.58	5,835.72 1,465.05	3,335.59 257.80 43,454.53	16,030.00
Grants	\$ 56,117.94 8,395.91 8,040.99 29,147.55 19,715.95	25,138.90 33,584.10	96,228.71 12,905.65 6,989.50	72,997.95 ble 72,997.95 1,039,847.33 1,119,927.60 18,162.90	25,841.70	32,109.40 4,830.70 17,668.35	54.327.80 3.547.55 27.738.35 24.613.35 4.372.90	62,166,30 175,625,38 47,514,10 83,369,30	93,381.90
Net Earnings	\$ 38,632.30 107,050.22 81,327.29 21,014.81 13,426.53	5,587.31 8,163.22	79,755.83 24,152.70 72,641.11	57,125.40 Is Not Available 1,512,849.15 1,333,772.12 13,732.85	234,579.50 29,768.85	13,285.60 41,022.61 9,146.22	$\begin{array}{c} 49.244.00\\ 18.651.53\\ 16.496.09\\ 20.214.10\\ 48.510.21\end{array}$	$\begin{array}{c} 6.198.15\\ 28.279.09\\ 110.627.41\\ 24.794.27\\ 1.191.170.02\end{array}$	1,102,927.55
Deductions	\$ 43,968.05 3,709.62 9,239.57 21,160.55 1,512.05	13,479.79	39,152.17 2,448.40 9,392.49	45,999.08 Deta 173,260.74 154,335.13 485.40	16,456.93 20,877.60	7,658.10 4,824.30 3,535.60	32,802.15 1,504.17 13,749.35 14,384.88 1,935.79	8,227.70 20,461.38 79,241.16 17,343.15 104,899.55	166,284.08
Gross Earnings	82,600.35 110,759.84 90,566.86 42,175.36 14,938.58	19,067.10	118,908.00 26,601.10 82,033.60	ble 1,488,109.89 1,488,107.25 14,218.25	251,036.43 50,646.45	20,943.70 45,846.91 12,681.82	82,046.15 20,155.70 30,245.44 34,598.98 50,446.00	14,425.85 48,740.47 189,868.57 42,137.42 1,296,069.57	1,269,211.63 2,026,452.44
Special Services	\$ 16.379.50 23.235.04 25.848.46 9.721.81 3.646.73	4,009.45	35,242.50 4,716.55 14,999.00	33,706.98 Ils Not Available 471,587.17 1,494,243.71 1,2,254.35	77,235.53	2,822.80 11,529.21 2,565.12	13.980.25 4.200.05 4.121.69 6.361.28 17,645.75	872.05 10,861.97 44,975.87 7,100.82 442,356.01	405,279.03
Day Rate Services	\$ 66,220.85 87,524.80 64,718.40 32,453.55 11,291.85	15,057.65 27,749.65	83,665.50 21,884.55 67,034.60	69.417.50 Details 1,214.522.72 993.863.54 11.963.90	173,800.90	18,120.90 34,317.70 10,116.70	68,065.90 15,955.65 26,123.75 28,237.70 32,800.25	13,553.80 37,878.50 144,892.70 35,036.60 853,713.56	863,932.60 1,434,743.10
Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverloize, Municipal	Bentley, Municipal Berwyn, Municipal Berwyn, Crow's Neet Pass	Katherine H.		Camrose, St. Mary's Cardston, Municipal	Carmangay, Little Bow Muni- cipal Castor, Our Lady of the Rosary Cereal, Municipal	ke, John N Municipal ion, Municipal	Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal Edmonton, General	

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3,170,680.91 76,915.84 104,133.46	35,537,08 45,842.76 84,003.87 74,572.43 27,883.05	57,566.30 39,398.60 37,799.19 217,362.13 127,057.63	61,119.12 135,551.52 126,253.14 92,430.46 33,757.44	$\begin{array}{c} 48,996.07\\ 62,937.18\\ 54,833.94\\ 148,035.22\\ 200,583.93\end{array}$	413,190.54	727,445.88 89,731.25 64,362.28 26,124.13	48,343.53 102,969.69 380,299.07 75,814.59 52,016.97	$\begin{array}{c} 102,019.27\\ 31,994.06\\ 124,591.75\\ 70,658.65\\ 129,752.60\end{array}$	92,884.13 32,154.02
735.50	150.38 653.34 1.762.12	94.27 306.06 2,749.23	231.00 1,619.14 378.48 180.00 244.15	2,026.80 13,307.18	39,827.54	63,339.33 322.78 182.71 2,057.54	30.00 2,436.49 33,371.20 25.00	432.52 599.50 50.00	573.50
$\begin{array}{c} 3.170,680.91 \\ 76,915.84 \\ 103,397.96 \end{array}$	35,386.70 45,189.42 84,003.87 74,471.77 26,120.93	$\begin{array}{c} 57,472.03\\ 39,092.54\\ 37,799.19\\ 217,183.40\\ 124,308.40\\ 124,308.40 \end{array}$	$\begin{array}{c} 60,888.12\\ 133,932.38\\ 125,874,66\\ 92,250.46\\ 33,513.29\end{array}$	48.895.30 60.910.38 54.833.94 1487.276.75 187.276.75	373,363.00	664.106.55 89.408.47 64.179.57 24.066.59	$\begin{array}{c} 48,313.53\\102,969.69\\377,862.58\\42,443.39\\51,991.97\end{array}$	$\begin{array}{c} 101,586.75\\ 31,394.56\\ 124,541.75\\ 70,658.65\\ 129,752.60\end{array}$	92,884.13 31,580.52
121,514.02	355.95	607.00	6,071.35	2,308.00 1,306.05 2,093.87		12,476.06 1,740.00 1,336.20	1,126.42 3,988.55 1,486.57 1,344.38	1,352.40 6,680.36 2,300.15	3,255.13
309,205.14 6,788.60 56,187.70	24,219.70 26,588.10 47,980.55 32,596.70 3,778.70	5,694.70 3,831.10 25,535.80 120,718.10 79,777.12	5.523.80 12.176.50 88.443.27 69.085.09 25.730.35	2,817,50 5,390.70 6,545,80 87,969.95 17,965.60	51,934.70	43.963.50 8.956.50 43.438.60 7.409.80	$\begin{array}{c} 30,237.41 \\ 46,151.55 \\ 72,785.90 \\ 3,489.60 \\ 34,465.70 \end{array}$	$\begin{array}{c} 54,400.85\\ 22,143.40\\ 63,521.45\\ 7,042.50\\ 80,680.25\end{array}$	55,965.20 3,869.10
2,739.961.75 70,127.24 47,210.26	$\begin{array}{c} 10.811.05\\ 18.601.32\\ 34.445.85\\ 31.875.07\\ 22.342.23\end{array}$	51,777.33 35,261,44 11,656.39 90,226,99 44,531,28	55.364.32 115.684.53 37.431.39 23.165.37 7.711.94	46.077.80 55.519.68 45.980.14 58.759.22 167.217.28	321,428.30	607,666.99 78,711.97 20,740.97 15,320.59	16.949.70 52.829.59 305.076.68 37.467.22 16.181.89	45,833.50 9.251.16 54,339.94 634,339.94 63,616.15 46,772.20	33,663.80 26,519.20
163,930.70 2,264.25 37,895.54	$\begin{array}{c} 5,632.84\\ 7,414.60\\ 24,951.28\\ 13,317.16\\ 1,393.40 \end{array}$	3,961.49 1,498.31 7,887.10 85,563.28 31,025.90	$\begin{array}{c} 2,607.89\\ 31,887.93\\ 46,989.37\\ 67,998.59\\ 14,064.91\end{array}$	2,814.45 3,221.41 8,376.23 42,122.81 10,237.98	18,511.95	79.302.34 4.330.06 12.026.20 2.386.26	9,702.45 16,527.70 30,110.21 3,485.55 12,168.96	26,287.55 7,511.25 36,542.25 2,946.20 31,779.55	20,370.10
2,903,892.45 72,391.49 85,105.80	$\begin{array}{c} 16,443.89\\ 26,015.92\\ 59,397.13\\ 55,192.23\\ 23,735.63\end{array}$	55.738.82 36.759.75 19.543.49 175.790.27 75.557.18	$\begin{array}{c} 57.972.21\\ 147.572.46\\ 84.420.76\\ 91.163.96\\ 21.776.85\end{array}$	$\begin{array}{c} 48.892.25\\ 58.741.09\\ 54.356.37\\ 105.882.03\\ 177,455.26\\ \end{array}$	339,940.25	686,969.33 83.042.03 32.767.17 17.706.85	26,652.15 69,357.29 335,186.89 40,952.77 28,350.85	$\begin{array}{c} 72.121.05\\ 16.762.41\\ 90.882.19\\ 66.562.35\\ 78.551.75\end{array}$	54,033.90
839,506.62 20,419.34 13,241.00	2,485.49 6,255.97 13,715.48 5,365.20 864.13	1,472.99 8,484.85 1,978.99 38,742.97 38,742.97 17,004.94	$\begin{array}{c} 16.344.51\\ 32.076.11\\ 13.808.56\\ 11.609.77\\ 2.669.70\end{array}$	15,387.95 18,669.80 13,117.05 13,117.05 42,434.61	94,213.50	226,579.03 14,927.38 8.141.07 2.715.05	3,501.90 21,381.19 74,694.14 7.322.87 6,853.30	$\begin{array}{c} 14,444.25\\ 2,074.67\\ 17,618.64\\ 14,316.25\\ 21,925.20\end{array}$	13,386.75
2,064,385.83 51,972.15 71,864.80	13.958.40 19.759.95 45.681.65 49.827.03 22.871.50	$\begin{array}{c} 54,265,83\\ 28,274,90\\ 17,564,50\\ 137,047,30\\ 58,552,24\end{array}$	$\begin{array}{c} 41,627.70\\115,496.35\\70,612.20\\79,554.19\\19,107.15\end{array}$	33,504.30 40,071.29 41,239.32 82,570.35 135,020.65	245,726.75	$\begin{array}{c} 460,390.30\\ 68,114.65\\ 24,626.10\\ 14,991.80\\ \end{array}$	$\begin{array}{c} 23,150.25\\ 47,976.10\\ 260,492.75\\ 33,629.90\\ 21,497.55\end{array}$	57,676.80 14,687.74 73,263.55 52,246.10 56,626.55	40,647.15 20,594.70
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	Jasper, Seton Killam, General Lac la Biche, St. Catherine's Lacombe, Municipal Lamont, Archer Memorial	Lethbridge, Galt	General McLennan, Sacred Heart Magrath, Municipal Manning, Battle River	Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Mundare, General Myrnam, Municipal	Olds, Municipal Oyen, Municipal Peace River, Municipal Plincher Creek, St. Vincent's Ponoka, Municipal	Provost, Municipal Radway, St. Joseph's

Hospitals	Day Rate Services	Special Services	Gross Earnings	Deductions	Net Earnings	Grants	Out-Patient Earnings	Total Operating Revenue	Other Revenue	Total Revenue
Raymond, Municipal Red Deer, Municipal Rimbey, Municipal	\$ 24,064.40 \$ 177,660.20 47,514.40	\$ 8,477.06 52,753.70 15,516.85	32,541.46 230,413.90 63,031.25	\$ 20,281.25 71,896.61 20,916.82	\$ 12,260.21 158,517.29 42,114,43	\$ 33,243.90 188,829.70 51,591.04	\$ 1,149.44 1,856.60 3,903.05	\$ 46,653.55 \$ 349,203.59 97,608.52	250.67 \$ 4,294.56	46,904.22 353,498.15 97,608.52
	39,539.60	9,998.61	49,538.21	19,727.30	29,810.91	43,478.15	567.00	73,856.06	183.00	74,039.06
Suroky Lake, George McDougail Spirit Ruver, Holy Cross St. Paul, St. Theresa Stettler, Municipal	$\begin{array}{c} 16,953.60\\ 54,505.00\\ 103,244.28\\ 113,668.44 \end{array}$	4,187.06 17,053.50 39,898.59 36,803.35	$\begin{array}{c} 21.140.66\\71.558.50\\143.142.87\\150.471.79\end{array}$	5,497.63 5,497.63 18,063.69 69,173.49	20,945.81 66,060.87 125,079.18 81,298.30	6,106.30 6,982.50 11,089.30 114,447.17	441.67	27,493.78 73,043.37 136,168,48 197,094.62	3,053.83 159.00 180.00	30,547.61 73,202.37 136,168.48 197,274.62
Taber, Municipal Three Hills, Municipal Tofield, Municipal Trochu, St. Mary's Turner Valley, Municipal	$\begin{array}{c} 79.962.85\\ 22.881.00\\ 34.298.00\\ 23.971.90\\ 37.720.34 \end{array}$	$\begin{array}{c} 28.074.05\\ 8.532.56\\ 12.037.25\\ 4.771.57\\ 10.270.24\end{array}$	$\begin{array}{c} 108,036.90\\ 31,413.56\\ 46,335.25\\ 28,743.47\\ 47,990.58\end{array}$	$\begin{array}{c} 34.911.45\\ 9.925.05\\ 30.001.70\\ 1.227.59\\ 18,603.80\end{array}$	73,125,45 21,488,51 16,333,55 27,515,88 29,386,78	$\begin{array}{c} 72.504.05\\ 47.265.90\\ 41.284.85\\ 2.963.10\\ 39.126.22\end{array}$	2.368.45 2.183.65 937.55	$\begin{array}{c} 145,629.50\\ 71,122.86\\ 57,618.40\\ 32,662.63\\ 69,450.55\\ 69,450.55\\ \end{array}$	479.19 286.00 223.98 181.03	$\begin{array}{c} 146.108.69\\ 71.408.86\\ 57.618.40\\ 32.886.61\\ 69.631.58\end{array}$
Two Hills, Municipal Vegreville, St. Joseph General Vermilion, Municipal* Viking, Municipal Viking, Municipal	38,207,50 139,430.65 49,398,00 49,059,90 21,339,35	7,525.05 50,201.05 7,886.55 19,366.53 6,718.77	$\begin{array}{c} 45,732.55\\ 189,631.70\\ 57,284.55\\ 68,426.43\\ 28,058.12\end{array}$	19,389,15 29,388,26 25,775,70 43,264,18 2,209,55	$\begin{array}{c} 26,343.40\\ 160,243.44\\ 31,508.85\\ 25,162.25\\ 25,848.57\\ \end{array}$	$\begin{array}{c} 52,842.15\\ 14,401.80\\ 53,788.75\\ 83,219.19\\ 2,178.40\end{array}$	3.375.20 5.866.44 1.682.50 1.880.40	82,560.75 180,511,68 180,511,68 86,980.10 110,261.84 28,026.97	873.69 589.26 383.77 2,960.04	83,434.44 181,100.94 87,363.87 113,221.88 28,026.97
Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	$\begin{array}{c} 44.543.17\\73.666.05\\137.953.10\\95.949.44\\33.761.30\end{array}$	13.228.85 24.163.68 49.266.89 36,390.20 9,504.83	$\begin{array}{c} 57,772.02\\97,829.73\\187,219.93\\132,339.64\\132,266.13\end{array}$	30,156.65 38,887.42 14,773.72 3,815.23 5,375.31	$\begin{array}{c} 27,615.37\\ 58,942.31\\ 172,446.27\\ 128,524.41\\ 37,890.82 \end{array}$	54.919.50 59.966.10 17.282.30 12.284.30 3.713.50	1.771.57 4.508.09 173.75 2.409.72	84,306,44 123,416,50 189,728,57 140,982,46 44,014,04	555.00 1.582.65 3.382.60	84.306.44 123.971.50 191.311.22 141.247.70 47.396.64
TOTAL	\$12,870,377.81 \$ 4,975,080.01 \$17,845,457.82	4,975,080.01 \$	17,845,457.82	\$ 2,674,843.43	2,674,843.43 \$15,170,614.39	\$5,151,564.68	\$ 441,222.98	441,222.98 \$20,763,402.05 \$		328,802.38 \$21,471,679.90

No 1.

In Calculating patient day revenue and cost, three newborn nursery days were considered equivalent to one adult day. Total Revenue data for Muncipal Hospitals includes funds obtained through tax requisition from contributing municipaltities. Therefore Revenue per patient per day data for this group of hospitals is not comparable with that of other hospitals.

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Table No. 9-Continued

				Percentage of		Total Operating Expenditure	diture			
Hospitals	Operating Cost Per Patient Per Day	Salaries and Wages	Supplies	Purchased Services	Insurance	Deprecia- tion	Repairs and Replace- ments	Interest and Exchange	Miscel- laneous	Revenue per per day
Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	\$ 11.10 11.68 8.99 8.99 9.29 10.24	34.7 52.4 63.5 45.5 45.1	23.1 23.9 23.4 2.8 2.8 2.8	1.000 1.000 0.0000 0.0000 0.0000 0.000000	1.1 1.4 0.6 1.1	889 166 268 268 268 268 268 200 200 200 200 200 200 200 200 200 20	12264	15.1 0.1 0.6 0.6	10.8 0.9 0.5 1.2 3.1	\$11.50 11.87 8.44 9.40 11.49
Bentley, Municipal Berwyn, Municipal Blairmore, Crow's Nest Pass. Mun. Bonnyville, Katherine H. Prittie Bonnyville, St. Louis	15.57 8.07 12.12 7.53 6.64	40.5 41.4 47.7 63.0 63.0	25.6 275.8 27.0 24.9 24.9	5.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2	0.0 0.0 0.0	17.9 15.1 12.9 5.7	3.0 2.3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.4 5.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	02 4.1 2.2 2.2 1.0	13.64 8.63 13.30 9.84 7.44
Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgary, Holy Cross Calgary, Salvation Army Grace	12.78 8.28 17.40 12.87 11.12	46 55 58 58 58 58 58 58 58 58 58 58 58 58	30.5 19.3 22.6 36.5 36.5	200 200 200 200 200 200 200 200 200 200	0.7 0.1 0.1 0.1 1.1	6.7 5.3 3.1	5.9 2.10 4.4 4.4	5 5 5 5 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	32938	11.63 8.27 17.40 13.03 13.02
Camrose, St. Mary's Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary Cereal, Municipal	11.61 12.50 18.58 14.00	58.1 53.3 37.7 37.7	20.8 36.7 35.5 37.8	2383 258 268 268 268 268 268 268 268 268 268 26	0.6 0.9 0.0	33 33 33 33 33 33 33 33 33 33 33 33 33	4.8 57.8 55.5 55.5 55.5	42 0.05 1 1	0.7 9.8 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3	10.83 12.51 18.28 18.55 14.47
Claresholm, Municipal Cold Lake, John Neil Consort, Municipal Coronation, Municipal Daysland, Providence	8.24 9.45 9.16 9.96	54.5 49.8 38.2 41.7 52.3 52.3	29.9 30.1 31.9 27.5	449 199 199 199 199 199 199 199 199 199	054 054 054 054 054	5.9 14.4 5.2 9.4	229 31 14 14 24 24	1.2 0.0 0.0	0.2 0.8 0.6 0.6	9.74 7.05 10.88 9.04
Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal Eckville, Municipal Edmonton, General	4.45 11.25 11.19 9.55 13.26	38.6 43.7 51.2 53.6 52.4	225520 225520 225700 22570000000000	23.8 2.6 2.8 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	0.9 0.6 0.6 1.1 1.1	2.9 8.7 13.3 13.3 6.8	115 3.0 2.8 2.8 2.8 2.8 2.6 8 2.6 8 2.6 8 2.0	3.7 1.4 8.6 8.6	1.7 3.54 0.75 1.5	4.45 14.12 12.62 12.62
Edmonton, Misericordia Edmonton, Royal Alexandra	11.44	56.5	27.7 29.1	3.0 1.4	0.5	5.1 2.1	4.8 4.8	1.3	1.1 0.7	11.45

TABLE No. 10-DISTRIBUTION OF HOSPITAL OPERATING EXPENDITURE, 1953

ANNUAL REPORT, 1953
	Revenue per per day	13.46 8.57 8.11	15.23 11.99 14.90 7.97	5.55 7.71 13.21 13.21 12.81	8.30 6.88 10.55 10.45	9.19 8.95 6.66 10.39 10.86	11.51 12.16 7.63 15.87 9.39	12.27 16.77 10.34 13.25 15.17
	Miscel- laneous	0.9 0.4 1.6	2169 3163 3163 3169	000000 000000	80098 80008 80008	00000 599959	0.4 0.5 0.6 2.1	745 445 156 145 145 145 145 145 145 145 145 145 145
	Interest and Exchange	4.1 0.1 6.5	0.030.00	7.5 0.1 3.5 3.5	0.00	1.7 1.5 0.0 1.0 1.0 1.0	0.2 6.5 0.5 0.0 0.0	0.0 4.1 0.02
diture	Repairs and Replace- ments	23 69 42	2.6 7.0 8.4 0.3 3.4 6 0.3	4.0 7.9 6.0 8 0.8	44 484 1255 61 1255	43 13 42 24 24 24 24 24 24 24 24 24 24 24 24	8 10000 1000 1000	32 147 155 155 155 155 155 155 155 155 155 15
rating Expen-	Deprecia- tion	2.1 6.8 13.7	12.2 9.4 12.6	8.8 6.6 8.5 7.5 7.5 7.5 8 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8	7.5 8.7 3.6 8.7 2.6 8.7 2.6	2.2 2.2 2.7 1.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	0.0 8.2 8.7 8.7 8.7	4.8 7.8 2.9 5.6
Percentage of Total Operating Expenditure	Insurance	0.5 0.6	0.9 1.8 0.7 1.0	0.8 0.8 1.6	1.2 0.6 0.6 0.6	1.8 1.4 1.0	0.8 0.4 0.7 0.7 0.7	11 0.0 0.1 0.1 0.1
Percentage	Purchased Services	1.9 2.6 4.8	000000 000000	0.1 7.7 5.1 5.1	33.3 5.4211 5.4210 5.4210 5.42100000000000	91916 491985	235 23 23 23 23 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25	5.7 4.9 8.2 8.6 8.6
	Supplies	29.4 21.1 30.7	27.5 36.7 35.4 20.8	33.6 275.4.6 3322.5 3322.5 3322.5 3322.5 3325.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 335.5 35.	3393 2310 2323 2323 2323 2323 2323 2323 232	21.6 331.7 37.8 37.8 37.8 37.8 37.7 37.8	42.4 25.6 33.3 33.3	32.1 33.6 23.4 16.7 29.3 29.3
	Salaries and Wages	58.8 61.4 37.9	42.6 42.6 37.8 53.0 53.0	45.5 60.0 43.6 46.5	49.5 51.6 39.0 50.3 50.3	59.2 52.5 52.5 49.2 49.2 49.2	49.6 57.5 46.7 48.7 48.7	45.3 39.6 58.6 50.2 50.2
	Operating Cost Per Patient Per Day	\$ 12.08 8.69 8.22	13.84 11.63 8.93 14.05 13.19	5.16 8.02 13.75 8.43 11.18	8.53 6.69 9.69 10.36 9.52	9.20 9.14 6.75 10.43 11.06	10.65 10.66 13.35 9.47	10.36 13.50 10.54 12.83 15.82
	Hospitals	Edmonton, University of Alberta . Edson, St. John's Elk Point, Municipal	Elnora, Municipal Empress, Municipal Fairview, Municipal Fort Macieod, 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 Myrnam, Municipal

Table No. 10-Continued

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10.36 12.81 9.93 6.72 12.75	14.04 8.94 11.11 13.03 12.18	10.74 10.46 7.68 8.13 10.41	11.76 18.28 9.63 8.45 11.44	13.11 8.83 10.21 13.25 7.80	11.93 9.84 8.30 8.61 8.15	\$11.84
0.5 2.6 0.3 0.4	1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.3 0.5 0.5 0.5 0.5	1.0 0.5 0.9 5.9	0.6 1.1 7.0 0.8	6.2 0.2 0.3 7.7	1.7
3.8 1.8 2.0 6.7	74 320 54 82 53 85 53 54 54 50 54 50 50 50 50 50 50 50 50 50 50 50 50 50	7.3 0.75 2.82 2.82 2.82 2.82 2.82 2.82 2.82 2.8	3.0 4.6 4.5 0.8 0.8	5.3 1.6 6.2 0.1	2.6 8.1 0.0	3.8
470000 8600570	662028	2.8 5.6 3.3 3.3 3 3 3	2514 2514 2514 2511	100488 907488 907488	4.4 2.2.4.5.6 6.6.5.6 6.6.5.6 6.6.5.6 6.6.5.6 6.6.6.6 6.6.6 6.6.6 6.6.6.6 6.6.6.6 6.6.6.6 6.6.6.6 6.6.6.6 6.6.6.6 6.6.6.6 6.6.6.6 6.6.6.6.6 6.6.6.6.6 6.6.6.6.6.6.6 6.	3.4
5.3 5.1 7.6 13.6 14.0	10.7 0.8 4.1 9.0 9.6	484 888 128 128 128 128 128 128 128 128 128	8.1 14.2 12.0 23.2 11	108 108 55 55 55 55	11.7 13.2 10.1 4.0	4.4
00 00 00 00 00 00 00 00 00 00 00 00 00	0.4 0.4 0.5 0.8	1.8 0.4 0.3 0.6	022 013 015 015 015 015 015 015 015 015 015 015	0 1999 1999 1999 1999 1999 1999 1999 19	1.0 0.9 0.5 0.3 0.3	0.8
297 297 297 297 297 297 297 297 297 297	441 695 759 759	800014 806446	499424 149424 149524	22503 22503 21500 21503 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500	42 333 11 11	3.0
32.7 28.9 30.7 23.2 23.2 23.1	31.9 38.7 38.4 35.5	32.4 24.1 22.8 34.2	31.2 24.0 25.6 27.0	30.8 34.9 34.7 22.4	27.3 30.0 33.8 24.7 24.7	28.4
43.1 39.7 51.6 45.5	40.9 63.1 47.7 34.3	42.2 61.1 53.5 49.5	47.7 46.8 37.1 35.6 35.6	46.9 39.3 40.3 59.9 59.9	42.6 41.6 51.9 59.6 59.6	54.5
9.84 9.99 7.61 12.65	13.76 11.79 10.36 12.35 11.64	8.99 12.62 8.61 8.52 10.53	10.37 18.04 10.68 12.37 11.43	11.19 9.49 8.54 10.36 14.30	11.93 9.96 8.57 9.37 9.77	\$ 11.55
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, Munichpal 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 Turner Valley, Municipal	Two Hills, Municipal Vegreville, General Vermilion, Municipal Viking, Municipal Vilina, Our Lady's	Vulcan, Municipal Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	All Hospitals

Not Reported: Canmore, Canmore; Coaldale, Community; Edmonton Beulah Home; Medicine Hat, Isolation; Nordegg, General.

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TABLE No.
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	Total Amount	12,384 2,997 10,487 4,751 4,278	2,288 $4,920$ $3,606$ $8,356$	12,720 205,454 178,699 10,849	27,070 1.585 11.754 11.754 5.744	1,474 10,865 4,827 3,670 4,439	$ \begin{array}{c} 5.284 \\ 3.680 \\ 669 \\ 7.631 \\ 22.076 \end{array} $	6,503 8,706 99,222 164,208 264,447
	AmA	05						
	Total Days	1,657 389 1,442 576	313 706 1,456 1,179	1,698 19,951 17,621 1,458	3,380 218 1,633 231 774	209 1,485 696 544 624	760 519 1,050 2,650	860 1,266 9,817 15,935 26,240
	Amount	\$ 2.035 572 1.566 585 736	341 576 2,123 486 1,053	2,134 44,136 36,612 1,727	4,082 1,629 216 902	1,606 603 603 549 549	612 459 1,089 4,004	$1,133\\19,746\\35,634\\52,632$
Benefits	MarDec. Cases Discharged	185 52 174 65 84	31 64 193 117	194 2,452 2,034 157	314 28 181 24 82	146 146 66 66	51 51 308 308	103 93 1,097 1,983 2,924
Maternity Benefits	Amount	\$ 9.021 2.047 7.717 3.389 2.992	1.593 3.578 7.862 2.664 6.388	8,952 141,083 121,803 8,196	$19.140 \\ 1.134 \\ 8.920 \\ 1.215 \\ 4.340$	1.127 7.849 3.420 3.591	$ \begin{array}{c} 4.095\\ 2.866\\ 5.474\\ 15.621 \end{array} $	4,668 7,081 70,133 110,302 183,018
	MarDec. Days	1,432 325 1,225 475	253 568 1,248 1,014	1,421 17,010 14,764 1,301	2,774 1.416 1.416 1.93 689	1,246 543 543 470 570	650 455 70 869 2,264	741 1,124 8,501 13,370 22,184
	Amount	\$ 1,327 377 1,204 777 530	354 1,227 455 915	1,634 20,235 20,284 926	3,848 1,204 1,204 501	1,410 803 388 299	577 355 147 1,067 2,451	702 9,343 18,211 28,797
	JanFeb. Days	225 64 140 101	60 138 208 82 165	277 2.850 2.857 157	606 38 317 38 38 85	30 239 153 74 54	110 64 28 181 386	119 1,316 2,565 4,065
ant	Amount	\$ 6.369 5.656 8.041 4.216 2.406	1.759 3.730 9.855 6.989	8,652 30,654 108,681 86,084 2,385	18,417 1,179 5,808 1,867 4,592	1,453 8,271 2,499 1,561 2,998	3,999 4,363 6,265 5,127 16,435	$ \begin{array}{c} 5.149\\ 2.461\\ 75.553\\ 80.972\\ 116.636 \end{array} $
70c Per Diem Gran	Non-Grant Days	306 3,124 190 33	29 48 188 1,835	2,103 8,628 7,476 559	169 99 120 131 197	76 488 1,453 405	38 2,343 68 803	$\substack{\substack{14\\609}\\6.184\\4.092\\15.729$
70c F	Grant Days	9,099 8,080 11,488 6,024 3,438	2,513 5,329 14,079 9,985	$12.361\\43.792\\155.259\\122.978\\3.408$	26,310 1,687 8,298 2,668 6,561	2.077 11.817 3.570 2.231 4.284	5.713 6.233 6.233 7.325 23.479	7.356 3.517 107.933 115.675 166.623
	Approved Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crows Nest Pass Municipal Bonnyville, Katherine H. Prittle Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgray, Holy Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Cammore, Cammore Cardston, Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	Cereal, Municipal Claresholm, Municipal Coaldale, Community Cold Lake, John Neil Consort, Municipal	Coronation, Municipal Daysland, Providence Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal	Eckville, Municipal Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra

		P	ANNUAL	REPORT,	1953		1
135,607 16,045 8,758 2,234 3,025	9,029 3,532 2,886 2,886 2,621	4,004 3,530 19,539 2,252 9,527	5,405 14,912 13,786 8,869 1,916	$\begin{array}{c} 5,063\\ 8,260\\ 11,650\\ 16,583\\ 12,209\end{array}$	28,378 60,312 13,800 12,149 3,810	4,410 5,684 9,801 43,651	2.337 2.018 1.512 12.286 2.752
13,726 2,249 1,230 319 445	1,227 504 442 28 407	577 513 2,590 301 1,307	2.072 1.931 1.182 277	731 1,196 1,616 2,265 1,508	3,485 7,404 1,879 1,681 538	654 803 5,325	332 281 215 1.672 381
24,552 2,035 1,197 252 288	1,386 459 273 18 252	432 414 3,399 1,375	2,115 1,935 1,507 243	558 864 1,683 2,442 1,937	4,654 9,841 2,090 1,746 486	539 7,345 7,345	279 261 201 1,870 378
1,364 185 133 28 28 32	126 51 39 36 36	48 46 309 43 125	60 235 235 235 235 235 235 27	62 96 187 222 149	358 757 194 54	77 82 565 565	31 239 1700 420
97,655 11,673 6,621 1,782 2,249	6,369 2,142 2,142 168 1,860	3,112 2,261 13,532 1,713 6,948	3,899 10,905 9,531 6,117 1,316	3,767 6,375 8,385 12,247 8,735	20,003 43,352 9,828 9,021 2,841	3,222 4,113 7,868 31,277	1,814 1,694 1,058 8,681 2,186
11,837 1.853 1.051 283 357	1,011 369 357 28 310	494 359 2.148 1.103	1,731 1,513 971 209	598 1.012 1.331 1.944 1.266	2,899 6,283 1,560 1,432 1,432 451	537 653 4,533 4,533	288 269 168 1.378 347
13,400 2,336 199 488	1,274 749 471 509	460 854 2.607 1.52 1.203	965 1.892 2.319 1.244 357	738 1,021 1,531 1,536	3.721 7.118 1.882 1.381 1.381	649 832 5,029	244 63 246 1.734 1.88
1,889 396 179 88	216 135 85 97	83 154 442 29 204	174 341 318 211 68	133 184 285 321 242	586 1,121 319 249 87	117 150 131 792	44 12 294 34
129,761 6,787 8,942 1,704 2,219	6,491 3,575 1,586 2,284 2,284	3,830 2,249 15,521 7,283	5,490 12,176 9,163 6,678 2,430	2,817 5,390 6,491 10,992 12,115	24,561 43,959 10,968 8,923 3,080	2,201 3,099 5,992 26,276 22	4,154 2,534 7,484 1,890
60,860 788 1,041 119 1,019	106 1,703 N.A.	23 23 6 1,674 337 416	3,994 203 83	1,901 78 21 2,247	3,461 2,250 216 261 39	58 3,530 3,530	17 233 44
185,374 9,697 12,775 2,435 3,171	9.273 5.108 2.267 467 3.263	5,472 3,213 22,174 1,417 10,405	$\begin{array}{c} 7,844\\ 17,395\\ 13,090\\ 9,540\\ 3,472\end{array}$	$\begin{array}{c} 4.025\\7.701\\9.273\\15.704\\17.308\end{array}$	35,088 62,799 15,669 12,748 4,401	$ \begin{array}{c} 3.145\\ 4.428\\ 8.560\\ 37,538\\ 32 \end{array} $	5,935 3,621 718 10,692 2,700
Edmonton, University Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal	Fairview, Municipal Fort McLeod, Municipal Fort McMurray, St. Gabriel's Fort Smith, N.W.T., General 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 Lloydminster, Lloydminster McLennan, Sacred Heart Magrath, Municipal	Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Medicine Hat, Isolation	Mundare, General Myrnam, Municipal Nordegg, General Olds, Municipal Oyen, Municipal

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	70c	70c Per Diem Gran	ant				Maternity	Maternity Benefits			
Approved Hospitals	Grant Days	Non-Grant Days	Amount	JanFeb. Days	Amount	MarDec. Days	Amount	MarDec. Cases Discharged	Amount	Total Days	Total Amount
Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's	13,109 9,735 11,198 6,714 3,988	1,459 1,459 61 259 114	9,176 6,814 7,838 4,699 2,791	301 140 191 82 156	1,775 1,175 1,126 1,126 819	1,631 888 1,426 443 644	10,275 5,594 8,983 2,790 4,057	172 97 178 67 73	1,892 1,067 1,958 603 657	1,932 1,028 1,617 525 800	13,943 7,487 12,068 3,849 5,533
Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougall	4,538 29,554 8,725 7,273 3,339	271 877 35 296	3,176 20,687 6,107 5,091 2,337	130 1567 1153 1182 84	3,600 1,010 1,010	755 3,685 1,068 807 570	4,756 25,426 6,728 5,084 3,591	115 476 146 102 81	1,035 6,188 1,606 918 729	4,252 1,221 989 654	6,513 35,214 9,237 7,012 4,786
Spirit River, Holy Cross St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Three Hills, Municipal	9,949 15,865 20,345 13,617 4,458	2,787 268 619 117	6,964 11,105 14,241 9,531 3,120	321 346 321 375 198	2,041 1,893 2,081 1,168	2,123 2,077 2,077 2,075	4,806 13,374 13,072 13,072 4,441	211 211 268 268 95	765 2,321 3,025 2,412 1,045	2,469 2,469 2,398 2,450 903	6,265 17,737 18,004 17,565 6,654
Tofield, Municipal Trochu, St. Mary's Turner Valley, Municipal Two Hills, Municipal Vegreville, St. Joseph's General	6,551 4,249 6,322 6,783 6,783 20,506	35 36 177 1,294	$\begin{array}{c} 4,585\\ 2,974\\ 4,748\\ 4,748\\ 14,354\end{array}$	103 104 343	607 577 549 531 2,178	825 412 543 652 1,409	5,197 2,595 3,420 4,107 9,722	109 43 68 68 75 163	1,199 387 612 825 2,119	928 516 624 1,752	7,004 3,559 4,482 5,463 14,019
Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal	$ \begin{array}{c} 9,233 \\ 9,233 \\ 9,025 \\ 3,112 \\ 7,474 \\ 13,451 \\ \end{array} $	331 951 331 484	6,463 6,317 5,231 9,415	264 85 85 85 85 85 85 85 85 85 85 85 85 85	1,557 1,446 294 1,087 2,059	1,342 788 788 785 1,547	8,454 4,964 3,647 4,945 9,746	162 56 57 188	1,782 738 504 873 2,068	1,606 873 873 873 931 1,896 1,896	11.794 6,148 4,445 6,906 13,873
Westlock, Immaculata Wetaskiwin, Community Willingdon, General	24,688 17,545 6,204	282	17,281 12,281 4,342	414 333 131	2,442 1,964 727	2,478 2,153 489	15,611 13,563 3,080	258 296 55	2,838 3,256 495	2,892 2,486 620	20,892 18,784 4,302
Total for Approved Hospitals	1,813,477	165,711	\$1,269,433	34,332	\$ 220,475	189,311	\$1,378,342	24,336	\$ 347,579	223,643	\$1,946,397

106 1,427 1,257 1,257 2,656 5,656 1,023	2,131 9,088	225,774 \$1,955,485
N.A. N.A. N.A.	N.A.	\$ 347,579 22
N.A. N.A. N.A.	N.A.	24,336
373 1,535 4,810 924	\$ 7,643	\$1,385,986
83 339 1,069	1,799	191,110
\$ 103 396 846 99	\$ 1.444	\$ 221,920
23 188 138 33	332	34,664
	N.A.	\$1,269,433
in the second se	N.A.	165,711
	N.A.	1,813,477
PRIVATE HOSPITALS: Luscar Mercoal Sexsmith Swalwell	Total for Private Hospitals	Total for all Hospitals

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		Total Payment	\$ 23,961 12,095 32,689 11,866 9,227	6.726 14.679 38.877 9.544 28.138	28,630 30,654 453,956 357,329 13,235	70.560 4.261 23.403 5.842 15.380	6,426 29,288 9,288 6,162 10,823	13,345 12,413 1,562 14,408 56,590	17,968 11,168 327,253 388,474 538,669
		Total Amount	\$ 5,207 3,442 14,159 2,898 2,542	2.678 6.028 17.809 3.204 12.791	7,257 139,820 92,545	25,073 5,840 5,840 5,043	3,498 10,164 1,962 3,385	4,062 4,370 266 1,649 18,078	6,316 152,477 143,293 157,585
		Total Days	. 676 1,969 394 363	363 31 2,464 1,819	1,010	3,133 233 233 815 3415 674	1,436 1,436 132 132 456	580 588 34 2.307	880 15,705 14,870 16,734
		Amount	\$ 982 399 2,032 465 317	423 841 2,424 1,694	948 18,365 13,575	3,718 111 844 282 872	1,183 345 142 528	530 723 52 292 2,340	861 25,495 23,082 22,232
SPITALS	ienefits	Special Services Days MarDec.	578 578 1,311 300 205	249 543 1,426 1,093	558 7,346 5,430	2,010 72 545 182 563	373 696 223 114 341	342 467 34 172 1,265	556 9.233 8.893
OH OL SI	Pension Benefits	Amount	\$ 3,654 2,614 9,909 2,041 1,726	1,719 4,800 13,034 1,827 8,202	5,386 103,743 67,947	17.988 793 3.887 3.565	2,601 7,862 1,404 756 2,727	2,885 3,181 2,181 1,083 13,434	4,737 109,263 103,298 116,820
GRANTS AND PAYMENTS TO HOSPITALS		MarDec. Days	580 1,573 324 274	273 762 2,069 1,302	855 12,575 8,236	2,607 126 617 201 566	1,248 1223 126 433	458 505 305 1,947	752 13,244 12,521 14,160
UNA STI		Amount	\$ 571 2,217 392 498	535 386 2,350 2,895	922 17,712 11,023	3,366 590 1,108 795 604	1,118 1,118 212 31 128	646 464 2,304	716 17,719 16,912 18,532
B		JanFeb Days	396 396 396 89	90 65 395 174 517	155 2,460 1,531	526 107 142 142	188 188 188 188 188 188 188 188 188 188	122 83 46 360	128 2,461 2,574
TABLE No. 11		Approved Hospitals	Athabasca, Municipal Banff, Mineral Springs Barrhead, St Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Berwyn, Municipal Blairmore, Crows Nest Pass Municipal Bonnyville, Katherine H. Prittie Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgray, 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 Clareshoim, Municipal Coaldale, Community Cold Lake, John Neil Consort, Municipal	Coronation, Municipal Daysland, Providence Desmarais, St. Martin's Didsbury, Municipal Drumheller, Municipal	Eckville, Municipal Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra

453,467 29,013 38,139 5,214 8,090	22.217 12.198 *6,482 512 *7,022	$\begin{array}{c} 11.144 \\ 10.268 \\ 52.812 \\ 3.957 \\ 26.258 \end{array}$	16,577 38,409 30,817 21,367 6,531	8.978 18.854 25.881 38.404 46.799	94,664 154,185 37,492 22,147 10,204	* 8,502 12,841 24,207 111,229 111,229	17,739 10,040 2,014 6,925 6,925
188,097 6,180 20,439 1,275 2,845	6,697 5,089 2,008 2,117	3.309 4,489 17.751 9,447	5,681 11,320 7,867 5,819 2,183	1,097 5,202 7,739 10,828 22,474	41.724 49.914 12.723 6.074 3.313	1,890 4,057 8,413 41,301	11,246 5,486 8,285 2,283
20,131 802 2,775 204 412	915 673 297 310	471 617 2,417 1,257	1,508 1,508 1,094 298	170 688 1.079 1.484 2.831	5,451 6,550 1,753 818 453	288 545 5,131 5,189	1,529 752 1,142 302
25,275 1,150 3,211 291 291	972 894 250 265	432 2,643 1,582	830 1,876 1,072 833 339	51 911 1,136 1,596 3,152	4,589 5,496 1,757 492	230 668 5,910	1,822 878 1,145 394
10,110 677 2,072 59 188	572 577 200 212	279 454 1,555 53 931	1,104 1,104 631 490 219	33 536 733 1,704	2,481 2,971 1,034 639 318	184 431 3,195	1.176 567 674 232
140,4814,64315,1892,2232,223	5,046 3,836 1,584 1,794	2,154 2,973 13,078 6,942	4,088 8,479 5,134 4,403 1,581	850 3,559 5,052 7,238 16,615	31,029 34,472 9,639 4,529 2,557	1,152 3,036 6,205 30,097	7,755 3,572 6,205 1,650
17,028 737 2,411 59 353	801 609 264 299	342 472 2.076 63 1,102	1,346 1,346 815 899 251	135 565 802 1,149 2,408	4.497 4.996 1.530 719 406	192 482 4,362	1,231 567 985 262
22,341 386 2,038 812 330	678 358 174 58	722 812 2,028 922	761 963 1,660 583 263	196 731 1,551 1,993 2,707	6,105 9,945 1,326 1,326 263	508 352 868 5,292	1,668 1,036 934 238
3,103 65 364 145 59	114 64 33 11	129 145 341 44 155	136 162 279 98 47	35 277 335 423	954 1,554 223 99 47	96 63 146 827	298 185 157 40
Edmonton, University Edson, St. John's Elk Point, Municipal Enora, Municipal Empress, Municipal	Fairview, Municipal Fort McLeod, Municipal Fort McMurray, St. Gabriel's Fort Smith, N.W.T., General 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 Lloydminster, Lloydminster McLennan, Sacred Heart Magrath, Municipal	Manning, Battle River Mannville, Municipal Mayerthorpe, Municipal Medicine Hat, General Medicine Hat, Isolation	Mundare, General Myrnam, Municipal Nordegg, General Olds, Municipal Oyen, Municipal

				Pension Benefits	Benefits		110		
Approved Hospitals	JanFeb. Days	Amount	Days MarDec.	Amount	Special Services Days MarDec.	Amount	Total Days	Total Amount	Total Payment
Peace River, Municipal Pincher Creek, St. Vincent's Pomoka, Municipal Provost, Municipal Radway, St. Joseph's	116 34 37 37 97	481 690 543 722	592 904 838 838 524	3,729 5,695 5,682 5,682 3,279	478 656 694 740 504	812 1,115 1,179 1,147 781	673 1,020 936 935 653	5,024 7,500 6,969 4,804	28,143 21,802 26,972 15,518 13,129
Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, George McDougall	31 579 252 136 111	3,705 3,705 1,499 761 621	239 2,701 1,005 1,034 484	1,505 18,636 6,331 6,514 3,049	204 2,164 839 839 472	316 4,003 1,513 1,300 731	3,280 1,257 1,170 595	1,995 26,345 9,343 8,576 4,402	11,685 82,248 24,688 20,679 11,525
Spirit River, Holy Cross St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Three Hills, Municipal	118 327 327 339	660 2,808 1,945 1,472 232	842 2,046 1,740 669 199	5,304 12,889 10,962 4,214 1,253	780 1,806 1,160 502 178	1,209 3,070 1,972 302	2,518 2,607 932 238	7.174 18.768 14.879 6.465 1.788	20,404 47,611 33,563 31,563
Tofield, Municipal Trochu, St. Mary's Turner Valley, Municipal Two Hills, Municipal Vegreville, St. Joseph's General	204 711 877 1528 728	1,213 397 461 4,659	880 464 404 3,189	5,544 2,923 2,545 5,846 22,004	719 306 254 844 2,424	1,222 474 393 1,434 4,484	1,084 535 491 1,080 3,917	7,980 3,795 3,400 8,185 31,147	
Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal	125 112 113 113 113 113 113 113 113 113	700 627 810 1,862	1,007 819 396 1,595	6,344 5,159 2,494 1,732 10,048	702 760 342 217 1,232	1,088 1,178 530 368 2,094	1,132 931 549 379 1,908	8,132 6,964 3,835 2,720 14,005	
Westlock, Immaculata Wetaskiwin, Community Willingdon, General	786	4,676 702 1,803	4,090 1,552 1,515	25,767 9,777 9,544	2,837 1,150 1,488	4,822 1,955 2,306	4,876 1,670 1,837	35,266 12,434 13,654	
Total for Approved Hospitals	33,071	\$ 215,116	168,363	\$1,228,086	120,709	\$ 245,040	201,434	\$1,688,243	\$4,904,074

BLE No. 11B-GRANTS AND PAYMENTS TO HOSPITAL

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N.A. N.A. <th< th=""><th>Sexsmith</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>\$ 477 5,656 1,931 5,656</th></th<>	Sexsmith									\$ 477 5,656 1,931 5,656
itals 33,071 \$ 215,116 168,363 \$1,228,086 120,709 \$ 245,040 201,434 \$1,688,243 \$4,9 ugary Alberta Red Cross on behalf of 18,822 Orthopaedic days \$ 1,20,709 \$ 245,040 201,434 \$1,688,243 \$4,9 ugary Alberta Red Cross on behalf of 18,822 Orthopaedic days \$ 1,20,709 \$ 245,040 201,434 \$1,688,243 \$4,9 ft. McMuarry, St. Gabriel's, 928 days @ \$1,80 and 377 days @ \$1,30 \$ 1,30 \$ 1,30 \$ 1,30 \$ \$ 1,30 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total for Private Hospitals	N.A	N.A.	N.A.	N.A.	N.A.	N.N.	N.A.	N.A.	\$ 9,088
ldæry Alberta Red Cross on behalf of 18,822 Orthopaedic days llows: Cold Lake, John Niel, 1,179 days @ \$1.80 and 10 days @ \$1.30 Ft. McMuarry, St. Gabriel's, 928 days @ \$1.80 and 317 days @ \$1.30 Ft. Vermilion, St. Theresa, 1,306 days @ \$1.80 and 592 days @ \$1.30 ft. Vermilion, St. Theresa, 1,306 days @ \$1.80 and 272 days @ \$1.30 naning, Battle River, 1,506 days @ \$1.80 and 272 days @ \$1.30 nsioners in Mackin Hospital. Saskatchewan termity cases in border hospitals outside the Province.	Total for all Hospitals	33,071	\$ 215,116	168,363	1 2 2 2 2 2 2	120,709	\$ 245,040	201,434	\$1,688,243	\$4,913,162
	cluded in above: 172.80 paid to Calgary Alberta Red Cross on behalf of ost Grants as follows: Cold Lake, John Niel, 1,179 day Ft. McMuarry, St. Gabriel's, 928 Ft. Vermilion, St. Theresa, 1,306 Ft. Vermilion, St. Theresa, 1,306 ft. Verming, Battle River, 1,506 da italization of Pensioners in Macklin Hospital, Saskatch oitalization of Maternity cases in border hospitals outsi italization of Maternity cases in hospitals not having m	18.822 Orth rs @ \$1.80 at 8 days @ \$1.80 days @ \$1.80 ays @ \$1.80 hewan the Pro naternity ag	opaedic days nd 109 days 1.80 and 317 1.80 and 592 and 272 day vince.	@ \$1.30 days @ \$1 days @ \$1 s @ \$1.30	30					\$ 45.172 2.263 3.120 3.1064 479 479 25 25

Provincial-Muncipal Hospitalization Programme

The Provincial-Municipal Hospitalization Programme is administered under the authority of the Hospitals Act, which provides that the Provincial Department of Public Health may pay a hospitalization grant to the board of any municipal hospital district, or to the local authority of any municipality which provides for the hospitalization of its ratepayers and its contract holders at a direct cost to the patient of not more than one dollar a day for standard ward care. The Provincial Department of Public Health may also pay a special hospital services grant to the board of any municipal hospital district or to the local authority of any municipality which has entered into an agreement with an approved hospital to pay for the cost of special hospital services, as laid down by Provincial regulations, provided to its ratepayers and contract holders. The latter part of the programme, pertaining to special hospital services, came into effect July 1st, 1953. Therefore the amounts shown in Table 12 are for a period of six months or less, depending on the date the local authority made the service available. Many municipalities, not having budgeted for this expenditure, waited until the beginning of 1954 to participate in this phase of the programme.

If the price of a non-ratepayer's contract for standard ward care does not exceed \$8.00 (or \$10.00 in Edmonton, and Calgary) for either an individual or a family, the local authority or municipal hospital district will be reimbursed by the province on a monthly basis. A few areas sell contracts for standard ward care at higher rates, and they must wait until the end of the year for payment on behalf of contract holders, following a review of their accounts. Payments on behalf of contract holders to such areas are listed separately at the end of Table 12.

The price of a special hospital services contract is \$4.00 per year where the service is provided by a Group A or B hospital; otherwise it is \$2.00 per year. Many local authorities sell a combined contract covering both standard ward care and special hospital services.

The Provincial-Municipal Hospitalization Plan provides for hospitalization as long as active treatment care is required.

Ordinarily, this service is provided in the Patient's local hospital. However, it was realized that it was essential to provide service in other than the local hospital for patients requiring emergent or referral services, and consequently this provision was made.

The plan for standard ward care is now in effect in municipalities and hospital districts which contain 92% of the population of the province, outside of National Parks and Indian Reserves. The foregoing is based on the distribution of population as given by the Dominion Census of June, 1951. As at December 31st, 1953, 37.4% of this group were in areas where special hospital services were also provided.

It is of interest to note that the length of stay in hospitals of patients provided with standard ward care for a dollar per day has remained the same at 7.6 days since the Plan went into effect in 1950.

Due to the possession of other hospital insurance, lack of knowledge about the Plan, or indifference, there are still many nonratepayers who have not purchased hospital contracts. In 1953, of the total number of hospitalized in-patients, 28.3% were residents of the Province not receiving benefits under any Provincial legislation for hospitalization. The corresponding percentage in 1952 was 37.7, indicating that as time goes on, more and more people are availing themselves to this type of hospitalization coverage.

Grants paid or payable to local authorities by the Province for hospitalization under the Provincial-Municipal Plan in 1953 amounted to \$2,043,896.99. This was an increase of \$727,065.69 over 1952. Part of this increase, namely \$131,889.00 was paid on behalf of special hospital services. The remainder was due to increased utilization and higher grant rates as a result of increased hospital costs.

For persons having both standard ward and special services coverage, the hospital received an average amount of \$10.35 per patient day, including the per diem allowance. This was made up as follows: \$1.41 from the patient, \$.70 from the Province, \$8.24 from the local authority for which it is reimbursed 50% by the Province. In addition, the patient would have paid for any difference between standard ward rates and the price of private or semi-private accommodation, if the latter was requested.

The standard ward rates as established by Provincial regulations for Provincial-Municipal Hospitalization Plan were increased, effective April 1st, 1953 to the following:

Group A Hospitals	\$8.25	per	day
Group B Hospitals	\$6.90	per	day
Group C and D Hospitals	\$6.30	per	day
Group E Hospitals	\$6.00	per	day

The patient pays \$1.00 of the above amounts and the remainder is paid by the municipal hospital district or local municipal authority which is later reimbursed 50% by the Province. The rates for special hospital services were established as follows when this part of the programme came into being on July 1st, 1953:

Group A Hospitals	\$4.00	per	day
Group B Hospitals	\$3.20	per	day
Group C Hospitals	\$2.40	per	day
Group D Hospitals	\$2.00	per	day
Group E Hospitals	\$1.20	per	day

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The patient pays 25% of the above amounts, and the remainder is paid by the municipal hospital district or local municipal authority, which is later reimbursed 50% by the Province.

The following table gives the details of the amounts paid to individual municipal hospital districts and local municipal authorities.

	Total	Days Amount	486 \$ 1.167.90 5,142 14,405.50 2.751.30 1,120 2.751.30 680.00 3,959 9,557.30 3.557.30	166 380.25 736 2.021.00 1,559 4,206.30 1,502 3,622.00 2,450 6,606.65	29 76.85 3.176 7.384.65 1,391 3,600.40 2,453 8,029.43 1,921 4,570.10	7.725 18,649.65 322 878.50 45 105.90 1,091 2,976.85 33,642 112,451.94	48,368 161,817.27 1,966 5,909.43 16,956 54,844.40 6,969 19,048.50 3,300 9,041.40	4.921 11,834.50 2,776 6,629.00 1,377 3,287.25 117 3,287.25 5,927 14,795.45	2,386 5,817.20 2,953 6,968.35 6,968.35
TROS	ervices†	Amount	\$ 1,939.50	420.75 760.50					
CRITTES,	Special Services	Days	2,155	561 1,014				· · · · · · · · · · · · · · · · · · ·	
ALIZATION PAYMENTS TO LOCAL AUTHORITIES,	16 Years	Amount	\$ 295.95 2,554.10 295.15 117.65 1,480.80	101.45 247.75 699.80 724.90 966.75	16.75 1.968.05 896.10 2.303.35 1,016.60	4,426.05 78.10 586.20 17,069.43	30,192.03 979.40 13,204.13 2,393.90 995.20	2,223.15 1,154.75 716.40 1,716.75	708.95 1,098.75 2.300.40
TOT STN	Age Under 16 Years	Days	1,246 1,246 140 53 717	56 337 362 498	997 388 183 196	2,181 34 2,52 5,847	10,347 375 4,587 1,038 1,038	1,110 571 560 837 837	349 561 1.128
ION FAYME	Years and Over	Amount	\$ 871.95 9.911.90 2.456.15 562.35 8.076.50	278.80 1,773.25 3,085.75 2,897.10 4,879.40	60.10 5,416.60 2,704.30 5,726.08 3,553.50	14,223.60 800.40 2,390.65 95,382.51	131,625.24 131,625.24 41,640.27 16,654.60 8,046.20	9,611.35 5,474.25 2,570.85 162.40 13,078.70	5,108.25 5,869.60 13 030 25
TALIZAT	Age 16 Year	Days	335 3,896 980 3,242 3,242	110 629 1.222 1.140	22 2,179 1,670 1,425	5,544 288 30 839 27,795	38,021 1,591 1,2369 5,931 2,868	3,811 2,205 1,017 5,090	2,037 2,392 5,063
Jeon-2	-feqi: adfro	Vo. ol Partic M gni	22222	22222	88888	11111 11111	22222	22222	888
TABLE No. 12-HUSFIT		Local Authority	Andrew, Village Athabasca, Municipal Hospital District Barrhead, Town Bashaw, Village Bassano, Municipal Hospital District	Bawif, Village Beaver, Municipal District Beaverlodge, Municipal Hospital District Bentley, Municipal Hospital District Berwyn, Municipal Hospital District	Bittern Lake, Village Bonnyville, Municipal District Bow Island, Municipal District Bowness, Town Boyle, Municipal Hospital District	Brooks, Municipal Hospital District Bruderheim, Village Burdett, Village Burlington, Municipal District Calgary, City with Holy Cross	Calgary, City with Calgary General Calgary, City Emergency and Referrals Calgary, Rural Municipal Hospital District Camrose, Municipal District Camrose, Town	Cardston, Municipal Hospital District Castor, Municipal Hospital District Cereal, Municipal Hospital District Chipman, Village Claresholm, Municipal Hospital District	Consort, Municiual Hospital District Coronation, Municipal Hospital District Crow's Nest Pass Municipal Hospital District

TABLE No. 12-HOSPITALIZATION PAYMENTS TO LOCAL AUTHORITIES, 1953

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10,485.95 3,296.70	11,459,95 43,614,40 86,812,95 84,309,09 136,199,52	130,096.02 1,167.11 11,253.15 10,180.50 3,261.70	4,398.65 18,872.35 118.70 26,257.80 2,058.65	681.60 206.50 324.70 4.266.30 717.05	$\begin{array}{c} 35.927.90\\ 11.264.75\\ 22.525.90\\ 22.524.65\\ 4.553.85\end{array}$	15,162.55 3,051.80 7,218.85 749.30 515.20	981.40 21,503.20 1,928.75 26,414.05 34,766.05	$\begin{array}{c} 6,131.41\\ 60,409.55\\ 27,580.20\\ 2,841.95\\ 4,334.20\end{array}$
4.276 1,299	4,133 13,442 21,082 21,143 35,406	32,210 360 4,933 4,223 1,291	1,838 6,527 9,673 7,62	333 132 161 1,625 293	13,288 4,555 7,884 1,938	6,076 1,200 2,698 2266 227	472 8.794 8.794 10,168 8.745	1,868 22,215 10,070 1,223 1,528
	$\begin{array}{c} 1.359.90\\ 6.839.70\\ 15.964.50\\ 14.079.00\\ 21,628.50\end{array}$	21,942.00	2,636.10	22.50	3,573.00 2,839.50	195.00 739.50 108.00	6,247.20	
	1,511 5,701 9,386 14,419	14,628 192	2,929	30	4,003	260 986 120	4,318	
2,420.35	$\begin{array}{c} 1.964.80\\ 5.701.85\\ 11.706.55\\ 10.318.66\\ 31.259.81\end{array}$	10.957.60 213.65 3.529.00 2.049.35 231.45	2,238.40 2,238.40 5,375.10 486.00	173.40 70.00 1.071.20 89.55	5.896.85 1.657.25 374.90 1.714.00 823.65	1,855.85 1,202.25 136.45 20.35	193.80 3.737.25 6.011.30 4.969.65	$\begin{array}{c} 1.663.22\\ 11.451.35\\ 4.272.75\\ 296.45\end{array}$
1,216 259	962 2,443 3,989 3,627 11,007	3,802 97 1,808 1,012 120	1,082 1,082 7 2,691 203	102 56 547 45	2,869 811 154 842 405	910 152 609 611	114 1.821 59 2.751 1.742	577 4,923 1,839 344 121
8,065.60	8,135.25 31,072.85 59,141.90 59,911.43 83,311.21	97,196,42 759,36 7,724,15 8,131,15 3,030,25	$3,612.50\\13,997.85\\102.35\\17,601.15\\1,572.65$	$\begin{array}{c} 508.20\\ 114.00\\ 224.40\\ 2.704.60\\ 627.50\end{array}$	26,458.05 9,607.50 211.00 17,971.15 3,730.20	13,306,70 2,566,60 5,277,10 494,85	$\begin{array}{c} 787.60\\ 17,765.95\\ 1,789.40\\ 20,402.75\\ 23,549.20\\ \end{array}$	4,468.19 48,958.20 23,307.45 2,176.75 4,037.75
3,060	3.171 10.999 17.093 17.516 24.399	28,408 263 3,211 3,211 1,171	1,442 5,445 6,982 559	231 76 1,078 248	10,419 3,744 7,042 1,533	5,166 1,048 2,089 201 216	358 6,973 628 7,417 7,003	1,291 17,292 8,231 1,407
12	11111	22222	<u>88888</u>	11111	121212	22222	11111	1212121
Daysland, Municipal Hospital District Delburne, Municipal Hospital District	Didsbury, Municipal Hospital District Drumheller, Municipal Hospital District Edmonton, City with General Edmonton, City with Misericordia Edmonton, City with Royal Alexandra	Edmonton, City with University Edmonton, City Emergency and Referrals Eckville, Municipal Hospital District Elk Point, Municipal Hospital District Elnora, Municipal Hospital District	Empress, Municipal Hospital District Fairview, Municipal Hospital District Ferintosh, Village Flagstaff, Municipal District Foremost, Village	*Forestburg, Village •Galahad Village Girouxville, Village Glendon, Municipal Hospital District Granum, Town	Grande Prairie, Municipal Hospital District Hanna, Municipal Hospital District Hay Lakes, Village High River, Municipal Hospital District *Hughenden, Municipal Hospital District	Innisfail, Municipal Hospital District Irma, Municipal Hospital District Islay, Municipal Hospital District *Killam, Village Kitscoty, Village	Lac La Biche, Town Lacombe, Municipal Hospital District Lamont, Village Lamont, Municipal District Leduc, Municipal District	Leduc, Town Lethbridge, M.H.D. with St. Michale's Lethbridge, M.H.D. with Galt Lethbridge, M.H.D. with Coaldale Lethbridge, M.H.D. Emergency and Referrals

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DEPARTMENT OF PUBLIC HEALTH

Total	Amount	\$ 3,331.50 27,203.20 574.00 6,593.90 666.45	6.091.15 5.977.70 5.977.70 4.632.60 4.069.45 1.866.30	29,602.65 330.31 88.70 19,653.37 932.90	5.351.15 8,470.95 8,470.95	5,461.00 5,979.20 3,634.95 4,704.55 2,241.40	5.221.10 228.20 1,753.66 1,753.66 4,899.50	17,480.10 7.251.46 869.15 7,749.40 4,861.50
	Days	1,333 9,540 246 2,494 296	2.171 2.074 1.769 1.676 811	10,645 117 42 6,300 437	173 2,279 4,369 2,203 3,689	2.339 2.469 1.423 2.042 1.035	2,001 80 601 1,839	6,224 2,143 311 3,240 2,018
Special Services†	Amount	\$ 3,577.50 685.50	941.40	15.00			576.75	2,233.80
Special 5	Days	3,975	1,126 1,046	10			769	2,482
Age Under 16 Years	Amount	\$ 211.00 3.068.90 214.25 1.177.55 93.05	1.163.80 1.288.25 973.70 571.90 725.35	2,871,25 19.35 37.00 4,387.90 96.90	1,473.00 2,690.60 1,072.85 2,577.20	1,401.40 1,493.20 584.80 882.70 709.85	1,354.60 135.60 113.55 1,794.80 698.50	3,040.10 854.57 96.15 2,111.00 1,133.00
r Age Under	Days	104 1,510 103 586 49	560 613 429 284 356	$1.209 \\ 9 \\ 1.589 \\ 1.589 \\ 57 \\ 57 \\ 1.89 \\ 57 \\ 57 \\ 57 \\ 57 \\ 57 \\ 57 \\ 57 \\ 5$	636 1,150 1,291	713 722 772 773 779 379	683 6 55 868 344	1,462 295 1,036 550
Years and Over	Amount	\$ 3,120.50 20,556.80 4,730.85 573.40	4,082.85 3,748.05 3,658.90 3,497.55 1,140.95	26,731.40 295.96 295.96 15,265.47 836.00	$\begin{array}{c} 500.45\\ 4.588.45\\ 9.510.65\\ 4.278.30\\ 5.893.75\end{array}$	4,059.60 4,486.00 3,050.15 3,821.85 1,531.55	$\begin{array}{r} & 3.289.75 \\ & 2.14.70 \\ & 1.640.58 \\ & 10.529.55 \\ & 4.201.00 \end{array}$	$\begin{array}{c} 12.206.20\\ 6.396.89\\ 773.00\\ 5.638.40\\ 3.728.50\end{array}$
Age 16 Yea	Days	1,229 8,030 143 1,908 247	1,611 1,461 1,340 1,392 1,392	9,436 108 122 4,711 380	173 1,643 3,219 1,680 2,398	1,626 1,747 1,151 1,569 656	1.318 74 546 4.119 1.495	4,762 1,848 2,204 1,468
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No. of Partic M ani	22222	22222	169191	111111	22 ⁶ 22	22222	22222
	Local Authority	Little Bow, Municipal Hospital District Lloydminster, Municipal Hospital District Lougheed, Village Magrath, Municipal Hospital District Manning, Village	Mannville, Municipal Hospital District Mayerthorpe, Municipal Hospital District Minburn, Municipal District Macleod, Municipal Hospital District McLennan, Town	Medicine Hat, City Millet, Village Milo, Village Morinville, Municipal District Mundare, Town	Municipal Affairs, S.A. No. 2 and No. 3 Municipal Affairs, I.D. No. 11, No. 21 and No. 22 Municipal Affairs, I.D. No. 76 and No. 77 Municipal Affairs, I. D. No. 78 and No. 95 Municipal Affairs, I.D. No. 101	Municipal Affairs, I.D. No. 102 Municipal Affairs, I.D. No. 107 and No. 108 Municipal Affairs, I.D. No. 125 and No. 126 Municipal Affairs, I.D. No. 138 and No. 146 Municipal Affairs, I.D. No. 137	Myrmam, Municipal Hospital District New Norway, Village Okotoks, Town Olds, Municipal Hospital District Oyen, Municipal Hospital District	Peace River, Municipal Hospital District Pembina, Municipal District Penhold, Village Pincher Creek, Municipal District Pincher Creek, Town

Table 12-Continued

9,232.10 15,600.15 1,118.00 400.30 654.75	195.25 371.85 557.10 186.50 5,670.25	2,736.55 30,592.70 8,807.60 7,927.00 2,156.70	11,853.20 15,458.80 12,188.90 20,474.85 26,725.00	1,729.21 21,780.20 21,221.29 516.85 14,749.99	2.173.50 10.813.75 205.40 5.738.00	9,424,95 4,626,90 4,837,20 9,000,75 24,098,80	14.338.70 17.290.45 12.265.55 12.406.25 1,184.55
3,795 6,333 6,333 204 204 261	91 170 258 277 2,284	11,312 3,584 3,284 705	4,942 6,783 5,959 9,210 9,492	5,522 5,522 5,522 5,522 702 4,700	4,541 4,541 71 2,028	3,921 2,212 3,685 9,037	5,152 6,236 5,027 5,041 511
		386.55	3,423.60	3,508.50 3,501.00 19.80	21.75 15.00 719.10		2,206.50
11111		431	3,804	2,339 2,399 22	26 10 799		2,151
1,311.25 3,137.10 251.40 85.40 122.55	129.60 298.55 326.10 659.10	$\begin{array}{c} 400.50\\ 5,823.45\\ 1,312.20\\ 1,769.35\\ 219.90\end{array}$	$\begin{array}{c} 1.760.45\\ 4.688.00\\ 2.499.30\\ 6.521.70\\ 3.980.75\end{array}$	168.99 3,123.81 53.20 2,858.08	359.35 2,137.15 19.35 73.45 634.90	1,420.95 814.30 814.30 667.85 6,454.90	1,160.30 2,944.15 2,369.55 1,934.00 217.00
662 1,512 132 70 57	63 142 165 330	2.541 636 860 105	889 2,595 3,429 1,933	55 1,210 1,113 1,055	1,070 1,070 30 302	693 479 337 869 2,807	574 1,460 1,143 952 116
$\begin{array}{c} 7.920.85\\ 12.463.05\\ 866.60\\ 314.90\\ 532.20\\ \end{array}$	65.65 73.30 231.00 186.50 5,011.15	2,336.05 24,769.25 7,495.40 6,157.65 1,550.25	10,092.75 10,770.80 9,689.60 13,953.15 19,320.65	$\begin{array}{c} 1.560.22\\ 14.748.70\\ 14.596.48\\ 443.85\\ 11.891.91\end{array}$	$\begin{array}{c} 1,814.15\\ 8,676.60\\ 164.30\\ 409.65\\ 4,384.00 \end{array}$	8,004,00 3,812,60 4,169,35 7,195,10 17,643,90	$\begin{array}{c} 11.565.15\\ 12,139.80\\ 9,896.00\\ 10,472.25\\ 967.55\end{array}$
3,133 4,821 344 134 204	28 28 28 1,954	819 8,771 2,424 600	4,053 4,162 5,781 7,559	449 4,312 176 3,645	$ \begin{array}{c} 641\\ 3,471\\ 1,726\\ 1,726\end{array} $	3,228 1,733 1,639 6,230 6,230	4.578 4.776 3.884 4.089 3.95
22222	111111	22222	111111	1111111	516-515 516-515	22222	222222
Provost. Municipal Hospital District Ponoka, Municipal Hospital District Provost. Municipal District Public Welfare, Metis Colony No. 1 Public Welfare, Metis Colony No. 3	Public Welfare, Metis Colony No. 78 Public Welfare, Metis Colony No. 8 Public Welfare, Metis Colony No. 10 Radway, Village Raymond, Municipal Hospital District	Redcliff, Town Red Deer, Municipal Hospital District Rimbey, Municipal Hospital District Rocky Mountain House, Municipal Hospital District Sedgewick, Village	Smoky Lake, Municipal District Smoky River, Municipal District Spirit River, Municipal Hospital District *St. Paul, Municipal Hospital District *Stettler, Municipal Hospital District	Stony Plain, Town Stony Plain, Municipal District Stratheona, Municipal District Strome, Village Sturgeon, Municipal District	Sylvan Lake, Town Taber, Municipal Hospital District Thorhild, Village Thorsby, Village Tofield, Municipal Hospital District	Turner Valley, Municipal Hospital District Trochu, Municipal Hospital District Three Hills, 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 •Westlock, Town

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		6	Table 12-Continued	ntinued					
	-tsqi sdfno	Age 16 Yea	ge 16 Years and Over	Age Unde	Age Under 16 Years	Special S	Special Services†	To	Total
70c PER DIEM GRANT	Vo. of Partic M ani	Days	Amount	Days	Amount	Days	Amount	Days	Amount
Westlock, Municipal District Wetaskiwin, City Wetaskiwin, Municipal District Willingdon, Municipal Hospital District	121212	8.343 1.770 3.337 1.788	\$ 21,226.65 4,585.35 8,597.45 4,561.20	2,406 431 817 948	\$ 4,813.20 898.45 1,700.35 1,975.55	1,015	\$ 913.50 1,424.70	10,749 2,201 4,154 2,736	\$ 26,039.85 6,397.30 11,722.50 6,536.75
Total		536,023	\$1,556,873.85	148,896	\$ 350,837.81	108.549	\$ 131,889.00	684.919	\$2,039,600.66
*Plus settlement on behalf of Contract Holders where contracts were sold for more than \$8.00 per year: Perstburg, Village Galahad, Village Hughenden, Municipal Hospital District Killam, Village Macleod, Municipal Hospital District Stettler, Municipal Hospital District Viking, Municipal Hospital District Viking, Municipal Hospital District Westlock, Town Wetaskiwin, Municipal District			······································		ø		۶۶ ۲		\$ 153.30 9.00 204.00 82.80 9.35.70 9.35.70 1.698.73 2.41.60 322.40 6.38.60 6.38.60
GRAND TOTAL		536,023	\$1,556,873.85	148,896	\$ 350,837.81	108.549	\$ 131,889.00	684.919	\$2,043,896.99
†In effect for not more than 6 months of the year.					1				

Maternity Hospitalization Programme

The Alberta maternity hospitalization programme is administered under the Authority of the Maternity Hospitalization Act, which provides the following for women who are residents of the Province or whose husbands are residents of the Province: (a) hospital care for the infant, and for the mother, in a public ward, up to a maximum of twelve days for any one confinement, in an Alberta Hospital; (b) a grant to any woman who is confined in a hospital outside the Province who resides in an area where an Alberta hospital is not available. In addition, to the foregoing a grant of \$40.00 may be paid to a woman who provides for her own maternity services in her home.

Of all live births in the Province in 1953, 96.0% occurred in approved hospitals. The Province expended \$1,955,989.95 for maternity hospitalization and \$4,880.00 to 122 mothers who were confined at home. For maternity hospitalization the Province pays the hospital the standard ward rate plus a certain amount per case for the provision of routine maternity services.

The per case payment varies according to the class of hospital, and is as follows:

Group A Hospital	\$18.00 per case discharged
Group B Hospital	\$13.00 per case discharged
Group C Hospital	\$11.00 per case discharged
Group D Hospital	\$ 9.00 per case discharged
	\$ 7.00 per case discharged

The above rates came into effect March 1st, 1953. The details of mounts paid to individual hospitals may be found in the Section "Alberta Approved Hospitals."

Hospitalization and Treatment Services Programme for Provincial Pension Groups

The programme of health care for the Provincial Pension Group is administed under the authority of the Hospitalization and Treatment Services Act. The Pension Group includes the following:

- (a) recipients of assistance under the Old Age Assistance Act, and dependents.
- (b) recipients of an allowance under the Mothers Allowance Act, and dependents.
- (c) recipients of an allowance under the Supplementary Allowance Act, and dependents.
- (d) recipients of a pension under the Widows Pension Act, and dependents.
- (e) recipients of Old Age Security, with an income not exceeding \$1,000.00 a year if single, or \$1,500.00 a year if married, including the Old Age Security Pension.

The health services provided include hospitalization for persons requiring active treatment care, medical services, dental services, optical services and other treatment services recommended by a physician and approved by the Director of Medical Services. At December 31st, 1953, the Pension Group comprised the following:

house with mitter in Reads. grandal	Recipients	Spouses	Dependent Children	Total
Old Age Assistance	4,853	876	194	5,923
Mothers Allowance	1,548		3,775	5,323
Supplementary Allowance for Old Age Security (A)	18,176	1.860	249	20,285
For Blind Pension	374	104	117	595
Widows Pensions	632		2	634
Oid Age Security (B)	181			181
TOTAL	25,764	2,840	4,337	32,941
				and the second second

The average number in the group for the year was 32,595. Expenditures on behalf of the group were as follows:

Hospitalization	\$1,688,243.45
Medical	488,343.25
Dental	123,385.04
Optical and Optometric	62,975.82
Other treatment services	2,053.00
TOTAL	\$2,365,000.56

Average expenditure per capita in the group was \$72.56.

1. Hospitalization of Pension Group.

Where active treatment care is required, hospitalization includes standard ward care and all special hospital services provided by the hospital, with the following exceptions, for which the hospital may charge the patient: Cortisone or ACTH, Judet or Eicher heads, colostomy or ileostomy outfits, cortate or estrogen implants, heparin in all trade forms, and new drugs placed on the market subsequent to March 1st, 1953.

During 1953 hospitalization was provided for a total of 201,434 patients days, or an average of 6.2 days for every individual eligible for service. The following table shows the number of individuals hospitalized, compared with the number eligible for service.

	Average Eligible	Number Hospital- ized	% of Eligible	Average Stay in Hospital
Old Age Group Mothers Allowance Blind Pension Widows Allowance	26,348 5,189 645 575	$12,468 \\ 963 \\ 284 \\ 206$	$47.3 \\ 18.6 \\ 44.0 \\ 35.8$	16.2 days 7.6 days 14.4 days 12.2 days
	32,757	13,921	42.5%	15.5 days

For hospitalization of the pension group the Province pays the hospital the standard ward rate plus a daily payment for the first 20 days following admission to cover the cost of providing special hospital services.

The amount of this payment varies according to the class of hospital as follows:

Group A Hospital	\$2.50 per day up to 20 days
Group B Hospital	\$1.85 per day up to 20 days
Group C Hospital	\$1.70 per day up to 20 days
Group D Hospital	\$1.55 per day up to 20 days
Group E Hospital	\$1.25 per day up to 20 days

The above rates came into effect March 1st, 1953. The details of amounts paid to individual hospitals may be found in the section "Alberta Approved Hospitals".

2. Medical Care of Pension Group.

The Province pays the Alberta College of Physicians and Surgeons a per capita amount each month, based on the total number of recipients and dependents eligible for service, for the provision of complete medical care to those in the group. The per capita payment was \$1.25 per month. The total cost of this service to the Province in 1953 was \$488,343.25.

3. Dental Services for Pension Group.

The Province pays the Alberta Dental Association a per capita amount each month, based on the total number of recipients and dependents eligible for service, for the provision of dental services to the pension group. The per capita payment was increased from 26¼ to 33 1/3 cents per month, effective April 1st, 1953. The total cost of this service to the Province in 1953 was \$123,385.04. The dental services provided consist of routine dental care, one-half the cost of new dentures (excluding posterior bridge-work and orthodontia.)

The following table shows the number of claims for dental services as compared to the number eligible for such service.

UTILIZATION OF DENTAL SERVICES

Old Age Group Mothers Allowance Blind Pension Widows Allowance	Average Eligible 26,348 5,189 645 575	Number of Claims 3,001 2,085 155 104	% of Eligible 11.4% 40.2% 24.0% 18.1%
TOTAL	32,757	5,355	16.3%
		and the second se	and the second s

The high proportion of children in the Mothers Allowance Group accounts for the high rate of utilization of 40.2%.

4. Optical Services for the Pension Group.

Optical services provide for refraction and glasses on the recommendation of an eye specialist or an optometrist and on the approval of the Director of Medical Services.

Records for this particular service are kept on a fiscal year basis, and the following data pertains to 1953-54. A total of 5,096 accounts for glasses were approved and paid for, an expenditure of \$45,355.82. Of these, 3,969 refractions were made by optometrists, and the remainder were done by medical eye specialists. The total amount paid out for optometric service was \$17,620.00. Payment to the medical eye specialist is a part of the over-all medical programme, and no separate information is available for this phase of the programme.

5. Other Treatment Services for Pension Group.

Other treatment services may be provided on the recommendation of the patient's physician and the approval of the Director of Medical Services. Services provided include such things as physiotherapy, nursing services, chiropody, and chiropractic. The total amount expended for such services in the fiscal year 1953-54 was \$2,053.00.

Alberta Municipal Hospital Districts

The Municipal Hospitals Act, passed in 1919, made provision for the establishment of Municipal Hospital Districts on the request of

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a Municipal Council or the petition of the ratepayers in any particular area. The provisional board of such a municipal hospital district must draft a hospitalization scheme to provide standard ward care to ratepayers and non-ratepayer contract holders, with their dependents, at a direct cost to the patient of not more than \$1.00 per day, the balance of the cost of providing standard ward care to be provided through a hospital mill rate tax on all real property in the hospital district, plus assistance from Government grants. The scheme may also include provisions for the construction of a hospital, or authority to enter into an agreement with an existing hospital for the hospitalization of ratepayers and contract holders. The scheme subsequently must be approved by 65% of the ratepayers in order to be implemented. Election of a permanent board follows. Effective June, 1950, legislation was passed which provided for a province-wide Provincial-Municipal Hospitalization Programme for the benefit of persons not in Municipal Hospital Districts, as well as those within. Under this legislation the municipal hospital districts and the municipalities not in districts may be reimbursed by the Province 50% of the cost of providing standard ward hospital care.

More recent legislation, effective July 1st, 1953, expanded the programme to allow for the provision of special hospital services, with the Province reimbursing the Municipal Hospital District or municipality concerned 50%. For more details see the section on "Provincial-Municipal Hospitalization Programme".

There are 66 Municipal Hospital Districts in operation in the Province, with 52 of them operating their own hospital. One of these, namely Lloydminster, is located in Saskatchewan. The other 14 districts have hospitalization agreements with other local hospitals. Barrhead Municipal Hospital District No. 67 came into being during the year.

The total assessable acreage under the Municipal Hospital Plan on January 1st, 1954, was 32,460,215 acres, with an assessed value of \$423,449,239.00.

The total requisitions for all municipal hospitals this year was \$2,558,049.76, levied on an average mill rate tax of 6.083 mills. This you will note is an increase from last year's 5.66 mills.

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TABLE No. 13-MUNICIPAL HOSPITAL DISTRICTS, 1953

		t	t		Adults & Childre Days, Plus 1/3 Newborn Days		
		Patient Int.	Patient Int.	×	ys 33	1000	
		nt	ott	Tax	Adults & Child Days, Plus 1/3 Newborn Days	Crib	Debenture Principal Outstanding
		E F	PP		Agu	ü	E. e
		Per I Inc. Dep.	Per J Ecl. Dep.	Minimum	SEE	Bed and Capacity	Idalu
		Per Inc	Fer Ecl Dep	nu	O Po	citi	to de la
		+	12.5	lir	vb.	BBC	stoe
MH		Cost Day, and I	Cost Day, and I	-1	eva	ap	ation
No).	e do	5 A C	R	ADA	CB	DAD
13	Athabasca	\$11.10	\$ 8.43	\$12.00	8,253	42	\$163,860.47
6	Bassano	9.29	8.80	8.00	5,693	26	- And Contraction
32	Beaverlodge	10.24	9.96	6.00	3,103	9	10,785.00
43	Bentley	15.57	11.80	8.00	2,341	16	35,200.00
50	Berwyn	8.07	6.54	10.00	4,093	21	34,000.00
28	Brooks	12,78	11.22	8.00	11,329	64	155,750.00
5	Cardston	12.50	12.06	8.00	7,391	24	
46	Cereal	14.00	12.96	6.00	2,009	9	4,485.00
24	Claresholm	8.24	7.65	10.00	11,265	42	37,890.00
22	Consort	11.62	9.51	6.00	4,250	22	55,700.00
39	Coronation	9.16	8.68	10.00	5,198	18	13,000.00
40	Crows Nest Pass	12.12	9.85	10.00	13,230	72	231,000.00
33	Didsbury	12.25	10.74	6.00	6,660	25	56,654.89
3	Drumheller	11.19	10.80	8.00	22,502	65	200,000.00
30	Eckville	9.95	7.88	10.00	6,797	29	52,087.16
18	Elk Point	8.22	6.56	10.00	12,839	51	126,000.00
44	Elnora	13.84	11.31	8.00	2,333	16	45,400.00
53	Empress	11.63	11.61	10.00	3,825	23	F1 000 00
59	Fairview	8.93	7.80	8.00	8,538	32	51,000.00
57	Glendon	13.75	11.68	10.00	2,862	8 79	48,100.00
14	Grande Prairie	8.43 11.18	7.61	10.00 8.00	23,503	35	55,000.00
11	Hanna Histh Place	9.69	10.41 8.60	6.00	9,915 11,966	30 44	60,000.00 72,000.00
16	High River Innisfail	10.36	9.65	6.00	8,842	28	12,000.00
4	Islay	9.52	9.18	8.00	3,285	13	
54	Lacombe	10.43	9.36	8.00	14.254	50	94,000.00
25	Little Bow	18.58	18.58	6.00	2,530	14	54,000.00
8	Lloydminster	10.00	10.00	9.00	2,000	92	
48	Macleod	14.05	13.35	10.00	5,004	14	7,500.00
29	Magrath	13.35	11.19	6.00	4.055	22	77,500.00
1	Mannville	10.36	9.86	8.00	3,941	15	11,000.00
38	Mayerthorpe	13.50	11.90	12.00	7,626	20	80,951.92
23	Myrnam	15.82	14.94	10.00	3,429	13	468.35
26	Olds	9.84	8.95	8.00	9,847	31	74.903.67
35	Oyen	13.62	12.68	8.00	2.497	17	44,695.19
21	Peace River	9.99	9.04	8.00	12,543	37	49,000.00
37	Ponoka	12.65	10.03	10.00	10,180	48	184,413.35
12	Provost	13.76	11.28	8.00	6,615	26	95,000.00
31	Raymond	10.36	9.61	10.00	4,220	18	26,871.29
15	Red Deer	12.35	10.66	8.00	27,132	104	423,808.74
52	Rimbey	11.64	9.90	9.00	8,011	19	116,500.00
49	Rocky Mt. House	8.99	7.95	8.00	6,892	35	116,460.00
20	Stettler	10.53	9.74	16.00	18,956	56	118,500.00
27	Taber	10.37	9.22	6.00	12,425	37	310,185.53
45	Three Hills	18.04	14.65	8.00	3,907	25	81,350.00
47	Tofield	10.68	8.75	10.00	5,984	21	90,251.39
66	Turner Valley	11.43	11.22	8.00	6.086	13	10,000.00
42	Two Hills	11.19	9.67	10.00	6,365	25	81,500.00
2	Vermilion	8.54	7.83	6.00	8,559	37	
10	Viking	10.36	9.25	6.00	8,542	35	112,500.00
19	Vulcan	11.93	10.22	6.00	7,065	37	45,000.00
17	Wainwright	9.96	8.09	9.00	12,596	48	159,000.00

TABLE No. 14-MUNICIPAL HOSPITAL DISTRICTS 1953 REQUISITIONS

.

Contributing Units	Requisitions	Acreage	Assessed Value	Mill Rate	Population
	Athab	asca M.H.D.	No. 13		
M.D. No. 103 L.I.D. No. 107 L.I.D. No. 122 Athabasca	\$ 24,598.73 24.13 448.19 9,405.09	393,833 597 1,052	\$2,742,695.00 2,390.00 50,080.00 1,048,667.00	8.97 8.97 8.97 8.97 8.97	$5,200 \\ 73 \\ 400 \\ 1,068$
	\$ 34,476.14	295,482	\$3,843,832.00		6,741
	Bass	ano M.H.D.	No. 6		
County No. 2 County No. 4 M.D. No. 40 L.I.D. No. 41 S.A. No. 4 Bassano Hussar Rosemary		40,794 21,436		4 4 4 4 4 4 4	$316 \\ 2,054 \\ 348 \\ 85 \\ 10 \\ 625 \\ 139 \\ 195$
	\$ 17,000.00	841,583	\$4,167,380.00		3,772

	TABLE	No. 14-Co	ontinued	ana ar	
Contributing Units	Requisitions	Acreage	Assessed Value	Mill Rate	Population
County No. 1	Beaver \$ 10,010.00	lodge M.H.D	No. 32 \$1,291,570.00	7.75	2.113
Beaverlodge	2,700.00		308.415.00	8.75	514
	\$ 12,710.00		\$1,599.985.00		2,627
	Bent	ley M.H.D.	No. 43		
M.D. No. 43 County No. 3	\$ 14,327.00 516.00	112,633 4,392	\$1,364,510.00 49,140.00	10.5 10.5	1,298 34
Bentley	4,360.00		396,430.00	11	439
	\$ 19,203.00	117,025	\$1,810,080.00		1,771
	Berw	yn M.H.D.	No. 50		
M.D. No. 135	\$ 7,434.00	153,032	\$1,486,879.00	5	1.149
L.I.D. No. 138 L.I.D. No. 139	750.00 533.00	33,002 22,200	150,050.00 106,670.00	55	211 194
Berwyn	1,543.00 2,865.00		220,475.00 573.003.00	75	345 720
Grimshaw		208,234	\$2,537,077.00		2,619
	\$ 13,125.00	208,234	\$2,537,077.00		
		le M.H.D. N			
M.D. No 103 L.I.D. No. 102	\$ 5,500.00 225.00	$136.663 \\ 11,641$	\$1,159,650.00 44,655.00	4.74 5	2.517 184
	\$ 5,725.00	148.304	\$1,204,305.00		2,701
	Broo	ks M.H.D. 1	20 28		
County No. 4	\$ 24.056.00		\$3,007.084.00	8	6,985
S.A. No. 4	1,063.00	57,040	132,895.00	8 8	100
L.I.D. No. 22 Brooks	$133.00 \\ 12,636.00$	6,223	16,680.00 1,579,541.00	8	20 2,500
Duchess Tilley	$1.134.00 \\ 1.116.00$		141,750.00 127,105.00	8 8	210 205
	\$ 40,138.00		\$5,005,055.00		10,090
	Calgary	Rural M.H.	D No 62		
M.D. No. 31	\$ 2,534.00	75.600	\$1,144,450.00	2.2	1,000
M.D. No. 32	2,554.00	114,720	1,277,255.00	2 2	1,000
M.D. No. 40 M.D. No. 43	10,352.00 9,724.00	371,930 404,292	5,175,940.00 4,861,548.00	22	2,550 2,320
M.D. No. 44	19,096.00	408,203	9,548,053.00	2	4,498
M.D. No. 45 M.D. No. 48	8,534.00 5,566.00	90,716 184,000	4.267,186.00 2,783,360.00	22	4.310 1.700
M.D. No. 49 L.I.D. No. 46	8,894.00 8,410.00	290,801	4,446,650.00	2 2	2,514
L.I.D. No. 50	184.00	345,839 22,105	4,204,680.00 92,355.00	2	2,642 270
Gleichen Strathmore	1,268.00 1,440.00	237 991	455,880.00 457,258.00	2.78 3.15	475 700
Acme	770.00	160	272,794.00	2.82	275
Airdrie Beiseker	694.00 976.00	240 254	247,090.00 366,268.00	2.81 2.67	265 325
Cluny	430.00	145	138,673.00	3.10	202
Crossfield	1,088.00 1,182.00	640 204	345,412.00 423,812.00	3.15 2.79	530 446
Irricana Rockyford	404.00 632.00	470 96	134,510.00 224,465.00	3.00	180
Standard	558.00	329	189,815.00	2.81 2.94	246 237
	\$ 85,290.00	2,311,972	\$41,057,444.00		28,660
		ston M.H.D.	No. 5		
M.D. No. 6 M.D. No. 5	\$ 25.302.00 5.705.00	600,000 300,000	\$4,217,120.00 950,850.00	6 6	3,319 500
Cardston	9,614.00	300,000	1,602,336.00	6	2,487
	\$ 40,621.00	900,000	\$6,770,306.00		6,306
	- Cast	tor M.H.D. 1	No. 41		
M.D. No. 53	\$ 6,383.00	344,600	\$2,553,200.00	2.5	1,750
M.D. 54 Castor	818.00 1,703.00	30,584	327,000.00 681,135.00	2.5 2.5	193 850
Halkirk	266.00		106,545.00	2.5	150
	\$ 9,170.00	375,184	\$3,667,880.00		2,943

	TABLE	No. 14-Co	ntinued		
Contributing Units	Requisitions	Acreage	Assessed Value	Mill Rate	Population
	Cerea	1 M.H.D. N	o. 46		
S.A. No. 3 Cereal	\$ 12,340.00 845.00	685,573 60	\$1,366,991.00 93,905.00	9 9	869 135
	\$ 13,185.00	685,573	\$1,460,896.00		1,004
	Claresho	olm M.H.D.	No. 24		
M.D. No. 26 Claresholm Stabely	\$ 19,808.00 6,933.00 1,231.00	336,846	\$5,659,330.00 1,980,860.00 351,619.00	3.5 3.5 3.5	$2,500 \\ 2,750 \\ 400$
	\$ 27,972.00	336,846	\$7,991,809.00		5,650
	Conso	rt M.H.D. N	No. 22		
S.A. No. 3 Consort	\$ 16,550.00 1,950.00	$768,932\\600$	\$2,383,955.00 279,501.00	7 7	1,947 396
	\$ 18,500.00	769,532	\$2,663,456.00		2,343
	Coronat	ion M.H.D.	No. 39		
M.D. No. 53	\$ 8,350.00	360,000	\$2,089,410.00	4	1,550
S.A. No. 2 and 3 Coronation	2,550.00 2,900.00	233,619	640,880.00 652,750.00	4 4.5	700 800
	\$ 13,800.00	593,619	\$3,383,040.00		3,050
	Crows Nes	t Pass M.H	.D. No. 40		
L.I.D. No. 10 Coleman	\$ 43,173.00 9,115.00	46,364	\$5,343,275.00 1,128,215.00	8.08 8.08	4,830 1,961
Blairmore Frank	$13,663.00 \\ 1,427.00$		1,691,027.00 176,659.00	8.08 8.08	1,933 339
	\$ 67,380.00	46,364	\$8,339,176.00		9,063
	Daysla	nd M.H.D.	No. 58		
M.D. No. 63 Daysland	\$ 10,011.00 1,073.00	250,243	\$3,337,190.00 357,609.00	3 3	2,926 475
	\$ 11,048.00	250,243	\$3,694,799.00		3,401
	Delbur	ne M.H.D.	No. 62		
M. D. No. 55 Delburne	\$ 5,950.00 1,550.00	124,840	\$1,288,450.00 335,723.00	$4.68 \\ 4.68$	$1,400 \\ 450$
	\$ 7,500.00	124,840	\$1,624,173.00		1,850
	Didsbu	ry M.H.D.	No. 33		
M.D. No. 49 L.I.D. No. 50 Didsubry	\$ 33,900.00 1,300.00 8,900.00	424,212 43,341 902	\$5,092,160.00 196,485.00 1,261,541.00	7 7 7.5	$3,700 \\ 330 \\ 1,176$
100	\$ 44,100.00	468,455	\$6,550,186.00		5,206
M.D. No. 10		eller M.H.D 143,906			900
M.D. No. 43 M.D. No. 47	\$ 9,170.00 32,690.00	387,439	\$1,585,223.00 5,820,135.00	5.5 5.5	900 2,500
M.D. No. 48 L.I.D. No. 41	17,500.00	19,280 44,526	3,085,547.00 141,390.00	5.5 5.5	2,990 59
L.I.D. No. 41	820.00 29,530.00	45,394	3,800,005.00	5.5	6,500
S.A. No. 2	890.00	21,743	115,400.00	5.5	154
Drumheller Munson	16,860.00 440.00	230 160	2,181,325.00 103,248.00	7.5 3	2,574 95
Morrin	790.00	12	171,760.00	3	220
Rumsey Delia	410.00 1.310.00	29 240	103,210.00 304,778.00	33	121 265
Carbon	1,240.00	170	239,090.00	3	387
	\$111,650.00	663,129	\$17,651.111.00		16,765
	Eckvi	lle M.H.D.	No. 30		
M.D. No. 55	\$ 8,260.00	72,076	\$1,061,830.00	7.78	1,037
M.D. No. 57	3,791.00	68,731	487,240.00	7.78	1,080
M.D. No. 64 L.I.D. No. 65 Eckville	8,352.00 5,099.00 2,968.00	77,842 64,365 80	1,073,420.00 655,340.00 358,528.00	7.78 7.78 8.28	1,010 932 379
	\$ 28,470.00	283,094	\$3,636,358.00		4,438

DEPARTMENT OF PUBLIC HEALTH

	TABI	E No. 14-Co	ontinued		
Contributing Units	Requisitions	Acreage	Assessed Value	Mill Rate	Population
	Elk	Point M.H.D.	No. 18		
M.D. No. 86	\$ 12,389.00	177,282	\$1,238,900.00	10	3,200
M.D. No. 88	1,629.00 2,403.00	32,346 29,469	162,975.00 240,210.00	10 10	150 540
M.D. No. 81 M.D. No. 71	11.580.00	134,102	1,158,070.00	10	1,900
L.I.D. No. 85	310.00	5.655	31,085.00	10	75
Elk Point	4,077.00	195	407,707.00	10	400
	\$ 32,388.00	379,049	\$3,238,947.00		6,265
	Eh	ora M.H.D. M	No. 44		
M.D. No. 55	\$ 12,154.00	131,000	\$1,215,454.00	10	1,301
M.D. No. 48 Elnora	4,245.00 2,254.00	36,000 160	424,515.00 205,880.00	10 11	308 240
	\$ 18,653.00	167,160	\$1,845,849.00		1,849
	Em	press M.H.D.	No. 53		
M.D. No. 34	\$ 7,173.00	132,315	\$ 735,690.00	9.75	475
S.A. No. 3	328.00	8,493	33,660.00	9.75	50
S.A. No. 2 L.I.D. No. 21	8,114.00 945.00	83,643 20.512	842,475.00 96,890.00	9.75 9.75	488 125
Empress	2,969.00	320	304,545.00	9.75	475
	\$ 19,529.00	245,283	\$2,013,260.00		1,613
	Fair	view M.H.D.	No 59		
M.D. No. 136	\$ 10,540.80	207.664	\$2,342,403.00	4.5	2,300
L.I.D. No. 139	5.782.75	205,053	1.285.062.00	4.5	1,927
Fairview	5,674.00	221	945,673.00	6	1,200
Hines Creek	1,178.20	345	235,640.00	5	
	\$ 23,175.75	413,283	\$4,808,778.00		5,541
	Gle	ndon M.H.D.	No. 57		
M.D. No. 88	\$ 12,553.00	68,822	\$ 570,590.00	22	1,600
L.I.D. No. 101	6,840.00	83,197	310,910.00	22	1,241
	\$ 19,393.00	152,019	\$ 881,500.00		2,841
	Grande	Prairie M.H	D No 14		
County No. 1	\$ 30,364.00	690.320	\$6,747,763.00	4.5	7,123
L.I.D. 111, 126, 132,	0 00,001.00		00,111,100.00	1.0	1,120
134	11,821.00	282,158	2,626,975.00	4.5	3,527
Grande Prairie Wembley	15,296.00 913.00	*********	3,399,141.00 202,905.00	4.5 4.5	4,000 275
Sexsmith	11,618.00		359,574.00	4.5	350
Hythe	1,739.00		386,575.00	4.5	350
	\$ 61,753.00	972,307	\$13,722,935.00		15,625
		IN MILD	No 0		
M.D. No. 47	\$ 5.039.96	nna M.H.D. 77,486	No. 9 \$ 704,400.00	8.57	500
M.D. No. 54	3,964.39	38,754	462,340.00	8.57	338
S.A. No. 2	31,910.24	1,336.502	3,721,475.00	8.57	3,350
Hanna Craigmyle	18,813.18 1,035.73	454 75	2,194,055.00 120,790.00	8.57 8.57	2,200 135
or the second se				0.01	
	\$ 61,763.50	1,453,271	\$7,203,060.00		6,523
	High	River M.H.D	No. 11		
County No. 2	\$ 1.456.00	22.225	\$ 485.440.00	3	175
M.D. No. 31	29,724.00	574.748	9,907,780.00	3	3,800
M.D. No. 26 M.D. No. 32	2,232.00	54,874	743,650.00	3	125
M.D. No. 27	9,516.00 290.00	104,119 15,660	3,172,660.00 97,040.00	33	1,400 27
High River	6,564.00		2,188,715.00	3	2,006
Nanton Blackie	2,928.00	*********	975,776.00	3	1,250
Cayley	584.00 400.00		194,350.00 134,630.00	3	250 150
	\$ 53,694.00	771,626	\$17,900,041.00		9,183
			Contraction of the second		TE 100 100
MD N. FO		enden M.H.D	. No. 51		
M.D.: No. 52 Hughenden	\$ 4,345.16	658,636	\$1,781,720.00	3	1,290
Czar	478.80 390.40	*********	159,610.00 130,160.00	3 3	214 170
	\$ 6,214.36	658,636	\$2,071,490.00		1.674

	ANNU	AL REPOI	RT, 1953		131
	TABL	E No. 14-C	ontinued	Mill	
Contributing Units	Requisitions	Acreage	Assessed Value	Rate	Population
	Innis	sfail M.H.D.	No. 16		
M.D. No. 55	\$ 26,266.00	421,550	\$5,907,475.00	4.5	6,150
M.D. No. 57 M.D. No. 56	900.00 396.00	33,280 21,438	207,710.00 87,970.00	4.5 4.5	544 184
Innisfail	3,622.00	398	804,857.00	4.5	1,417
Bowden	780.00	40	173,254.00	4.5	277
	\$ 31,964.00	476,706	\$7,181,266.00		8,388
	Ire	na M.H.D. N	In 55		
M.D. No. 61	\$ 3,319.00	105.096	\$1,106,360.00	3	746
Irma	945.00		315,000.00	3	369
	\$ 4,264.00	105,096	\$1,421,360.00		1,115
	Isl	ay M.H.D. 1	No. 4		
M.D. No. 71	\$ 16,000.00	283,785	\$3,272,460.00	4.8	2,548
	\$ 16,000.00	283,785	\$3,272,460.00	4.8	2,548
			Area and		1
		mbe M.H.D.		1.100	
M.D. No. 64 County No. 3	\$ 33,626.00 306.00	441,600 5,325	\$6,113,890.00 55,560.00	5.5 5.5	7,390 65
Lacombe	17.032.00	640	2,792,130.00	6.1	2.350
Clive	1,332.00		242,264.00	5.5	350
Blackfalds	590.00		107,349.00	5.5	135
	\$ 52,886.00	447,565	\$9,311,193.00		10,290
	Lethb	ridge M.H.D	. No. 65		
M.D. No. 25	\$ 49,482.15	500,000	\$ 8,998,400.00	5.5	10,000
M.D. No. 5 M.D. No. 4	3,517.35 33,642.12	71,524 676,299	639,515.00 6,115,900.00	5.5 5.5	500 3,462
M.D. No. 2	4,091.61	217,360	743,575.00	5.5	770
S.A. No. 4	8,446.42	386,154	1,533,822.00	5.5	1,155
Lethbridge	130,285.46 3,062.73		23,687,760.00 557,610.00	5.5 5.5	24,000 624
Barons	2,129.55		389,430.00	5.5	290
Nobleford	1,866.35		338,427.00	5.5	275
Warner	2,751.67		500,200.00	5.5	340
	\$239,275.41	1,851,337	\$43,504,639.00		41,416
	Little	Bow M.H.D). No. 25		
M.D. No. 25 Medical	\$ 2,522.00 1,682.00		\$ 420,390.00	6 4	
Medical County No. 2	10,642.00	166,431	1.773,670.00	6	1,050
Medical	7,094.00			4	
S.A. No. 4 Medical	9.00 6.00	789	1,522.00	64	10
Champion	1,796.00		299,331.00	6	380
Medical	1,197.00		055 000 00	4	005
Carmangay Medical	1,532.00 1,022.00	********	255,383.00	6 4	225
	\$ 27,502.00	167,220	\$2,750,296.00		1,665
	Lloydi	minster M.H	.D. No. 8		
M.D. No. 71	\$ 32,000.00	523,040	\$8,043,670.00	4.71	5,268
Lloydminster Marwayne	7,608.65 1,303.90		1,615,350.00 276,810.00	4.71 4.71	1,982 300
	\$ 46,800.00	523,040	\$9,935,830.00		7,540
	Mac	leod M.H.D.	No. 48		S AN MA
M.D. No. 16	\$ 15,433.66	438,692	\$3,416,870.00	4.52	2.300
Ft. Macleod	7,839.88	4,311	1,780,386.00	4.4	2,200
	\$ 23,273.54	443,003	\$5,197,256.00		4,500
					and the second s

	Magr	ath M.H.D. M	No. 29		
M.D. No. 5 Magrath	\$ 26,892.84 7,098.01	261,097 1,300	\$3,187,945.00 841,454.00	- mini	$2,800 \\ 1,400$
	\$ 33,990.85	262,397	\$4,029,399.00		4,200

	TABLE	No. 14-Con	ntinued	Mill	
Contributing Units	Requisitions	Acreage	Assessed Value	Rate	Population
	Mann	ville M.H.D.	No. 1		
M.D. No. 72	\$ 15,585.78	278,014	\$2,597,630.00	6 6	2,032
Free Hospitalization Mannville Minburn	1,295.56 2,992.18 985.14	240 102	498,697.00 164,190.00	6 6	526 204
	\$ 20,858.66	278,356	\$3,260,517.00		2,762
	Mayertl	orpe M.H.D.	No. 38		
M.D. No. 92	\$ 26,653.00	242,400	\$1,665,799.00	16 16	2,750 220
L.I.D. No. 109 Mayerthorpe	2,297.00 5,275.00	30,736 115	143,530.00 329,669.00	16	500
	\$ 34,225.00	273,251	\$2,138,998.00		3,470
	Myrn	am M.H.D. N	No. 23		
M.D. No. 81	\$ 14,715.00	165,292	\$1,635,100.00	9	2,260
Medical M.D. No. 86	6,540.00 270.00	8,505	29,960.00	4 9	100
Medical Myrnam	119.00 3,378.00		375,433.00	4 9	375
Medical	1,501.00			4	
	\$ 26,523.00	173,797	\$2,040,493.00		2,735
	Old	Is M.H.D. No	. 26		
M.D. No. 49	\$ 19,110.00	276.180	\$3,822,005.00	5	4.350
M.D. No. 48	3,130.00	7,680	626,183.00	55	400 300
L.I.D. No. 50 Olds	955.00 7,990.00	33,119 608	190,755.00 1,597,920.00	5	1,605
Sundre	980.00	280	196,193.00	5	283
	\$ 32,165.00	318,867	\$6,433,056.00		6,940
	Oye	n M.H.D. No	. 35		
M.D. No. 34	\$ 1,564.00	55,849	\$ 229,970.00	6.8	160
S.A. No. 3 Oyen	10,963.00 2,665.00	652,221 217	1,612,148.00 391,870.00	6.8 6.8	$1,666 \\ 550$
	\$ 15,192.00	708,277	\$2,233,988.00		2,376
	Peace	River M.H.D.	. No. 21		
M.D. No. 135 M.D. No. 130	\$ 3,517.00	22.954	\$ 293,100.00	12	450
L.I.D. No. 131	696.00 11,010.00	11,007 162,980	57,975.00 936,255.00	12 12	383 1,617
L.I.D. No. 138 Peace River	2,833.00 17,042.00	53,640	236,135.00 1,401,350.00	12 12	444 1,672
	\$ 35,098.00	250,581	\$2,924,815.00	-	4,566
MD No 9		ka M.H.D. N			
M.D. No. 3 M.D. No. 63	\$ 34,398.00 52.00	365,799 680	\$4,358,115.00 6,600.00	8	5,781
Ponoka	20,622.00	1,399	2,612,743.00	8	2,983
	\$ 55,072.00	367,878	\$6,977,458.00		8,764
	Prov	ost M.H.D. N	No. 12		
M.D. No. 52 M.D. No. 61	\$ 28,459.00 2,359.00	349,481 46,975	\$3,162,120.00 262,100.00	9 9	1,950 284
S.A. No. 3	4,890.00	84,909	543,313.00	9	600
Provost	6,001.00		666,847.00	9	671
	\$ 41,709.00	481,365	\$4,634,380.00		3,505
	Raym	ond M.H.D.	No. 31		
M.D. No. 5 Raymond	\$ 10,600.00 5,200.00	188,240	\$3,300,355.00	3.21	2,088
Stirling	810.00		1,379,458.00 163,395.00	3.77 4.96	2,279 520
	\$ 16,610.00	188,240	\$4,843,208.00		4,887

Contributing Units	TABL	E No. 14—Co Acreage	Assessed Value	Mill Rate	Population
patients were any	Red I	Deer M.H.D.	No. 15		
M.D. No. 55 M.D. No. 64 Red Deer	\$ 46,336.00 10,021.00 73,164.00	$255,284 \\ 64,376 \\ 2,132$	\$3,791,816.00 820,040.00 5,987,180.00	12.22 12.22 12.22	$4,000 \\ 1,000 \\ 8,000$
	\$129,521.00	321,792	\$10,599,036.00		13,000
	Rimi	bey M.H.D.	No. 52		
County No. 3 M.D. No. 64 L.I.D. No. 68	\$ 25,620.00 1,627.00 81.24	$124,800 \\ 14,400 \\ 16,045$	\$2,135,078.00 135,560.00 6,770.00	12 12 12	3,100
Rimbey L.I.D. No. 65	8,395.72 794.40	245 8,466	645,825.00 66,200.00	13 12	757
	\$ 36,518.36	164,036	\$2,989,433.00		3,875
	Rocky Moun	tain House	M.H.D. No. 49		
M.D. No. 57 L.I.D. No. 65 Township 41-5-5	\$ 4,125.00 15,995.00 490.00	68,551 220,492 (Taken i	\$ 412,630.00 1,599,555.00 nto hospital distric quisitions were su		1,000 3,000 after re-
Rocky Mountain House Caroline	8,575.00 1,250.00	165 65	815,600.00 125,191.00	$10.5 \\ 10$	1,200 200
	\$ 30,435.00	289,273	\$2,952,976.00		5,400
	Spirit 1	River M.H.D	. No. 60		
M.D. No. 133	\$ 6,381.00	135,520	\$1,276,215.00	5	1,820
L.I.D. No. 132 L.I.D. No. 134	2,846.00 5,826.00	92,397 197,737	569,350.00 1,165,375.00	5 5	850 2,000
Spirit River Rycroft	2,085.00 1,251.00		417,015.00 250,375.00	55	750 400
	\$ 18,389.00	425,654	\$3,678,330.00		5,820
	Stett	ler M.H.D.	No. 20		
M.D. No. 54	\$ 46,790.00	797,487	\$8,756,394.00	5.3	5,542
M.D. No. 63 Stettler	3,208.00 13,160.00	74,127	600,290.00 2,462,700.00	5.3 5.3	950 2,421
Big Valley Donalda	1,363.00 850.00		255,110.00 159,257.00	5.3 5.3	307 246
Gadsby Botha	629.00 300.00		117,581.00 56,285.00	5.3 5.3	98 96
	\$ 66,300.00	871,614	\$12,407,617.00		9,660
	St. P	aul M.H.D.	No. 36		
M.D. No. 86 St. Paul	\$ 23,172.00 8,828.00	376,462	\$3,292,310.00 1,202,435.00	7.03 8.2	6,249 1,407
	\$ 33,000.00	376,462	\$4,694,745.00		7,656
		er M.H.D. N			
M.D. No. 14 M.D. No. 2	\$ 16,661.00 310.00	406,425 12,066	\$3,029,423.00 56,480.00	5.5 5.5	3,375 16
M.D. No. 4 Taber Grassy Lake	395.00 31,928.00 795.00	12,568	71,930.00 5,805,236.00 114,600.00	5.5 5.5 5.5	$12 \\ 3,700 \\ 150$
Starting of Charles	\$ 50,089.00	431,059	\$9,107,669.00		7,253
	Three	Hills M.H.D.	No. 45		
M.D. No. 48 Three Hills	\$ 31,004.00 8,096.00	239,380 211	\$4,010,810.00 1,047,373.00	7.73 7.73	3,139 1,026
	\$ 39,100.00	239,591	\$5,058,183.00		4,165
	Tofie	eld M.H.D. N	No. 47		
M.D. No. 73 Tofield	\$ 17,000.00 3,500.00	166,502	\$2,128,422.00 677,830.00	7.127 7.127	$2,040 \\ 700$
	\$ 20,500.00	166,502	\$2,806,252.00		2,740

DEPARTMENT OF PUBLIC HEALTH

	TABL	E No. 14-Co	ontinued	Mill	
Contributing Units	Requisitions	Acreage	Assessed Value	Rate	Population
	Troo	hu M.H.D. N	No. 56		
M.D. No. 48 M.D. No. 55 Trochu	6,660.00 271.00 2,094.00	156,582 2,180 54	\$2,220,026.00 97,070.00 697,816.00	3 3 3	1,400 110 630
	\$ 9,025.00	158,816	\$3,014,912.00		2,140
	-				
MD No 99	\$ 20,360,04	Valley M.H.1 633,600	\$4,847,630.00	4.2	1.877
M.D. No. 32 Turner Valley Black Diamond	3 20,300.04 1,369.22 2,889.81		326,005.00 690,430.00	4.2 4.2 4.2	719 1,154
	\$ 24,629.07	633,600	\$5,864,065.00	4.2	3,750
	Two I	Hills M.H.D.	No. 42		
M.D. No. 81	\$ 28,848.00	202,525	\$2,060,650.00	14	3,300
M.D. No. 86 Two Hills	3,510.00 7,032.00	30,047 87	250,730.00 502,376.00	14 14	600 625
	\$ 39,390.00	232,659	\$2,813,756.00		4,525
	Vegre	ville M.H.D.	No. 34		
M.D. No. 81	\$ 9,832.00	239,745	\$3,933,060.00	2.5	3,280
M.D. No. 73	4,069.00	125,038	1,627,763.00	2.5	1,277
M.D. No. 72 Vegreville	265.00 5,480.00	1.280	106,180.00 2,191,833.00	2.5 2.5	2.327
Lavoy	336.00	40	134,575.00	2.5	118
	\$ 19,982.00	366,103	\$7,993,411.00		7,002
	Verm	ilion M.H.D.	No. 2		
M.D. No. 81	\$ 2,044.00	42,837	\$ 423,395.00	4.8	670
M.D. No. 72 M.D. No. 71	6,119.00 13,616.00	125,821 243,412	1,266,980.00 2,819,120.00	4.8 4.8	1,000
Vermilion	10,173.00	1,222	1,908,800.00	5.3	3,300 2,000
Derwent	1,012.00	34	209,563.00	4.8	270
	\$ 32,964.00	413,326	\$6,627,858.00		7,240
	Viki	ng M.H.D. N	o. 10		
M.D. No. 72	\$ 20,210.00	178,773	\$1,726,170.00	11.71	1,300
M.D. No. 73 M. D. No. 62	16,870.00 11,145.00	164,736 106,254	1,439,920.00 951,130.00	11.71 11.71	1,410 700
Viking	7.775.00	216	663,930.00	11.71	725
	\$ 56,000.00	449,979	\$4,781,150.00		4,135
	Vulc	an M.H.D. N	io. 19		
County No. 2	\$ 29,905.00	552,237	\$7,611,025.00	3.929	3,400
M.D	6,100.00	1,451	15,620.00	3.929	40
Vulcan	1,289.00 3,745.00	51,362	328,145.00 953,100.00	3.929 3.929	455 1,200
	\$ 35,000.00	605,050	\$8,907,890.00		5,095
	Wainwa	right M.H.D.	No. 17		
M.D. No. 61	\$ 28,327.00	638,322	\$4,358,000.00	6.5	6 101
M.D. No. 72 M.D. No. 71	444.66	8,278	68,410.00	6.5	6,484 80
Wainwright	74.74 11,324.50	1,977 640	11,502.00 2,059,000.00	6.5 5.5	2,200
	\$ 40,170.90	649,217	\$6,496,912.00		8.764
	William	don M.H.D.	No. 64		
M.D. No. 81	\$ 6,887.00	128,705	\$1,721,655.00	4	2.050
Willingdon Hairy Hill	1,458.00 695.00	120,703	364,535.00 173,775.00	4 4 4	2,050 500 250
	\$ 9,040.00	128.705	\$2,259,965.00		2,800

Poliomyelitis Hospitalization Programme

Effective April 1st, 1953, hospitalization benefits for poliomyelitis patients were expanded to include care for the acute period of the disease in addition to the chronic or convalescent period. These benefits are available only if the hospital has entered into an agreement with the Province to provide such care, at the following schedule of rates:

During the 14-day isolation period for cases diagnosed as acute polio.

Class of Hospital	Class of Hospital Patient Pays Per Day For patients re- quiring ordinary oed care only.		Province pays per day. For tracheo- tony cases re- quiring bed care only.	For all Respirator Cases	
Α	\$2.00	\$10.25 & 70c	\$30.00 & 70c	\$40.00 & 70c	
В	\$1.80	\$ 8.30 & 70c	\$30.00 & 70c	\$40.00 & 70c	
С	\$1.60	\$ 7.10 & 70c	\$30.00 & 70c	\$40.00 & 70c	
D	\$1.50	\$ 6.80 & 70c	\$30.00 & 70c	\$40.00 & 70c	
E	\$1.30	\$ 5.90 & 70c	\$30.00 & 70c	\$40.00 & 70c	

During the 14-day acute stage the patient is responsible for any medical care.

Following the 14-day isolation period the Province pays only for those cases which show some degree of paralysis, at the following schedule of rates:

		Provincial Payment Per Day Extra			
Class of Hospital	(a) Patient Pays	Patients Requiring Bed Care Only	Payment For Those In Respirators	*(b) For Medical Care	
A B C D	No Charge No Charge No Charge No Charge No Charge	\$10.25 & 70c \$ 8.30 & 70c \$ 7.10 & 70c \$ 6.80 & 70c \$ 5.90 & 70c	\$15.00 \$15.00 \$15.00 \$15.00 \$15.00	60c 60c 60c 60c 60c 60c	

(a) Both the above schedules pertain to standard ward care. If a patient requests private or semi-private accommodation he is responsible for the difference between that and standard ward care.

(b) This item is a daily payment for medical care of poliomyelitis cases in hospital and is paid through the hospital concerned to the practitioners caring for the cases. Surgical operations and anaesthetic services are paid for in addition, and payments are made directly to the practitioner concerned.

Isolation (14 days) Post Isolation	$11,704 \\ 58,647$	\$150,135.85 \$549,883.15	
	70,351	\$700,019.00	

Medical, surgical, medical supervision, etc. payments, in addition to hospital payments, amounted to \$78,147.50.

Nurses Training Programme

Under the authority of The Hospitalization and Treatment Services Act, the Province may pay to a general hospital that operates a school of nursing a sum not exceeding \$300.00 for each nurse who has trained in and graduated from its school of nursing, and a sum not exceeding \$100.00 to a general hospital for each nurse graduated from the school of nursing of a provincial mental hospital and who received, prior to graduation, approximately two years training from the school of nursing of the general hospital.

Under this programme in 1953 the Province extended \$63,800.00 on behalf of 212 graduates at \$300.00 and to graduates at \$100.00. Since this legislation did not come into effect until April 1st, 1953. "he grant above was not paid on behalf of nurses who graduated in the first three months of the year. Altogether there were 394 nurses graduated from the eleven schools of nursing operated by general hospitals in the Province.

School of Nursing Aides, Calgary, Alberta

In 1946 a school was established in Calgary for the training of Nursing Aides to help alleviate the shortage of nurses. Since that time the school has trained 1,217 women. The number of aides newly certified in 1953 was 204, compared with 216 in 1952.

The number of nursing aides employed in Alberta numbered 585 as of October. In addition 59 were employed outside of Alberta.

Those working within the Province were distributed between general hospitals, sanatoria, mental hospitals, Indian hospitals, and private homes.

Hospital Construction

The following general hospitals completed additions in the calendar year 1953, for a total net increase in capicity of 702 beds and 63 bassinets:

	ATC 6 MICL CODC		
	Beds	Bassinets	
Athabasca, Municipal	4	all a manufacture	
Brooks, Municipal	33	6	
Calgary, General	391	and the second second	
Edmonton, General	166	44	
Elk Point, Municipal	25	3	
Ponoka, Municipal	22	1	
Provost, Municipal	13	1	
Rocky Mountain House, Municipal	13	3	
Viking, Municipal	21	5	
Wetaskiwin, Community	14		

Data regarding hospital construction projects are recorded on a fiscal year basis. During 1953-54 the total amount expended by the Province for hospital construction was \$661,600.25, of which \$66,396.94 was paid by The Department of Public Works on behalf of P.M.I. Ponoka. New projects started in 1953-54 were as follows:

Camrose Rosehaven (No. 1).

Edmonton Lutheran Convalescent Hospital.

Edmonton Misericordia.

Galahad St. Joseph's.

Stettler Chronic Hospital.

Control of Operative Procedures in Hospital

In all cases where death occurs in hospital within thirty days following operation, a full report plus the patient's chart must be forwarded to this Division for review. Subsequently where death has occurred within 72 hours the patient's chart is forwarded to the College of Physicians and Surgeons for review and analysis.

This Division also reviews a certain proportion of the case records in instances where a curretage has been performed.

The charts were reviewed for 304 such cases in 1953.

Nursing Aides

FRANCES J. FERGUSON, R.N., Registrar Consultant

"The School for Nursing Aides" has been in operation in Calgary since 1954. It is jointly supported by Dominion and Provincial Governments. "The Act to provide for the Licensing of Nursing Aides" was passed in Provincial Legislature in March, 1947. A new training school has been provided and was formally opened October 30, 1952.

Purpose. Designed to suit those who are not able to meet the entrance requirements for "Nursing" and yet have a desire to nurse the sick for hire.

Entrance Requirments. Grade IX Certificate, 17½ years of of age at time of entrance; physically fit and with good references, medical examination to be done by a doctor of the applicant's choice and at the applicant's expense. Smallpox vaccination must have been done within three years of entrance or repeated if possible. Inoculations for typhoid and diphtheria given after enrollment.

Classes Enrolled. Every five weeks. The dates for 1953 and 1954 are December 7, 1953, January 11, February 15, March 22, April 26, May 31, July 5, August 9, September 13, October 18, November 22, December 27, 1954.

Allowances. Are given to the students by the Government. Students may receive \$8.75—\$19.50 per week depending upon the experience and/or responsibilities of the applicant. Transportation is supplied to and from the hospital at time of going for period of hospital experience under supervision. During hospital experience, full maintenance is supplied by the hospital and a deduction of \$25.00 per month is made from the allowance.

Trainees who wish the protection may have "Blue Cross" membership by having fee deducted from school payroll.

In case of accident on duty during training, the student is protected by "Workman's Compensation".

Uniforms. Supplied and laundered by the school or hospital. Students supply their own shoes and hose.

Tuition. None to be paid.

Equipment Needed. Clothes so that the student is able to dress for the weather. There are a few special articles needed such as name tapes, bandage scissors, text books, etc. Full details available upon request.

Course Outline. Length of course is 40 weeks divided into 19 weeks of instruction, 20 weeks of supervised experience at the hospitals and one week of final review at school. Classes at the school are 6 hours per day for 5 days per week. Your hospital experience is arranged for by the school.

Subjects to be studied. Nursing Ethics, Personal Care and Hygiene, Anatomy and Physiology, First Aid, Bandaging, Care of Mother and Child, Child Care and Development, Community Health and Communicable Disease, Common Diseases, Health and Recreation, Nursing Procedures, Diet in Disease.

Upon successful completion of the course, a certificate, a cap and a "Nursing Aide" pin are presented from the Department of Public Health and the Certified Nursing Aide becomes eligible to receive an annual license to work as an "Alberta Nursing Aide".

Recent indications are that the demand for trained Nursing Aides is great and it would appear to be several years before we will be able to meet the demand.

Statistics. Re: The School effective October, 1953.

Total Certified Nursing Aides, January, 1946 to date, 1,139. 1946—10, 1947—41, 1948—160, 1949—117, 1950—159, 1951—257, 1952—216, 1953—178 to date. Certified Nursing Aides are employed in 83 hospitals in Alberta.

Division of Arthritis Services

R. K. THOMSON, M.D., Director

The year 1953 saw the Division of Arthritis transferred from Department of Public Welfare to Department of Public Health on April 1st. It also saw the continuation of the Clinics' accepting patients up to the age of twenty-five years. The anticipated increase in number of patients due to raising the age limit has not been experienced.

There has been an increase of fourteen patients coming under the direct supervision of the Calgary Clinic, which increases their total to sixty-three Rheumatoid Arthritis cases. In the Edmonton Clinic there were only sixteen new cases of Rheumatoid Arthritis admitted during the year 1953, bringing the total under treatment to sixty-five This gives an overall total of one hundred and twenty-eight patients under active treatment for Rheumatoid Arthritis, in the Province. It might be indicated here that approximately fifty per cent of the patients who are referred to the Clinic for consultation by the family physician, turn out to be Rheumatoid Arthritics.

While there is a substanital increase in the number of patients, there is a corresponding decrease in the actual hospital days. This shows 322 for Edmonton and 329 hospital days for Calgary, a total of 651 hospital days for the Province. This lowered number of hospital days is attributable to an increase in care of the patients by their family physicians on an outpatient level.

Physiotherapy treatments in particular can often be given to outpatients and a total of 830 such treatments were given during the year. This number indicates treatments given by trained physiotherapists and does not take into account the instruction given in the Clinics or in hospitals by the physician.

Gold injections and injections into the joints, such as Hydrocortone, are mainly administered in the doctor's office or the Clinic. There were a total of 397 Clinic or office visits and on these occasions 203 injections of gold or Hydrocortone were given.

The prime value of the Clinics has been in the education of patients and consultation with their doctors regarding the best method of treating and living with Rheumatoid Arthritis. Physiotherapy has been the next most useful adjunct, with hospital care where necessary. While the newer preparations such as Cortisone (known as Compound E), Hydrocortone (known as Compound F) and ACTH have been used, they are not used in all cases. Due to substantial decrease in the price of these preparations, their use, where indicated, does not constitute a financial strain.

Because of the resultant saving, a number of preparations are now bought in bulk and are distributed from the Edmonton Clinic on authority of the Director. These substances are: (1) Gold, for intramuscular injection; (2) Cortisone (Compound E); (3) Hydrocortone (both oral tablets and injectible form); (4) ACTH; (5) Butazolidin tablets; and (6) newer hormone prepartions such as Meticorten.

DEPARTMENT OF PUBLIC HEALTH

STATISTICAL	COMPILATION OF	CASES TREAT	ED IN 1953	
		Edmonton	Calgary	Total
Initial Examinations made		33	14	47
Repeat Examinations made		104	40	144
Rheumatoid Arthritis cases Total Rheumatoid Arthritis	in 1953 (new)	16	12	28
Division		65	63	128
Hospital Days		322	329	651
Physiotherapy treatment (b	oth Clinics)	*****	*****	830
Injections (both Clinics)				203
Office Visits (both Clinics)				397
Total Treatment Days Janua	ary 1st to			
December 31st, 1953				1,878
	Hospital days	651		
	Physiotherapy			
	Office visits	397		
		1 070		
		1,878		

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Gerrapy has been the next next used at allergy, with here a set

Division of Cerebral Palsy Clinics

F. G. DAY, M.D., Director

During the past twelve months the Cerebral Palsy Rehabilitation Programmes and Examination Clinics have continued both in Calgary and in Edmonton. Their purpose has remained one of diagnosis and treatment of the cerebral palsied throughout the entire Province. We have a useful adjunct to this function, of course, which has been the differential diagnosis of other crippling diseases in children and the allocation of these cases to where they can best receive adequate treatment. The treatment programme has been expanded in an attempt to assist more parents to treat their own children at home, particularly in the very younger age group, and consequently we have been able to give more assistance to a larger number of cases than in previous years.

The Calgary Clinic under the direction of Dr. T. Richardson has operated a weekly diagnostic clinic, and a daily in-patient treatment clinic. During the year we have elected to farm out the making of braces for the Calgary Cerebral Palsy Centre at the Calgary Artificial Limb Factory. This, I think has been a distinct advantage since an attempt to have braces fitted at Edmonton when the patient was at Calgary proved very impractical.

The location of the Clinic at Calgary in the down town area leaves little opportunity for the expansion of some of the ancillary services. However, it is expected that this will be corrected in the near future.

In Edmonton the Clinic has had an extremely successful year. We have had no changes in staff indicating that they are well satisfied with their job, and that they are getting a good deal of satisfaction out of it. I would like to state though that the physiotherapist's salary still remains lower, and also the salary of the occupational therapist than they could get in any other Hospital in the City, particularly since the polio makes these two people now so very much in demand.

The bracemaker has given his notice effective December 31st, 1953, but has agreed to continue at the Clinic working two days per week until June 30th, 1954. We have been successful in obtaining another well qualified bracemaker, who will be taking over this job as an assistant bracemaker until June 30th, and from June 30th on will take over the bracemaking entirely. He has had 13 year's experience, and appears extremenly capable. The net result of this readjustment is that we are going to have to confine our braceshop workings to Cerebral Palsy alone, and from all indications we will just about be able to cope with them.

The physiotherapist was loaned in November to look after polio at the Misericordia Hospital and was away for approximately four months. The Occupational Therapist has been replaced by a qualified Physiot, that is a combination of physio and occupational therapist, giving a more versatile coverage. The alteration in the
brace shop programme has made it possible to hire an additional physiotherapist.

The position formerly occupied by a nursing aide is now supplied by a maid since the higher type of training was found unnecessary.

I would particulary like to commend the Nursing Superivsor at Edmonton Cerebral Palsy Clinic who has done a wonderful job in coordination of not only the Edmonton Cerebral Palsy Programme, but in the Cerebral Palsy Programme in all of Alberta.

STATISTICAL S	UMMARY		
Cases on the Register	Edmonton	Calgary	Total
Cases receiving in-patient therapy	81	40	121
Cases on home management	77	unity .	77
Physiotherapy Treatments	2,260	946	3,206
Occupational Therapy	2,596	522	3,118
Speech Therapy	1,512	852	2,364
Attending School at Clinic	17 397	15 148	32 545
Patients Examined	397	140	95
For Diagnosis Review Cases	326	124	450
Admitted to Clinic	46	40	86
New Patients	46	34	00
Re-admissions		6	6
Results from Treatment:			
Little improvement	anne Sta	4	4
Moderate improvement		15	15
Marked improvement		13	13
Others present for too short a time for valid a	assessment.		
EDMONTON BRA	CE SHOP		
		Cerebral Palsy	Polio
Long Leg Braces		21	15
Below Knee Braces		3	12
Back Braces		1	9
Arm Braces		3	
Abduction Splints		at interesting and	9
Night Splints		14	
Arch Supports		01	3
Shoe Corrections Twisters		31	****
Twisters Miscellaneous		2	
Minor Adjustments		22	-

School Report.

The general aim of the Special Class for cerebral palsied children is to prepare them for, and guide them toward future participation in regular classroom activities.

The average enrollment for the past twelve months has been seventeen pupils per month. The aggregate attendance was 2,152 and 246 extra treatments once or twice a week, totalling 2,398.

During the 1952-53 terms, two pupils completed Grade I. Six pupils who were prepared for Grade I are continuing in Grade I this year, one in regular school and five at the Special Class.

At present 22 pupils are enrolled for daily instruction and eight from regular school are receiving remedial instruction once or twice a week.

There are five in Grade I, two in Grade II and one in Grade III. The others are being assisted in readiness for Grade I

In teaching the latter, and most grade I pupils, individual differences are so great that group work does not raise the academic level. Beneficial intersocialization is accomplished in the playroom, the play school, and in the clinic as a whole as well as in the Special Class.

The Reception Centre, which is maintained by the Southside Kiwanis Club of Edmonton, and supervised by a housekeeper continues to provide the noon meal for the children attending the Clinic. In this Centre a Kindergarten Class is being held in the afternoon for twelve children with the assistance of volunteers from various organizations. This enables the staff of the Clinic to check on additional cases, and it also provides socialization for those children who are waiting their turn for in-patient treatment in the Clinic.

Transportation

The Northern Alberta Crippled Children's Fund has recently donated two new specially designed buses. These are certainly an improvement over the old cars. It is much easier to get the patients into them, and out of them, and we can carry a heavier load which means, of course, that we do not have to make as many trips and the patients are at the Clinic for a longer period of time. A second driver has been obtained by the Kiwanis Club, and this too has assisted us in increasing our operations. The Cerebral Palsy Association has built a garage adjoining the Clinic to house the two vehicles. We feel therefore that our transportation difficulties are steadily decreasing.

Lectures

Cerebral Palsy orientation has been given to 60 Student Nurses and 21 Public Health Nurses on their health field trips.

Forty teachers from the summer session of the University of Alberta, and 10 Student teachers have also received similar instructions, and by the end of the year 56 3rd year Medical Students will have passed through the Clinic for observation periods and instruction.

Demonstrations and lectures were given to the 4th year Medical Students at the University.

The staff of the Clinic have shown films to organizations and parents, and have furthered the public education on Cerebral Palsy.

It is extremely advantageous, of course, to see that the Nurses and the Medical Students are being given sufficient instruction in Cerebral Palsy, so that they will at least be able to recognize this disease and forward the cases to the Clinic for treatment in the future.

In this disease it is impossible for any one to put down in black and white what progress has been made. We have reached the stage in the Edmonton Cerebral Palsy Clinic where we are not treating any cases where we do not feel we are obtaining sufficient results to make expenditure of time and energy worthwhile. Therefore it is safe to assume that all of the cases which were under treatment during the past year have shown improvement. This, of course, is varied from some cases where we think the improvement has been both remarkable and rather dramatic to those who have just shown sufficient to warrant us continuing on with therapy.

Blood Transfusion Service

CANADIAN RED CROSS SOCIETY D. I. BUCHANAN, M.D., Director (In Cooperation with the Department of Public Health)

In retrospect, most of us in this province look back on 1953 as the year in which poliomyelitis reached particulary heavy epidemic proportions. Regarding the use of gamma globulin in Alberta, we are advised that the Public Health authorities issued 48,000 ccs. (or some 9,600 five cc. ampules) of this blood product for poliomelitis contacts in the second half of 1953, this amount not including any used in May or the first half of the year when there was a sharp outbreak in the Whitehorse area.

In terms of donor blood, the contacts in an epidemic of similar magnitude would require—in the course of a complete year—in the neighbourhood of 15,000 bottles of whole blood, that is, approximately 30% of the total donations obtained in 1953.

Since the use of whole blood for transfusion purposes remains the chief concern of the Blood Transufusion Service, it will be seen that the objective of a 25% increase in voluntary blood donations is not unreasonably large, and during the last two months of 1953, when this project was announced, blood donations increased to 980 a week in November, and to the highest level yet reached of 4,436, or better than 1,100 bottles a week in December 1953, for the province as a whole.

To collect eleven hundred bottles of blood per week in Alberta is a herculean task: it means that a great strain is being placed on both voluntary and whole-time staff, and that the preparation and sterilization of equipment, in addition to that required for hospital use, are a very severe drain on both our resources and personnel.

To ease this to some extent, it is agreed that more voluntary workers are urgently needed for the preparation of equipment and progress along this line has been made.

To our volunteer workers at all clinics and to our new volunteers making up a part of our much needed equipment, we offer our sincere thanks.

It has been stated above that our prime concern is the provision of blood for all hospitals for transfusion purposes. Of the 46,426 bottles collected in 1953, 29,507½ were used for whole blood transfusions. In the northern sections of the province, in particular, 73% of the total blood collected by the Edmonton depot was administred as transfusions, consequently of 685 plasma pools shipped to the Connaught Laboratories, Toronto, southern Alberta provided a major portion of 398 plasma pools, with a balance of 287 from the north during the year.

In November and December, when the new project became established an additional 686 bottles of blood were shipped directly to the Connaught Laboratories by air express.

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The overall programme of providing blood for hospitals and for plasma fractionation, will depend, in 1954, on not only the available donors, but also and directly on the immediate availability of all types of sterile equipment, and on the continued help of a great number of voluntary workers.

It is important that we bear in mind that the number of patients receiving transfusions is steadily rising, and that the total patients receiving blood transfusions in 1953 was, for example, 89% more than the total patients receiving blood transfusions in 1948. (Graph I).



Since this Service was established in Alberta towards the end of 1947, nearly 150,000 five hundred cc. blood transfusions have been administered to patients in this province (Table II), and it is estimated that the Society has saved, in terms of dollars, over \$3,000,000 to hospital patients, if one takes into account (a) the transfusions given, (b) the plasma administered, and (c) the free Rh investigation service for maternity cases. Most of us know of individuals whose lives have been saved and prolonged by the timely administration of such blood, and in consequence the B.T.S. has the full support of the public, and stands high in the acclaim of the medical profession.

We are fortunate in having completed a year that has been free of serious transfusion reactions due to whole blood. The techniques employed require constant safeguards, and the Service must keep pace with new developments in research. The steady expansion of hospitals throughout the province places a growing responsibility on the regular technical staff and the staff of all departments. To all, the medical directors offer their deep appreciation and thanks for a job well done.

The demands of our current programme call for the close cooperation of the Branches, volunteer workers and directors of donor panels. We are entering a new phase in the expansion of the Service where donor response, calculated requirements for clinics and equipment, availability of staff, and hospital demands must all be taken into consideration in greater detail than ever before. It will be a hard year ahead, but rewarding in greater achievement and in the continuous fight against disease and mortal afflications.

It is timely to acknowledge the splendid cooperation received from the Government of the Province of Alberta in providing a new building for the Service in Calgary, and a new depot in Edmonton. The former was officially opened in September 1953, and the Edmonton depot may well be occupied and in full operation by the end of April, 1954.

ALBERTA—North Edmonton City Clinics plus City Mot Field Mobiles	oiles		Clinics Held 57 72	Coll 10	c. Bottles ected ,492 ,006
			129	23	,498
ALBERTA-South					
Calgary City Clinics plus City Mobi Field Mobiles			69 87		.850 .078
			156	22	,928
Grand Totals			285		,426
Use of V	Whole Blo	ood and Plas			
		cember-195			
ALBERTA, North		Whole Blood Total No. Patients 9,262 8,812	Transfusions Total No. Bottles 16,711½ 12,796	Pla Total No. Patients 427 239	nsma Total No. Bottles 863 433
Grand Totals		18,074	29,50732	666	1,296
Total Transfusions Administer (Whole Blood)	red	Tot	tal Patients T (Whole Blo		
July 1947 to Dec. 1952 12 Jan. 1953 to Dec. 1953	0,339 9,507½	July 1947 1 Jan. 1953 t	to Dec. 1952 to Dec. 1953		69,564 18,074
14	9,84632				87,638

Division of Tuberculosis Control

G. R. DAVISON, M.D., Director

The objective of this Division continues to be the control and eventual eradication of tuberculosis. By control is meant that the transmission of disease be held permanently below a point at which a given number of infection-spreading cases can give rise to an equal number of infection-spreading cases to carry on the succession. We feel that in Alberta this point has been reached as is indicated by our continually falling death rate. (1948—31.6; 1949—24.2; 1950-19.3; 1951—15.5; 1952—12.9; 1953—6.8).

This happy state of affairs must not give rise to complacency. Many persons, still suffering from tuberculosis, would have been dead but for the recent advances in treatment made possible by the new drugs. Many more are in a somewhat unstable state of quiescence induced by treatment but will suffer relapses. The new drugs have proven a great boon to treatment. They have been in use for several years but because of the chronic nature of the disease many questions regarding their ultimate value are still to be answered. Over 25% of the admissions in 1953 were re-admissions. Some of these were people who had received drugs previously but suffered reactivation of their disease.

The criterion by which we should gear our endeavours against tuberculosis should be the number of cases living, not the number who have died.

There were 866 new cases discovered in Alberta in 1953 which is 131 more than for the previous year. Of the newly discovered cases 403 had active disease. The other 463 were considered inactive and will be examined from time to time in an endeavor to keep them well and non-infectious. Of the patients in sanatoria on December 31st, 1953 who had adult pulmonary disease 238 had had positive sputa and would have been menaces to their families and associates had they not been hospitalized.

If the disease is to be kept in check we shall need to maintain an efficient service for the detection of active disease and its treatment and to maintain at highest efficiency all measures designed to prevent and combat the disease.

Diagnostic Services.

Clinics were held at the Central Alberta and Aberhart Memorial Sanatoria throughout the year for the examination of ex-sanatorium patients, contacts of known cases of tuberculosis, and suspects referred by the practising physicians. 13,555 examinations were carried out. X-ray films sent in by hospitals and physicians for interpretation totalled 11,873. The hospital admission x-ray programme accounted for 27,274. The mobile x-ray survey work was carried on by one unit in the areas of the province where the greatest hazard exists. It operated a little over six months and 39,275 films were taken. By these various procedures diagnostic services were extended to 91,977.

Classification of 866 new cases of tuberculosis (excluding Indians):

Active pulmonary	315
Inactive pulmonary	447
Active non-pulmonary	88
Inactive non-pulmonary	16

In collaboration with the Health Units a programme of tuberculin skin testing all the Grade one pupils in these areas was embarked upon at the beginning of the fall school term. It is too soon to assess the value of this project as a case finding procedure.

Indian Health Services.

A very happy close liaison exists between the Indian Health Services of the Federal Department of National Health and Welfare and the Provincial Tuberculosis Division. The X-raying of provincial responsibilities during the Indian Health Services surveys of the Indians in the north of the province is greatly appreciated.

Treatment Services.

The Central Alberta Sanatorium and the Aberhart Memorial Sanatorium operated to capacity for most of the year. By early fall the waiting list had dwindled in Edmonton and disappeared at Calgary. From present indications there are sufficient sanatorium beds to meet the need for at least the foreseeable future.

Sanatorium care was provided for 1,298 cases. Of these 653 were admitted during the year. There were 189 re-admissions. Some of the latter had previously left hospital against advice. Bed rest continues to be the basic treatment with the addition of the antimicrobial drugs and surgery.

As a result of lengthening the time of the administration of drugs the average stay in hospital has also increased to eleven months for those who were in hospital over thirty-one days. Some patients continue on drug treatment for some time after discharge to out-patient strength.

Training of Nurses.

The shortage of nurses is still acute regardless of the effort of sanatorium authorities to meet the problem. Courses in tuberculosis nursing were given to affiliates from practically all the nursing schools of the province. It is the concensus that these courses are of inestimable value to the participants. At Central Alberta Sanatorium the six-month post-graduate course for nurses has been continued. Student nursing aides also receive part of their training at the sanatoria.

Educational Programme.

Instruction to all school grades and commercial classes is given by well qualified teachers. The main objective of the classes is to carry on the education of those who were attending school at the time of admission so that they will not lose school time. In this way they will have as good standing for their age on return to school as the other pupils. Teaching of some along certain lines with a view to their rehabilitation takes a very important place in the work also. Occupational therapy is also an important adjunct to treatment. It is looked upon as educational rather than diversional and sometimes is the basis for rehabilitation of the patient on discharge from hospital.

Rehabilitation is closely connected with the educational programme. The rehabilitation officers of the Alberta Tuberculosis Association at the sanatoria work very closely with the school teachers and occupational therapists. The educational, occupational and rehabilitation programmes are fully appreciated by everyone concerned and have proven their worth many times.

Building Programme.

The opening of staff quarters for men at the Central Alberta Sanatorium in 1953 filled a long-felt need. The building is well appointed and much appreciated by the staff. The Department of Public Works are to be highly commended on this achievement. Two residences for medical men at Central Alberta Sanatorium are nearing completion. The laundry extension was completed and put into use, thereby terminating the necessity for two overlapping shifts of laundrymen. The old unsafe elevator in Infirmary One was replaced. The movement of patients was thereby much facilitated.

The Aberhart Memorial Sanatorium is living up to expectations. If it were being planned again some minor changes would be made.

Acknowledgment.

Grateful acknowledgment is made to everyone who has made possible the satisfactory operation of the Tuberculosis Division and Sanatoria. Throughout the year many private individuals, societies and associations have contributed to both the physical and mental well-being of the patients. On behalf of the patients and hospital staffs we extend our sincere thanks and appreciation.

DIAGNOSTIC CLINIC REPORT

A DESCRIPTION OF THE OWNER OF THE	Sessions	New (Tubero Pul. No	ulosis	New		
Place STATIONARY CLINICS:	No. of S	Active	Active	Number Exams.	Number Review Exams.	Total
Central Alberta Sanatorium Aberhart Memorial Sanatorium Calgary	100 102 49	39 77	8 12	1442 1652 112	2547 2756 175	3989 4408 287
Camrose Drumheller Lethbridge	4 12 11	1	 	21 55 213	100 93 386	121 148 599
Medicine Hat Red Deer Vegreville	11 6 4	4		81 145 16	153 210 52	234 355 68
Total	310	124	20	3737	6472	10209
OTHER CLINICS						
Eckville Stettler *Miscellaneous	8 3 	1 91	7	30 5 1058	$\begin{array}{r} 44\\12\\1032\end{array}$	74 17 2090
	11	92	7	1093	1088	2181
Total All Clinics	321	216	27	4830	7560	12390
	-		-	increased.	-	-

In addition to the above 243 newly discovered cases of active tuberculosis there were also discovered 336 cases of inactive tuberculosis.

*Films sent in from various points and paid for by the Division.

DEPARTMENT OF PUBLIC HEALTH

TUBERCULIN TESTING AND X-RAY SURVEYS

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

Student Nursing Aides Provincial Laboratory Staff Red Cross Blood Transfusion Service Staff Victorian Order of Nurses Canadian Industries Ltd. Health Units (Leduc-Strathcona, Sturgeon,	No. Tuberclin Tested 635 7 21 3	No. X-rayed 472 81 33 11 5
Stony Plain-Lac Ste. Anne) Eastwood High School and Follow-up of		88
Families University Freshman, Edmonton Medical Students Faculty of Education, Calgary Pincher Creek and Fort Macleod grade one	470 986 198	34 91 382 11
Surveys Metropolitan Life Insurance Co. Raymond Mental Hospital Public Health Nurses	100 15 163	6 25
Hospital admission films sent to Sanatorium for interpretation	2	13 6,310
	2,600	7,762

Total number known to have been given service 9,700 i.e. number rayed plus number tuberculin tested but not rayed.

MOBILE UNIT SURVEYS

(5 previously discovered) (121 previously discovered)

SUMMARY-CLINICS, AND SURVEYS

	Total Number Examinations
Stationary Clinics	10,209
Other Clinics	2,181
Surveys (All types)	
Mobile Unit	39,275
Indians, Whites and Half Breeds (work done by Department of National Health and Welfare)	16,809
TOTAL	78,174

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

Clinics Referred for admission by family physicians Surveys (All types) Referred by Department of Veterans' Affairs Provincial Laboratory Hospital admission films Other sources Sanatorium staff	1952 563 138 3 8 10 7 6 0	76.8 18.8 .4 1.0 1.4 .9 .8	1953 574* 170† 3 70‡ 30 2 12 5	% 66.3 19.6 .3 8.1 3.5 .2 1.4 .6
	735		866	

These 574 we	re referred to Tube rred by own docto	erculosis Clinics	for the following	g reasons: 319
Follo	w-up of Mobile U w-up of Hospital	nit Survey Admission Films		102 21
	igrants			

^{†4} of these 170 admissions were referred for treatment as a result of Mobile Unit Survey. Those 4 were not referred to Clinic before admission. This means that actually 485 new cases were discovered by referral from family physician; 109 were the result of the Mobile Surveys; 21 the result of the Hospital Admission X-ray Program and 79 were found because of follow-up of contacts.

The increase in the number of cases found by D.V.A. is due to the fact that previous to 1953 the report of examinations by the Out-Patient Department of the D.V.A. to the Tuberc alosis Division was not complete and therefore quite a number of cases previously diagnosed by the D.V.A., but never counted on Division records, were entered on our files in 1953.

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CLASSIFICATION OF NEW CASES OF ACTIVE AND INACTIVE

far advanced			
Primary Fuberculous pleurisy with effusion and evidence			
tuberculous pleurisy with errusion and evidend	ce or previous p	neurisy	
			76
umber newly discovered cases active tubercu	llosis	403	
Number newly discovered cases inactive tuberc Number cases reactivated Number non residents diagnosed as having tub		73	including 4
Number of known contacts of newly discovered	cases of tuber		immigrants
lumber of known contacts examined		1,913	78.7%
BCG VACCINATIONS (Number repo	orted to TUBER	CULOSIS DIV	ISION)
lurses (a) Graduates			20
(b) Students (c) Other Nursing Personnel			
ther hospital personnel Iedical students			
ontacts (a) Newborn			
(b) Others ndians and Eskimos			
thers			
TOTAL			
INSTITUTIONAL	L REPORTS Central	Aberhart	· · · · · · · · · · · · · · · · · · ·
	Alberta	Memorial	~
atients under treatment January 1, 1953	Sanatorium 234	Sanatorium 277	Othe 1
atients admitted during 1953	272	372	0
atients transferred in	5 511	4 653	0
atients discharged and died	283	377	1
atlents transferred out otal discharged	4 287	5 382	00
atients under treatment December 31, 1953	224	271	Ō
otal treated			
	ENT ADMISSIO	NS rta Aberha	1,156
otal treated	ENT ADMISSIO Central Albei Sanatoriun 25	NS rta Aberha	1,156 art Memoria natorium 4
otal treated DIAGNOSIS OF PATH Non-tuberculous For diagnosis Pleural effusion	ENT ADMISSIO Central Albei Sanatoriun 25 13 10	NS rta Aberha	art Memori natorium 4 23 17
otal treated DIAGNOSIS OF PATI Non-tuberculous For diagnosis Pleural effusion Tuberculosis inactive	ENT ADMISSIO Central Albei Sanatoriun 25 13	NS rta Aberha	art Memori natorium 4 23
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otal treated DIAGNOSIS OF PATH Non-tuberculous For diagnosis Pleural effusion Tuberculosis inactive Primary tuberculosis Non-Pulmonary tuberculosis: Peritonitis Bone Renal, genitourinary Adenitis Endomitritis	ENT ADMISSIO Central Alber Sanatoriun 25 13 10 21 10 21 10 1 6	NS rta Aberha	1,156 art Memori natorium 4 23 17 12 26 5 24 18 16 3
otal treated DIAGNOSIS OF PATH Non-tuberculous For diagnosis Pleural effusion Tuberculosis inactive Primary tuberculosis Non-Pulmonary tuberculosis: Peritonitis Bone Renal, genitourinary Adenitis Endomitritis Addison's disease	ENT ADMISSIO Central Alber Sanatoriun 25 13 10 21 10 1 1 6 7 10	NS rta Aberha	1,156 art Memori atorium 4 23 17 12 26 5 24 18 16
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otal treated DIAGNOSIS OF PATH Non-tuberculous For diagnosis Pleural effusion Tuberculosis inactive Primary tuberculosis Non-Pulmonary tuberculosis: Peritonitis Bone Renal, genitourinary Adenitis Endomitritis Addison's disease Abscess Pelvic Lupus Meningitis	ENT ADMISSIO Central Alber Sanatoriun 25 13 10 21 10 1 1 6 7 10 3 3	NS rta Aberha	1,156 art Memori natorium 4 23 17 12 26 5 24 18 16 3 4
otal treated DIAGNOSIS OF PATH For diagnosis Pleural effusion Tuberculosis inactive Primary tuberculosis Non-Pulmonary tuberculosis: Peritonitis Bone Renal, genitourinary Adenitis Endomitritis Addison's disease Abscess Pelvic Lupus Meningitis Pulmonary tuberculosis active:	ENT ADMISSIO Central Alber Sanatorium 25 13 10 21 10 1 1 6 7 10 3 1 1 3 1	NS rta Aberha	1,156 art Memori natorium 4 23 17 12 26 5 24 18 16 3 4 3 4 3 2
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Non-tuberculous Pieural effusion Tuberculosis inactive Primary tuberculosis Non-Pulmonary tuberculosis: Peritonitis Bone Renal, genitourinary Addison's disease Abscess Pelvic Lupus Meningitis Polvic Lupus Meningitis Polvic Mathematical advanced Far advanced Miliary DOTAL Mumber with positive sputum on admission Mumber negative on admission_ Mumber negative on admission_ Mumber negative on admission_	ENT ADMISSIO Central Alber Sanatorium 25 13 10 21 10 1 1 6 7 10 3 1 1 3 1 1 3 3 1 1 1 2 72 2 72 4 REPORTS Central Alberta Sanatorium 101	Aberhart Memorial Sanatorium 146	1,156 art Memoria natorium 4 23 17 12 26 5 24 18 16 3 4 3 4 3 2 4 19 103 81 6 372 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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otal treated DIAGNOSIS OF PATIB Non-tuberculous For diagnosis Pleural effusion Tuberculosis inactive Primary tuberculosis Non-Pulmonary tuberculosis: Peritonitis Bone Renal, genitourinary Adenitis Endomitritis Addison's disease Abscess Pelvic Lupus Meningitis Pulmonary tuberculosis active: Minimal Moderately advanced Far advanced Far advanced Miliary TOTAL INSTITUTIONAL Immer with positive sputum on admission Umber negative on admission, postive later Umber negative on admission, postive later Umber both admitted and readmitted during	ENT ADMISSIO Central Alber Sanatorium 25 13 10 21 10 1 1 6 7 10 3 1 1 3 1 1 1 3 8 54 69 1 1 272 REPORTS Central Alberta Sanatorium 101 171 171 1 82 5 86,713	Aberhart Aberhart Memorial Sanatorium 146 226 10 107 21 103,956	1,156 art Memoria natorium 4 23 17 12 26 5 24 18 16 3 4 3 4 3 2 4 19 103 81 6 372 7 11 189 26 190,669

DEPARTMENT OF PUBLIC HEALTH

OPERATING ROOM REPORT

	Central Alberta Sanatorium	Men	rhart Iorial Iorium	Total
THORACOPLASTY: Number stages	49		18	67
Number of 1st stages	18		18 1	36 1
Number of revisions Number of cases	23	:	18	41
Pneumonectomy	1		12	13
Lobectomy	62	-	24 6	30 8
Segmental Resection	-		6	6
Upper Lobe Resection and Phrenic Crush			1 6	1 6
Plombage Pneumolysis	1	1	15	16
Phrenic Crush	8		55	13 5
Bronchoscopic Examinations	20		72	92
Aspirations-chest	101		55	156
Orthopedic Operations	11 46		14 20	25 166
Other	156		10	296
SUMMARY PNEUMOTHORAX CASES: Under treatment January 1, 1953 Number of new cases during 1953 No. cases under treatment on admission	נן אנים Central Alberta אנים Sanatorium	22 Diright Aberhart 1757 Memorial Sanatorium	24 1 & Outside Points	leto 196 23 249
			_	
Number cases discontinued Number cases transferred out of Alberta	28 4	59 6	12 1	89 11
Number transferred to other sections of Division	2	13	2	17
	34	78	15	127
Number under treatment December 21, 1052	17	77	20	100
Number under treatment December 31, 1953 Unsuccessfully attempted Refills:	17 3	77	28	122 3
Resident	320	878		1,198
Out-patient	643	2,264	474	3,381
	963	3,142	474	4,579

Patients received pneumothorax refills at the following outside points: Banff, Beaverlodge, Camrose, Elk Point, Ft. Vermilion, High Prairie, Lamont, Lac La Biche, Nordegg, Red Deer, St. Paul, Vermilion Wainwright, Westlock, Bonnyville.

61 60	91 60	5	157 120
-			19
125	155	16	296
53	55	1	109
3	5		8
9	12	2	23
65	72	3	140
60	83	13	156
2,991 449	1,909 1,377	246	4,900 2,072
3,440	3,286	246	6,972
	60 4 125 53 3 9 65 60 2,991 449 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Patients received pneumoperitoneum refills at the following outside points: Drumheller, Elk Point, Hanna, High Prairie, Lac La Biche, Lethbridge, Medicine Hat, Mannville, Westlock.

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LABORATORY REPORT

SPUTUM EXAMINATIONS:	Central Alberta Sanatorium	Aberhart Memorial Sanatorium	Total
Positive	908	785	1,693
Negative	2,827	2,778	5,605
URINE EXAMINATIONS:	2,811	10,952	13.763
BLOOD EXAMINATIONS:			
Blood Counts	1.416	3.119	4,535
Sedimentation Rate	2,182	2,701	4,883
Blood Sugar	76	843	919
MISCELLANEOUS:			
Pleural fluid	18	16	34
Spinal fluid	64	549	613
Gastric analysis	90	23	113
Culture Guinea pig inoculation	750	1,074	1,824
Other	432 743	749 895	1,181 1.638
Contra and and and and and and and and and an	140	000	1,000
TOTAL	2,097	3,306	5,403
WASSERMAN REPORT:			
Positive	6	15	21
Negative	243	332	575
moment			
TOTAL	249	347	596
	and the second sec	and the second s	-

DENTAL RE	PORT		
Number of patients	332	288	620
Number of treatments	107	534	641
Number prophylactic treatments	81	14	95
Number of fillings	308	275	583
Number of extractions	140	224	364
Number new dentures and repairs	23	32	55

X-RAY DEPARTMENT REPORT

personal provide an investigation of	Alb	ntral erta torium	Men	erhart iorial iorium	т	Grand	
	In Pt.	Out Pt.	In Pt.	Out Pt.	In	Out	Total
RADIOGRAPHS MADE:							
Chest—Large	1,237	960	2,122	662	3,359	1,622	4,981
Miniature	777	3,648		6,011	777	9,663	10,436
Extremities	30	8	98	51	128	59	. 187
Shoulder	13	7	2	4	15	11	26
Skull	2	1	. 5		7	- 1	8
Pelvis	40	6	66	28	106	34	140
Spine	80	35	117	58	197	93	290
Abdomen	12		20		32		32
G.I.T.	12		18	4	30	4	34
Barium Enema	3		3		6	****	6
Intravenous Pyelogram	14		25	8	39	8	47
Retrograde Pyelogram	8		11		19	and a	19
Sinogram			15	1	15	1	16
Bronchogram	3		80	7	83	7	90
Ordograph	16		95	9	111	9	120
Dental	32	1	166		198	1	199
Ribs	2		1	3	3	3	6
Sinuses	1	1	2	3	3	4	7
K.U.B.	4				4		4
Gall Bladder	1		1	****	2		2
			-				
	2,287	4,667	2,847	6,849	5,134	11,516	16,650
Fluoroscopic examinations Films sent in for interpretation Basal Metabolism Rate Cardiograph	3,519	$1,204 \\ 6,615 \\ 10 \\ 24$	3,175	3,583 6,964 34 49	6,694	4,787	11,481 13,579 44 73
Audiogram	1	4		****			4

CLASSIFICATION OF 661 DISCHARGED PATIENTS:

		R	eside	nce									
		On Admission 31 days or less Over 31 days				On Discharge							
		Adi	31 or 1	31	In.	A6.	A3.	A1.	Au.	D.			
1.	For Diagnosis	57	42	15									
2.	Primary Tuberculosis	43	5	38	5	1	29	8					
	Reinfection type pulmonary tuberculosis clinical:												
	Minimal	48	2	46	4	1	34	8	See.	1			
	Moderately advanced	74	12	62	17	5	33	17	1	1			
	Far advanced	18	3	15	5	3	5	3	1	1			
4.	Reinfection type pulmonary tuberculosis postive:												
	Minimal	15		15	-	and a	11	4					
	Moderately advanced	113		113	2	3	73	29	1	5			
	Far advanced	143	13	130		11	73	45	4	10			
	Miliary	5	1	4			3			2			
5.	Tuberculosis pleurisy	37	5	32	4	1	22	7	2	1			
6.	Non-pulmonary tuberculosis:												
	Adenitis	22	5	17	5		1	15		****			
	Genito-urinary, renal, etc.	26	6	20	9		1	10	4	2			
	Bone	39	2	37	19		2	14	1				
	Lupus	4	1	3	2			2	****				
	Endometritis	6		6	1		1	4					
	Abscess	2	++++	2				2					
	Peritonitis	5		5	2			3					
	Addison's disease	1	1					1					
	Pelvic	2		2			1	1					
	Meningitis	1	1	****						1			
	Total active tuberculosis	604	57	547	75	25	289	173	14	24			
	Total treated			562	63	23	286	160	2	13			
	Total untreated		99		12	2	3	13	12	11			
	Grand Total	661	99	562	75	25	289	173	14	24			
		inclusion	-	-	-	-	-	-					

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. 4 cases considered tuberculosis on admission were found to be non tuberculous and therefore do not show in discharge classifications noted above.

CLASSIFICATION ON ADMISSION OF 661 DISCHARGED PATIENTS:

	Central Alberta Sanatorium	Aberhart Memorial Sanatorium	Total
For diagnosis	37	20	57
Primary tuberculosis	11	32	43
Pulmonary tuberculosis	173	243	416
Tuberculous pleurisy	15	22	37
Non-pulmonary tuberculosis	47	61	108
Total	283	378	661

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

	On Discharge										
On Admission:	Number	Improved	Unimproved	Died							
Minimal	61	59	1	1							
Moderately Advanced	175	173		2							
Far advanced	145	139		6							
Primary	38	38									
Miliary	4	3	The second second	1							
Non-Pulmonary Tuberculosis	92	89	1	2							
Tuberculous Pleurisy	32	31		1							
	annared .										
Total	543	532	2	13							

RESIDENCE DISCHARGED PATIENTS

SUM CTVNLSN

MMARY:	Sanatorium	Sanatorium	Total
Cities	146 29	172 28	318 57
7 Julages Municipal Districts Local Improvement Districts	4 40 48	11 68 90	15 108 138
Special Areas Board	3 13	9	3 22
Total	283	378	661

Central

Aberhart

	Central Alberta Sanatorium	Aberhart Memorial Sanatorium	Total
Male	160	186	346
Female	123	192	315
Total	283	378	661
AGE ON ADMISSION:	no program in	ar or balance	_
From 1- 9	15	41	56
From 10-14	12	25	37
From 15-19	12	39	51
From 20-29	78	113	191
From 30-39 From 40-49	79 36	62 45	141
	36 22	45 26	81 48
	22	19	
	7	8	41 15
70 and over		-	15
Total	283	378	661
SOCIAL STATUS OF DISCHARGED PATIE	NTS.		
Single	106	192	298
Married	162	168	330
Divorced	2	100	2
Widowed	9	11	20
Separated	4	7	11
Total	283	378	661
RESIDENCE IN ALBERTA:	Partition in the	trasting listers	and Line
	110	000	
Born in Alberta	116	232	348
1 year or less	20 34	10 32	30
1- 5 years	34 16	32	66 25
6-9 years	10	7	23
10-14 years 15-19 years	7	9	16
	33	35	68
20-30 years	40	44	84
Total	283	378	661
LENGTH OF STAY IN SANATORIUM OF 6	61 DISCHARGED	PATIENTS:	
	Central	Aberhart	
DEATHS:	Alberta Sanatorium	Memorial Sanatorium	Total
Number in Sanatorium under 31 days	3	9	12
Number patient days	49	113	162
Average patient days	16.3	12.6	13.5
Number in Sanatorium 31 or more days	7	6	13
Number patient days	6,496	3,906	10,302
Average number patient days	928	651	792.5
DIRGITLEDOPO			

43

557 13 230

333.2 283

295.9

49

76,626

83,728

12,266

SEX OF DISCHARED PATIENTS:

DISCHARGES:

Number in Sanatorium under 31 days

Number in Sanatorium under 31 days Number patient days Average number patient days Number in Sanatorium 31 or more days Number of patient days Average number of patient days Total number deaths and discharges Total number patients days Average number patient days No. non-pulmonary admissions(individual) No. non-pulmonary patient days (calendar)

87

1,294 14.9 549

330 661

293.6 114

181,186

193,044

27,738

104,560 324.6 378 109,316

14,472

289.2

65

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 on January the 1st, 1953, was 3,791-(males 2,226; females 1,565). The total patient population in the Institutions on December 31st, 1954, was 4,033-(males 2,442; females 1,611). This represents a total gain of patients of 242-(males 196; females 46). The Provincial Mental Hospital, Ponoka, admitted 684 patients (males 384; females 300). This was 10 less than the previous year. The Provincial Mental Institute, Edmonton, admitted 510 patients-(males 302; females 208). This was 183 more than the previous year. This was exclusive of 112 patients remanded to the Institute from the Courts for observation. The Provincial Training School, Red Deer, admitted 83 children-(boys 60; girls 23). During the year there were 204 transfers among the various Institutions. A total of 53 patients-(39 men; 14 women)-were transferred to Rosehaven, and 41 men from St. Joseph's Hospital in Edmonton were admitted to Rosehaven. There was a total of 191 deaths-(males 127; females 64)-in all the Institutions combined. The commonest causes of death were those referable to the circulatory and respiratory systems. There were 7 deaths from Pulmonary Tuberculosis. Pneumonia was the commonest respiratory cause of death.

The Building Construction Programme for the various Institutions continued during the year. In addition, a site was cleared on the property of the Provincial Training School, Red Deer, but remote from the Training School, for the ultimate construction of an Institution to accommodate some 1,500 Adult Defectives. At the Provincial Mental Hospital, Ponoka, a new Men's Ward and a Mechanics' and Carpenter Shop neared completion. At the Provincial Mental Institute, Edmonton, a new and modern Administration Building was opened. Work continued on a new Reception Unit for this Institution. At the Provincial Training School in Red Deer, a new School House consisting of eight class-rooms was opened, and an extension to the Laundry was completed. One new Ward for 75 children neared completion. Work was commenced on a Male Staff Residence and a Ward for High-Grade boys. At

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Rosehaven a newly completed 90-bed Ward was opened. Construction on a similar Unit was also commenced.

Active Treatment Programmes continued in the various Institutions. Details concerning these are contained in the individual reports of these Institutions.

Staff Training Programmes were carried out as before in the Provincial Mental Hospital, Ponoka, the Provincial Mental Institute, Edmonton, and the Provincial Training School, Red Deer. Some 40 Staff members—(20 men and 20 women)—graduated in the various Courses. At the Provincial Mental Hospital, Ponoka, three Registered Nurses received their Diplomas in an eight-months' Post-Graduate Course. Some 50 affiliating Nursing Students from various Alberta General Hospitals received instruction. A twoweeks' orientation Course for Instructors of Nurses from the various Alberta General Hospitals was also conducted and proved worthwhile.

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 caseload of the Clinics increased. The Clinic Staffs participated also in many Public Education activities, including group discussions, institutes, workshops, lectures, talks and radio work. Of particular interest was the work which the Calgary Guidance Clinics did in connection with a group of women patients who were discharged from the Provincial Mental Hospital, Ponoka.

Nine meetings of the Eugenics Board were held during the year. Five were held at the Provincial Mental Hospital, Ponoka; four at the Provincial Training School, Red Deer. A total of 81 cases was presented for the Board's consideration—(43 males; 38 females). Fifty-one operations (male 21; females 30) were performed during the year. The total number of cases operated upon to December 31st, 1953, was 1,374—(males 539; females 835). All operations, with the exception of one, were performed at the Provincial Mental Hospital, Ponoka, by the duly appointed Honorary Surgeons, assisted by the Medical Staff of the same Hospital.

TABULATED SUMMARY-INSTITUTIONS-MOVEMENT OF PATIENTS

A MAR	H	lospit . 31st,	al	Ad	missi	ions	L	Peati	15	Patients in Hospital Dec. 31st 195					
Ponoka	M. 910 948	F. 633 394	T. 1543 1342	M. 384 302	F. 300 208	T. 684 510	M. 249 217	F. 257 131	T. 506 348	M. 50 44	F. 21 20	T. 71 64	M. 958 996	F. 631	T. 1589
Red Deer Claresholm	220	205 99	425 99	60	23 2	83 2	5	15	20 3	7	222	92	265	437 211 99	1433 476 99
Raymond Rosehaven	148	133	133 249	*41	5	5				26	6 13	6 39	203	135 98	135 301
Totals	2226	1565	3791	787	538	1325	471	406	877	127	64	191	2422	1611	4033

*Admitted to Rosehaven from St. Joseph's Hospital, Edmonton.

TRANSFERS "IN" AND "OUT" OF INSTITUTION

		M.	F.	T.		M.	F.	Т.
Ponoka Tran	sfers in	20	18	38	Transfers out	55	32	87
Oliver Tran		7		7	Transfers out	5	1	6
	sfers in				Transfers out	3		3
Claresholm Tran		****	3	3	Transfers out		1	1
Raymond Tran Rosehaven Tran	sfers in	39	.4	4	Transfers out		1	1
Rosehaven Tran	sters in	39	14	53	Transfers out		1	1
Total Tran	sfers in	66	39	105	Total Transfers out	63	36	96

		-					27														
Total	F.	3	inter .	10		-	10	23	01	13		-					-	4		1	64
F	M.	4	3	10	1	-	17	39	-	41		63	63			4		20	21	l	127
pu	E.						63														
Raymond	E.	-					63	61		11.10	-						-	(Jana		1	9
R	W.		-	-				-			-			****	-	-	-	-		1	

Claresholm M. F. T. I. I. I. I. I. Z. Z.

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15 9

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Rosehaven M. F. T.

TABULATED SUMMARY-INSTITUTIONS-DEATHS-1953

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DEPARTMENT OF PUBLIC HEALTH

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	T.	10	-	9			00		28	2	II				1		1		1		-	64	1
P.M.I.,	E.	1		~		-	-		10	61	1										1	20	1
	M.	4		~			10		18		10			in			-		-	· · · · ·	1:	44	1
.i a	T.	-	~~~	4.		-	11		22		13	-	1	63			2		0 0	23	11	11	1
P.M.H.,	Ŀ.	1	Terre	01		-	0		8		1			-			N	1			1	21	1
-4	M.	1	0	c1 •	-		6		14		12	1	1	63			1		40	.1	1:	20	1
	Disease .	. Tuberculosis of Respiratory System	Syphilis and Sequelae	Neoplasms Malignant	Distant Menter	Useenilar Disassas of Cantral Namous	System	Arteriosclerotic and Degenerative Heart	Disease	Other Disease of Heart	Pneumonia	Bronchitis	Ulcer of Stomach and Duodenum			VILLINOSIS OF LIVET	Security and Nephrosis	All Other Discours	All Utiler Diseases	suicide and seif-inflicted injury	mom	TOTALS	

45. 333.332.22 45. 333.332.22 49.

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ANNUAL REPORT, 1953

PROVINCIAL MENTAL HOSPITAL, PONOKA T. C. MICHIE, M.D., Medical Superintendent

Patient Population Changes.

The resident patient population on January 1st, 1953 was one thousand, five hundred and forty-three (1,543), of whom nine hundred and ten (910) were male and six hundred and thirty-three (633) female. There were in residence on December 31st, 1953, one thousand, five hundred and eighty-nine (1,589) patients, of whom nine hundred and fifty-eight (958) were male and six hundred and thirty-one (631) female. This was an overall increase of forty-six (46). The details are as set forth in Table 1.

Admission of Patients.

Six hundred and eighty-four (684) patients were admitted. This figure is exclusive of transfers from other Provincial Mental Institutions, and represents a decrease of ten (10) from the previous year. Three hundred and eighty-four (384) were men, and three hundred (300) women. Those admitted by voluntary application, numbered one hundred and forty (140); by Medical Certificates, one hundred and sixty-nine (169), and by Warrant, three hundred and fifty-six (356). Three (3) were admitted under "The Mental Defectives Act". Thirty-eight (38) patients were transferred to this Hospital from other Provincial Mental Institutions. There were no significant changes noted in the various diagnostic categories. There was a relative increase in the number of Voluntary and Certified cases, and a corresponding decrease in those admitted by Warrant.

Separation of Patients.

The number of patients discharged totalled five hundred and six (506), and of those two hundred and forty-nine (249) were men, and two hundred and fifty-seven (257) women. This was a decrease of thirty-six (36) as compared to 1952. Eighty-seven (87) patients were transferred to other Provincial Mental Institutions, of whom forty-two (42) were admitted to "Rosehaven". Seventy-one (71) patients died, most of whom were of advanced years.

Accidents and Elopements.

Twenty-five (25) patients suffered from fractures, eight (8) being men, and seventeen (17) women.

There were two (2) suicidal deaths.

A small number of patients left the Hospital without permission. The majority of these patients returned or were brought back by relatives or the Royal Canadian Mounted Police.

General Health.

The general health of the patients was excellent, and there were no epidemics. All newly admitted patients were carefully examined to detect the possible presence of Tuberculosis. A close check was also made of the general patient population to reveal any evidence of Tuberculosis. If a diagnosis of Tuberculosis was established in any individual, the patient was promptly transferred to the Unit at Oliver for the treatment of Tuberculosis.

Clinical Work.

Every effort was made to have procedures in keeping with accepted standards. The laboratory services were greatly improved. Insulin-shock and Electroshock were used extensively with good results. A small number of patients had Lobotomy operations, and the results were encouraging. The increase in Medical Staff made it possible to utilize group psychotherapy much more extensively.

Occupational Therapy.

Occupational Therapy was extensively utilized, and practically all newly admitted patients attended formal classes. Patients from the Continued Treatment Wards either attended classes, or engaged in Occupational Therapy projects on the wards. The Library and Canteen were operated by this Department and gave satisfactory service.

Recreational Therapy and Physical Training.

There was a gradual expansion in the services provided by these Departments to the patients. The greater part of the patient population benefitted to some degree by participation in the varied program. Every effort was made to keep this in accordance with the needs of the group involved.

Religious Services.

The services were continued, as in previous years, and proved very satisfactory. The Visiting Clergymen showed deep understanding of the patients' needs.

Social Services.

This Department continued to function with one Worker. Her time was spent alternately between work in the Hospital and in the field. A number of former patients were organized by her in Calgary, as an after-care group, in cooperation with the personnel of the Provincial Guidance Clinic there. The results have been encouraging.

Dental Services.

This service was continued with a full-time Dentist. The program of examination and treatment of patients gave excellent results. The regular Annual Visit was made by the Dentist to "Claresholm" and "Raymond".

X-Ray Services.

This Department operated with efficiency and provided very satisfactory service for diagnostic procedures. All chest plates were referred to The Baker Memorial Sanatorium, Calgary for reading, as in previous years. The utmost cooperation was shown by the Medical Staff of that Institution with the Medical Staff of this Hospital.

Laboratory Services.

There was a marked increase in the diagnostic facilities available during the year. The recently purchased equipment was all put into operation. This Department was supervised by a qualified Pathologist and a well trained Technician. A great deal of time was saved in obtaining laboratory results, there being no delay as

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in former year when material was sent to the Provincial Laboratory, Edmonton for testing.

School of Nurses.

The teaching program was continued essentially unchanged. There were three (3) qualified Instructors, assisted by the professional personnel of the Hospital. Forty-two (42) students received instruction in the four year Course in General and Psychiatric Nursing, and thirty-seven (37) male attendants enrolled in the three year Course in Psychiatric Nursing. Fifty (50) affiliating student nurses from the Archer Memorial Hospital, Lamont, The Calgary General Hospital, Calgary; The Galt Hospital, Lethbridge; The Medicine Hat General Hospital, Medicine Hat; and The St. Joseph's General Hospital, Vegreville, also received instruction. Each student nurse spent eight weeks in residence at this Hospital. Four (4) Nurses completed the four year Course in General and Psychiatric Nursing. Three (3) Registered Nurses completed the eight month Course in Psychiatric Nursing and received their Diplomas. Six (6) men received Certificates in Psychiatric Nursing. Twelve (12) Registered Nurses commenced their training in the fall class. Ward Aides were given a short indoctrination course. Nineteen (19) students in Public Health Nursing from The University of Alberta spent two weeks at this Hospital, as part of their field work.

A two weeks' Orientation Course in the Psychiatric Aspects of Nursing was conducted at this Hospital in June. Seventeen (17) Instructors of Nursing from the Various General Hospitals in Alberta attended, and it was felt the effort put forth was worthwhile.

Visitors.

Arrangements for the visiting of patients by relatives and friends were the same as in previous years. Facilities for visiting were improved on several wards, and more privacy was afforded. Hon. Dr. W. W. Cross, the Minister of Health, and Dr. A. Somerville, the Deputy Minister of Health visited on a number of occasions. Dr. Randall R. MacLean, Director of the Division of Mental Health made frequent inspections of the Hospital.

The annual inspection of the Hospital was carried out by the "Visiting Board". This was done with the usual thoroughness. Any criticism offered was accompained by helpful advice. The Board received suggestions and complaints from the Staff and Patients, and these were given sympathetic consideration.

The Eugenics Board.

Five (5) Meetings were held by the Board at this Hospital during 1953. Forty-eight (48) Patients were presented to the Board, of whom twenty-two (22) were men, and twenty-six (26) women. Fifty (50) Operations were performed for sexual sterilization, twenty-one (21) being on male and twenty-nine (29) on female Patients.

Maintenance and Fire Protection.

Buildings were maintained in a good state of repair. Regular practices were held by the Fire Brigade, and official recognition was given to the efficiency of the Volunteer Fire Fighters who man the equipment.

New Buildings and Improvements.

A Men's Dormitory was constructed and named "Dawn View". This was not quite ready for occupancy at the end of the year. A general program was instituted to move and relocate a number of shops at the rear of the Hospital. Construction was commenced on a combined Mechanics' and Carpenters' Work Shop.

Business Office.

There was smooth and efficient operation in this Department. The Business Manager assumed direct responsibility for the operation of the Farm and Ancillary Services.

Provincial Mental Hospital Farm.

The grain and hay crops were satisfactory, but the oats were of a rather poor quality. The turnip crop was a failure due to hail. The yield from the poultry farm was excellent, but only fair from the dairy herd.

Ancillary Services.

These various departments, including the Laundry, Linen Room, Print Shop, Sewing Room, Shoe Shop, and Tailor Shop effectively served the needs of the Hospital.

The Department of Public Works.

This Department, under the Chief Engineer, effectively met the requirements in regard to heat, water supply and sewage removal. Electrical equipment was well maintained, and an extensive program of re-wiring of all the Hospital buildings was undertaken. All electrical current supplied to the Hospital will be alternating in type when the work is completed.

Conclusion.

The administration policy of the Hospital was essentially as in recent years. The admission and discharge rate were similar to 1952. The Staff was maintained at practically full strength.

Those responsible for the Hospital administration were appreciative of the cooperation shown by the Staff, and for the help and direction given by the senior officers of The Department of Health.

PROVINCIAL AUXILIARY MENTAL HOSPITAL, CLARESHOLM

Movement of Patients.

In residence on January 1st, 1953 there were 99 patients. On December 31st, 1953 there were 100 patients in Residence. There was one patient on Leave of Absence.

There were two admissions during the year, one voluntary admission and one under The Mental Defectives Act.

Three patients were transferred to this hospital from the Provincial Mental Hospital, Ponoka.

Three patients were discharged. One patient was transferred to the Provincial Mental Hospital, Ponoka, for special psychiatric attention. There were two deaths during the year due to cardio-vascular diseases.

Accidents and Elopements.

There were no elopements or accidents during the year.

General Health.

The general health of the patients was good during the year. Emergency X-ray and laboratory tests were done at the Claresholm Municipal Hospital. All patients and staff were X-Rayed by the Mobile X-Ray Unit in October. Tuberculin tests were done on staff and patients and staff received Typhoid vaccine.

Occupational Department.

This department maintained its usual good work. Approximately thirty patients do occupational work under the supervision of the Occupational Department.

A sale of work was held in December and many favourable comments were made on the work.

During the winter months the more deteriorated patients who are usually idle are encouraged to knit, crochet and some of the defective patients are given colouring books, crayons, sewing cards and modelling clay. These patients are supervised in the day room by one of the ward aides.

During the summer months a group of twenty patients is taken out to the garden under the supervision of one of the ward aides. The patients enjoy this greatly.

Recreational Activities.

The United Church Choir visited the hospital at Christmas and Easter and this music is always enjoyed by the patients.

Between fifty and sixty patients go to the local theatre twice each month to see the current pictures.

The usual parties, sports days, bingo parties and dances are enjoyed.

When the weather permits during the winter over fifty patients go for walks and twenty-five or thirty go on parole. In the summer months all the patients are taken out on the lawn.

Beauty Parlour.

This room which was equipped by the funds from the Federal Health Grant is very popular and many of the patients look forward to their weekly shampoo and wave on Saturday.

Religious Services.

The local clergymen conduct services each Sunday afternoon. These services are appreciated by many of the patients.

Dentistry.

As in previous years Dr. Palmer from the Provincial Mental Hospital visited this hospital and examined all patients with teeth and gave the necessary dental care. Emergency dental work was done by the local dentists.

Fire Protection.

The hospital has been visited by the fire inspector during the year and the fire fighting equipment checked. Fire drills are held.

Buildings.

Repairs to the buildings and furniture were carried out by the maintenance staff. The necessary re-decorating was done.

Gardens and Grounds.

The lawns and flower gardens were well kept during the summer.

The vegetable crop was not as abundant as usual due to heavy rains and flooding during the early summer.

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, 1953 there were one hundred and thirty-three patients in residence. There were four transfers received from other Mental Hospitals and five new admissions. The departures were one patient transfer to another Mental Hospital and six deaths leaving in residence December 31st, 1953—one hundred and thirtyfive patients.

Accidents and Elopements.

There were no elopements. There were no accidents causing broken bones or any disability.

General Health.

Two minor surgical operations were necessary. One patient required a Haemorrhoidectomy and one patient had Pterygia removed from both eyes.

Occupational Therapy.

There is a separate Occupational Parlor for all kinds of needlecraft. Other forms of occupation are found in the wards, kitchen, laundry, nurses' home and garden.

Library.

Books are added to the patients' library monthly. Magazines are subscribed to and many of the towns people bring quantities of back numbers, supplying most of the magazines now in print.

Religious Services.

Both Catholic and Protestant Services are held at the hospital once monthly and the two Clergymen preside at patients' funerals when required to do so.

Recreation and Entertainment.

Those patients able to walk the distance are taken to the local theatre twice monthly. Special holidays are celebrated with a concert, a dance or a party. Picnics are held on the lawns in summer and a "Sports Day" in July. The wards are equipped with radio and piano.

Staff Changes.

Staff changes did not involve any senior positions and caused no inconvenience.

Visitors.

Periodic inspections were made by members of the Department of Public Health, Public Works, Fire Department, Electrical and Boiler Inspectors. The Eugenics Board acting as an advisory inspection board made their annual visit.

Gardens and Grounds.

Vegetable crop raised was sufficient for winter requirements. No constructive work was done on the grounds.

Conclusion.

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

PROVINCIAL MENTAL INSTITUTE, EDMONTON A. D. MacPherson, M.D., Medical Superintendent

Patient Population Changes.

On December 31st, 1953 there were in residence 996 male patients and 437 female patients. On leave or otherwise absent were 34 male and 30 female patients. The total patient population on register at the end of the year 1953 was 1,030 male patients and 467 female patients. This gives a grand total of 1,497 patients, a gain of 99 over the previous year.

During the year there were 517 admissions inclusive of "Transfers In". In addition 112 cases were remanded by the authorities for observation and examination. Five juveniles were admitted through the Department of Child Welfare and Juvenile Offenders Branch. This gives a total of 634 admissions for the year.

There were 348 discharges, 6 transfers to other mental hospitals and 64 deaths (36 autopsies).

General Health.

This has been good. There were no serious epidemics. T.A.B. immunization was carried out on all new admissions and all new staff, and booster doses were given where required. Chest X-rays were done on all new admissions and new staff and an annual check was carried out on all patients and staff.

Accidents.

There were no serious injuries and no accidental deaths.

Treatment of Patients.

Electro Shock Therapy was given to 313 patients, and Insulin Shock Therapy to 246 patients. Combined Electro Shock and Insulin Shock were given in many cases. Hydrotherapy was given where indicated but not as extensively as previously. Periodic supporting treatments, mostly Electro Shock, were given in a considerable number of cases.

Group therapy was continued and was found helpful in other types of patients.

The total number of Electro Shock treatments was 6,125 and of Insulin Shock treatments was 5,661.

Occupational Therapy: This department has been more active than ever. In addition to a full-time program in the Occupational Therapy workshop, additional sessions are held in the T.B. Pavilion and on some of the female wards. The average attendance was 120 patients daily. Nearly all patients receiving Insulin and Shock treatments attended this department at the same time.

Social Service: The Social Service Worker has continued to be very busy, not only in the investigation of new patients, but we have been able to have him give more of his time to the discharge patients' rehabilitation and to the field of public relations.

Recreational Activities: The activities of this department have been increased. Our full-time daily schedule has been maintained and the amount of activity on the wards has been increased. The D.V.A. has continued to provide us with shows and dance orchestras and we have had a generous allotment of tickets to all the major sport events in the city.

Library: We were able to make considerable additions to this during the year, and also to establish a smaller library in the T.B. Pavilion. The management of the Library is under the control of the Social Worker.

Beauty Parlor: This is operating on a full-time basis and is very useful.

Religious Services: The Anglican and United Churches have provided services on alternate Sundays. The Lutheran Church has assigned Rev. E. O. Walker to this work and Mr. Walker has been a great help to us. He holds a service every Sunday which all Protestant denominations attend, in addition, he visits the hospital several times weekly. Jewish organizations continue to visit the Jewish patients once a month. The Ukrainian Women's organization send comforts and reading material. The Roman Catholic services were increased from once a month to a weekly basis.

X-ray-Department: This department continues to increase each year. A total of 4,060 examinations were made during the year. This is an increase of 30% over last year. In addition short-wave diathermy treatments were carried out.

Electroencephalograph: A total of 278 E.E.G.'s were done and 48 E.C.G.'s. The technician, also worked part time at Ponoka.

Laboratory: A toal of 10,276 examinations were carried out during the year. This is an increase of 45% over the previous year.

Surgical Service: Most of the major operations are done in our own operating room. The only work referred to the University Hospital were the orthopaedic cases which we are not equipped to handle. Minor surgery and fracture work was, as usual, carried out by our own staff. Nothing of unusual interest in the surgical field occurred during the year except that we did have 7 appendectomies. These are the first appendectomies here for a considerable time.

Dental Department: A total of 2,834 treatments were carried out during the year. All types of dental work were done and all patients in the hospital were examined during the year, and treatments were carried out where necessary. Clinics were held here for dental students from the University. Dr. Scott also did the dental work for Rosehaven.

Training School.

A total of 11 women and 10 men graduated in Psychiatric Nursing in 1953, completing the 3-year course. There were also 121 students in the various years of the 3-year course.

Clinics and demonstrations were given to the graduating classes from all the city hospitals during the year.

Department of Building and Maintenance.

Maintenance work has been kept up very well during the year. The new Administration Building was opened in the fall. This has meant a great increase in the office facilities and has helped the work enormously. In addition, the classrooms in the basement of the Administration Building have facilitated the teaching program.

An extensive redecoration program was carried out in the older buildings during the year. The work of the maintenance branch continues at its high level.

Fire Protection.

Fire practices were held at frequent, regular intervals. Inspections were held by the Fire Marshall's Branch.

Farm.

Farm operations were very successful. The health of the dairy herd has remained good. The grain crop was excellent and was completely harvested.

Garden.

The yield was above average. The vegetables kept very well in storage and, except for certain minor items, we will have enough vegetables to maintain us until the new crop comes in. In addition, surplus vegetables were sent to both the Aberhart Memorial Sanitorium and to Rosehaven, Camrose.

Laundry.

New equipment was added during the year. This department continues to be very busy.

Tailor Shop.

This department has also been very busy. Their work is of great value to the hospital.

Shoe Shop.

Although small, this department does a lot of valuable work.

Sewing Room.

This department is concerned mostly with alterations and repairs. It is very valuable and efficient.

Dietary Department.

More equipment was added to the kitchen. This department continues to function at a very high level.

Police Court.

We continued to act in a consulting capacity for both the City Police and the R.C.M.P. The liaison with both remains good. Although this work takes up a considerable amount of time, we think it is justified by its value to the community and to the Courts.

Business Office.

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

Medical Records Office.

The work of this department is done very efficiently and the present stenographic staff is of high caliber.

Staff.

The staff situation on the male side has remained good. On the female side, for the first time, we have been able to keep our establishment filled. There is still difficulty in getting R.N.'s.

Visitors.

During the year we were visited at regular intervals by Dr. Cross and Dr. MacLean. These visits are always very helpful.

The Visiting Board carried out its annual inspection in the fall and their visit was very enjoyable.

Public Relations.

Both the Social Worker and the Superintendent addressed various organizations in the city on the work of the hospital and various problems in the psychiatric field. It is felt that these contacts are very valuable.

PROVINCIAL TRAINING SCHOOL, RED DEER L. J. LE VANN, M.D., Medical Superintendent

In Residence, Admissions, Discharges, Deaths.

There has been an increase in population at the School from 425 to 476. This includes the admission of 83, of which 60 were male and 23 female. The majority of these admissions were of Imbecile category. Discharges totalled 20, who were found jobs by our Social Worker. Of these Discharges 5 were male, and 15 female. Three (male) were transferred, one to the Provincial Mental Hospital and two to the Provincial Mental Institute. There was a total of 9 deaths, 7 male and 2 female.

Applications for Admission.

There were 79 applications for admission to the School during 1953, the majority of whom were of the permanent custodial type.

This year's applications showed some increase, so that despite the admissions of 83 patients this year the waiting list still contains 449 patients. It is hoped to substantially reduce this waiting list during the early months of the new year with the opening up of two new dormitories and additional beds which have been provided in the Infirmary Ward by approximately 200 admissions.

Eugenics Board Visits, Sterilizations, etc.

The Eugenics Board visited the Training School on four occasions, and a total of 33 presentations were made to the Eugenics Board. Of that number, in conformity with the Eugenics Board recommendations, 28 have already been sterilized, 13 male and 15 female.

Health of Trainess and Staff.

The health of both trainees and staff members has been good. In order to minimize the incidence of poliomylitis, during the summer months the visiting of parents and relatives to the trainees and the acceptance of new admissions to the School was curtailed for four months. Despite the epidemic incidence of poliomylitis in the Province there was not a single case in the Provincial Training School.

Routine immunization of Typhoid, Dyphtheria and Whoopingcough was carried out on all trainees, and all staff members were inoculated against typhoid and paratyphoid. All staff members were also examined for Tuberculosis by Mantoux tests and X-Rays under the aegis of the T.B. prevention services.

Dental Care.

The Dentist spends two full mornings per week at the School for dental inspections and carries out prophylactic and therapeutic work on the trainees at the School. On this basis it is possible to see that every child has a complete dental check at least once every six months.

Training Programme for Nurses and Attendants.

The training programme for nurses and attendants has proved to be very satisfactory. In addition to the regular three years nursing programme, there is a short course provided for all new nursing and attendant staff, which is of an orientation type, and enables new staff to have preliminary training in the work which they will be required to carry out. Whereas, during 1953, the third year students have numbered only seven, the size of the second class will guarantee at least a Graduating class of fifteen for the coming year.

Graduating Exercises were held in May of 1953, at which there were eight Graduates. Visitors included the Honourable Dr. W. W. Cross, Minister of Health, the Honourable David Ure, Minister of Agriculture, Dr. A. Somerville, Deputy Minister of Health, Mr. F. D. Shaw, M.P., and Dr. Randall R. MacLean, Director, Division of Mental Health. The exercises were followed by a supper.

Training Programme for Trainees.

The training programme for the trainees continues to show beneficial results and is reflected in the comparatively high discharge rate at the School. Open wards for the High Grade Trainees is encouraged as much as possible, and this undoubtedly results in greater feelings of confidence in the children, as well as a diminution in the need for disciplinary measures.

Academic Training and Sense Training: The completion of a new school house has greatly facilitated the academic training of the trainees in all respects, and there is undoubtedly better morale amongst the teaching staff in being able to work in a modern, well ventilated school house, with its associated amenities.

Recreation: The Recreation Hall is now available for the majority of the trainee population, and in the evenings for the staff members. A Christmas Concert was held in the Recreation Hall on 22nd December, which was attended by nearly 500 of the population of Red Deer.

Occupational Therapy: This department continues to function at a high level of efficiency, and to further increase the interest and skills of the Occupational Therapists additional training has been made possible for them by being able to attend the Ponoka Mental Hospital to learn further methods and skills which might be made applicable to the Training School.

Vocational and Pre-Vocational Training: A Shoe Repair Shop has been opened at the Training School, and several male trainees are now attending this department regularly and are showing marked proficiency at this work.

The various wards and work departments, such as Kitchen, Dining Room, Laundry, continue to provide the trainees with work experience, in order to develop proper community work habits for them.

Guidance: Guidance interviews continue to be carried out for the trainees who show behavioural or personality disorders by the Social Worker, Educational Psychologist, and other senior staff members.

Social Work Service.

This is proving a great benefit to the School in effecting discharges and paroles for the high grade trainees. In addition to the job placements which go through the Social Worker's department, there are numerous visits to the trainees once they are placed to ensure that they are still looked after at their jobs, and that they are happy and contented, also visits to prospective employers.

Extra School Activities.

There has been a marked increase in the Guidance Clinic activities in Red Deer, associated with the completion of the Guidance Clinic team. The preponderance of work has required the addition of one half day being utilized exclusively for children, where intensive play therapy work has been carried out.

In addition, facilities are now available at the Municipal Hospital so that early cases of Psychosis, as well as Psychoneurotic disorders, can be treated with both Insulin and Electro-convulsant Therapy.

There have been numerous talks given by members of the staff at Rocky Mountain House, Innisfail, Red Deer and outlying districts, to community Clubs and Organizations, also several radio broadcasts. Many of the local Clubs who have "adopted" children at the School, still continue to provide them with pocket money and visits to their homes.

New Construction.

New Ward for High Grade Boys has been commenced. New Ward for lower Grade children should be ready for occupancy in 1954. The roads on the School ground have been paved. New School House (8 rooms) has been completed. New Male Staff Quarters commenced. Expansion for Laundry and Sewing Room completed.

Farm and Garden Produce.

The farm has continued its efficient level of operation. There were some 270 tons of vegetables produced by the farm, which contributed largely to the good and varied diet for both trainees and staff. For the first time in several years it is anticipated that the potato crop will be sufficient to furnish the needs of the School until the new crop becomes available. There has been an diminution of some 30 acres of farm land which has been taken over for the creation of an adult Institution.

The dairy herd has continued to improve, due to the acquisition of a pure-bred bull, and the less desirable cattle have been replaced. The herd has now come under the Accreditation Herd plan, and it is anticipated that at the end of the next two years the herd will be fully accredited.

The School has also applied for Selective Registration, and this is likely to be forthcoming.

Farm Instruction.

This continues, as it has in previous years, under the direction of a Graduate of Agriculture, and the farm boys are receiving a good training in routine farm tasks and chores, and some of the Higher Grade boys are actually receiving training in the maintenance and running of farm machinery, such as tractors, combines, and other farm equipment.

Laundry and Sewing Room.

Due to the increase of low grade population both these departments are working at near capacity level. There is little doubt that in order to keep the custodial type of patient clean and free of skin disease and bed sores, approximately 15 lbs. of linen per day must be utilized for these patients, and this puts considerable strain on both the Laundry and the Sewing Room.

There has been a total of 10,154 articles manufactured in the Sewing Room during 1953, and a total of 116,754 repairs executed.

Kitchen and Dining Room.

These two departments are continuing to function well. Both staff and trainees are receiving a varied, attractively prepared and nourishing diet.

Acknowledgements.

The Medical Superintendent would like at this time to thank both the Senior and Junior Staff at this School for the help and cooperation which they have extended to him, and for the care they have given to the trainee population.

The School is also indebted to the Hon. Dr. W. W. Cross, Minister of Health, and to Dr. Randale R. MacLean, Director, Division of Mental Health, for the valuable help and understanding which they have shown towards the School and its efforts, and there is little doubt that a great measure of the success which the School has achieved has been largely attributable to the co-operation received from them.

ROSEHAVEN, CAMROSE

Movement of Residents.

On January 1st, 1953, the resident population at Rosehaven numbered 249, of which 148 were men and 101 were women. The total number in residence on December 31st, 1953 was 301, 203 men and 98 women, an increase of 50 during the year.

Admissions to Rosehaven during the year numbered 108, 42 from Provincial Mental Hospital, Ponoka; 11 from Provincial Mental Institute, Edmonton, and 41 from St. Joseph's Hospital, Edmonton. 14 returned from Leave of Absence.

Separations numbered 56 throughout the year; 39 of these attributable to death and 17 to Leave of Absence. One resident remained on leave at December 31st, 1953.

Admissions were sent from mental hospitals as beds became available. Forty-one residents from St. Joseph's Hospital were sent in November and accommodated in a new 90-bed unit completed at that time.

Deaths were due to degenerative causes.

Accidents and Elopements.

During the year a number of residents had accidents caused either by falls or interference from other residents. Fourteen of the accidents required actual medical attention, 10 resulted in fractures, 4 in lacerations requiring sutures. Numerous other accidents resulted in extensive contusions or abrasions. There were ten incidents of residents leaving the grounds without permission. In three cases police assistance was required but in the others, the residents were returned by staff members.

General Health.

The general health of the residents is considered good in view of the age group of these individuals. An increasing number required nursing care and a type of influenza reached epidemic proportions during a month of the year. There is a progressive mental and physical decline apparent in the majority of the residents. An average of 31 residents required infirmary care each month and each averaged 13:5 days in bed. There were 28 residents admitted to St. Mary's Hospital from Rosehaven for either surgical, orthopedical or diagnostic care. Outpatient work done at St. Mary's has increased considerably and totalled 134 laboratory tests, 24 X-Rays and 4 other diagnostic tests. Medical attention was supplied by a member of the Smith Clinic of Camrose when the need arose.

Dental examination and care was carried out during the year by a dentist from Provincial Mental Institute, Edmonton.

Occupational Therapy.

There has not been an organized occupational therapy service at Rosehaven. However, individuals were encouraged to do handiwork.

A group of 10 or 20 male residents assist with garden work during the summer months.

Twenty-five individuals assisted in various departments or with light housekeeping duties.

Religious Service.

Weekly Protestant services were held during the year and arranged by the Camrose Ministerial Association. Roman Catholic services were held several times during the year.

Recreation.

Walking parties or lawn groups were taken out each day weather permitting. Several parties were held during the year for residents.

Buildings.

A new 90-bed unit was completed and ready for occupancy in November. Excavation and commencement of a second like unit was begun.

Gardens and Grounds.

Gardens and grounds show little change. Some landscaping was done but excavation for new buildings hampered any extensive work. The vegetable garden produced a small amount of fresh vegetables in season.

Staff.

Only a few changes took place during the year. Four staff members resigned and were replaced.

The services of an additional registered nurse were procured. Additional attendants were required for the new unit as well as staff in other departments.

Health of staff was satisfactory.

Visitors.

The minister of Public Health and Deputy Minister visited during the year.

Visits were made to Rosehaven by the Director of Mental Health at intervals throughout the year.

The Eugenics Board, as a visiting committee, made its yearly visit.

Guidance Clinics

The Provincial Guidance Clinics functioned in the regular manner throughout 1953. The Clinic Centres visited corresponded with those of the previous year. The over-all number of new cases for the year showed a significant increase. The Calgary Clinic obtained the services of a competent Phychiatrist which resulted in resumption of full activities. The Edmonton Clinic functioned fully. A Clinic team from the Provincial 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 discussions 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.

PROVINCIAL GUIDANCE CLINICS, NORTHERN ZONE

The Northern Zone, with permanent headquarters in Edmonton, had a busy Clinic year in 1953. A total of 767 new cases, made up of 500 males and 267 females, and 241 re-registered cases were examined. This shows an increase of 23 new and 11 re-registered cases over 1952. The total work load was 6,202, and an increase of 491 work periods over the previous year. The number of cases carried in treatment has increased. Treatment on the whole has had gratifying results, with few cases in which improvement was not observed. Nearly all the cases carried in treatment have been from the Edmonton area, with the treatment periods at the headquarters location. The general distribution of cases by age group remains substantially the same as in previous years, with 80.4% of new cases in the 5 to 19 years range. The largest single group in the age distribution was that from 5 to 9 years, showing 39.6% of all new cases. 35.1% of new cases were referred from schools; 23.6% from community agencies; 19% from private physicians; 14.3% attended voluntarily; and the remainder were from all other sources. During the year there were 157 periods given to educational activity in the community by members of the Clinic staff. Many of these periods were spent in addressing community groups, such as Home and School meetings. The decrease in educational activity is due to revised demonstration time for Public Health Nurses.

City of Edmonton.

New cases examined numbered 474, and there were 185 cases re-registered during the year. The total work load was 4,931, an increase of 620 periods over 1952.

Barrhead-Westlock.

Clinics at Barrhead dealt with 17 new and 3 re-registered cases. The work load was 73. No Clinics were held at Westlock.

Camrose-Wetaskiwin.

Clinics at Wetaskiwin examined 21 new cases, and 7 re-registered cases, with a work load of 104. There were no Clinics held at Camrose.

Holden-Wainwright.

At these two points 23 new cases were seen and 7 re-registered cases. The work load was 103 periods.

Athabasca-Lac La Biche.

No clinics were held at Lac La Biche in 1953. There were 23 new cases and 4 re-registered cases seen at Athabasca with a work load of 89.

Bonyville-St. Paul-Two Hills.

Total new cases examined at these three points was 44, and 5 reregistered cases. Work load was 160.

Vegreville-Vermilion.

Fifty-five new cases were seen in these areas and 17 re-registered cases. The total work load was 285.

Peace River-Grande Prairie.

There were 105 new cases and 13 re-registered cases examined. The total work load was 457. The Clinic visited this district twice, for two weeks on each occasion, once in the spring and once in the fall. Because of very inclement weather Clinics at two points had to be cancelled on the spring trip.

PONOKA DISTRICT GUIDANCE CLINIC

The clinics in this district were, as previously, served by members of the Provinical Mental Hospital staff. Clinics were scheduled approximately every other month at Ponoka, Rimbey, Stettler and Castor. Twenty-five new and nine re-registered cases were examined, with a total work load of 147. This is a decrease from 1952. Thirty-nine per cent of the cases were referred by schools, 21% by community agencies, 21% by private doctors, and the remainder by various other sources.

Ponoka-Rimbey.

One clinic was held at Ponoka, and one at Rimbey. Several additional cases were examined at the Hospital by various members of the Provincial Mental Hospital staff. Sixteen new and 17 reregistered cases were seen, with a work load of 53.

Castor.

Two clinics were held at Castor. Seven new and three reregistered cases were seen, making a work load of 39.

Stettler.

Two clinics were held at Stettler. Five new and three re-registered cases were examined. The work load was 55.

RED DEER GUIDANCE CLINIC

The Red Deer Guidance Clinic operated as a complete team during the year of 1953. Clinics during the early part of the year were held at the rate of two afternoons per week and towards the end of the year, as the children's work load increased, it was necessary to include one additional half day for child Play-Therapy sessions.

During the year, the Clinic team took part in many parentteacher association meetings and radio broadcasts. The work load for the Clinic shows a marked increase compared with the same period of 1952, when the Clinic team was incomplete. There was a total of 98 sessions held during the year. There were 103 new patients seen and 33 patients continued as a carry-on from the previous year. In co-operation with the Medical Clinics at Red Deer, there was a total of 38 electro-convulsant-therapy treatments and four patients were given courses in modified insulin therapy.

Whereas in previous years there was a high preponderance of adult psychoneurotic cases being seen, this year showed a marked increase in the number of children referrals, both from medical practitioners and schools. These were principally cases associated with behaviourial difficulties and childhood psychoneurosis. The total number of patient interviews was 347.

PROVINCIAL GUIDANCE CLINICS SOUTHERN ZONE

There have been many changes in the staff at the Calgary Provincial Guidance Clinic during 1953. The services of a full-time Psychiatrist were available from March to September and since that time, on a part-time basis. There is the addition of another Psychologist to the staff in June, 1953.

The outside Clinic trips have been somewhat changed. The main Clinic trip each month is the Lethbridge-Medicine Hat trip which, every second month, also includes Cardston. These three centres present an appreciable number of referrals each month. It has been found possible to do this work using three days, by giving the Psychologist and Social Worker more responsibility in handling the school work, while the Psychiatrist spends most of his time with the adult psychiatric referrals. Brooks has been included in the Medicine Hat Clinic. Visits will continue to be made to Drumheller, High River and Claresholm.

It is noted that the case load has increased very appreciably during 1953 to a figure of 5,725, in comparison to 1952, when the work load was 3,322. The number of new cases examined at Calgary during the year increased from 242 to 366. It is to be noted that Calgary, as in past years, represents the largest service extended by the Clinic. During the year of 1953 there was a considerable increase in the number of psychotic and psychoneurotic patients examined by the Clinic. There was also a larger percentage in the number of patients seen in the adult group over age twenty-five. This represents the increased work carried out by the Clinic with adult patients.

The emphasis on the work in the City of Calgary is on therapy with disturbed children and adults. The work carried out on the Clinic trips to other points, by necessity, is mainly in the field of diagnosis and advice.

City of Calgary.

The total work load for the year was 4,630. This figure, in general, represents helpful work with new and old cases and contacts with relatives.

Lethbridge.

Ten trips to Lethbridge were made during 1953. Seventy-six new cases were examined and 26 re-registered cases were seen, with a total work load of 336.

Medicine Hat.

Ten trips were carried out to Medicine Hat, with the Brooks cases being examined at that location. There were 82 new cases and 24 re-registered ones.

Claresholm-High River.

High River was visited three times and Clarsholm once. There were 27 new cases at High River and six at Claresholm, with reregistered cases numbering eight at High River and one at Claresholm.

Cardston.

Cardston was visited four times, with a total of 30 new cases and three re-registered, the total work load being 14.

Didsbury.

Four visits were made to this location, with 20 new cases and six re-registered cases.

One Clinic was carried out at Vulcan, also one at Drumheller and one at Cochrane during the year.

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SUMMARY OI PERIOD, I			WS, I		HOL	OGI		AMINA	XAMINE TIONS,	D, TREA	TMENT
Clinic Districts	New Cases M. F. T.			Re-register- ed Cases M. F. T.			Distribution of Work Pat. Col. Gen. P.E.				Total Work Load
Edmonton and District	500	267	767	139	102	241	1798	2288	1214	902	6202
Calgary and District	346	276	622	102	84	186	2352	2018	794	561	5725
Ponoka and Red Dear District	69	62	131	26	16	42	382	174	47	91	694
Totals	915	605	1520	267	202	469	4532	4480	2055	1554	12621

NOTES:

Total new cases examined since the Clinics opened in 1929 is now 14,630.

Edmonton and District includes all the area served from Wetaskiwin north. This is the Northern Zone. It includes Clinics in the Peace River-Grande Prairie area, and such points as Athabasca, Barrhead, Bonnyville, Holden, Lac La Biche, St. Paul, Two Hills, Vegreville, Vermilion, Wainwright and Wetaskiwin.

Calgary and District includes the areas served from Didsbury south. This is the Southern Zone. It includes Clinics held at such points as Cardston, Claresholm, Didsbury, Drumheller, High River, Lethbridge, Medicine Hat.

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, Rimbely, Red Deer and Rocky Mountain House.

Re-registered cases are those that have been examined previously at a Clinic, and are 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 intreviews 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.
The Eugenics Board

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

The Eugenics Board of the Province of Alberta held nine meeting during the year of 1953. All of these meetings were held at the Provincial Mental Hospital, Ponoka, and the Provincial Training School, Red Deer.

Cases Presented.

The Board considered 81 cases. There were 43 male and 38 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 81 cases passed by the Board during the year, 41 had been first examined at a Provincial Guidance Clinic, although some of these had been institutionalized before presentation. This group of 41 cases was made up of 23 males and 18 females.

Operations.

Operations were performed on 51 cases during the year, 21 being male and 30 female. All of these operations were performed at the Provincial Mental Hospital, Ponoka, with the exception of one case which was operated upon at the University of Alberta Hospital, Edmonton, at the request of the parents.

The surgical operations mentioned above were performed by the Surgical Consultants Dr. J. W. Richardson, of Calgary, or Dr. J. Ross Vant, of Edmonton.

Dr. W. R. Fraser was official substitute for Dr. E. R. Selby at the meeting held at the Provincial Mental Hospital, Ponoka, on October 2nd, 1953.

As in previous years the Eugenics Board wishes to express its sincere appreciation and thanks to the Director, 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.

CASES PRESENTED AND PASSED (To 31st December, 1953)

		Y	early To	tals		ulative	
		Male	Female	Totals	Male	Female	Totals
1929-	1933	87	201	288	87	201	288
1934-		557	438	995	644	639	1283
1939-	1943	339	299	638	983	938	1921
1944			73	129	1039	1011	2050
1945			64	118	1093	1075	2168
1946			53	105	1145	1128	2273
1947			53	91	1183	1181	2364
1948			68	105	1220	1240	2469
1949			57	109	1272	1306	2578
1950			60	97	1309	1366	2675
1951			48	82	1343	1414	2757
1952			36	57	1364	1450	2814
1923		. 21	38	81	1407	1488	2895

OPERATIONS ONLY

(To 31st December, 1953)

	Y	early To	tals	Cum	ulative	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	. 122	151	273	368	549	917
1944		27	40	381	576	957
1945		29	47	399	605	1004
1946		31	55	423	636	1059
1947		15	31	439	651	1090
1948		22	38	455	673	1128
1949		27	47	475	700	1175
1950		46	67 -	496	746	1242
1951		41	57	512	787	1299
1952		18	24	518	805	1323
1953	. 21	30	51	539	835	1374











OF THE

Vital Statistics Division

OF THE

DEPARTMENT OF PUBLIC HEALTH PROVINCE OF ALBERTA



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Vital Statistics Division

(ARTHUR PACKFORD, Deputy Registrar General)

This is the Forty-ninth Annual Report of the Vital Statistics Division of the Department of Public Health and is for the year 1953. The new set of tables, which were adopted for uniform use by all the Provinces for their 1952 reports, have been very satisfactory and will continue to be used for this and subsequent reports.

POPULATION

The population of the Province for 1953 has been estimated by the Dominion Bureau of Statistics as 1,002,000. All rates in this report are therefore based on that figure. The table on page eight shows the population by census divisions, municipalities, towns and villages for the census years 1941 and 1951.

BIRTHS

The number of children born to residents of the Province numbered 31,376. This was 2,271 more than the previous year, the birth rate of 31.3 being the highest in Canada with the exception of Newfoundland and the highest ever recorded for the province. Of the total births, 16,169 were males and 15,207 were females, the ratio being 1,063 males to each 1,000 females. Twenty-nine thousand four hundred and seventy-five of these children were born in hospitals. Multiple births comprised 318 sets of twins and four sets of triplets. Illegitimate births numbered 1,559, the rate being 4.8 per cent of all live births.

The births of Indian children numbered 1,495. Of these, 797 were treaty Indians.

The number of births to residents of the four large cities were as follows: Edmonton, 6,529; Calgary, 4,285; Lethbridge, 797, and Medicine Hat, 438. The total number of births in these cities were: Edmonton, 9,260; Calgary, 5,803; Lethbridge, 1,353, and Medicine Hat, 724.

There were 902 legal adoptions in the Province and 70 Albertaborn children were adopted elsewhere. One thousand and sixty delayed registrations of birth were completed. There were 407 legal changes of surname recorded and 479 changes of Christian names were filed. The births of 80 children were legitimated by the subsequent marriage of the parents.

The following table shows the birth rate for Canada, the provinces and certain other countries for 1953:

BIRTH RATES

	DIMIN .	MALES	
Canada	28.2	Australia	22.9
Newfoundland	33.4	New Zealand	24.1
Prince Edward Island	25.8	United States	24.7
Nova Scotia	27.6	Denmark	17.7
New Brunswick	30.7	Finland	21.8
Quebec	30.2	France	18.6
Ontario	26.5	Italy	17.5
Manitoba	26.3	Netherlands	21.8
Saskatchewan	27.5	Austria	14.5
Alberta	31.3	Norway	18.9
British Columbia	25.8	Portugal	23.4
England and Wales	15.5	Spain	20.6
Scotland	17.8	Sweden	15.4
Northern Ireland	20.9	Switzerland	17.0
Eire	21.4		

DIVORCES

There were 603 final decrees of divorce granted during the year, 27 less than the previous year but one less than the average for the five preceding years. One decree of nullity was also granted.

MARRIAGES

Marriages registered during the year numbered 10,126, being 612 more than the previous year and 928 more than the average for the preceding five years, the rate being 10.1 per 1,000 population, the highest marriage rate in Canada. Four hundred and fifty-six of the bridegrooms were under 20 years of age and 23 were 75 years or over; 369 were widowers and 506 were divorced; 2,981 of the brides were under 20 years of age and eight were 75 years or over. Four hundred and eighty-three of the brides were widows and 484 were divorced. The number of marriages in the four large cities were as follows: Edmonton, 2,876; Calgary, 2,091; Lethbridge, 402, and Medicine Hat, 288. The marriage rates for Canada, the provinces and certain other countries was as follows:

MARRIAGE RATES

1912	AUTHAGE	AAA I GO	
Canada	8.9	Australia	8.0
Newfoundland	7.2	New Zealand	8.4
Prince Edward Island	6.1	United States	9.9
Nova Scotia	8.1	Denmark	7.7
New Brunswick	7.9	Finland	7.7
Quebec	8.4	France	7.1
Ontario	9.4	Italy	7.1
Manitoba	9.0	Netherlands	8.2
Saskatchewan	8.3	Austria	7.8
Alberta	10.1	Norway	7.9
British Columbia	9.2	Portugal	7.8
England and Wales	7.8	Spain	7.6
Scotland	8.0	Sweden	7.3
Northern Ireland	6.8	Switzerland	7.6
Eire	5.3		

DEATHS

The deaths of 7,646 residents of the Province were registered during the year, of which 313 were Indians. Of these deaths, 4,786 were males and 2,860 were females. There were 301 more deaths than in the previous year, the death rate being 7.6 per 1,000 population, the same rate as the two preceding years. Six hundred and ninety-nine males and 516 females were 80 years of age or over. The number of deaths of residents of the four larger cities were as follows: Edmonton, 1,354; Calgary, 1,324; Lethbridge, 208, and Medicine Hat, 179. The actual number of deaths which occurred in these cities were as follows: Edmonton, 1,871; Calgary, 1,529; Lethbridge, 271, and Medicine Hat, 202. The chief cause of death, diseases of the heart, accounted for 2,274 deaths, slightly higher than the previous year's total of 2,247, the rate being 227.0 per 100,000 population.

Death from all forms of cancer numbered 1,129 and the rate was 112.7. The polio epidemic caused 108 deaths, and one death was classified to the late effects of acute poliomyelitis. The polio epidemic of the previous year caused 79 deaths.

There was again a very considerable decrease in deaths from tuberculosis. Deaths from tuberculosis, all forms, numbered 68. Of these, 25 were Indians. Pulmonary tuberculosis caused 47 deaths and of these 14 were Indians, the rate being 6.8 per 100,000 population, the lowest in Canada with the exception of Ontario.

There were 33 deaths from influenza and 324 from pneumonia. Violent and accidental deaths totalled 739, comprising motor vehicle

accidents, 263; other transport accidents, 42; accidental poisoning, 31; accidental falls, 76; accidents caused by machinery, 31; accidents caused by fire and explosion of combustible materials, 57; accidents caused by hot substances, corrosive liquid, steam and radiation, 5; accidents caused by firearms, 18; accidental drowning, 42; all other accidental causes, 92; suicides, 72, and homicides, 16.

The death rates for Canada, the provinces and certain other countries are as follows:

DEATH RATES

Canada	8.6	Australia	9.0
Newfoundland	7.1	New Zealand	8.8
Prince Edward Island	8.7	United States	9.6
Nova Scotia	8.8	Denmark	9.0
New Brunswick	8.7	Finland	9.6
Quebec	8.1	France	12.8
Ontario	9.2	Italy	10.0
Manitoba	8.7	Netherlands	7.7
Saskatchewan	7.8	Austria	11.9
Alberta	7.6	Norway	8.3
British Columbia	9.9	Portugal	11.3
England and Wales	11.4	Spain	9.7
Scotland	11.5	Sweden	9.7
Northern Ireland	10.7	Coultmentand	10.6
Eire	11.8	Switzerland	10.0

MATERNAL DEATHS

Deaths from puerperal causes numbered 21, as compared to 15 for each of the two previous years, the rate per 1,000 live births being 0.7.

MATERNAL DEATH RATES PER 1,000 LIVE BIRTHS

Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick	1.5 0.7 0.8 1.0	Ontario Manitoba Saskatchewan Alberta British Columbia	0.8 0.5 0.7	
Nova Scotia	0.8 1.0	Alberta	0.7	

INFANT DEATHS

The deaths of children under one year numbered 930. Of this number, 520 were males and 410 were females. Two hundred and eighty-seven of these children were under one day old, 484 were under one week, and 570 were under the age of one month. The infantile death rate was 30 per 1,000 live births, the same rate as the previous year.

INFANT MORTALITY F	RATES PH	ER 1.000	LIVE	BIRTHS
--------------------	----------	----------	------	--------

Canada	35	Eire	39	
Newfoundland	47	Australia	24	(1952)
Prince Edward Island	28	New Zealand	20	
Nova Scotia	32	United States	29	(1952)
New Brunswick	45	Denmark	29	(1952)
Quebec	45	Finland	34	
Ontario	28	France	38	
Manitoba	35	Italy	59	
Saskatchewan	34	Netherlands	22	
Alberta	30	Austria	51	(1952)
British Columbia	27	Portugal	96	
England and Wales	27	Spain	60	
Scotland	31	Sweden	19	
Northern Ireland	38			

Stillbirths registered during the year numbered 476, seventyseven more than the previous year. Of these, 268 were males and 208 were females, the rate being 15.2 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.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1951

Distance of Cash distance	Total		Division and Cub division	Total		
Division and Subdivision	1951	1941	Division and Subdivision	1951	1941	
ALBERTA	939,501	796,169	Division No. 2-Continued:	an el cut		
Rural		489.583		E R B		
Urban	488,188	306,586	Villages:	1	1	
		1	Coaldale	806	29	
Division No. 1	35,879	29,595	Cowley	119	123	
Rural	14,033	16,408	Frank	239	20	
1. I.D.		370	Stirling	520	43	
2. Burlington		3,084		102 50		
4. Warner		3.617	Division No. 3	17,132	15,51	
11. I.D.	2,251	3,312	Rural		12,15	
13. Bow Island	1.740	2.435	21. I.D.	1,605	2,412	
14. Eureka	3,909	3,323	22. I.D.	702	63	
25. Barons (pt.)	252	267	23. I.D.	1.459	1.35	
Urban	21,846	13,187	28. Newell (pt.)	6.310	5.47	
Cities:			34. Acadia (pt.)	19	-	
Medicine Hat	16.364	10,571	Army Experimental	1.1.1	No. 1	
Towns:			Range	394	305	
Bow Island	653	291	Berry Creek-Sullivan			
Irvine	224	240	Lake Area (pt.)	598	753	
Taber	3,042	1.331	Bow West Area (pt.)	700	86	
Villages:	1000		Vulcan No. 2 (pt.)	214	331	
Burdett	118	123	Urban	5.131	3.36	
Foremost	375		Towns:			
Grassy Lake	167		Bassano	624	583	
Milk River	481	335	Brooks	1.648	888	
Warner	422	296	Redcliff	1.538	1,111	
	-		Villages:	1000		
Division No. 2	71,480	58,563	Duchess	258	149	
Rural			Empress	411	341	
5. Sugar City	5.038	4.749	Enchant		76	
6. Cochrane	3,475	4,233	Jenner	in the second	2	
8. I.D.	39	2	Tilley	259	193	
9, Pincher Creek	3,149	3,363	Vauxhall	393		
10. I.D.	4,828	4,149				
16. Bright	2,231	2.427		and and a		
25. Barons (pt.)	8,843	6,693	Division No. 4	28,984	29,383	
26. Argyle (pt.)	1.139	1,516	Rural	19,124	22.315	
27. I.D. (pt.)	83	162	25. Barons (pt.)	3.866	3.920	
Waterton Lakes Nat. Prk.	238	269	26. Arvgle (pt.)	1.602	1.803	
Indian Reserves	2,555	2.162	27. I.D. (pt.) 31. Highwood	83	107	
Urban	39,862	28,838	31. Highwood	4,916	4,921	
Cities:			32. Turner Valley (pt.)	4.088	6.175	
Lethbridge	22,947	14,612	33. I.D.	31	28	
Towns:		100	Bow West Area (pt.)	524	766	
Blairmore	1,933	1,731	Vulcan No. 2 (pt.)	3,850	4,595	
Cardston	2,487	1,864	Indian Reserves	164		
Claresholm	1,608	1,265	Urban	9.860	7.068	
Coleman	1,961	1,870	Towns:			
Granum	327	238	High River	1.888	1.430	
Macleod	1.860	1,912	Nanton	934	718	
Magrath	1,320	1,207	Okotoks	767	591	
Pincher Creek	1,456	994	Stavely	327	273	
Raymond	2,279	2,089	Vulcan	1.040	732	

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1951—Continued

Division and Subdivision	Total		Division and Subdivision	Total	
1001 Creek	1951	1941	un ma	1951	1941
Disister No. 4. Continueds			Disision No. 6. Continued		
Division No. 4-Continued:	1		Division No. 6-Continued:		
Villages:	1000	and the	Villages-Continued:		
Arrowwood			Standard	237	21
Barons			Swalwell		11
Black Diamond			Trochu	630	48
Blackie Carmangay			Division No. 7	32,334	33,28
Cayley			Rural	22,612	26.11
Champion	378	320	52. Provost	3,610	4.7.
Lomond			53. Paintearth	3,073	4.1
Milo			61. Wainwright (pt.)	3,583	4.7
Nobleford Bioture Butto			62. Flagstaff	6,129 1,235	7,8
Picture Butte Turner Valley	719		73. Beaver (pt.) Berry Creek-Sullivan	1,600	1.0
runner vancy	1	010	Lake Area (pt.)	101	14
Division No. 5	16,129	18,926	Sounding Creek-Neutral		
Rural	12,328	15.560	Hills Area (pt.)	2,173	3,01
34. Acadia (pt.)	686		Buffalo Nat. Park 6	2,708	
42. I.D. (pt.)	2,642		Urban	9,722	7,10
47. Starland	2,472	3,289	Towns: Castor	700	0
Berry Creek-Sullivan Lake Area (pt.)	3,252	4.658	Coronation	798 738	63 51
Sounding Creek-Neutral	0,202	4,000	Hardisty		4
Hills Area (pt.)	3.186	4,521	Wainwright	1,996	9
Urban	3,891	3.366	Villages:	1.000	
Towns:			Alliance	281	2:
Hanna	2,027	1,622	Cadogan		-
Villages: Cereal	105	140	Chauvin	340	3
			Consort Czar	396 123	20
Chinook Craigmyle			Edgerton	309	2
Delia			Forestburg	443	2
Morrin			Galahad		1
Munson	78		Hughenden		16
Oyen			Irma	369	21
Rumsey			Killam		34
Youngstown	352	188	Lougheed	186	19
Division No. 6	195 352	146 990	Monitor Provost		51
Rural	50.436	46.679	Sedgewick	485	32
28. Newell (pt.)		668	Strome		23
32. Turner Valley (pt.)	67	84	Veteran	206	11
40. Bow Valley			Viking	683	49
41. I.D.	155	212	Division No. 8	22.007	07 01
42. I.D. (pt.) 43. Serviceberry	4,292 3,091	4,011 3,706	Rural		67,63
44. Conrich			54. Stettler	6.007	7.10
45. Springbank			55. Red Deer (pt.)		7.75
46. I.D.			63. Camrose	10,895	12,23
48. Kneehill	7,263		64. Lacombe (pt.)	6,307	6,58
49. Mountain View		9,800	66. Ponoka (pt.)	5,850	6,4
50.I.D.	1,067	1,085	73. Beaver (pt.)	383	- 56
51. Banff Nat. Park	2,856	2,545 1,859	74. Wetaskiwin (pt.)	6,216 1,554	7,20
Indian Reserves	144.916	100 311	Indian Reserves	30,032	18,3
Cities:	111,010	TONIOTE	Cities:	00,000	10,01
Calgary	129,060	88,904	Red Deer	7,575	2,92
Drumheller	2,601	2,748	Wetaskiwin	3,824	2,31
Towns:		000	Towns:		
Didsbury	1,180	892	Camrose	4,131	2,59
Gleichen Olds	430	435 1,337	Daysland Innisfail	475	43
Olds Strathmore	704	560	Lacombe	2,277	1.60
Three Hills		706	Ponoka	2,574	1,30
Villages:			Stettler	2,442	1,29
Acme	275	285	Villages:		
Airdrie	267	191	Alix	461	36
Beiseker	325	240	Bashaw	603	49
Bowness	2,922	409	Bawlf Big Valley	236 307	21 25
Carbon Carstairs	468	371	Big Valley Bittern Lake	25	
Cluny	202	138	Blackfalds	154	1
Cochrane	530	298	Botha	98	î
Crossfield		409	Clive	241	22
Forest Lawn	1,079	899	Delburne	395	30
Hussar	120	116	Donalda	318	20
Irricana		172	Edberg	188	1
Langdon		95 201	Elnora	211	19
Rockyford	246	201	Erskine Ferintosh	205	10

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1951—Continued

Division and Subdivision	Total		Division and Subdivision	Total		
Letter Lawy	1951	1941		1951	1941	
Division No. 8-Continued:	100		Division No. 11-Continued:	120	-	
Villages-Continued:			Rural-Continued:	100.00	Innau	
Gadsby			90. Sturgeon (pt.)	6,365	5,11	
Gull Lake Halkirk			91. Morinville (pt.) 93. Lac Ste. Anne (pt.)	3,307	3,54 5,65	
Ma-Me?O Beach			Elk Island Nat. Park	1,000	5,05	
Millet	402		Indian Reserves		99	
Mirror New Norway			Cities:	180,495	99,79	
Ohaton		53	Edmonton	159,631	93,81	
Penhold		183	Towns:			
Division No. 9	31,627	32,232	Beverly Devon		98	
Rural	000000		Fort Saskatchewan		90	
55. Red Deer (pt.)	5,653	5,735	Jasper Place	9,139		
56. Waterloo	1,237	1,402	Leduc		87	
57. Raven			Morinville St. Albert	892 1.129	58 69	
64. Lacombe (pt.)	2,482	2,670	Stony Plain	878	56	
65. I.D.	4,145		Tofield	692	55	
66. Ponoka (pt.) 68. I.D.			Villages: Alberta Beach	79	5	
69. I.D.			Calmar	944	5	
76. I.D. (pt.)	3,398	3,877	Hay Lakes	231	15	
79. I.D. (pt.)	1,166		Lakeview	15	1.0	
80. Jasper Nat. Park Indian Reserves	282	1,022	Onoway Sangudo	189 269	15 17	
Urban		3,187	Seba Beach	103	8	
Towns:			Thorsby	385		
Rimbey Rocky Mtn. House	757	410 800	Wabamun	++++++	20	
Sylvan Lake	985	805	Division No. 12	17,704	17,43	
Villages:			Rural	14,907	15,49	
Bentley		279 234	77. I.D.	1,325	1,82	
Bowden Eckville			78. I.D. 79. I.D. (pt.)	1,511 2,826	1.87	
North Red Deer		524	93. Lac Ste. Anne (pt.)	2,208	2.48	
Sundre	337		94. Pembina	2,688	3,46	
vision No. 10	50,016	58,807	95. I.D. 96. I.D.	2,561	2,56	
Rural		49,982	108. I.D. (pt.)	114	100	
61. Wainwright (pt.)	269	425	109. I.D. (pt.)	1,343	1,209	
71. Vermilion River (pt.) 72. Minburn	9,817 5,909		110. I.D. (pt.)	32	3:	
73. Beaver (pt.)			111. I.D. (pt.) Urban	2,833	1,934	
81. Eagle	10,094	14,483	Towns:	12	1,00	
82. Lamont			Edson	1,956	1,49	
Urban Towns:	12,236	8,825	Villages: Entwistle	North St	21	
Lloydminster (pt.)			Mayerthorpe	472	21	
Mundare	596	756	Wildwood	405		
Vegreville Villages:	2,223	1,696	Division No. 13	30,152	99 17	
Andrew	625	326	Rural	26,775	33,172 30,803	
Bruderheim		237	71. Vermilion River (pt.)	434	587	
Derwent		240 171	85. I.D. 86. St. Paul	289	51:	
Hairy Hill			87. Bonnyville	8,941 1.474	10,122	
Holden	504	361	88. Glendon	1,547	1,96	
Innisfree Islay		253 132	89. Smoky Lake (pt.)	3,282	4,837	
Kitscoty	235	234	101. I.D. 102. I.D. (pt.)	5,601 2,791	6,253	
Lamont	637	438	103. I.D. (pt.)	23	5	
Lavoy Mannville	122 528	178 396	Indian Reserves	2,393	1,855	
Minburn	186	289	Towns: Bonnyville	1,139	603	
Myrnam		216	St. Paul	1,407	1,018	
Ranfurly	100	129	Villages:			
Ryley Two Hills	406 525	323 210	Bellis Elk Point	150	12	
Willingdon	281	420	Elk Point Vilna	453 378	311	
	100 10 100					
Division No. 11 Rural			Division No. 14	46,791	47,895	
73. Beaver (pt.)	2,439	2,997	Rural 89. Smoky Lake (pt.)	39,254 6,775	44,526	
74. Wetaskiwin (pt.)	56	39	90. Sturgeon (pt.)	2,430	3,160	
75. Leduc 76. I.D. (pt.)			91. Morinville (pt.)	2,504	2,838	
83. Strathcona	6.982	1,479 6.725	92. Westlock 93. Lac Ste. Anne (pt.)	9,797 2,629	10,469	
84. Stony Plain	7 001	10,061	102. I.D. (pt.)	any Conce	0,000	

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNI-CIPALITIES FOR CENSUS YEARS, 1941 AND 1951—Continued

	1 1		Division and Subdivision		
	1951	1941		1951	1941
Division No. 14—Continued:			Division No. 16	32,439	30,349
Rural-Continued:		1215 121	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.		348	136. Fairview		2,32
Indian Reserves			138. I.D. (pt.)		1,61
Urban	. 7,537	3,373	139. I.D.	3,007	2,74
Towns:		-	Grande Prairie No. 1	10,198	11,18
Athabasca		578	Indian Reserves		16
Barrhead		399	Urban	6,808	4,00
Lac La Biche		517	Towns:	000	
Redwater			Fairview	929	43
Westlock	1,111	590	Grande Prairie	2,664	1,72
Villages:	010	100	Villages:		
Clyde		160	Beaverlodge	514	33
Legal		462	Berwyn	288	20 10
Radway		430	Clairmont	564	16
Smoky Lake		400	Grimshaw		24
Thorhild Waskatenau		237	Hythe Rycroft		24
waskatenau	200	201	Sexsmith	331	32
Division No. 15	21,663	17,484	Spirit River		27
Rural		16.020	Wembley	251	18
108. I.D. (pt.)		917	in callorey		
109. I.D. (pt.)		160	Division No. 17	11.587	9,71
110. I.D. (pt.)		75	Rural		9,71
111. I.D. (pt.)		267	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.	2,138	1,687	131. I.D. (pt.)	179	5
130. I.D.	4,195	4,327	137. I.D.	124	4
131. I.D. (pt.)	2,185	1,829	138. I.D. (pt.)		1,97
Indian Reserves	1,066	1,154	143. I.D.	1,158	2,31
Urban	. 4,700	1,464	144. I.D.	115	3
Towns:			145. I.D.		9
High Prairie			146. I.D.		27
McLennan			147. I.D.		1,37
Peace River	1,672	873	148. I.D.		1
Villages:		044	149. I.D.	39	6
Falher		244	Wood Buffalo Nat. Park	36	2 50
Grouard	0.00	347	Indian 'Reserves	2,862	2,50
Kinuso		18	Urban Towns:	621	
111. I.D. (pt.)				621	
132. I.D.	2,905	2,110	McMurray	021	

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Naonatal Matarnal		570 21	20 11 12 12 12 12 12 12 12 12 12	INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1953	N-1	deaths deaths	
Infant	10000	930	842442388888888888888888888888888888888	OVER, A		deaths	9116980
Hosnital	deaths	4,927	166 364 81 81 81 81 81 152 152 134 134 133 133 23 85 85 85 85 85 85	ION AND	Homital		A starting and a
-	deaths	7,646	303 574 574 118 246 651 651 651 2386 651 133 195 323 195 323 195 3195 3195 3195 3195 3195 3195 3195	POPULAT	Total	s deaths	25 19 15 15 15 15 12 12 12 12 12 12 12 12 12 12 12 12 12
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	Stillbirths Marriages	476	44 66 135 135 135 14 18 18 18 18 18 18 18 18 18 18 18 18 18	IN PLACES	SHIIL-	births	4 8 54 8 1 1 1 3 1 1 1
legitimate	births	1,559	1038 1038 1038 1038 1038 1038 1038 1038	ATED URBA	Theofti-	-	1255
Live births I		29,475	1,023 2,060 447 447 342 347 347 6,372 546 1,174 8,779 546 1,174 8,779 546 1,1298 1,298 944 212	INCORPOF	T.hve	Female hospital	2889928
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LIVE BIRTHS	Male	16,169	256 259 259 259 253 253 253 201 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 1,166 2,35 2,35 2,35 2,35 2,35 2,35 2,35 2,35	TAL STAT	LIVE	Total N	25 25 25 25 25 25
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	CENSUS DIVISIONS	ALBERTA	Division No.1Division No.2Division No.3Division No.5Division No.6Division No.6Division No.8Division No.9Division No.10Division No.11Division No.13Division No.13Division No.13Division No.14Division No.13Division No.14Division No.15Division No.16Division No.16Division No.16Division No.17	TABLE 2-GENERAL SUMMARY OF VITAL STATISTICS		CITY, TOWN OR VILLAGE	Athabasca Barrhead Beverly Black Diamond Blairmore Bonnyeile

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TABLE 3-DEATH

	Total			-			PLACE	OF	RESIDENCE	CE					
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) Newfoundland Prince Edward Island Nova Scotla Nova Scotla New Brunswick Quebec Ontario Manitoba Manitoba Alberta British Columbia	2,751 2,751 5,820 5,820 4,718 34,303 45,497 7,059 6,593 6,593 6,593 7,0682 12,181 12,181	2.7	926 903 88 87 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5,8	4,637 3 4,532 13 13 13 13 13 13	34,469 33,996 33,996 33,996 33,996 33,996	45,242 3 1 1 1 1 1 1 1 1 1 1 1 44,739 1 1 3 1 1 44,739 1 1 6	7,015 7,015 6,888 6,888 10	6,687 6,490 6,490 18	7,646 1 12 12 12 12 12 12 137	12,218 11 15 112,037	110 11 11 11 11 11 10 10	12 12 12 12 12 12 12 12 12 12 12 12 12 1	616 304 304 512 254 512 516 516 516 516 516 516 516 516 516 516	61 10 10 10 10 10 10 10 10 10 10 10 10 10 1
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VITAL STATISTICS BRANCH

ALERSION IN MUSICAL	1	TOTAL	DEATHS	5	DEAT	THS IN	HOSPI	TALS
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	7,682	7,646	176	140	4,948	4,927	105	84
Division No. 1 Division No. 2	284 604	303 574	35 83	54 53 35	148 388	166 364	21 65 12	31 4 31
Division No. 3 Division No. 4 Division No. 5	106 187 86	118 246 127	83 23 18 8	35 77 49	62 89 38	81 152 76	12 4 2 175	3. 6 4
Division No. 6 Division No. 7	1,939 232	1,833 286	234 12	128 66	1,306 108	1,219 154	5	8
Division No. 8 Division No. 9 Division No. 10	722 154 265	651 208 323	176 31 27	105 85 85	466 77 173	407 134 229	143 15 11	81 51 87 6
Division No. 11 Division No. 12	2,118 71	1,809 110	450 17	141 56	1,629 28	1.289 73	408 7	6 5 3 8
Division No. 13 Division No. 14 Division No. 15	157 277 143	195 341 167	10 31 10 22	48 95 34	92 144 62	123 210 85	6 19 6	382
Division No. 15 Division No. 16 Division No. 17	262 75	273 82	22	33 16	125 13	143 22	8	2 2 1

TABLE 4—DEATHS AND HOSPITAL DEATHS BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1953

	Т	OTAL	DEATHS	5	DEA	THS IN	HOSPI	TALS
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 Forest Lawn Magrath MecLenn Magrath Magrath Magrath Magrath Magrath Magrath Magrath Magrath Magrath Magrath Magra	$\begin{array}{c} 31\\ 35\\ 2\\ 3\\ 3\\ 21\\ 9\\ 41\\ 1,529\\ 139\\ 300\\ 40\\ 13\\ 25\\ 47\\ 51\\ 29\\ 5\\ 4\\ 81\\ 35\\ 47\\ 51\\ 29\\ 5\\ 4\\ 81\\ 35\\ 47\\ 51\\ 29\\ 202\\ 43\\ 200\\ 202\\ 43\\ 200\\ 202\\ 43\\ 200\\ 202\\ 43\\ 200\\ 202\\ 43\\ 200\\ 202\\ 43\\ 200\\ 202\\ 43\\ 200\\ 202\\ 43\\ 64\\ 39\\ 222\\ 39\\ 300\\ 21\\ 43\\ 61\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 8$	$\begin{array}{c} 13\\ 16\\ 12\\ 9\\ 9\\ 11\\ 13\\ 220\\ 1.324\\ 64\\ 200\\ 225\\ 300\\ 22\\ 237\\ 1.334\\ 21\\ 1.354\\ 21\\ 1.354\\ 21\\ 14\\ 11\\ 10\\ 225\\ 13\\ 311\\ 17\\ 29\\ 41\\ 19\\ 208\\ 11\\ 307\\ 72\\ 9\\ 41\\ 199\\ 208\\ 11\\ 307\\ 72\\ 100\\ 77\\ 13\\ 322\\ 400\\ 27\\ 179\\ 17\\ 13\\ 326\\ 15\\ 366\\ 21\\ 43\\ 37\\ 166\\ 24\\ 200\\ 15\\ 31\\ 17\\ 68\\ \end{array}$	$\begin{array}{c} 18\\ 21\\ 1\\ 12\\ 24\\ 297\\ 89\\ 13\\ 19\\ 19\\ 41\\ 660\\ 16\\ 1\\ 39\\ 15\\ 37\\ 26\\ 24\\ 23\\ 91\\ 7\\ 39\\ 15\\ 37\\ 26\\ 24\\ 23\\ 91\\ 7\\ 38\\ 32\\ 10\\ 10\\ 81\\ 8\\ 40\\ 2\\ 15\\ 19\\ 38\\ 32\\ 10\\ 10\\ 81\\ 8\\ 40\\ 2\\ 15\\ 19\\ 27\\ 14\\ 11\\ 16\\ 14\\ 9\\ 19\\ 48\\ 35\\ \end{array}$	$\begin{array}{c} 2\\ 2\\ 10\\ 6\\ 9\\ 4\\ 13\\ 3\\ 92\\ 14\\ 3\\ 4\\ 18\\ 6\\ 11\\ 143\\ 8\\ 10\\ 7\\ 8\\ 5\\ 3\\ 6\\ 20\\ 10\\ 18\\ 2\\ 9\\ 6\\ 2\\ 21\\ 6\\ 3\\ 6\\ 14\\ 8\\ 9\\ 21\\ 6\\ 6\\ 11\\ 6\\ 6\\ 12\\ 5\\ 1\\ 4\\ 3\\ 7\\ 4\\ 15\\ \end{array}$	$\begin{array}{c} 18\\ 31\\ \\ 15\\ 34\\ 1,092\\ 92\\ 12\\ 92\\ 12\\ 31\\ 1,562\\ 25\\ 52\\ 28\\ 29\\ 42\\ 30\\ 43\\ 211\\ 21\\ 5\\ 19\\ 142\\ 39\\ 14\\ 18\\ 95\\ 20\\ 73\\ 20\\ 29\\ 50\\ 6\\ 20\\ 32\\ 28\\ 12\\ 29\\ 50\\ 6\\ 20\\ 32\\ 28\\ 12\\ 29\\ 54\\ 61\\ \end{array}$	$\begin{smallmatrix} 6 \\ 111 \\ 9 \\ 9 \\ 6 \\ 8 \\ 10 \\ 9 \\ 9 \\ 9 \\ 12 \\ 9 \\ 9 \\ 0 \\ 3 \\ 4 \\ 8 \\ 15 \\ 12 \\ 12 \\ 9 \\ 12 \\ 9 \\ 12 \\ 9 \\ 12 \\ 12$	$\begin{array}{c} 12\\ 21\\ \\ 9\\ \\ 9\\ \\ 24\\ 246\\ 66\\ 6\\ 6\\ 17\\ \\ 9\\ \\ 9\\ 38\\ 626\\ 15\\ \\ 29\\ 12\\ 255\\ 20\\ 19\\ 84\\ \\ 5\\ 1\\ 13\\ 36\\ 30\\ 8\\ \\ 8\\ 77\\ 8\\ 37\\ 15\\ 19\\ 24\\ 4\\ 11\\ 14\\ 13\\ 6\\ 14\\ 46\\ 30\\ \end{array}$	$\begin{array}{c} & 1 \\ & 1 \\ & 2 \\ & 4 \\ & 9 \\ & 2 \\ & 4 \\ & 9 \\ & 5 \\ & 4 \\ & 9 \\ & 2 \\ & 5 \\ & 4 \\ & 9 \\ & 5 \\ & 4 \\ & 9 \\ & 5 \\ & 4 \\ & 9 \\ & 5 \\ & 4 \\ & 9 \\ & 5 \\ & 4 \\ & 9 \\ & 5 \\ & 3 \\ & 3 \\ & 4 \\ & 17 \\ & 6 \\ & 5 \\ & 12 \\ & 7 \\ & 5 \\ & 2 \\ & 2 \\ & 7 \\ & 3 \\ & 5 \\ & 2 \\ & 6 \\ & 8 \\ & 10 \\ & 6 \\ & 5 \\ & 11 \\ & 1 \\ & 4 \\ & 7 \\ & 4 \\ & 1 \\ & 3 \\ & 25 \\ & 4 \\ & 17 \\ & 6 \\ & 5 \\ & 11 \\ & 1 \\ & 4 \\ & 7 \\ & 4 \\ & 1 \\ & 3 \\ & 25 \\ & 4 \\ & 17 \\ & 5 \\ & 2 \\ & 7 \\ & 5 \\ & 2 \\ & 2 \\ & 7 \\ & 3 \\ & 5 \\ & 2 \\ & 6 \\ & 8 \\ & 10 \\ & 6 \\ & 5 \\ & 11 \\ & 1 \\ & 4 \\ & 7 \\ & 4 \\ & 1 \\ & 3 \\ & 25 \\ & 4 \\ & 17 \\ & 6 \\ & 5 \\ & 11 \\ & 1 \\ & 4 \\ & 7 \\ & 4 \\ & 1 \\ & 3 \\ & 25 \\ & 4 \\ & 17 \\ & 5 \\ & 2 \\ & 7 \\ & 5 \\ & 2 \\ & 2 \\ & 7 \\ & 3 \\ & 5 \\ & 2 \\ & 10 \\ & 6 \\ & 5 \\ & 11 \\ & 1 \\ & 4 \\ & 7 \\ & 4 \\ & 1 \\ & 3 \\ & 25 \\ & 4 \\ & 12 \\ & 11 \\ & 12 \\ & 11 \\ & 12 \\ $

TABLE 5-DEATHS AND HOSPITAL DEATHS BY OCCURRENCE AND RESIDENCE FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1953

DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1953	Div. 17 Div. 15 Div. 15 Div. 13 Div. 14 Div. 13 Div. 13 Div. 13 Div. 14 Div. 15 Div. 15 Div. 15 Div. 10 Div. 15 Div. 15 Div. 15 Div. 16 Div. 15 Div. 16 Div. 16 Div. 17 Div. 17 Div. 17 Div. 17 Div. 18 Div. 10 Div. 18 Div. 10 Div. 1	Total 7646 303 574 118 246 127 1833 286 651 208 323 1809 110 195 341 167 273 82 Male 4786 193 350 76 154 86 1151 193 398 130 186 110 195 341 167 273 82 Male 2860 110 224 42 92 41 682 93 253 78 137 671 33 74 125 65 104 36 Female 2860 110 224 42 92 41 682 93 253 78 137 671 33 74 125 65 104 36	Total 255 6 10 2 8 3 58 11 23 55 65 4 11 14 10 5 15 Male 165 4 8 1 7 2 38 6 14 3 5 10 5 4 7 Female 90 2 2 1 1 20 5 9 2 1 2 4 7 8 7 8 7 8 7 8 7 8 7 1 8 7 4 7 7 1 8 7 4 7 7 1 8 7 7 1 8 7 7 1 8 1 7 1 8 1 7 1 8 1 8 1 8 1 8 1 8 1 8 1 1 8 1 1 <	Male 37 2 1 1 5 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 <th></th> <th>Material I and and and and and and and and and and</th> <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th> <th></th> <th>Male 8 1 1 2 1 2 1 2 1 1 1 2 1 1 2 11 1</th> <th>Female</th> <th></th> <th>Female 1 <th< th=""><th></th><th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th><th></th><th>monome 2 million and m</th><th></th><th>Female 73 2 1 4 2 4 5 9 1 1 6 2 5 9 1 1 6 2 5 1 1 1 1 1 6 2 5 1<!--</th--></th></th<></th>		Material I and	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Male 8 1 1 2 1 2 1 2 1 1 1 2 1 1 2 11 1	Female		Female 1 <th< th=""><th></th><th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th><th></th><th>monome 2 million and m</th><th></th><th>Female 73 2 1 4 2 4 5 9 1 1 6 2 5 9 1 1 6 2 5 1 1 1 1 1 6 2 5 1<!--</th--></th></th<>		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		monome 2 million and m		Female 73 2 1 4 2 4 5 9 1 1 6 2 5 9 1 1 6 2 5 1 1 1 1 1 6 2 5 1 </th
		Total Male Fema	To	NAN	nds M	We	Ma	Me	Ma	4M	H M	PF	AN .	HA!	Ma	Male	Ma	NA.
TABLE 6-CAUSE OF DEATH BY SEX FOR CENSUS DIV	CAUSE OF DEATH (Intermediate List)	ALL CAUSES Tot Fee	I. Infective and Parasitic Diseases	1 Tuberculosis of respiratory system 2 Tuberculosis of meninges and central nervous system M	${ m Fe}$ 3 Tuberculosis of intestines, peritoneum and mesenteric glands ${ m M}$	5 Tuberculosis, all other forms	6 Congenital syphilis	9 General paralysis of insane	A 10 All other syphilis	A 12 Typhoid fever	A 17 Scarlet fever	A 18 Streptococcal sore throat	A 19 Erysipelas	A 20 Septicaemia and pyaemia	A 21 Diphtheria Ma	A 22 Whooping cough Mal	A 23 Meningococcal infections Ma	A 28 Acute poliomyelitis

TABLE 6-CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1953-Continued

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Male Female Male Female Female Female Male Female Female	Total Male Female	Male Female Male Female Male Male Female Female	Total Male Female Male Male Female Female	
 A 56 Malignant neoplasm of bone and connective tissue A 57 Malignant neoplasm of all other and unspecified sites A 58 Leukaemia and aleukaemia A 59 Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system A 60 Benign neoplasms and neoplasms of unspecified nature A 60 Benign neoplasms and neoplasms of unspecified nature 	III, IV. Allergic Disorders and Endocrine Metabolic Total Male Female	 Thyrotoxicosis with or without goitre Diabetes mellitus Male Female Avitaminosis and other deficiency states Anaemias Anaemias Allergic disorders; all other endocrine, metabolic and blood Male Female Female Male Male Female Male Male Female Male Male Female Male Male Male Female Male M	V. Mental, Psychoneurotic, and Personality Disorders Total 67 Psychoses Male 68 Psychoneuroses and disorders of personality Male 69 Mental deficiency Premale	9 9 9 9

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TABLE 6-CAUSE OF DEATH BY SEX FOR CENSUS DIVIS	CAUSE OF DEATH (Intermediate List)	A 73 Epilepsy A 77 Otitis media and mastoiditis A 78 All other diseases of the nervous system and sense organs	VII. Diseases of the Circulatory System	A 79 Rheumatic fever A 80 Chronic rheumatic heart disease	A 81 Arteriosclerotic and degenerative heart disease A 82 Other diseases of heart	A 83 Hypertension with heart disease A 84 Hypertension without mention of heart	A 85 Diseases of arteries A 86 Other diseases of circulatory system	VIII. Diseases of the Respiratory System	A 87 Acute upper respiratory infections A 88 Influenza A 88 Lobar pneumonia A 90 Bronchopneumonia A 90 Bronchopneumonia	4
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Male Female Male Female Male Female Male Female Male Female Male Female Male Female	Total Mate Female	Male Female Male Female	Male Female Male Female		Female Male Female Male Female Female	Total Male Female	Male Female Male Male Male Female
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Primary atypical, other and unspecified pneumonia Male Acute bronchitis Male Acute bronchitis Male Bronchitis, chronic and unqualified Penale Hypertrophy of tonsils and adenoids Male Empyema and abscess of lung Male Pleurisy Male All other respiratory diseases Male	IX. Diseases of the Digestive System Female	d supporting structures		truction and hernia tis and colitis, except diarrhoea of the newborn	Cirrhosis of liver Cholelithiasis and cholecystitis Other diseases of digestive system	X. Diseases of the Genito-Urinary System Female	Acute nephritis Chronic, other and unspecified nephritis Infections of kidney
		Diseases of teeth and supporting structures	mitis	Intestinal obstruction and hernia Gastro-enteritis and colitis, except diarrhoea of the newborn		Diseases of the Genito-Urinary System	nspecified nephritis

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TABLE 6-CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INC	CAUSE OF DEATH (Intermediate List)	A111 Calculi of urinary system Female A112 Hyperplasia of prostate	A114 Other diseases of genito-urinary systemFemale	XI. Deliveries and Complications of Pregnancy, Childbirth and the Puerperium	A115 Sepsis of pregnancy, childbirth and the puerperium	Al16 Toxaemias of pregnancy and the puerperium	A117 Haemorrhage of pregnancy and childbirth Female	Abortion without mention of sepsis or toxaemia	A119 ADOPTION WITH Separate A120 Other complications of pregnancy, childbirth and the microscrim	ses of the Skin and Musculoskeletal System	A122 Arthritis and spondylitis Male A123 Muscular rheumatism and rheumatism, unspecified Female A126 All other diseases of skin and musculoskeletal system Male Female Female Female	XIV. Congenital Malformations Female Female	A127 Spina bifida and meningocele A128 Congenital malformations of circulatory system Female Female

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her congenital malformations Certain Diseases of Early Infancy Injuries And atelectasis Injuries Injutic disease of newborn olytic disease of newborn olytic diseases of early infancy, and immat dined diseases of early infancy, and immat gualified Symptoms, Sentlity, and III-Defined Conditions by without mention of psychosis fined and unknown causes	EXVII. Accidents, Poisonings and Violence (Classified According to External Cause) Motor vehicle accidents Other transport accidents Accidental poisoning Accidental falls Accident caused by machinery Accident caused by fire and explosion of combustible material Accident caused by hot substance, corrosive liquid, ste	
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All other congenital malformations XV. Certain Diseases of Early Infancy Birth injuries between betwee	se) of c	
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All other congenital malformations XV. Certain Diseases of Early Infancy Birth Injuries of Early Infancy Postnatul asphyxla and atelectasis Infections of the newborn atelectasis Infections of the newborn atelectasis All other disease of newborn and All other defined diseases of early infa unqualified were a seculiar to early infa Unqualified and unknown of psychosis III-defined and unknown causes III-defined and unknown causes	EXVII. Accidents, Poisonings According to Exte Motor vehicle accidents Other transport accidents Accidental poisoning Accidental falls Accident caused by machinery Accident caused by fire and e material Accident caused by fire and e	and radiation
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	CAUSE OF DEATH (Intermediate List)		Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Door
ALL C	AUSES	Total Male Female	3171 1984 1187	1324 826 498	856	17		109	4
	I. Infective and Parasitic Diseases	Total Male Female	94 65 29	35 23 12		4 2 2	5 4 1	32 1	
A 1	Tuberculosis of the respiratory system	Male	16	3	12			1	100
A 5	Tuberculosis, all other forms	Female Male	5	3					1.
A 9	General paralysis of insane	Female Male	23	1		1	2		
A 10	All other syphilis	Female Male	4	1	2				
A 17	Scarlet fever	Female	1	1	1				
A 18	Streptococcal sore throat	Female Male	1	1	1				l
A 20	Septicaemia and pyaemia	Female	5		4		1		
A 21		Female	1		1.011				ŀ
A 23	Meningococcal infections	Female	2		2				
		Female		10	11				
A 28		Female	29 16	16 7	11 6		1	1	l
A 32	Measles	Male Female	1		1	hin			n.
A 34	Infectious hepatitis	Male Female	1	1		****			ľ
A 43	All other diseases classified as infective and parasitic	Male Female	32	1	2	1	1		
	II. Neoplasms	Total Male Female	518 292 226	229 132 97	221 124 97		31 17	29	
A 44	Malignant neoplasm of buccal cavity and pharynx		4	3	1	-1			
A 45	Malignant neoplasm of oesophagus	Female Male	25	3	1		1		
A 46	Malignant neoplasm of stomach	Female Male	4 55	1 23	26		3	12	
A 47	Malignant neoplasm of intestine, except rectum	Female Male	20 26	9 13	8 11		3 1	1	
A 48	Malignant neoplasm of rectum	Female Male	22 17	10 8	6		1	12	
A 49	Malignant neoplasm of larynx	Female Male	62	2	32		1		
A 50	Malignant neoplasm of trachea, and of bron-	Female		****					
	chus and lung not specified as secondary	Male Female	49 11	19 3	23 7		3	4	
A 51	Malignant neoplasm of breast	Male Female	44	25	15		3	1	
A 52	Malignant neoplasm of cervix uteri	Female	17	11	6				ľ
A 53	Malignant neoplasm of other and unspecified parts of uterus	Female	9	2	7				
A 54	Malignant neoplasm of prostate	Male	25	9	12		1	1	
A 55	Malignant neoplasm of skin	Male	6	5	1				
A 56	Malignant neoplasm of bone and connective	Female Male	4	3					l
A 57	Malignant neoplasm of all other and unspeci- fied sites	Female Male	2 64	2	22	****	5	3	-
A 58	Leukaemia and aleukaemia	Female Male	60 17	20 7	25 9		5	9	
A 59	Lymphosarcoma and other neoplasms of lym-	Female	15	6			-	1	-
and the second	phatic and haematopoietic system	Male Female	17	6	8		2	2	Į.

TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1953

	CAUSE OF DEATH (Intermediate List)		Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	2.10
A 60	Benign neoplasms and neoplasms of unspeci- fied nature	Male Female	25		22				
	III, IV. Allergic Disorders and Endocrine Metabolic and Blood Diseases	Total Male Female	63 34 29	10	31 15		65	2	
A 63	Diabetes mellitus		22	1			5		ſ
A 64	Avitaminosis and other deficiency states	Female	14	4	8		1	1	
A 65	Anaemias	Female	25		2				Į.
A 66		Female	4		1		****		
A 00	Allergic disorders; all other endocrine, meta- bolic and blood diseases	Male Female	79		35				
	V. Mental, Psychoneurotic, and Personality Disorders	Total	10		4				
	Disorders	Male Female	3	42	1				1
A 67	Psychoses		2	1					ς.
A 68	Psychoneuroses and disorders of personality		4		2				6
A 69	Mental deficiency	Female Male	1	1	****				Ľ
		Female	1	1		1			-
	VI. Diseases of the Nervous System and Sense Organs	Total Male Female	390 222 168	154 88 66	95	3	27 14 13	28 16 12	
A 70	Vascular lesions affecting central nervous system	Mala	105				10	10	
A 71	Nonmeningococcal meningitis	Female	195 159	77 63		2	13 11	13 11	1
		Female	5	2	1		****	1	
A 72	Multiple sclerosis	Male Female	3	2	1				
A 73	Epilepsy	Female	3		3		in		
A 77	Otitis media and mastoiditis	Male Female	2	2			1		
A 78	All other diseases of the nervous system and sense organs	Male	17	7	6	1	1	21	
	VII. Diseases of the Circulatory System	Total Male Female	1129 744 385	490 321 169	463 306 157	12 9	69 52 17	74 47 27	2
A 79	Rheumatic fever	Male	7	4	3				
A 80	Chronic rheumatic heart disease	Female Male	$\frac{1}{24}$	12	10		1	1	
A 81	Arterlosclerotic and degenerative heart disease	Female Male	20 572	11 255	6 230	8	37	1 33	
A 82	Other diseases of heart	Female Male	261 45	118 18	109 19	1	10 4	17 4	1
A 83	Hypertension with heart disease	Female Male	23 42	8 18	8.	1	26	32	
A 84	Hypertension without mention of heart	Female	32	15	12	î	3		
A 85	Diseases of arteries	Female	11 10	2		1	12	1.	
	Other diseases of circulatory system	Male Female Male Female	40 34 3 4	13 13 1 2	19 15 2 2		3		
A 86			1	-			****		
	VIII. Diseases of the Respiratory System	Total Male Female	153 102 51	59 39 20	66 47 19	3	12 7 5	5	4
	VIII. Diseases of the Respiratory System Acute upper respiratory infections	Male Female Male	102 51	39 20	47	3	7	5	- 44 Pr -
	Acute upper respiratory infections	Male Female	102 51	39	47 19 1	3	75	52	4.44

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TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1953—Continued

	CAUSE OF DEATH (Intermediate List)		Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat
A 90	Bronchopneumonia	Male Female	35 22	9 10	20	2	21	3
A 91	Primary atypical, other and unspecified pneumonia	Male	9	2	6	4	-	1
A 92		Female Male	8	3	3			++
A 93	Bronchitis, chronic and unqualified	Female	2 11	6	14		1	
A 94	Hypertrophy of tonsils and adenoids	Female Male	2 1		2			1
A 95		Female Male	3	2				
1 97	All other respiratory diseases	Female Male	1 24	12	1 9		2	
		Female	5	1	1.33		1	
	IX. Diseases of the Digestive System	Total Male Female	138 74 64	75 40 35	46 26 20		10 5 5	2
A 99	Ulcer of stomach	Male Female	8	55	2		1	1
A100	Ulcer of duodenum	Male Female	84	42	22		1	1
A101	Gastritis and duodenitis	Male		-				****
A102	Appendicitis	Female Male	33	1	1		1	
A103	Intestinal obstruction and hernia		12 13	3 10 9	2			
A104	Gastro-enteritis and colitis, except diarrhoea of the newborn	Female Male	10	4	1			****
A105	Cirrhosis of liver	Female	7	4	1		1	1
A105	Cholelithiasis and cholecystitis	Female	10	65	2		1	1
A106	Other diseases of digestive system	Female	11 14	335	67		22	
A107	Other diseases of digestive system	Female	7	2				
	X. Diseases of the Genito-Urinary System	Total Male Female	80 62 18	31	27 22 5		1	3
A108	Acute nephritis	Male	3	3				
A109	Chronic, other and unspecified nephritis	Female Male	33				4	1
A110	Infections of kidney	Female Male	14	1	1		1	
A111	Calculi of urinary system	Female Male	2	1		****	1	
A112	Hyperplasia of prostate	Female Male	17	10				
A114	Other diseases of genito-urinary system	Male	5					
	XI. Deliveries and Complications of Preg- nancy, Childbirth and the Puerperium	Female Total	1	3				
A116	Toxaemias of pregnancy and the puerperium	Female	3		1		1	1
A118	Abortion without mention of sepsis or toxaemia	Female	1	1				
A119	Abortion with sepsis	Female	2		1		1	
A120	Other complications of pregnancy, childbirth and the puerperium		2	2		1111		
	XII, XIII. Diseases of the Skin and Musculo- skeletal System	Total Male Female	17	3	2		1	1
A122	Arthritis and spondylitis	Male	4		1			13
A123	Murcular rheumatism and rheumatism.	Female	6					
12127	unspecified	Female	1	1				

TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1953—Continued

XIV. C A127 Spina A A128 Conger A129 All off A129 All off A130 Birth A A130 Birth A A131 Postnat A132 Infection A133 Haemol A133 Haemol A134 All off A135 Ill-defi A135 Ill-defi A136 Senility A137 Ill-defi A137 Ill-defi A138 Motor A A136 Senility A137 Ill-defi A139 Other A A139 Other A A139 Other A A139 Other A A139 Other A A139 Acciden A139 Acciden A134 Acciden	CAUSE OF DEATH (Intermediate List)		Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat
A127Spina fA128CongerA129All offA129All offA130Birth fA131PostnatA132InfectionA133HaemolA134All offA135Ill-defiA136SenilityA137Ill-defiA138SenilityA139Other fA136SenilityA137Ill-defiA138Motor fA139Other fA139AccidenA139AccidenA139AccidenA139AccidenA139AccidenA139AccidenA139AccidenA141AccidenA139AccidenA141AccidenAccidenAccidenA141Acciden	ner diseases of skin and musculoskeletal stem	Male Female	2 4	3	1		1	
A128 Conger A129 All oth XV. XV. A130 Birth if A131 Postnat A132 Infection A133 Haemol A134 All oth A135 Infection A136 Senility A137 Ill-definand XVI. S A136 Senility A137 Ill-definand XVI. S A136 Senility A137 Ill-definand E138 Motor Accident Accident Al139 Other Accident Contract E141 Accident E142 Accident Accident Not E144 Accident Accident Not	Congenital Malformations	Total Male Female	70 35 35	24 15 9	16		2	
A129 All oth XV. A130 Birth i A131 Postnat A132 Infectio A133 Haemol A133 Haemol A134 All oth A135 Ill-defi and XVI. S A136 Senility A137 Ill-defi A137 Ill-defi and XVI. S A136 Senility A137 Ill-defi Classif (Classif E141 Acciden E141 Acciden E143 Acciden E144 Acciden	bifida and meningocele	Male	4	2				1
XV. A130 Birth i A131 Postnat A132 Infectio A133 Haemol A134 All oth A135 Ill-defi XVI. S A136 Senility A137 Ill-defi XVI. S A136 Senility A137 Ill-defi E138 Motor i E139 Other i E140 Acciden E141 Acciden E142 Acciden E143 Acciden	uital malformations of circualtory system		3 15	1 5	9		1	
A130Birth isA131PostnatA132InfectionA133HaemolA134All othA135Ill-defiA136SenilityA137Ill-defiA136SenilityA137Ill-defiA138SenilityA139Other isE139Other isE140AccidentE141AccidentE142AccidentE143AccidentE144AccidentE145Accident	ner congenital malformations	Female Male Female	15 16 17	583	6			1
A131PostnatA132InfectionA133HaemoolA134All othA135Ill-definandXVI.SA136SenilityA137Ill-definandXVI.SA136SenilityA137Ill-definandXVI.SA138MotorE139OtherE141AccidenE142AccidenE143AccidenE144AccidenE145Acciden	Certain Diseases of Early Infancy	Total Male Female	201 117 84	81 48 33	55	1	9 5 4	55
A132InfectionA133HaemoodA134All othA135Ill-definandXVI.SA136SenilityA137Ill-definandXVI.SA136SenilityA137Ill-definandE138MotorE139OtherE140AccidenE141AccidenE142AccidenE143AccidenE144AccidenE145Acciden	injuries	Male	25	13	11			
A132InfectionA133HaemoodA134All othA135Ill-definandXVI.SA136SenilityA137Ill-definandXVI.SA136SenilityA137Ill-definandE138MotorE139OtherE140AccidenE141AccidenE142AccidenE143AccidenE144AccidenE145Acciden	tal asphyxia and atelectasis	Female Male	14 31	7 10	16		2	2
A134 All oth A135 Ill-defi and XVI. S A136 Senility A137 Ill-defi E138 Motor of E139 Other f E140 Acciden E141 Acciden E142 Acciden E143 Acciden E144 Acciden	ons of the newborn	Female Male	22 10	5 33			2	1
A135 Ill-defi and XVI. S A136 Senility A137 Ill-defi E138 Motor A E139 Other A E140 Acciden E141 Acciden E142 Acciden E143 Acciden E143 Acciden	lytic disease of new born	Female Male	74	3	44			
A136 Senility A137 Ill-defi A137 Ill-defi E138 Motor 4 E139 Other 4 E140 Acciden E141 Acciden E142 Acciden E143 Acciden E143 Acciden E144 Acciden	her defined diseases of early infancy	Female Male	39	1 6	1 2		1	
A136 Senility A137 Ill-defi EXVII. (Classif E138 Motor + E139 Other t E140 Acciden E141 Acciden E142 Acciden E143 Acciden E143 Acciden E144 Acciden	ned diseases peculiar to early infancy, I immaturity unqualified	Female Male	3 38		3 16		2	2
A137 Ill-defi EXVII. (Classif E138 Motor + E139 Other t E140 Acciden E141 Acciden E142 Acciden E143 Acciden E144 Acciden E144 Acciden	Symptoms, Senility and Ill-Defined Conditions	Female Total Male Female	35 48 29 19	17 13 8 5	27 18	1	2 523	2 1 1
E138 Motor E139 Other to E140 Accident E141 Accident E142 Accident E143 Accident Corr E144 Accident hot E145 Accident	y without mention of psychosis	Male Female Male Female	4 3 25 16	1 2 7 3	2 1 16 8	[]	23	1
E139 Other 1 E140 Acciden E141 Acciden E142 Acciden E143 Acciden Com E144 Acciden hot E145 Acciden	Accidents, Poisonings and Violence fication According to External Cause)	Total Male Female	252 194 58	86 64 22	121 94 27	33	18 14 4	13 11 2
E140 Acciden E141 Acciden E142 Acciden E143 Acciden com E144 Acciden hot E145 Acciden	vehicle accidents	Male	79	26	40		3	4
E141 Acciden E142 Acciden E143 Acciden com E144 Acciden hot E145 Acciden	transport accidents	Female Male	22 11	85	10 3	****	2	1
E142 Acciden E143 Acciden com E144 Acciden hot E145 Acciden	ntal poisoning		1 8	12				
E143 Acciden com E144 Acciden hot E145 Acciden	ital falls		2 23	18			5	1
E143 Acciden com E144 Acciden hot E145 Acciden	at caused by machinery	Female Male	16 5	52	- 9		1	1
hot E145 Acciden	nts caused by fire and explosion of abustible material	Female Male	5	1	3		1	
	nt caused by hot substance, corrosive liquid, steam, and radiation	77	6	2				1
E146 Acciden	its caused by firearms		1 4	4	1			
	ntal drowning and submersion		10	1	6		1	2
E147 All othe	er accidental causes	Female Male	1 24	8	112		2	1
	and self-inflicted injury	Female Male Female	3 20	2 5	11		1	2
E149 Homicic othe	de and injury purposely inflicted by er persons (not in war)	Female	4 5	1	2		1	

TABLE 7-CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1953-Continued

	CAUSE OF DEATH (Intermediate List)		Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
	NXVII. Accidents, Poisonings and Violence (Classification according to Nature of Injury)	Total Male Female	252 194 58	86 64 22	121 94 27	2023	18 14 4	13 11 2	11 8 3
AN138	Fracture of skull	Male	51	17	28		4	1	1
AN139	Fracture of spine and trunk	Female Male	10 13	55	35		1		1144
AN140	Fracture of limbs	Female Male	4 9	4	45				
		Female	16	6	8		1	1	
AN143	Head injury (excluding fracture)	Male Female	22 5	43	12		2	4	
AN144	Internal injury of chest, abdomen, and pelvis	Male	39	15	15		3	1	
AN145	Logenstion and ener wounds	Female Male	4	15	2		1		
AIV145	Laceration and open wounds	Female	0	9	2		1		
AN147	Effects of foreign body entering through orifice	Male	63534	1	4				
AN148	Duma	Female	3	2	1				
AIV148	Burns	Male Female	4	1	23		1		1.15
AN149	Effects of poisons	Male	12	123	35			1	1
		Female	4	2	1				
AN150	All other and unspecified effects of external								
	causes	Male Female	33	9	17 2		3	4	

TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1953—Continued
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		Total 7646 Male 4786 Female 2860	Total Male Female	Male Female Male	Female	Female	Female	Female	Female	Female	Female Male	Female	Female Male	a and pyaemia Male Male	Female	Diputeria Male	Male

TABLE 8-DEATHS, BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1953

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TABLE 8-DEATHS, BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1953-Continued

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VITAL STATISTICS BRANCH

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TABLE 8-DEATHS, BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1953-Continued

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# TABLE 8-DEATHS, BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1953-Continued

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TABLE A-DEATHS, BY CAUSE		CAUSE OF DEATH (Intermediate List)	Total Male Female	I. Infective and Parasitic Diseases Male Female	Tuberculosis of respiratory system	Scarlet fever	Septicaemia and pyaemia	Meningococcal infections	Acute pollomyelitis	Measles	All other diseases classified as infective and parasitic	<u>e</u>	Malignant neoplasms of buccal cavity and pharynx Malignant neoplasm of oesophagus Malignant neoplasm of stomach Malignant neoplasm of intestine, except rectum
BY CAUSE						Scarlet fever	a and pyaemia	Meningococcal infections				Neoplasms Total Mate	

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			ffecting central nervous system	1	Diseases of the Circulatory System Total Male Female	c heart diseases	heart disease		
		VI. Diseases of the Nervous System and Sense Organs Remate Female	Vascular lesions affecting central nervous system Nonmeningococcal meningitis Multiple sclerosis	Epilepsy All other diseases of the nervous system and sense organs	Total Male Female	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
			ffecting central nervous system	1	Diseases of the Circulatory System Total Male Female	c heart diseases	Arteriosclerotic and degenerative heart disease Other diseases of heart		

TABLE A-DEATHS, BY CAUSE AND SEX, BY AGE, IN EDMONTON, 1953-Continued

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TABLE A-DEATHS, BY CAUSE AND SEX, BY AGE, IN EDMONTON, 1953-Continued

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TABLE A-DEATHS, BY CAUSE AND SEX, BY AGE, IN EDMONTON, 1953-Continued

TABLE B-DEATHS, BY CAUSE AND SEX, BY AGE, I	CAUSE OF DEATH 3 years 2 years Under 1 year Total Total	Total         1324         135         4         4         1         1           Mate         826         78         1         3         1         1           Female         498         57         3         1         1	I. Infective and Parasitic DiseasesTotal35311Female1211111	Tuberculosis of respiratory systemMale3111General paralysis of insaneFemale31111All other syphilisFemale111111Streptococcal sore throatFemale111111Streptococcal sore throatFemale111111Acute polionyelitisFemale1111111Infectious hepatitisFemale1111111All other diseases classified as infective and parasiticFemale111111	229 1	Malignant neoplasm of ocsophagus Female 3 Male 23 Male 23 Male 1 Male 1 Female 1 Fem
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TABLE B-DEATHS, BY CAUSE AND SEX, BY AGE, IN CALGARY, 1953-Continued

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TABLE B-DEATHS, BY CAUSE AND SEX, BY AGE, IN CALGARY, 1953-Continued

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		Postnatal asphyxia and atelectasis	Infections of the newborn	Haemolytic disease of newborn	All other defined diseases of early infancy	Ill-defined diseases peculiar to early infancy, and immaturity unqualified	Female		Senility without mention of psychosis	III-defined and unknown causes		(Classification	Motor vehicle accidents	Other transport accidents	Accidental poisoning	Accidental falls	Accidents caused by machinery
							Female	Symptoms, Senility, and III-Defined Conditions				uo	and the statement of the				

TABLE B-DEATHS, BY CAUSE AND SEX, BY AGE, IN CALGARY, 1953-Continued

AE145       Accidents caused by firearms       Male       1       1       1         AE145       Accidents caused by firearms       Male       2       1       1       1         AE146       Accidents caused by firearms       Male       1       1       1       1       1         AE146       Accidental drowning and submersion       Male       2       1       1       1       1       1         AE147       All other accidental causes       Male       2       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	ssification Total 86 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
l by oth	NXVII. Accidents, Poisonings and Violence (Classificati According to Nature of Injury)	Fracture of skull Fracture of spine and trunk Fracture of limbs Head injury (excluding fracture) Internal injury of chest, abdomen, and pelvis Laceration and open wounds Effects of foreign body entering through orifice Burns Effects of burns All other unspecified effects of external causes

TABLE 9-DEATHS, BY CAUSE AND SEX, BY MARITAL STATUS AND AGE, AND MONTH OF DEATH, IN ALBERTA, 1953

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		CAUSE OF DEATH		ALL CAUSES	I. Infective and Parasitic Diseases	A 1 Tuberculosis of the respiratory system A 2 Tuberculosis of meninges and central nervous	A 3 Tuberculosis of intestines, peritoneum and mesen- teric glands	A 5 Tuberculosis, all other forms	A 6 Congenital syphilis	A 9 General paralysis of insane	A 10 All other syphilis	A 12 Typhoid fever	A 17 Scarlet fever	A 18 Streptococcal sore throat	A 19 Erysipelas	A 20 Septicaemia and pyaemia	A 21 Diphtheria	A 22 Whooping cough	
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VITAL STATISTICS BRANCH

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Meningococcal infectionsMale333Acute poliomyelitisAcute poliomyelitisFemale311205Acute poliomyelitisMale731123Intereffects of acute poliomyelitis and acute infectious encephalitisMale123MeaseFemale1Female223MeaseFemale1123Infectious hepatitisMale2223All other diseases classified as infective and parasiticMale731Female73123	Total         1150         53         6           Male         659         22         5           Female         491         11         1	Malignant neoplasm of buccal cavity and pharynxMale Female8 Male9 MaleMalignant neoplasm of stomach Malignant neoplasm of stomach Malignant neoplasm of rectumFemale Female8 S S Male9 S Male9 S S Male9 S S S Male1 MaleMalignant neoplasm of stomach Malignant neoplasm of rectum and lung not specified as secondary Malignant neoplasm of trachea, and of bronchus Malignant neoplasm of presentied Malignant neoplasm of other and unspecified Malignant neoplasm of skin8 Male Male10Malignant neoplasm of other and unspecified Malignant neoplasm of skin691Malignant neoplasm of skinFemale Male3Malignant neoplasm of skinFemale Male3Malignant neoplasm of skinFemale Malignant neoplasm of skin1Malignant neoplasm of skinFemale Malignant neoplasm of skin3Malignant neoplasm of skinFemale Malignant neoplasm of skin1Malignant neoplasm of skinFemale Male3Malignant neoplasm of skinFemale Male3Malignant neoplasm of skinFemale Male3Malignant neoplasm of skinFemale Male1Malig	e 138 2 1
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Vascular lesions affecting central nervous system Nonmeningococcal meningitis Female Multiple sclerosis Female Epilepsy Female Otitis media and mastoiditis All other diseases of the nervous system and sense organs Female	VII. Diseases of the Circulatory System	Rheumatic fever Chronic rheumatic heart disease Arteriosclerotic and degenerative heart disease Other diseases of heart Hypertension with heart disease Hypertension with out mention of heart Diseases of arteries Other diseases of circulatory system	VIII. Diseases of the Respiratory System	Acute upper respiratory infections Influenza
nervous system ous system and	System	disease	ystem	beified
Pemale Female Male Female Male Female Male Male Female Female	Total Male Female	Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male	Total Male Female	Male Female Male Female Male Female Male Female Female Female
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TABLE 9-DEATHS, BY CAUSE AND SEX, BY MARITAL STATUS AND AGE, AND MONTH OF DEATH, IN ALBERTA, 1953-Continued

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		CAUSE OF DEATH	(THEELINGTARE TASE)	XV. Certain Diseases of Early Infancy		Postnatal asphyxia and atelectasis Infections of the newhorn	Haemolytic disease of new born	All other defined diseases of early infancy	III-defined diseases peculiar to early infancy, and immaturity unqualified	Symptoms, Senility, and III-Defined Conditions	Senility without mention of psychosis Ill-defined and unknown causes	EXVII. Accidents, Poisonings and Violence (Classification according to External Cause)	Motor vehicle accidents Other transport accidents Accidental poisoning

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Accidental falls Accident caused by machinery Accidents caused by fire and explosion of com- bustible material Accidents caused by hot substance, corrosive liquid, steam, and radiation Accidents caused by firearms Accidental drowning and submersion All other accidental causes Accidental causes All other accidental causes Suicide and injury purposely inflicted by oth persons (not in war)	NXVII. Accidents, Poisonings and Violence (Classification according to Nature of Injury) Fracture of skuli Fracture of skuli Fracture of limbs Head injury (excluding fracture) Internal injury of chest, abdomen, and pelvis Laceration and open wounds Laceration and open wounds Effects of foreign body entering through orifice Burns Effects of poisons Effects of external causes
AE141 AE142 AE143 AE145 AE145 AE146 AE146 AE146 AE149 AE149	AN138 AN139 AN140 AN144 AN145 AN145 AN149 AN149 AN149 AN150
AE141 AE142 AE143 AE144 AE145 AE146 AE146 AE147 AE149 AE149	AN AN AN AN AN AN AN AN AN

То	tal Infa	nt Deat	hs	Infant	Deaths	s in Hos	pitals
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
932	930	10	8	706	704	9	
26 63 13 23	27 60 15 29	6 6 2	7 3 4 6	15 48 11 12	16 48 11 18	3 3 2	
208 25 66	200 23	17 3 10	16	181 15 51	170 15 51	17 1 5	
235 18	207 21	3 4 39 4	11	28 212 14	32 181 19	1 2 37 2	1
32 37 52 45 34	34 40 55 49 32	1 5 1 3	3844	24 23 25 25	25 25 28 29 6	1 4 1	
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TABLE 10—INFANT DEATHS AND HOSPITAL INFANT DEATHS, BY OCCURRENCE AND RESIDENCE, FOR CENSUS DIVISIONS, ALBERTA, 1953

	То	tal Infa	nt Deat	hs	Infan	t Death	s in Ho	spitals
CITY, TOWN OR VILLAGE	Total by occurrence	Total by residence	By occurrence, residence elsewhere	By residence, residence elsewhere	Total by occurrence	Total by residence	By occurrence, occurrence elsewhere	By residence, occurrence
Athabasca	5	2	3		3	1	2	
Barrhead Beverly	3	1	2		3	1	2	
Beverly Black Diamond		1		1		1		
Blairmore		1		1		1		
Bonnyville		î	3	12	3		3	
Bowness		3		3		23		
Brooks	9	3	6		9		6	-
Calgary	166	135	36	5	149	119	34	
Camrose Cardston	8	53	33		44	3	1	
Claresholm	1	2	5	1		1	1	
Coleman		1		1		î		
Didsbury	3	2	2	1	3	2 1	2	
Drumheller	7	1	6		7	1	6	
Edmonton	227 13	152 6	79 7	4	212 13	137 6	77	
Sdson Forest Lawn	10	3		2		2		
Fort Saskatchewan		1		1	****	ĩ		
Grande Prairie	13	9	5	1	8	6	3	
Hanna	4	3	1	(***)	4	3	1	
High Prairie	22	34	19		13 7	1 3	12	
ligh River nnisfail	0		4			0		
lasper Place		3		3		3	1011	
acombe	7	6	3	2	6	5	2	
educ		1		1		1	1010	
ethbridge	27	18	9		25	17	8	
Joydminster facleod	2	2 3		2	2	23		
lagrath	ĩ		1		-			
IcLennan	12	4	8		10	4	6	
Medicine Hat	18	9	9		14	72	7	
olds	7	2	5		7	2	5	
Peace River Pincher Creek	5 4	223	532	1	24	3	22	1
Pincher Creek	5	6	ĩ	2	4	6		
Raymond	6	7		21	1	2		
Redcliff	1000	1						
led Deer	12	8	6	1 2 2	11	8	5	
tedwater tocky Mountain House	4	25		1	4	24	8111	
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Three Hills	4	2	2		1 4 4	2	2	
/egreville	4	32	2		4	3	1	
Vermilion Vulcan	4	2	2		2	1	1	1
Vainwright	8	7	2	1	2 4 8	5		
Vestlock			8		8	7	8	
Vetaskiwin	14	7	7		13	7	6	

### TABLE 11—INFANT DEATHS AND HOSPITAL INFANT DEATHS, BY OCCURRENCE AND RESIDENCE, FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1953

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	Total under 1 year	Total	930 930 930 930 930 930 930 930 930 930
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	CAUSES OF DEATH (Selected Causes)		ALL CAUSES Tuberculosis, all forms Syphilis Syphilis Syphilis Scarlet fever Erystentery, all forms Scarlet fever Erystels Frystels Frystels Frystels Frystels Meningococcal infections Measles Leukaemia and aleukaemia Measles Leukaemia and aleukaemia Measles Measl
	Int. List No.		001-019 025-048 045-048 055 055 055 055 055 055 055 055 055 05

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TABLE 12-CAUSES OF INFANT DEATHS, BY SEX AND AGE, FOR ALBERTA, 1953

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rity	9	1	Other neoplasms Other allergic, endocrine system, metabolic and tional diseases		Other diseases of the nervous system and sense organs		Other diseases of the respiratory system	Other diseases of the digestive system	Other accidents and violent deaths
-With immaturity       -With immaturity         -With immaturity       of immaturity	2) All other accidents	Other infective and parasitic diseases1	I Other neoplasms Other allergic, endocrine system, metabolic and tional diseases	Diseases of the blood and blood-forming organs	Other diseases of the nervous system and sense organs		Other diseases of the respiratory system 8	Other diseases of the digestive system	Other accidents and violent deaths
-With immaturity      With immaturity        With immaturity       of immaturi	62) All other accidents 6	Other infective and parasitic diseases1	I Other neoplasms Other allergic, endocrine system, metabolic and tional diseases	Diseases of the blood and blood-forming organs	Other diseases of the nervous system and sense organs	TTA	Other diseases of the respiratory system 8	Other diseases of the digestive system	Other accidents and violent deaths
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Without mention of immaturity        With immaturity        Without mention        With immaturity	9	Other infective and parasitic diseases1	I Other neoplasms Other allergic, endocrine system, metabolic and tional diseases	Diseases of the blood and blood-forming organs	Other diseases of the nervous system and sense organs	TTA	Other diseases of the respiratory system 8		Other accidents and violent deaths

TABLE 12-CAUSES OF INFANT	CAUSES OF DEATH (Selected Causes)		ALL CAUSES Tuberculosis, all forms Syphilis Dysentery, all forms Scarlet fever Erysipelas Diphtheria Whooping cough Meningococcal infections Mealignant neoplasm and other neoplasms of and haemotopoletic tissues Bengn neoplasms Mental deficiency Mental deficiency M	-Without mention of immaturity -With immaturity Postnatal asphyxia and atelectasis: Without mention of immaturity With immaturity Pneumonia of newborn:	
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TABLE 13-CAUSES OF INFANT DEATHS,	and the second of the second department of	SELECTED CAUSES		ALL CAUSES	Tuberculosis, all forms Syphilis Dysentery, all forms Scarlet fever Erisipelas Erisipelas Diphtheria Whooping cough Whooping cough Meningococcal infections Meningococcal infections Mening and aleukaemia Malignant neoplasm and other neoplasms of Tymphatic and haemotopoletic tissues Mening deficiency Mening deficiency
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aturity 6 6 6 .	toxaemia	ntion of immaturity 16 9	of newborn	- 3 maturity 3	11 5	nmaturity and 1 minaturity 2 4 5	nknown causes 142 38 34 affic accidents 2 1 1	d by fire 5 2 3 ngestion of food or other object 17 11 8 anical suffocation	All other accidents Other infective and parasitic diseases 16 6 7	Other neoplasms	Other allergic, endocrine system metabolic and nutritional diseases Diseases of the blood forming organs 2 1 1	Other diseases of the nervous system and sense organs 6 2		Other diseases of the respiratory system	Other diseases of the digestive system	Other accidents and violent deaths 6 2
aturity 6 6 6 .	toxaemia	ntion of immaturity 16 9	of newborn	- 3 maturity 3	11 5	nmaturity and 1 minaturity 2 4 5	Ill-deined and unknown causes         132         36         34           Motor vehicle traffic accidents         2         1         1	Accidental rails Accidents caused by fire 5 2 3 Inhalation and ingestion of food or other object 17 11 8 Accidental mechanical suffocation 11 8	62)     All other accidents     6     6       I     Other infective and parasitic diseases     16     9     7		Other allergic, endocrine system metabolic and nutritional diseases Diseases of the blood forming organs 2 1 1	Other diseases of the nervous system and sense organs 6 2		Other diseases of the respiratory system	Other diseases of the digestive system	99) Other accidents and violent deaths 6 2 All other causes
with untertion of immaturity 6 6 with immaturity 0ther infections of the newborn	Maternal toxaemia— —without mention of immaturity 6 —with immaturity 8 8 5	Erythroblastasis- 	of newborn	- 3 maturity 3			Ill-deined and unknown causes         132         36         34           Motor vehicle traffic accidents         2         1         1	E904         Accidental fails         5         2         3           E922         Inhalation and ingestion of food or other object         17         11         6         3           E925         Accidental mechanical suffocation         6f food or other object         17         11         8         3	62)     All other accidents     6     6       I     Other infective and parasitic diseases     16     9     7		Other allergic, endocrine system metabolic and nutritional diseases Diseases of the blood forming organs 2 1 1	Other diseases of the nervous system and sense organs 6 2		Other diseases of the respiratory system	Other diseases of the digestive system	99) Other accidents and violent deaths 6 2 All other causes
without mention of immaturity 6 6 with immaturity 0ther infections of the newborn	0-4 Maternal toxaemia- -without mention of immaturity 6 3 -with immaturity 8 5	0-2 Erythroblastasis- without mention of immaturity 16 9 with immaturity 3	Haemorrhagic disease of newborn- -without mention of immaturity 4 3 -with immaturity 4 3	.0 Nutritional maladjustment	5 ——with immaturity 11 5 111-defined diseases peculiar to early infancy— 11 5		0-E825 Motor vehicle traffic accidents 2 1 1	E904         Accidental fails         5         2         3           E922         Inhalation and ingestion of food or other object         17         11         6         3           E925         Accidental mechanical suffocation         6f food or other object         17         11         8         3	62)     All other accidents     6     6       I     Other infective and parasitic diseases     16     9     7		Other allergic, endocrine system metabolic and nutritional diseases Diseases of the blood forming organs 2 1 1	Other diseases of the nervous system and sense organs 6 2		Other diseases of the respiratory system	Other diseases of the digestive system	99) Other accidents and violent deaths 6 2 All other causes
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-without mention of immaturity 6 6 -with immaturity 0ther infections of the newborn	0-4 Maternal toxaemia- -without mention of immaturity 6 3 -with immaturity 8 5	0-2 Erythroblastasis- without mention of immaturity 16 9 with immaturity 3	Haemorrhagic disease of newborn- -without mention of immaturity 4 3 -with immaturity 4 3	.0 Nutritional maladjustment	5 ——with immaturity 11 5 111-defined diseases peculiar to early infancy— 11 5		0-E825 Motor vehicle traffic accidents 2 1 1	E904         Accidental fails         5         2         3           E922         Inhalation and ingestion of food or other object         17         11         6         3           E925         Accidental mechanical suffocation         6f food or other object         17         11         8         3	62)     All other accidents     6     6       I     Other infective and parasitic diseases     16     9     7		Other allergic, endocrine system metabolic and nutritional diseases Diseases of the blood forming organs 2 1 1	Other diseases of the nervous system and sense organs 6 2		Other diseases of the respiratory system	Other diseases of the digestive system	99) Other accidents and violent deaths 6 2 All other causes

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-	Sask.	58 33		\$0.00	72	00		1	1,031	965	128	177	748	00 10	1,648	199	290
	Man.	19	44.03	91-	16	12	46	-	1,101	1,035	32.53	84	823	12	-		305 41
-	Ont.	267 44 76 2	01-10	232	124	36	105		6,782	6,423	284	569	6,092	92	14,411	1,452	1.507
-	Que.	692 152 100	16	40 63	3	48	108		5,042	4,832	168	522	2,644	116	6,901	1,450	1,152
-	N.B.	51	10	t= 4	10	4	16	2	635	607	27	57	478	10	1,086	203	34 229 15
-	N.S.	611	09	1001	9	61	SI SI	1	1961	927	22.0	62	783	-6 gr	1,361	266	52 179 27
-	P.E.I.	10			1		P		153	150	60.4	10	111	1-12	228	27	41
-	.piłu	3333	- 10	100	II	0	13	1	371	354	00 00	16	273	42	313	818	142
-	Canada	1,462 348 283 11	224	134	481	140	367	1	19,120	18.151	366	1,619	14,107	254	33,274	4.445	1.176 4.605 541
	CAUSE OF DEATH	Tuberculosis of respiratory system Tuberculosis, other forms Syphilis and its sequelae	Dysentery, all forms Scarlet fever, and streptococcal sore throat Dinhtheret	Whooping cough Meningococcal infections	Acute poliomyelitis Smallnov	Measles Typhus and other rickettsial diseases	Malaria All other diseases classified as infective and parasitic		Interpretation of the propriet of the propret of the propriet of the propriet of the propriet	leukaemia and aleukaemia Hodzkin's disease	Leukaemia and aleukaemia Benign and unspecified neoplasms	Diabetes mellitus Anaemias	Vascular lesions affecting central nervous system Nonmeningococcal menineitis	Rheumatic fever Chronic rheumatic heart disease	Arteriosclerosis and degenerative heart disease Other diseases of heart	Hypertension with heart disease Hypertension without mention of heart	Influenza Pneumonia Bronchitis
Int. List No.	Detailed List	001-008 010-019 020-029 040	045-048 050,051 055	056 057 058	080 084	085 100-108	030,039,041,042,044,049,052-054,	059-074,081-083, 056-096,120-138	(140-200.202	203,205) (201)	(204) 210-239	260 290-293	330-334 340	400-402 410-416	420-422 430-434	440-443	480-483 490-493 500-502
Int	Abbrev.	20020 10020 10020	901~80 900 00	B10 B11	B12 B13	B14 B15	BI7	BIO	010		B19	B20 B21	B22 B23	B24 B25	B26 B27	B28 B29	B31 B32 B32

TABLE 14-DEATHS AT ALL AGES, ACCORDING TO THE INTERNATIONAL ABBREVIATED LIST OF 50 CAUSES, BY PROVINCES, 1953

ANNUAL	REPORT.	1953
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96 105 57 57 115 57 115 128 1184 128 228 228 228 228 228 228 228 228 228	12,218
449 449 449 448 449 448 37 243 243 2543 2543 2543 2543 2543 2543 2	7,646
35 160 1200 286 386 387 377 224 127 127 127 127 158 158 158 158 158 158 158 158 158 158	6,687
59 46 71 35 35 35 35 106 141 35 206 115 115 115 115 3576 3576 115 3576 3576 3576 3576 3576 3576 3576 357	7,015
276 655 237 2317 2317 2317 2317 2317 5335 5335 5335 1,053 1,053 1,053 1,053 1,053 1,053 1,053 1,053 1,053 1,053 1,053 1,053 1,155 1,858	45,242
173 877 2377 2377 2377 237 1,454 1,454 1,454 1,522 3,143 3,963 963 963 963 963 963 1,363 1,363 1,363 1,363	34,469
28 106 159 287 287 287 166 168 168 168 168 168 168 168 168 168	4,637
25 36 36 36 36 36 36 114 116 116 155 155 155 155 155 155 33 36 33 36 33 36 33 36 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	5,808
20 20 21 22 20 23 23 24 24 27 27 27 27 27 27 27 27 27 27 27 27 27	926
8 4 10 136 88 68 68 68 68 68 68 28 28 28 28 250 250 250 250 3 3 3 3	2,733
$\begin{array}{c} 753\\ 224\\ 775\\ 775\\ 776\\ 5,566\\ 5,566\\ 2,616\\ 5,561\\ 3,975\\ 2,586\\ 2,736\\ 2,736\\ 2,736\\ 2,736\\ 3,975\\ 1,219\\ 3,975\\ 2,121\\ 3,055\\ 2,121\\ 3,055\\ 2,521\\ 1,062\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,76\\ 1,7$	127,381
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Ulcer of stomach and duodenum Appendicitis Intestinal obstruction and hernia Gastritis, duodenitis, enteritis and colitis, except diarrhoea of the newborn Cirrhosis of liver Nephritis and nephrosis Hyperplasia of prostate Complications of prostate Complications of prostate Diverpretium Completions of prostate Diverpretium Comperium Congenital malformations Birth injuries, postinatul asphyxia and atelectasis Infections of the newborn Other diseases peculiar to early infancy and Immaturity unqualified Senility without mention of psychosis, ill-defined and unknown causes Motor vehicle accidents Non-traffic accidents	All causes1
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PROVINCES,	Alta.	5.1 1.7 1.7 1.6 0.1 0.5 0.5 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8
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ABBREVIATED	N.B.	10.1 2.8 1.3 0.2 0.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
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INTERNATIONAL	P.E.I.	994 199 199 199 199 1104 1104 1104 1104
E INTER	Nfld.	20 20 20 20 20 20 20 20 20 20
TO THE	Canada	2119 2119 2119 2110 225 2110 225 255 255 255 255 255 255 255 255 25
Table 15-DEATH RATES PER 100,000 POPULATION AT ALL AGES, ACCORDING	CAUSE OF DEATH	Tuberculosis of respiratory system Tuberculosis, other forms Syphilis and its sequelae Typphoid fever Cholera Cholera Diphtheria Whooping cough Whooping cough Meningococcal infections Plague Acute pollomyelitis Satalipox Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malignant neoplasms, including neoplasms of Upmphatic and hematopoletic tissues Cancer, excluding Hodgkin's disease, leukaemia and aleukaemia Reases Concer, excluding Hodgkin's disease, leukaemia and aleukaemia Mareania Materia Malaria Malaria Malaria Malaria Malaria Malaria Malaria Maleria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria Malaria
DEATH RATES PEH	Int. List No. Detailed List	001-008 010-019 020-029 040 055 055 055 055 055 055 055 055 055
Table 15-I	Abbrev. List	B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1           B         1

000 POPULATION AT ALL AGES, ACCORDING TO THE INTERNATIONAL ABBREVIATED LIST OF CAUSES, BY PROVINCES, 1953 

7.8 0.8 6.9	40.54 9.6 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9	15.0 15.0 2.3	18.5	81.0 18.5 0.4 61.5	16.1 1.4	993.3
411.0	10.8	21.3	24.3	25.2 25.3 38.1	7.2	163.1
4.1	10.0 10.0	14.2	26.0	63.8 18.7 18.4 32.2 32.2	5.9	776.7
7.3 5.7	10.4	13.1 17.4 4.3	25.5	112 142 140 34.5 34.5	9.0	867.1
4.8	10.9	16.4 17.3 2.7	21.5	222.1 21.5 0.6 37.9	8.3	923.9
2.0	34.1	21.4 21.7 9.2	35.7	73.6 22.6 0.1 31.9	4.4	807.4
5.2 1.9	162 5.2 5.2	22.6 7.8	31.3	23.3 21.8 30.4	3.4	865.1
3.8 5.4	14.3	17.2	23.4	68.9 19.5 0.5 40.3	5.0	876.0
4.7	18.9	14.2 6.6 2.8	32.1	72.6 13.2 34.9	4.7	873.6
2.1	5.177 S	17.8	41.5	65.3 6.8 34.5 34.5	2.3	713.6
511 512 50 50 50 50 50 50 50 50 50 50 50 50 50	4.0	17.5 18.5 5.2	26.9	21.2 20.7 37.4	7.1	863.2
Ulcer of stomach and duodenum Appendicitis Intestinal obstruction and hernia Gastritis, duodentity, enteritis and colitis, except distruction of his, wenterity	Cirrhosis of liver Nephritis and nephrosis Hyperplasia of prostate Complications of pregnancy, childbirth and the	Congenital malformations Birth injuries, postnatal asphyxia and atelectasis Infections of the newborn Other diseases peculiar to early infancy and	ualified ention of psychosis, auses	All other diseases Motor vehicle accidents Traffic accidents Non-traffic accidents All other accidents	Suicide and self-inflicted injury Homicide and operations of war	All causes
540.541 550-553 560.561.570 543.571.572	581 590-594 610-652, 660, 670-652, 660,	750-759 760-759 763-768 763-776	780-795	Kesidual E810-E835 (E810-E835 (E830-E835) E800-E835 E800-E802, F840-F962	E363, E970-E379 E964, E965, E380-E3999	
B33 B34 B35 B35 B36	B37 B38 B39 B40	B41 B42 B43 B44	B45	BEA7 BEA7 BEA8	BE49 BE50	

	4	Rate per 100.000 population	188 846 81 81 81 81 81 81 81 81 81 81 81 81 81
	1944	Number of Deaths	1534 1534 120 120 120 120 120 120 120 120 120 120
9	15	Rate per 100.000 population	254 254 254 251 252 251 117 252 251 117 252 251 117 252 251 252 251 252 252 252 252 252 252
PERIOD	1945	Number of Deaths	1663 1388 1388 1388 1388 1388 1388 1388
INIAL	1946	Rate per 100,000 population	214 256 256 256 256 256 256 256 256
DECENNIAL	19	Number of Deaths	1721 1022 1022 1022 113 119 119 119 119 119 119 119 119 119
LAST 1	1947	Rate per 100,000 population	213 107 599 588 888 888 888 888 888 133 134 134 134 134 134 134 134 134 134
THE	16	Number of Deaths	1756 1177 1177 1177 1177 1177 1197 1119 1119 1119 1119 1119 1119 1119 1119 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 11117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117 1117
AR OF	1948	Rate per 100,000 population	224 113 237 255 255 255 255 255 255 255 255 255 25
CH YEAR	19	Number of Desths	1896 275 282 282 282 282 282 283 283 283 283 283
R EACH	1949	Rate per 100,000 population	222 2222 2222 2222 2222 2222 2222 2222 2222
TES FOR	19	Number of Deaths	2033 9575 1287 1287 1287 1287 1287 1286 1566 1566 1556 1556 1556 1556 1556 15
D RATES	1950	Rate per 100,000 population	2228 1140 1252 1253 1252 1252 1252 1252 1252 1252
UNA 25	19	Number of Deaths	2046 997 133 133 133 269 169 137 269 137 269 137 111 11 11 11 11 11
NUMBERS	1951	Rate per 100,000 population	22 11 12 860 9 9 9 9 12 23 8 60 13 8 60 12 3 8 60 12 3 8 60 12 3 8 60 12 12 12 12 12 12 12 12 12 12 12 12 12
BY NI	19	Number of Deaths	2113 1065 11255 1114 1114 888 818 818 818 818 818 818 8
ATH,	1952	Rate per 100,000 population	23 141 140 140 140 140 140 140 140
OF DE	16	Number of Deaths	2247 1072 1072 1072 1074 104 104 104 104 104 177 104 177 104 177 104 177 104 177 104 177 104 177 177 177 174 174 177 177 177 177 17
JSES (	1953	Rate per 100,000 population	10333333333333333333333333333333333333
N CAL	16	Number of Deaths	2274 1128 667 667 3324 3324 3324 108 8511 8512 8512 8512 108 8512 108 8512 108 112 123 108 1128 108 1128 123 108 123 108 123 108 123 123 123 123 123 123 123 123 123 123
TABLE 16-CERTAIN CAUSES OF DEATH		CAUSE OF DEATH	Diseases of the heart Cancer Cancer Diseases of the arteries Violent deaths (suicides excepted Pneumonia (all forms) Pulmonary tuberculosis Influenza Nephritis Appendicitis Suicides Cerebral haemorrhage Diarchoea and enteritis Diarchoea and enteritis Puerperal causes Whooping cough Scarlet fever Diarchoed and paratyphoid Typhoid and paratyphoid Measles Poliomyelitis

11 9	patets toN	1 1 1 1	III.	1	111 1111 111
	82+ Aestra	1001	111	11111111111111111	
	80-84 years	41-1-	TIT		RH III HII
	75-79 years	10.0	111	111111111111111	0 0 0
	10-14 Aests	00 10 00	19.69	1	
	65-69 years	10 00 01	111	11111111111111111	FF FI
	60-64 years	9000		1111111111111111	7 H H 017
	22-23 Xests	000	111	111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	20-24 Aests	60 F0 CL		1111111111111111	
	42-49 Years	040	1010	1111111111111	
	40-44 years	101		1111111111111	
AGES	32-39 Years	4 4	111	THEFT	111 111 111
AC	30-34 Years	TIT	111	1	
	52-53 Aesis	E= 50 44	111	1111111111111111	NN
	20-54 Xests	400			
	I2-19 Years	400			
	10-14 Acuta	0104	4-103	H	
	2-3 AGUES	2124		1	FF
	4 Acuts	40101	111	1111111111111	111 1111 111
	3 Years	000			
	2 years	00 60 10	4 4		111 111 111
	I Year	10122	00 10 00		
	Under 1 year	61 61	41-1-		
1	IntoT	313	13 23 13	4000HH H000H 4400	11 0 10 0 11 1 0 10 10 11 1
-	IntoT	313 164 164			
-	Total	e	<u>e</u>		
	IetoT	Total 313 Male 164 Female 149	Total 42 Male 23 Female 19	Female 4 Male 5 Male 5 Female 1 Female 1 Male 2 Female 2 Female 4 Female 2 Female 2 Female 2 Female 2 Female 2 Female 2 Female 2	Total17Male10Male2Female2Male2Female2Female2Female2Female2
	CAUSE OF DEATH (Intermediate List)	e	<u>e</u>		

TABLE 17-DEATHS OF INDIANS, BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1953

SEX, BY A	3 Years 2 Years 1 Year		 				
AGE, IN AI	10-14 Aests 2-3 Aests 4 Aests			T I			
BERTA, 19	25-29 years 20-24 years 15-19 years						
ALBERTA, 1953—Continued AGES	42-46 A6912 40-44 A6912 32-36 A6912 30-34 A6912					113	
	10-14 AGBL2 62-63 AGBL2 62-64 AcBL2 22-23 AGBL2 20-24 AGBL2	<b>1</b>		<b>1</b>			
	Not stated 82+ Aesus 80-84 Aesus 12-13 Aesus			1			

Epllepsy       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 <td< th=""><th>Male         1        </th><th>00 47 47</th><th>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         <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<></th><th>Female 15 Female 14 Male 14 Male 14 Female 1 Female 2 Male 2</th><th>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</th><th>le 12 6 1</th></td<>	Male         1	00 47 47	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 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>	Female 15 Female 14 Male 14 Male 14 Female 1 Female 2 Male 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	le 12 6 1
lo	Rheumatic fever Chronic rheumatic heart disease Arteriosclerotic and degenerative heart disease Other diseases of the heart			Primary atypical, other and unspecified pneumonia Acute bronchitis Bronchitis, chronic and unqualified	1	

11					111	111	11	1	: 1		111	11
	Not stated			1111			11					
	85+ years		1111			11	11				111	
	80-84 Years		1111			111	11			<u> </u>		
	75-79 years		1111	1 1 1 1		111	11					
	70-74 years		1 1 1 1	<u>+ + + + +</u>								
	65-69 years		1111	1 1 1 1 1	0 - 03	1 1 1 1 1	NI :					
	60-64 years		1111	1 1 1 1	010							11
	22-23 Xears		1 1 1 1	1 1 1 1	111	111						
	20-24 Aests		1 1 1 1	1111							111	
	42-49 Years		1111	T T T T		111		- 10	-		111	
23	40-44 Xears		1111		111	111	11	-	-			
AGES	32-39 Years		1111			111		-				
-	30-34 Years	11				: : :	1.1	-		:	111	
	25-29 years	11	1111		111	111	11	-	H	1	111	11
	20-24 Years		1111	1111	111	INI	11			1	111	11
	12-19 Years		1111	1111	111	111	11		1		111	11
	10-14 years		1 1 1 1		111	111		1		1	111	11
	2-9 Years		1111		111	111	11				111	11
	4 years						11					11
	3 Years	11	1111	1111	111		11	1		i	111	11
	5 Years	11			111		11					
	l year		-	1111	111	111	11			1	111	
	Under I year		010	1111	111	111				1	400	01-1
	IstoT		- 91-	0144	0044	HH010		70		-	600	0101
		Male Female Male	Female Male Male	Female Female	Total Male Female	Male Female Male		Total Female	Female	Female	Total Male Female	Male
	н		arrhoea of the newborn		stem	tis	Promaney Childhird	fum the puerperium	birth	ildbirth and the		tory system
	CAUSE OF DEATH	Ulcer of stomach Appendicitis	Gastro-enteritis and colitis, except diarrhoea of the newborn Cholelithiasis and cholecystics	Other diseases of digestive system	X. Diseases of the Genito-Urinary System	Acute nephritis Acute nephritis Chronic, other and unspecified nephritis	Hyperplasia of prostate XI. Deliveries and Commissions of Presmancy Childhirth	and the Puerperium Sepsis of pregnancy, childbirth and the puerperium	Haemorrhage of pregnancy and childbirth	Other complications of pregnancy, childbirth and the puerperium	XXIV. Congenital Malformations	A128 Congenital malformations of circulatory system

TABLE 17-DEATHS OF INDIANS, BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1953-Continued

	1         1         1           2         1         1         1           2         1         1         1           2         1         1         1           2         1         1         1           2         1         1         1           2         1         1         1           2         1         1         1			····			<b>H</b>	$\begin{bmatrix} 2 \\ 1 \\ -1 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \\ -1 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \\ -1 \\ -1 \\ -1 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \\ -1 \\ -1 \\ -1 \end{bmatrix}$							<b>1</b>	
							<b>H</b>		1 1 1 1 1 1					2	11	
						1 2 3 1 1 2 1		1 00 1 1 00 1 1 00 1 1 00 1 1 00 1 1 00 1 1 00 1 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1	1 - 1 - 1		3	<b>1</b>			<b>1</b>	
<b>I</b> =	11	3	14 00	· · · · · · · · · · · · · · · · · · ·												
11	115	00 0	40	64	101-	2211	411	36 21 21	03 44 0	0 1 10	4	2014	63	40	10 H F	4 00 00
Female 1	Total 26 Male 15 Female 11	Male 3 Female 2 Male 2			-	Total 22 Male 11 Female 11	Female 11 Female 11 Female 11	Total Male Female	Female 3				1	-	Male 1 Female 3	
le	e		Infections of the newborn Male		-				nts Male Female				1	-		

			-			1						A	AGES										1
	CAUSE OF DEATH (Intermediate List)		Total Under 1 year	I Year	2 years	y Acore	2-3 AGUR	10-14 Years	12-19 years	50-54 Years	52-59 years	30-34 Years	32-33 Aests	40-44 Aests	42-49 Aests	22-23 A6912	60-64 years	65-69 years	70-74 years	75-79 years	80-84 years	82+ Xests	Not stated
	NXVII. Accidents, Polsonings and Violence (Classification According to Nature of Injury)	Total Male Female	121	000	111			- 00 m		0.01	4-0	111	I	- 10 CO	0.01-				NHH			T	
AN138	AN138 Fracture of skull	Male	07	_			-			-	-			0	-	-	-	_	_	_			
AN139	Fracture of spine and trunk	Female	201					F			•		I	1	-	11			1 1		11	11	11
AN140	Fracture of limbs	Female	1		1	T	-		-	1	1	1			-							11	
AN143	Head injury (excluding fracture)	Female	010		11				1	11	1		-	11	11	11		11	11	11	H	1	: :
AN144		Female	1-1-01		11	11		• •		1	1		11	; ;	11	11	11		1.1		11	11	
AN148		Female				1	-	N		1			11	-		11		11	4 1	11	11	11	
AN149	isons	Female	5 NO 60		1	•		9 :	11		01		11	11	11*	11		1	-	11	11	-	: :
AN150	All other unspecified effects of external causes	Female		10				63				111	111	111	11	TT		1 1 1		111		111	
		Female	3.2	N	1	1	-	-	-	1			-	1	1		-	-		-	1	1	:
													1	1					-				1

		Not stated	512-4 212-4				
	-	80-84 Years	t= 0110	111		61 61	<b>N</b>
		70-74 years	6000				11 111 1111
		65-69 years	eo e4 ==	111	1111111111	1	
		60-64 years	0044	111		H	
		22-23 Xeura	10 01 00			I I	
		20-24 Xests				- F	
	-	42-49 Xests	0104				
	AGES	32-33 A69L8		111	111111111	111	
	AC	30-34 Aests		111	111111111	111	
		52-59 Years	400	111	11111111	N N	N
		20-24 years	N N			111	
2		12-19 Years	- 19 69	81-1		111	
		10-14 years	40.0				
		2-9 AGULS				111	
		3 Years				111	
		5 Years	100001			111	11 111 1111
		I Year	16 8 8	10 00 01			
		Under 1 year	3228	0410		111	11 11 111
:		Total	194 107 87	13	10 01 00 00 H 01 01 00 H	E 72 9	0 0 0 00
			Total Male Female	Total Male Female	Male Fremale Male Fremale Fremale Fremale Male Fremale	Total Male Female	Male Female Female Female Female Female Female Female
	It have a particular blight the particular	CAUSE OF DEATH (Intermediate List)	ALL CAUSES Total Male Female	I. Infective and Parasitic Diseases Male Female	<ul> <li>A 1 Tuberculosis of respiratory system</li> <li>A 2 Tuberculosis of meninges and central nervous system</li> <li>A 20 Septicaemia and pyaemia</li> <li>A 22 Whooping cough</li> <li>A 32 Measles</li> <li>A 32 Measles</li> </ul>	II. Neoplasms Female	<ul> <li>A 47 Malignant neoplasm of intestine, except rectum Male</li> <li>A 50 Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary and of bronchus and lung</li> <li>A 52 Malignant neoplasm of cervix uteri Female</li> <li>A 57 Malignant neoplasm of all other unspecified sites Male</li> <li>A 58 Leukaemia and aleukaemia Male</li> <li>Female</li> </ul>

TABLE 17A-DEATHS OF TREATY INDIANS, BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1953

		Allergic Disorders and Endocrine Metabolic and Blood Diseases			Anaenuas Altereic disorders: all other endocrine, metabolic and		V. Mental, Psychoneurotic and Personality Disorders		VI. Diseases of the Nervous System and Sense Organs		All other diseases of the nervous system and sense organs	VI. Diseases of the Nervous System and Sense Organs	
		Total Male Female	Male	Male Female	Female	Male Female	Total Male Female	Male Female	Total Male Female	Male Female Male Female	Female Female Female	Total Male Female	Male
-	Total Under I year	1 1 1			-	61			100001			00 00 00	
	1 year		:	-	11	11	111	11	111	1111		111	11
	2 years	111	1		1 1	TT	111	11	111	1111	1111	111	11
	3 Years	111			11			11	111	1111	TIT	111	
	2-3 AGBLS		-		11	=	111		111		111		
	10-14 Years				11					1111		111	
	15-19 years	111			11	11	111	11	111			111	
	20-24 years	1 1	1		11		111	11	111	1111			
	25-29 years	111	1	11:	11	11	111	11	111	1111	1111	111	11
A	30-34 Years	111	1		11	11	111	11	111	111	1111		-
AGES	32-39 Years		1		11	11	1.11	11	111	MILL	1111	111	
	40-44 Years	T	-	91	11	11	111	11	61 - 1	1-11		6161	-
	42-49 Years	-	1		11	11	111	11	TIT	1111	1111	111	1
	20-24 Jests	-			11	11		-	111	III	1111		1
	60-64 years				11	-		11	111	TIT	1111	111	
	65-69 years				11	11	TTT	11	111	1111	1111	-100	1
	10-14 A6918				11		111			11-1	1111	111	
	75-79 years	-			11				111	1111	1 1 1 1		
	80-84 years				11	11		11	111	1111	1111	0-0	1
	82 + Years	111	1		11	11	111	11		17 11	1111	0-0	1
		111		1 1 1	1.1	: :	111	1.1			1 1 1 1		1 1

TABLE 17A-DEATHS OF TREATY INDIANS, BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1953-Continued

8 Octoonic rheumatic heart disease       Mate         8 Hartenoeclerctic and degenerative heart disease       Mate         8 E       Other diseases of the heart       Mate         8 Hypertension without mention of heart       Mate         8 Mate       Mate         8 Mate       Mate         8 Mate       Mate         9 Hypertension without mention       Mate         8 Mate       Mate         9 Mate       Mate         9 Mate       Mate         1 Mate       Mate <th></th> <th>Image: second second</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		Image: second								
Chronic rheumatic heart disease       Mate         Arteriosclerotic and degenerative heart       Mate         Arteriosclerotic and degenerative heart       Mate         Hypertension without mention of heart       Mate         Hypertension without mention of heart       Mate         Tur.       Diseases of the Respiratory System         Will       Mate         Hypertension without mention of heart       Mate         Fermile       Mate         Mate		0101				111				
Chronic rheumatic heart disease       Male       Male         Arteriosclerotic and degenerative heart disease       Male       Male         Other diseases of the heart       Male       Male         Hypertension without mention of heart       Male       Male         Total       Diseases of the Respiratory System       Male       Male         Mile       Female       Male       Male         Mult. Diseases of the Respiratory infections       Male       Male       Male         Mult. Diseases of the Respiratory infections       Male       Male       Male         Primary atypical, other and unspecified pneumonia       Male       Male       Male         Primary atypical, other and ungualified       Female       Male       Male         Acute bronchitis       Choiner memonia       Male       Male       Male         Acute bronchitis       Choiner of the newbonia       Male       Male       Male         Multorer respiratory diseases       Male       Male <th>TITITI</th> <th>000</th> <th></th> <th>200</th> <th>N</th> <th>111</th> <th>1111</th> <th></th> <th>111</th> <th></th>	TITITI	000		200	N	111	1111		111	
Chronic rheumatic heart disease       Male       Male         Arteriosclerotic and degenerative heart disease       Male       Male         Other diseases of the heart       Male       Male         Hypertension without mention of heart       Male       Male         Total       Diseases of the Respiratory System       Male       Male         Mile       Female       Male       Male         Mult. Diseases of the Respiratory infections       Male       Male       Male         Mult. Diseases of the Respiratory infections       Male       Male       Male         Primary atypical, other and unspecified pneumonia       Male       Male       Male         Primary atypical, other and ungualified       Female       Male       Male         Acute bronchitis       Choiner memonia       Male       Male       Male         Acute bronchitis       Choiner of the newbonia       Male       Male       Male         Multorer respiratory diseases       Male       Male <th>TITITI</th> <th>488</th> <th></th> <th>19801</th> <th></th> <th>00 4 4</th> <th>111</th> <th>**</th> <th>TTT</th> <th>TI</th>	TITITI	488		19801		00 4 4	111	**	TTT	TI
Chronic rheumatic heart disease									10 41 41	
Chronic rheumatic heart disease		388	HHHH			4.900		44 0111		
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		80-84 Xeurs			-			111	1111	111		111	111	
		szcow vers			1			111		111	11		111	
	3	75-79 Years			-			111	1111	111		111	111	
								111	1111			111	111	
	-	65-69 years	:01					111	1111			111	111	
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nue		20-24 Years	111					111			11	111	111	
onti		\$1694 55-65							1111				111	
9		SJUDA 65-35		61					1111	-			111	
953	23	32-39 Years						111	1111	×111		111	111	
A.	AGES									111		111	111	
RT		30-34 Years												
ALBERTA, 1953 -Continued		52-29 Years			-			111	1111					
		20-24 Years								111			111	
NI "		12-19 Years			-				1 1 1 1	1 1 1			1 1 1	11
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IC		19.19	Fer	Total	Fer	Fen	Fen	Total Male Female	Male Fema Male Fema	Total Male Fema	Male Fema	Female	Female Female	Fer
TABLE 17A-DEATHS OF TREATY INI		CAUSE OF DEATH (Intermediate List)	A109 Chronic, other and unspecified nephritis Fer Ma Hole Ma Ma	XI. Deliveries and Complications of Pregnancy, Childbirth, and the Puerperium	A115 Sepsis of pregnancy, childbirth and the puerperiumFer	A117 Haemorrhage of pregnancy and childbirth Fen	A120 Other complications of pregnancy, childbirth and the puerperium Fen	XXIV. Congenital Malformations Tot. Mal Fen	Al28 Congenital malformations of circulatory system Fea Al29 All other congenital malformations Fea	XV. Certain Diseases of Early Infancy Mai	A130 Birth injuries Male A131 Postnatal asphyxia and atelectasis Male		A134 All other defined diseases of early infancy Male Male A135 711-defined diseases nonvitor to infance and incontants. Fem.	unqualified

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XVI. Symptoms, Sentlity, and III-Defined Conditions       Total       14       4       2       2       1         Sentlity without mention of psychosis       Male       5       4       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< th=""><th></th><th>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</th><th>2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</th><th></th><th></th><th></th><th></th><th></th></t<>		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	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					
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<ul> <li>CVI. Symptoms, Senility, and III-Defitential without mention of psychosis indefined and unknown causes</li> <li>I-defined and unknown causes</li> <li>I-defined and unknown causes</li> <li>EXVII. Accidents, Poisonings and Vio According to External Control of the accidental falls</li> <li>Condental falls<th></th><th></th><th>-</th><th></th><th></th><th> </th><th></th><th></th></li></ul>			-			 		
N N N N N N N N N N N N N N N N N N N	Total Male Female	Male Female Male Female		Male Female Male	Male Female Female			

TABLE 18A-CAUSES OF INFANT DEATHS OF INDIANS, BY SEX AND AGE, IN ALBERTA, 1953

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# VITAL STATISTICS BRANCH

		_							AGE	AT	DEATH	H						
SELECTED CAUSES	ISES	sdfnom S		sdfnom £		sq1uotu 5	adtrout 2	sumom č	sutrom 8		suffrom 7		s months		stinom e		sumon 01	stinom II
ALL LEVEL PERSONNELLEVEL		M.	F.	M. F	M.	i i	M.	E.	M.	H.	M.	F. N	M. F.	. M.	54	M.	i.	M.
ALL CAUSES		6	6	00	-1	6 01	9	63	10	4	~~~~	3	61	4	61	64	4	-
Tuberculosis, all forms		1	I	1			1	1	1	1	1	-		-	-		1	1
Whouns cough Wheningits (nonmeningococcal) Acute upper respiratory infection									TIT									
Influenza Pneumonia (four weeks and over)		- 4	110	10	10	11	4	1	4	0	01	-	1 11	100	1	11.	-	11
Bronchitis Gastro-enteritis and colitis		1 1*	01	-	11	101	11	-	11	11	11	11		1 1	-	-	11	11.
Longental manormations		• [	11				11	11	11	11	11	11			-		11	1
-With immaturity	VII.	11	11	11				11	: 1	1 1	1 1	11	11	1 1		11	11	
Postnatal asphyxia and atelectasis: Without mention of immaturity	ity	11	11	11	11	11	11	11		11	11	11		11			1	11
-With immaturity Pneumonia of newborn:		1	11	11	1 1		1	11	11	1 ]	11			11	11	11		11
-Without mention of immaturity	ity		1	T	+		1	1	1	1	1	-	-	1	-			-
Diarrhoea of newborn:		1	11	11	11	11	11	11	11	11	11					11	11	11
-Without mention of immaturity With immaturity	ity	1	1	11	1 1	1 1	11	11	11	1 1	1 ]	1 1	: :	1 1	11	11	1 1	1.1
Nutritional maladjustment:			1	I		-	1		1	1	1		-				1	
-With immaturity	<b>X4y</b>	-		11		1 1	1 1	11	11	11	11		1	1		1	1.1	
Ill-defined diseases peculiar to early infancy	arly infancy:	-		T	-					1		-	-		100			
-Without mention of immaturity	117	11	11	11	11	11	1 1	11	11	11	11	11	1.1	11	11	1.1	11	11
Immaturity			1	I	1			1	-		1	1.	+		-	-	1	
Accidents caused hv fire		-	-			4	1			+	1	-				1		
Accidental mechanical suffocation	1	1		1		1	1	-	1		-	-	-			-	-	and a
All other accidents		1	E	1		1		1	-	1							1	-
Other infective and parasitic diseases	ases	1	1		1	•1	-		1	1	1						1	
Diseases of the blood and blood-forming organs	forming organs	1	1	-			1		-	1		-	-			1		
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TREATY INDIANS, ALBERTA, 1953				-												-		
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TABLE 19A-CAUSES OF INFANT DEATH, BY			SELECTED CAUSES		ALL CAUSES	Tuberculosis, all forms Whooping cough Acute upper respiratory infection	Pneumonia (four weeks and over)	Gastro-enteritis and colitis Conservial malformations	Injury at birth: —Without mention of immaturity		-Without mention of immaturity With immaturity	Pneumonia of newborn: 	Nutritional maladjustment: 	III-defined diseases peculiar to early infancy: —Without mention of immaturity —With immaturity	Immaturity Ill-defnied and unknown causes Accidental mechanical suffocation	All other accidents	Other infective and parasitic diseases	Diseases of the blood and blood-forming organs
			Int. List No.			001-019 056 470-475 480-483	490-493	571 750-759	760, 761	762 .5	¢ n	763 .0	772 .0	773 1 5 0 5	774-776 795 E924-E925	(E800-E962)	(001-138)	(290-299)

TA, 1953 —Continued DEATH	safinom 7 safinom 8 safinom 61 safinom 11	F. M. F. M. F. M. F. M. F. M. F.	2 1 2 2 4 2 2 1	<b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	1 2 1 2 1											and the last the last the last the last	m m m m m
NS, ALBERTA		. M. F. M.	2 5 3 1		1 4 3 1										1		
TREATY INDIANS, ALBERTA, 1953 AGE AT DEATH	stitnom &	M. F. M. F.	6 2 2		63	2 1							-			·	14 14 14 14 14 14 14 14 14 14 14 14 14 1
AND AGE, OF	2 months	F. M. F.	8 5 7 4		4 3 4 3	1									1	1 1 1	
TABLE 19B—CAUSES OF INFANT DEATH, BY SEX	SELECTED CAUSES	W	ALL CAUSES	Tuberculosis, all forms Whooping cough Acute upper respiratory infection	Preumonia (four weeks and over)	Congenital malformations	Injury at birth: —Without mention of immaturity	Postnatal asphyxia and atelectasis: —Without mention of immaturity		-With immaturity Nutritional maladjustment:	-Without mention of immaturity		Immaturity	Accidental mechanical suffocation	All other accidents	Other infective and parasitic diseases	Diseases of the blood and blood-forming organs
	Int. List No.			001-019 056 470-475	490-493	571 571 750-759	760, 761 .0 5	762 .0	763 .0	772 .5	ė ių	773 .0	1-	E924-E925	(E800-E962) Decidinal T	(001-138) Besidual IV	(290-299)

TABLE 20A-LIVE BIRTHS OF INDIANS BY MONTH, 1953 (ALL INDIANS), ALBERTA

January	113
February	143
March	140
April Max	134
June	144
July	121
August	115
September	115
October November	115
December	113
TOTAL	1,495

#### TABLE 20B-BIRTHS OF INDIANS, BY MONTHS, 1953 (TREATY INDIANS), ALBERTA

January	58
February	84
March	84
pril.	65
lay	74
une	60
ugust	57
eptember	6
ctober	69
ovember	70
Jecember	50
TOTAL	797

#### TABLE 21A—LEGITIMATE AND ILLEGITIMATE LIVE BIRTHS OF INDIANS IN ALBERTA, 1953 (ALL INDIANS)

	То	tal Bi	rths	Leg	gitim	ate	Ille	gitim	nate
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Alberta	1495	774	721	1018	512	506	477	262	215

#### TABLE 21B-LEGITIMATE AND ILLEGITIMATE BIRTHS OF TREATY INDIANS IN ALBERTA, 1953

TABLE 22-BIRTHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE, 1953

	Total						PLA	PLACE OF RESIDENCE	RESIDEN	ACE					1
PLACE OF OCCURRENCE	occur-	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)	418,426	118,426 12,797	2.737	18,276	16,458	128,719	129,771	21,242	23,703	31,376	31,746	380	571	628	23
Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Alberta Alberta Alberta Alberta Northwest Territories Northwest Territories	12.775 2,696 18.302 18.302 18.302 130.693 130.693 130.693 31.722 21,483 23.731 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615 31.615	12.761 22 9 9 2	2,689 14 20 20 10 4	18,191 31 31 42 1 1	1 16,176 68 24 1 149	1 9 9 3255 127,327 1,028 1 1,028 2 2 2 2	225 160 255 255 255 152 152 152 152 152 152 152	1 21,076 64 7 7 7 34	23,366 13 23,366 13 13 13 13	23 23 21,016 31,016 23 23 23 23 23 23 23 23 23 23 23 23 23	1 26 26 10 26 115 31,51115 31,51115 18 18 18 44		1	2395 2395 2395 2395 2395 2395 2395 2395	⁻¹⁰ 2     ⁰

## ANNUAL REPORT, 1953

	T	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	31,272	31,376	256	360	29,363	29,475	243	355
Division No. 1	1,112	1.089	242	219	1,040	1,023	233	216
Division No. 2	2,699	2,340	416	57	2,416	2,060	411	55
Division No. 3	372	529	68	225	290	447	62	219
Division No. 4	530	989	21	480	493	952	19	478
Division No. 5	227	393	19	185	189	347	17	17
Division No. 6	6,970	6,456	681	167	6,890	6,372	674	15
Division No. 7	922	919	70	67	777	781	61	6
Division No. 8	2,466	2,311	313	158 283	2,264	2,140	274	15
Division No. 9	588 936	824	47 93	283	437 892	642	41 89	24 37
Division No. 10 Division No. 11	9,434	1,216 8,840	856	262	9,386	1,174 8,779	854	24
Division No. 12	478	586	59	167	427	546	47	16
Division No. 13	996	1.058	71	133	908	969	68	12
Division No. 14	1,198	1,355	135	292	1,140	1,298	130	28
Division No. 15	870	938	72	140	714	789	58	13
Division No. 16	1.121	1,106	116	101	951	944	102	9
Division No. 17	353	427	13	87	149	212	11	74

TABLE 23—LIVE BIRTHS AND LIVE BIRTHS IN HOSPITAL BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1953

	TC	TAL LIV	E BIRTI	IS	LIVE	BIRTHS	IN HOSI	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 elsewhere
Athabasca	228	54	179	5	224	54	175	
Barrhead	211	59	164	12	209	59	162	1
Beverly		127		127	200	127		12
Black Diamond		25		25		25		2
Blairmore	3	49	3	49	2	49	2	4
Bonnyville	224	78	156	10	222	77	155	1
Bowness	2	163		161		161		16
Brooks	228	87	146	5	160	58	106	
Calgary	5,803	4,285	1,599	81	5,802	4,283	1,599	8
Camrose	401	155	251	5	398	155	248	1
Cardston	199	86	117	4	127	53	78	
Claresholm	184	115	79	10	183	114	79	10
Coleman	2	86	00	84	1	85		8
Didsbury	126	41	99 232	14 15	125	39	99	13
Drumheller	364 9,260	6.529	2.814	83	351 9.258	144 6.524	221 2.813	7
Edmonton Edson	237	116	132	11	236	115	131	i
Forest Lawn	1	86		85		85		8
Fort Saskatchewan.	1	51	- 1911	51	712	51		5
Grande Prairie	367	198	181	12	319	170	160	1
Hanna	153	52	107	6	150	50	106	
High Prairie	323	76	251	4	316	74	246	
High River	273	69	207	3	272	68	207	:
Innisfail	146	49	106	9	63	22	50	1
Jasper Place	1	453		452		451		45
Lacombe	264	78	187	1	263	77	187	10
Leduc	1 959	106	579	106 23	1 959	105	579	
Lethbridge	1,353	797 96	519	95	1,353	795 95	219	2
Lloydminster Macleod	71	83	14	26	61	75	11	2
Magrath	60	31	32	-03	45	21	26	
McLennan	233	48	193	8	228	46	189	
Medicine Hat	724	438	297	11	724	438	297	1
Olds	205	66	149	10	205	66	149	10
Peace River	197	120	84	7	170	108	69	1
Pincher Creek	129	50	83	4	124	48	80	
Ponoka	209	122	94	7	208	122	93	
Raymond	131	86	57	12	109	65	54	10
Redcliff		35		35		35		3
Red Deer	569	349	234	14	569	348	234	13
Redwater		78		78		77		7
Rocky Mtn. House	117	73	59	15 34	66	47	34	1:
St. Albert	1 283	35 84	214	15	282	34	213	1
St. Paul	283 316	144	179	15	315	84 142	179	1
Stettler. Taber	340	141	214	15	315	142	202	1
Three Hills	122	63	66	15	121	61	65	1
Vegreville	209	65	148	4	208	64	148	
Vermilion	187	76	113	2	185	76	111	
Vulcan	122	40	92	10	117	39	88	1
Wainwright	240	112	133	5	199	90	113	
Westlock	306	59	255	8	306	59	255	1
Wetaskiwin	364	153	228	17	350	146	221	1

TABLE 24 — LIVE BIRTHS AND HOSPITAL LIVE BIRTHS, BY OCCURRENCE AND RESIDENCE, FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1953

#### TABLE 25-LIVE BIRTHS BY MONTH IN ALBERTA, 1953

January	2,401
February	2.375
March	2.652
April	2.639
May	2.783
June	2.748
July	2,720
	2 663
August	2,729
September October	2.520
	2 575
November December	2.571
December	2,011
TO TAT	91 976
TOTAL	01,010

	1723	1 1 1 1 1 1 1 1	ATTEN	IDED BY	
CENSUS DIVISIONS	TOTAL	Physician	Nurse	Midwife	Unattended and not stated
ALBERTA	31,376	30,554	242	155	425
Division No. 1	1.089	1,050	8	22	9
Division No. 2		2,235	47	40	18
Division No. 3		526	1		2 13
Division No. 4		966	1410	10	13
Division No. 5		392			1
Division No. 6		6,357	62	7	30
Division No. 7		911	1	3	4
Division No. 8		2,251	20	11	29
Division No. 9		805	2	1	16
Division No. 10	1,216	1,208	1		
Division No. 11 Division No. 12	8,840	8,801	5	1	33
Division No. 12 Division No. 13		571	2	1	12
Division No. 14	1,058 1,355	999 1,317	0	1	12 49 28 54
Division No. 15	938	847	26	11	54
Division No. 16	1.106	1,081	7	5	13
Division No. 17		237	50	33	107

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#### TABLE 26-LIVE BIRTHS FOR CENSUS DIVISIONS, BY TYPE OF ATTENDANCE, ALBERTA, 1953

			ATTEN	NDED BY	
CITY, TOWN OR VILLAGE	TOTAL	Physician	Nurse	Midwife	Unattende and not stated
Athabasca	54	54		-	
Barrhead	59	59			
Beverly	127	127			
Black Diamond	25	25			
Blairmore	49	49			
Bonnyville	78	78	1000		
Bowness	163	163			
Brooks	87	87		-	
Calgary	4.285	4.284		1	1
Camrose	155	155		and the second	1
Cardston	86	86		1	
Taresholm	115	115			
	86	86			
Coleman	41	41	****		
Didsbury	147	147			****
Drumheller	6.529	6.527	1		
Edmonton		116			1 1
Cdson	116	86	1010		
orest Lawn	86			1010	
fort Saskatchewan	51	51		****	
Frande Prairie	198	198			
Ianna	52	52		****	
ligh Prairie	76	76		4113	
ligh River	69	69		****	
nnisfail	49	49			
asper Place	453	453			
acombe	78	78	-		
.educ	106	105	4.4.1.0	4010	1
ethbridge	797	797		4410	
loydminster	96	95		4411	1
dacleod	83	81	****		2
Magrath	31	29			2
IcLennan	48	46			2
Medicine Hat	438	438			
)lds	66	66			
Peace River	120	120			
Pincher Creek	50	50			
Ponoka	122	122			
Raymond	86	85		1	1 1
tedcliff	35	35			
ted Deer	349	349			
ledwater	78	78			The second secon
locky Mountain House	73	72		1	1
t. Albert	35	35			
t. Paul	84	84	1 ( La 1)	-	
tettler	144	144			
aber	141	139			2
hree Hills	63	63			
egreville	65	65			
	76	76		****	
Vermilion	40	40			
/ulcan	112	112			
Vainwright	59	59			4+15
Vestlock				4111	4.1.5
Vetaskiwin	153	153		4199	

## TABLE 27—LIVE BIRTHS IN INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER BY TYPE OF ATTENDANCE, ALBERTA, 1953

			A	GE O	F FA	THE	R (Ye	ears)	-				.4.		
AGE OF MOTHER (Years)	Under 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 and over	Not stated	Total born to married mothers	Born to unmarried mothers	Born to all mothers
2 3 4 4 5 6 7 8 9 20 1 1 22 3 4 5 5 6 7 7 8 9 9 0 1 1 22 3 4 4 5 5 6 6 7 7 8 9 9 0 0 1 1 22 3 4 4 5 5 5 6 6 7 7 8 9 9 0 0 1 1 22 3 4 4 5 5 5 6 6 7 7 8 9 9 0 0 1 1 22 3 4 4 5 5 5 6 6 7 7 8 9 9 0 0 1 1 2 2 3 4 4 5 5 5 6 6 7 7 8 9 9 0 0 1 1 2 2 3 3 4 4 5 5 5 6 6 7 7 8 9 9 0 0 1 1 2 2 3 3 4 4 5 5 5 6 6 7 7 8 9 9 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 4 4 5 5 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 4 4 5 5 6 6 7 7 8 8 9 9 0 0 0 1 1 2 2 3 4 4 5 5 6 6 6 7 7 8 8 9 9 0 0 0 1 1 2 2 3 4 4 5 5 6 6 6 7 7 8 9 9 0 0 0 0 1 1 7 7 8 8 9 9 0 0 0 1 1 7 7 8 8 9 9 0 0 and over. Not stated Notestated 1 8 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	1 7 46 42 42 42 17 13 3 1 2 1 1 1 1	1 3 3 3 4 2 2 1 3 3 3 4 2 2 1 3 3 4 2 2 1 5 2 1 5 2 0 7 6 9 7 8 9 7 2 4 2 1 5 2 0 7 6 9 7 7 8 9 7 7 2 1 5 5 7 7 2 1 5 5 7 7 2 1 5 5 7 7 2 1 5 5 7 7 2 1 5 5 7 7 2 1 5 5 7 7 2 1 5 5 7 7 2 1 5 5 7 7 2 1 5 5 7 7 2 1 5 5 8 9 7 1 1 9 9 1 8 1 2 1 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1	3 12 41 142 297 507 678 894 10 1,017 1,035 894 409 248 129 560 409 248 129 83 61 23 61 23 14 42 2 2 2 1 1	1 99 21 63 117 194 254 308 443 4912 686 6833 721 600 5000 5075 242 1288 777 5 34 244 175 34 244 175 3 3 11 1	1 1 1 1 5 15 23 34 350 96 107 138 361 309 343 343 343 343 343 361 310 277 119 55 21 147 119 55 21 21 147 119 15 21 21 21 21 21 21 21 21 21 21	5 8 250 24 333 47 62 71 98 120 24 33 47 62 71 98 120 131 176 188 188 188 188 196 177 187 188 127 79 555 20 111 5 3	26 64 3 122 100 111 15 299 393 333 555 766 800 81 91 922 777 553 466 255 177 4	2 4 4 3 2 4 4 2 5 12 9 6 200 203 21 222 237 4 4 18 29 20 203 21 222 21 222 237 4 4 18 8 29 12 20 203 21 22 21 22 21 22 20 3 21 22 22 22 22 22 3 21 22 22 22 22 22 22 22 22 22 22 22 22	1 1 1 211 2 362 3364 6696 83462 13 1	1 1 1 2 3 2 4 4 2 1 1 1 4 4 4 2 2 2 1 1 1 1	111235		1 8 55 239 595 939 1.441 1.731 1.873 1.980 1.928 1.864 1.811 1.673 1.480 1.327 1.236 1.151 894 736 671 557 511 430 319 1988 167 103 198 167 103 198 167 103 198 167 103 198 167 103 198 167 103 198 189 189 189 189 189 189 189	$\begin{array}{c} 1\\ 1\\ 2\\ 2\\ 12\\ 52\\ 106\\ 175\\ 29\\ 99\\ 112\\ 711\\ 833\\ 511\\ 54\\ 500\\ 355\\ 37\\ 333\\ 19\\ 211\\ 14\\ 16\\ 9\\ 9\\ 9\\ 14\\ 16\\ 6\\ 9\\ 9\\ 11\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 2\\ 1\\ 1\\ 1\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\$	2 100 344 717 1,100 1,58 1,855 1,97 2,222 2,05 2,011 1,910 1,566 1,516 1,516 1,516 1,516 1,25 1,177 900 744 68 577 522 433 200 177 100 64 41 11 11 11 11 11 11 11 11 11 11 11 11

### TABLE 28-LIVE BIRTHS BY AGES OF PARENTS, ALBERTA, 1953

			_			RDEF							-	_		_	_	_	_	
AGE OF MOTHER	TOTAL	1st	2nd	3rd	4th	Sth	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	22nd	
2 .																				I
	1	1		1.000	1000			1000			12.0									1
	3	3								10.00			110		100					1
	20				- 4444						-010									1
		20				****			-									****	****	1
	107	102	5			2011					- 20.00	****					****			1
	345	307	35	2	1	1010	10.00				. and it	1111						-		1
	770	636	124	8	2					****								inco		1
	1,100	804	249	39	8					-			in							1
	1.589	957	503	110	16	2	1						ine			in	····			ł
	1.856	995	620	192	42	6														1
	1.971	937	671	260	80	17	4	1		1				1						1
	2.225	874	775	397	132	39	5	2		100000			100							
	2,051	648	732	412	176	64	17	-		2										l
			672	453	186	80	26		5								****			1
	2,011	583						5		1	1111	110								1
	1,915	429	695	424	217	84	50	11	3	1	1		1.11					4.0.4.0		1
	1,865	362	628	432	245	120	59	15	3	1									innis	
	1,723	294	519	430	254	119	52	33	15	3	2	2						un		
	1.667	218	434	439	291	134	76	30	36	7	2		1							
	1.517	193	367	423	248	139	71	40	23	8	- 4			1						j
	1.360	154	281	386	248	144	74	34	20	11	4	2	1		1					1
	1.255	121	271	333	222	137	74	43	20	17	12	4	1							l
	1,172	128	223	270	197	145	83	52	40	21	8	3								1
	908	69	144	234	162	118	79	38	28	18	11	5	2	1		****			****	1
																		1111		1
	749	60	116	162	159	96	49	36	25	18	11	.9	7	1	1					1
	685	40	112	137	135	69	56	45	28	23	14	15	6	4			1			1
	573	39	72	129	93	77	52	36	28	16	11	8	6	3	1	2	in			ł
	520	43	76	92	72	74	62	27	16	20	16	10	5	5	1	1				l
	439	15	45	90	75	65	35	26	14	21	13	8	12	12	3	4		1		l
	333	23	29	54	46	47	40	16	20	15	10	10	8	7	4	1	2	1		l
	204	17	17	22	36	27	17	16	10	9	10	6	7	4	1	3	1		1	l
	176	10	16	18	26	19	19	15	11	10	9	7	3	5	3	3	i	1		l
	102	1	9	17	15	18	7	11/2017	5	12	5	4	5	2		-	0.21	î		i
		2	3	2	7	6	11	4	7	1	3	6	4	3	î	4		-		1
	64										0			0	-					1
	49	3	7	2	1	5	3	2	4	3	5	4	22	5		3		1.111		1
	19	1	-	2	1	2	1	1		1	1	1	2	3		2	1			1
	12			1	3	1	444.0			2	2			1	1	1				1
	7					1	- 2	1	in.		2					1				1
	1				1111								1							1
and over	2				2				1											I
ot stated	10	2	2		2		1													l
or or a section of the section of th	20	-			-		-		1000	1111		10.00	1.1.1.1			ALC: NO	1000	1.1.1.1		Ø,

### TABLE 29-LIVE BIRTHS, BY AGE OF MOTHER AND BIRTH ORDER, ALBERTA, 1953

		SING	LE	SETS	OF T	WINS	SET	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	31,852	30,703	447	318	3	18	4		3	
2										
3	1	1								
	4	3	1							
5	20	20							1111	
5	109 352	107 343	27	1					****	
7	783	759	12	5	****	1			****	
	1.122	1,090	21	3		î	1			
· · · · · · · · · · · · · · · · · · ·	1,609	1.580	17	4	1	î				
	1.879	1.829	22	13		î				
2	1,987	1.943	16	14			1			
3	2,242	2,186	16	19		1				
	2,073	2,003	22	24	-					
5	2,037	1,971	25	18		1	1			
	1,943	1,871	26	21		2				
	1,890	1,817	23	23		2			4111	
	1,749	1,693	24	13			1			
	1,694	1,612	26	27	****	1			1	
	1,541	1.474	22	20		100				
	1.379	1,332	17 20	14	1	1			1	
	1,194	1.139	20	16		1				
	921	880	13	14		5	****			
	763	726	14				1			
3	700	660	11	10		3		S	1	
1	589	559	16	7						
3	537	504	15	8	1					
	451	421	12	9						
	335	325	2	4			****			
	215	198	11	3		****			****	
	180	173	3	1		1				
	106	100	4	1						
	65	64	1						****	
· · · · · · · · · · · · · · · · · · ·	50	47	1	1					****	
	19 15	19 12	3	-			****		****	
	15	12								
	í	í				****				
9 ) and over	2	+		1		****	****		****	
lot stated	11	8	1	î	****	****	1111			

#### TABLE 30-MULTIPLE BIRTHS, BY AGE OF MOTHER, ALBERTA, 1953

### TABLE 31-MARRIAGES, BY MONTH OF MARRIAGE, IN ALBERTA, 1953

January	477
February	509
March	437
April	809
May	773
June	1,194
July	1,191
August	1,050
September	861
October	1,089
November.	979
December	151
TOTAL	10,126

	ANNUAL REPORT, 1953	
patets 10		-
Sc over		1-1
12		19
69-		26 1
19		46
69		51
124		IL
49		26
48		25
47		16 2
46		24
45	0 H H00H 4 H0 00H	13
		_
44		24
43		R
42		45
41		54
40		22
39		24
		20
37		23
		61 6
		market and
and the second s		73
34 0		11
2 25		35
the second se		112
31		135
30		157
29	1 1012100000000000000000000000000000000	187
58	100000000000000000000000000000000000000	218
27	1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	251 2
26	2244	-
13		9 320
		9 409
3 24	: HU400044400HH	\$ 529
23	122232457-738242 12223242457-73824 12223242457-73824 1222324 1222324 122232 122324 12232 12232 12232 12232 12232 12232 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 12332 1	870 698
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	1108 1111111111111111111111111111111111	1 15
20		111
19	222565566556655665566556655665566556655	597 1013 1103 1131
18	4 4 4 111330 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332 111332	13 1
		7 10
17	никоменания накоменания	285
16		240
der 16		28
suioc tal		10,126
AGE OF GROOM	18 18 miles and a second se	des
SOC		bri
AG	Under 18 Under 18 19 24 25 25 25 26 26 26 27 27 28 33 33 33 33 34 40 41 41 41 42 45 35 55 55 56 56 56 44 46 46 46 46 46 46 46 46 46 46 46 46	Total brides
	00220202020202020202020202020202020202	Lo

TABLE 32-MARRIAGES, AGE OF BRIDE BY AGE OF GROOM, ALBERTA, 1953

	MARRIAGES BETWEEN									
	Bachelors and				dowers	and	Divorced Men an			
TOTAL MARRIAGES	Spinsters	Widows	Divorced	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women	
10,126	8,705	232	314	134	191	44	320	60	126	

### TABLE 33—MARRIAGES, MARITAL STATUS OF BRIDEGROOM BY STATUS OF BRIDE, ALBERTA, 1953

#### TABLE 34—MARRIAGES, MARITAL STATUS BY AGE OF BRIDEGROOMS, ALBERTA, 1953

AGES	TOTAL	Bachelors	Widowers	Divorced Men
FOTAL	10,126	9,251	369	506
Under 20 years	456	456		
20-24 years	4,580	4,561	2	17
25-29 years	2,787	2,683	14	90
0-34 years	994	865	22	107
15-39 years	470	328	32	110
0-44 years	252	146	31	75
5-49 years	209	109	45	55
0-54 years	120	55	35	30
5-59 years	77	22	45	10
0-64 years	68	12	49	7
5-69 years	65	11	49	5
0-74 years	25	1	24	
5+ years	21	-	21	
Not stated	2	2		

### TABLE 35-MARRIAGES, MARITAL STATUS BY AGE OF BRIDE, ALBERTA, 1953

AGES	TOTAL	Spinsters	Widows	Divorced Women
TOTAL	10,126	9,159	483	484
Under 20 years	2,981	2,977	3	1
20-24 years	4,345	4,269	19	57
25-29 years	1,385	1,221	44	120
30-34 years	576	413	55	108
35-39 years	302	157	56	89
10-44 years	200	69	66	65
15-49 years	116	31	61	24
0-54 years	71	10	47	14
5-59 years	51	8	39	4
0-64 years	46	3	41	2
5-69 years	26	1	25	
0-74 years	19		19	
5+ years	7		7	
Not stated	1		1	

and the second second								BIR	TH	PLA	CE O	FE	BRID	E					
	S	Canada																	
BIRTHPLACE OF GROOM	TOTAL GROOMS			Isles	possessions Europe Asia		United States	Other	Thenonified										
CANADA	8026	7582	1	7	38	18	45	120.07	1000	1133	5747	193	10	156	185		96	7	1
Newfoundland	12	9						1			7	1		2	1				-
Prince Edward Island	23	19		2					1	2 17	14			1	1		2		
Nova Scotia New Brunswick	79 41	72 40			3	24	1	13	63	17	40 23	22		3	3		1		-
Quebec	127	118		1	15	33 24	14	4	5	12	72	4	2	6	2		1		
Ontario	420	375		1	5	2	5	49	$\frac{13}{46}$	63 58	221 214	14		23	11 17	à	11		-
Manitoba Saskatchewan	372 1313	336	1		3 13	1	1 8	7 22	46	389	736	31	1		32		10	4	
Alberta	5389	5124		3	13	15	13	71	99	545	4273	97	5	88	116		58	3	
British Columbia	248	239					2	7	6	42	146	36		5	2		2		
Other and prov- ince unspecified	2	2								1	1	1			1				1
British Isles and										1000			(			1		1	(
possessions	379 1338	245 481	1	1	15	1	27	18 8	12 17	38 64	163 371	9	****	103 29	12 814		19 13		1
Europe Asia	21	401		1	0	*		•		1	3	625	****	3	3		10		1
United States	355	205			2	1	2	9	9	39	183			13	19		73		
Other.	6	3				-1.4.1			inni	2		1	43.43		1		1	2	
Unspecified	1												- ++++				-		1
TOTAL	10,126	8567	2	9	46	21	56	200	263	1277	6467	216	10	304	1034	10	202	9	1.

TABLE 35-MARRIAGES, BIRTHPLACE OF GROOM BY BIRTHPLACE OF BRIDE, ALBERTA, 1953

24					11	111	111		
		Unspecified of unknown		111		111		111	19 1 1 1
		Non-religious denominations	4 1 1 1	111		111		111	
		Other religions		4 14	9	0	10 th th	13	
		United Church of Canada	337 70		1		60	=:	186 17 17
		Unitarians	1111	111	11	111	111	111	
23		Swedenborgians	1111		11	111	111	111	11111
. 19		Spiritualists	1111	111	11	111	111	111	11111
TA		Society of Friends	1111		11	111	111	111	
BER		Salvation Army	0	111	11	111	H [H		
ALI		Roman Catholics	29		1.1		4000	70	108
DE,		Reformed Churches (Christian)	4	111	11			111	
BRI		Presbyterians	40		-	111	01	N 14	804
DF ]		Plymouth Brethren	-	111	11	111	111	111	11111
GROOM BY RELIGIOUS DENOMINATION OF BRIDE, ALBERTA, 1953		Pentecostal Assemblies	14 4		11	111	~	•	100 10
ATTO	BRIDE	Oriental teligions	1111		11	111	111	TIT	11111
IIN		Non-denominational	8 12	HH	-	110	en	~	121
NOM	OF	Mormons	9 0	117	F	111	1	TTT	10
DEN			1 01	111	11	111	111	111	NHHM
SI	E	Moravian Church		111	11	111	TIT		01 00
IOU	INA	Methodists	N =	117	11	111		THE	1021
DI	MO	Mennonites	53 65 3		:01		00	10 10	519
REI	DENOMINATION	Lutherans		111	11		TIT	111	41 21
ВҮ	ISI	Jewish		111		111	111	33	IN IT
W	RELIGIOUS	International Bible Students		111	11	111	111	111	IF ITT
00	DI	Holiness Movement				111	8		8
GR	REI	Greek Catholic Churches	1 0	HIT		111	00	216	
OF		Gospel bodies	0 4	111		H : :	101		(C) H ()
N		Evangelicals	17	HII		111		8	- 33
E		Eastern Orthodox Churches			1	111	262	C1 : :	
INA		Doukhobors	1-1-10			58	111		101
MO		Church of God	01	111		0		111	0
EN		Churches of Christ (Disciples)		111	100		111		
S	-	Christian Missionary Alliance Christian Scientists		111	12		 TTT	111	100
DO			1111	: :00		111	111	111	TITIT
IDI	-	Christians	HII	111		111		111	T T T T T
REI		Christadelphians		16		111			91
13	-	Brethren including United	421	2	4	01	**	01	2400
AGE		Baptists	101	111		1 1	111	111	
RIL	-	Apostolic bodies	30	-N	0101		27	00	
MAI	-	Adventists Anglicans	4				H		14 11
TABLE 36-MARRIAGES, RELIGIOUS DENOMINATION	-			1853	15	13215	1.1	37	
LE 3		Total Grooms	45 1071 352	0 -	0111		418 27 17	352	1048 115 50 20
TAB		RELIGIOUS DENOMINATION OF GROOM	Adventists Anglicans Apostolic bodies Baptists Brethren	United Christadelphians Christians Meeionee	Christian Scientists Churches of Christ	(Disciples) Church of God Doukhobors Fastorn Orthodox	Evangelicals Gospel bodies	Churches Churches Holiness Movement International Bible Students	Jewish Lutherans Mennonites Methodists Moravian Church

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	12
20 60 11 11 11 11 13 28 28 28 28 1 1 1 1 1 1 1 1 1 1 1 1 1	3052
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5 13	2142
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331 1431 481	429
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	10,126 47 1031
183 365 24 254 125 2391 125 2391 125 2391 125 2361 10 141 141	126
60 60	10,1
Mormons Non-denominational Pentecostal Assemblies Plymouth Brethren Presbyterians Reformed Churches (Christian) Roman Catholics Salvation Army Society of Friends Society of Friends Society of Friends Society of Friends Spiritualists Swedenborgians Unitarians Unitarians Unitarians Other religious denomi- nations Unspecified or Unspecified or	Total brides

	PERIOD OF GESTATION	Male	Female
8 weeks		23	10
weeks		6	4
) weeks		13	14
weeks			2
2 weeks		16	13
weeks		3	6
weeks		12	12
weeks		10	8
weeks		24	18
weeks		16	9
weeks		34	27
weeks		14	10
weeks		79	53
weeks		12	15
weeks			
weeks		1	2
weeks		ĩ	
weeks			
weeks		1	
ot state		3	5
or searce		-	1
DTAL		268	208

TABLE 37-STILLBIRTHS, BY SEX AND PERIOD OF GESTATION, ALBERTA, 1953

TABLE 38-RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS

	Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths
1905		1.059	3.13	1929	1.042	2.71
906		1,094	2.07	1930	1,027	3.21
907		1,075	2.96	1931	1,075	3.25
908		1,077	2.73	1932	1.052	3.08
909		1,086	2.59	1933	1,053	3.01
910		1,065	2.69	1934	1,032	3.04
911		1,103	2.43	1935	1,055	2.81
912		1,084	2.43	1936	1,049	2.57
913		1,053	2.67	1937	1.019	2.38
914		1,081	3.30	1938	1.046	2.70
915		1,000	3.74	1939	1,046	2.85
916		1,063	3.29	1940	1,033	2.79
917		1,061	3.25	1941	1,054	2.71
918		1,069	1.88	1942	1,058	3.02
919		1.074	2.56	1943	1,041	2.96
920		1,055	2.92	1944	1,060	3.06
921		1,055	3.32	1945	1,061	3.08
922		1,034	3.06	1946	1.036	3.36
923		1,072	3.13	1947	1,061	3.76
1924		1,036	2.97	1948	1.049	3.44
925		1,036	2.97	1949	1,051	3.52
926		1.053	2.80	1950	1,052	3.74
927		1.065	2.94	1951	1,039	3.76
928		1,064	2.75	1952	1,058	3.95
				1953	1,063	4.10

2010年1月17日18日11日11日11日11日11日		Divorce	s	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	308 238 22 12 4	123 83 10 2 4	185 155 12 10	1	1		
Grande Prairie Hanna Red Deer Drumheller	2 9		25	8113 1111 1112			
Fort Macleod Wetaskiwin	35	11	2 4				
TOTAL	603	228	375	1	1		

#### TABLE 39-DIVORCES AND NULLITIES, BY JUDICIAL DISTRICTS, FOR THE YEAR 1953, ALBERTA

1	Year	Granted to Husband	Granted to Wife	Total
1919 1920		3 74	3 26	6 100
1921		53	37	90
1922		80	49	129
1923		57	32	89
1924		66	53	119
1925		59	42	101
1926 1927	*******	79 83	75 66	154
1924		91	84	193
1929		77	71	149
1930		64	87	151
1931		69	87	156
1932		68	81	149
1933		56	79	135
1934		62	106	168
1935		74	135	209
1936		74	135	209
1937		102	139	241
1938		105	162	267
1939		104	163	267
1940	and the second s	119	154	273
1941		135	176	311
1942		179	201	380
1943		190	223	413
1944		245	243	488
1945		302	273	575
1946		494	480	974
1947	There is an	404	478	882
1948		302	357	659
1949	Internet and a state of the second se	262	332	594
1950		249	311	550
1951		255	334	589 630
1952		239	391	
1953		228	375	603

2 .		80	49	129
3.			32	89
4 .			53	119
5 .		59	42	101
5.	******	79	75	154
6 .	***************************************	83	66	149
· ·		31	04	1/0
a		64	- 87	151
		69	87	156
3		68	81	149
2		56	79	135
6		62	106	168
		74	135	209
6 .		74	135	209
τ.		102	139	241
δ,		105	162	267
1		104	163	267
	and a second	119	154	273
		133	170	311
. ·		100	102	412
		245	220	410
		245	273	575
2		494	480	974
		404	478	882
		302	357	659
1		262	332	594
1		249	311	550
100		255	334	589
2 .		239	391	630
3.		228	375	603

### DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Rate of Natural Increase	13.04 13.04 13.04 14.07 14.07 14.07 15.35 15.35 15.45 15.45 15.45 15.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.45 16.4516.45 16.45 16.45
Puerperal Death Rate per 1,000 Births	6.33 6.33 6.33 6.33 6.33 6.48 6.48 6.48 6.48 6.48 6.48 6.48 6.48
Infantile Death Rate per 1,000 Births	90.00 126.57 126.57 126.57 126.57 126.57 122.49 110.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 90.5 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.30 87.5 87.5 87.5 87.5 87.5 87.5 87.5 87.5
Death Rate	7.36 8.81 9.15 9.15 8.88 10.53 10.53 8.18 8.18 8.18 8.18 8.18 8.18 8.18 8.1
Number of Deaths	114 114 1.578 2.5662 2.5662 3.526 3.526 4.232 4.247 4.267 5.577 4.267 5.577 5.577 5.577 5.577 5.577 5.578 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.559 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.529 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.559 5.5595 5.559 5.5595 5.559 5.559 5.559 5.559
MARKIAGES, DEATHS, AND RAIES FOR THE LEARS 1902-1903 Number Marriage Number Death Death R Marriages Birth	6.77 8.67 7.608 8.554 9.12 8.554 8.554 9.12 7.77 7.77 7.77 7.77 9.12 8.554 9.12 8.554 7.77 7.77 7.77 7.77 7.77 7.77 7.77
Number of Marriages	187 1927 1927 1927 1927 1927 1927 1927 192
and the second se	4,111 4,111 6,170 6,100 7,610 8,066 8,066 8,066 16,535 16,535 16,535 15,655 15,655 15,655 15,655 15,655 15,655 15,655 15,655 15,655 15,655 15,655 15,655 15,663 17,164 17,168 17,168 17,068 17,068 17,068 17,068 17,068 17,068 17,068 17,068 17,068 17,068 17,068 17,068 17,068 17,705 16,592 17,068 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,705 17,
Number Rate Births Births Birth Date Date	22.41 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45 22.45
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Year	1905           1906           1906           1907           1908           1911           1912           1913           1914           1915           1916           1917           1918           1919           1914           1915           1915           1916           1917           1918           1919           1918           1919           1918           1919           1921           1922           1923           1924           1925           1926           1927           1928           1929           1929           1929           1931           1932           1933           1934           1935           1936           1937           1938           1938           1939           1940           1941           1942           1943

TARLE 40-DODITATION RIPTHS MARRIAGES DEATHS AND RATES FOR THE VEARS 1965-1953

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### VITAL STATISTICS BRANCH

16.0 16.2 20.5 20.5 20.5 20.5 20.5 20.5 21.0 23.1.0 23.1.0 23.1.0
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6,320 6,454 6,454 6,543 6,543 6,543 6,543 6,543 6,543 7,083 7,083 7,646 7,167
8.9 8.8 11.8 10.7 10.4 10.4 9.9
7,310 9,478 8,797 8,797 9,478 9,307 9,305 9,305 9,305 9,214 10,126
20,072 24,707 24,707 24,049 24,049 24,038 25,670 25,670 29,038
24.1 27.6 30.0 28.7 28.7 28.7 30.0 31.3
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1945 1946 1946 1948 1949 1949 1951 1952













