#### Report / Board of Health, City of Edmonton, Alberta.

#### **Contributors**

Edmonton (Alta.). Board of Health.

#### **Publication/Creation**

[Edmonton]: [The Board], [1941]

#### **Persistent URL**

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# REPORT

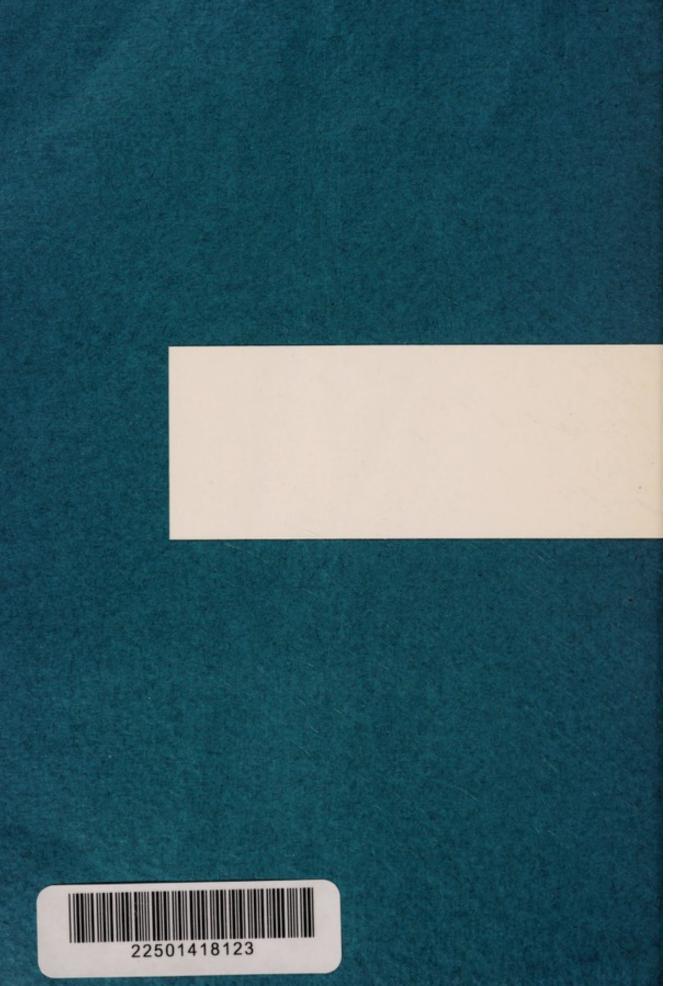
of the

LOCAL BOARD OF HEALTH



CITY OF EDMONTON
ALBERTA

1941



# BOARD OF HEALTH, 1941

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Ald. S. Parsons Ald. Lieut.-Col. Brown Dr. L. P. Mousseau

Mr. A. E. Ottewell (Public School Board) Mr. H. Currie (Separate School Board)

#### EX-OFFICIO MEMBERS:

Mayor J. W. Fry

Dr. G. M. Little, M.O.H. Mr. A. W. Haddow, City Engineer S. Main, Secretary

### 1942

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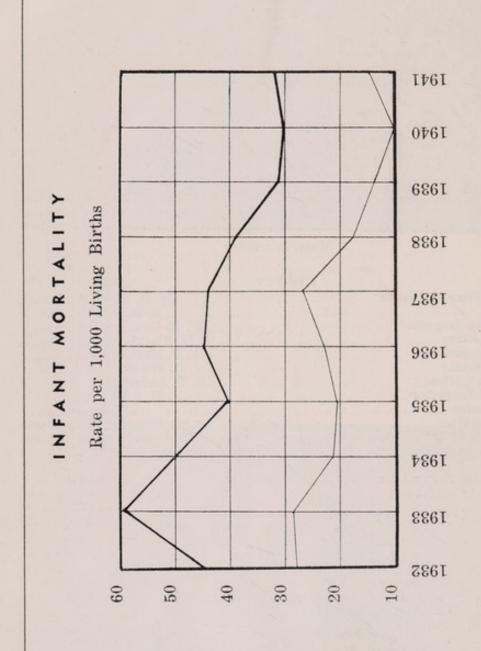
#### STAFF:

Medical Officer of Health	Dr. G. M. Little, D.P.H.
Secretary	S. Main, A.R. San. I.
Chief Health Inspector	W. R. Graham, A.R. San. I.
Health Inspector	J. H. Blackburn, A.R. San. I.
Health Inspector	A. P. Methuen, A.R. San. I.
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Dairy Supervisor	C. Ellinger, M.R. San. I.
Chemist and Milk Inspector	H. C. Graham, B.A.
Junior Inspector	G. L. Alexander
Statistician	Miss B. B. Murray
Public Health Nurse (Senior)	Miss M. Griffith, R.N.
Public Health Nurse (Senior) Public Health Nurse	Miss S. C. Christensen, R.N.
Clerk	Miss C. R. Rose
Stenographer	Miss K. D. Derbyshire

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of Medicine



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# Annual Report of Medical Officer of Health

Chairman and Members of the Local Board of Health, City of Edmonton.

#### Gentlemen:

Herewith are submitted reports of the various activities conducted by the Board during 1941, and also a brief summary report of work accomplished by certain co-operating health agencies during this period.

#### Birth Rate:

There were 1,805 live babies born to our citizens during the year. This completes a five-year period of steadily increasing birth rate. Economic conditions appear to remain a strong factor in determining this rate.

#### Death Rate:

The death rate from all causes shows a slight decrease. The most common cause, however, diseases of the heart, gave a sharp increase. Of 166 deaths from this cause, only 18 cases were under 50 years of age. Two contributing factors present themselves in this matter. First, the saving of lives in the younger age-groups brings a higher percentage of our population to later life when heart disease is more common. Secondly, the increasing physical and mental effort being undertaken by many of this older group on account of war demands brings disaster to certain damaged hearts unless their activity is properly limited by medical advice.

Deaths from cancer showed a notable decrease. The provincial cancer clinic was in operation during 1941. With the assistance of this facility available, it now remains for our citizens to report to their family physician when those earliest symptoms of cancer appear, in order that many more may be saved from this disease.

Deaths from pneumonia were reduced 41% below the previous year. Fatality from this cause varies considerably in relation to such occurrences as epidemics of influenza, but with the widening use of newer treatment for the disease the death rate has shown a sharp decrease.

#### Communicable Disease:

Epidemic infantile paralysis gave fifteen cases but no deaths during the year. Cerebro-spinal meningitis was also unusually prevalent, giving sixteen cases with one fatality. Pulmonary tuberculosis continues to be our most deadly communicable disease. With the co-operation of our provincial services, however, we believe that we have the means for gradually improving this condition by hospitalization of sources of infection. Incidence of venereal disease has been maintained below that of pre-war years. Two cases of undulant fever were reported in a mother and her son. Raw milk appeared to be the source of this infection.

The Isolation Hospital has continued to render valuable service to both our citizens and to the military authorities.

Immunization against certain communicable diseases has been carried on daily in the office of the Health Department.

#### Child and Maternal Welfare:

Despite cessation of clinics on account of fire in the clinic building, and again because of an outbreak of infantile paralysis, the Child Welfare Clinic admitted more new cases for examination than the previous year. The value of this preventive service is beyond calculation, and is reflected in our favorable infant death rate.

Skilled supervision in private medical practice, in the pre-natal clinic operated by the out-door department of the University Hospital, and the home visiting by trained nursing personnel has made child bearing very safe for the mothers of our city. The three maternal deaths reported might all have been prevented by adequate care and proper medical supervision during pregnancy.

#### Sanitation:

General sanitation of the city has been fairly satisfactory, and with few exceptions our citizens have given excellent co-operation in keeping their own premises and adjacent lanes clean. By so doing, many areas have almost eliminated the health hazard of flies. With extension of our dwelling areas, however, it is obvious that certain garbage dumps must receive increasing supervision to eliminate a danger to health.

The year has shown a definite improvement in the sanitary handling and keeping of foodstuffs. We believe that this has been beneficial to both food vendors and citizens.

The considerable quantity of diseased meats necessarily condemned by our inspectors constitute a matter of concern for farmers and government veterinarians. It is recorded that one of every ten hogs inspected suffered from tuberculosis.

Important quantities of fruits and fish were found unfit for food upon their arrival in the city. Much of this waste might be eliminated by proper care and inspection at the point of origin.

With the active co-operation of dairymen, officials of our department have maintained a high standard of safety in our milk supply. This has been an important factor in bringing about our low infant death rate.

Despite the considerable number of homes built during the past year insufficient living accommodation for our citizens remains a pressing problem. This condition has been increased by the many families who have come from rural areas to reside in the city since the beginning of the war.

We have continued to make our facilities available to Nurses' Training Schools and to other official teaching institutions of the city.

The Provincial Laboratory and other departments of the University have rendered to us much technical advice and assistance during the year.

The general health of our citizens has been good despite war conditions. I believe that the greatest single step in health improvement possible at the present time lies in the hands of our housewives. Especially at this time of increasing restrictions, a study of the available information regarding nutrition will repay themselves and their families manifold in both health and economy.

Respectfully submitted,

G. M. LITTLE, Medical Officer of Health.

#### EXPENDITURE

1.	Salaries \$	1941 39,970.17	1940 \$ 32,012.08
2.	Supplies	971.17	938.83
3.	Transportation	4,737.33	4,520.38
4/6	Sundries (Phones and Uniforms)	541.98	588.15
7.	Pensions (Bath House included under a/c's 1 and 2).	1,539.10	1,231.28
	8	41.759.75	\$ 39 290 72

#### REVENUE

Meat Inspection	1,044.95
Inspection Fees	\$ 882.25

\$1,927.20	1,927.20	1,838.70
	\$ 39,832.55	\$ 37,452.02

#### EXPENDITURE—CLASSIFIED—1941

Administration	Food Inspection	Communicable Disease	Laboratory Service	Dairy	Sanitation	Public Health Nursing	Vital	Bath House	TOTALS
Salaries \$7,979.04	\$4,495.54	\$2,498.11	\$2,582.38	\$2,427.71	\$ 9,344.04	\$3,045.33	\$1,375.89	\$ 222.13	\$33,970.17
Supplies 474.87	5.52	100.69	31.07	10.69	51.90	25.33	54,10	217.00	971.17
Transportation 488.00	520.00	617.00	521.00	780.00	1,375.33	436,00			4,737.33
Phones 105.00	15.00	61.20	15.00	18.00	78.00	18.00	************		310,20
Sundries 83.26	45.93	5.85	37.84		24.82	10.75			208.45
Uniforms	***************************************				23.33				23.33
Pensions 1,539.10									1,539.10
10,669.27	\$5,081.99	\$3,282.85	\$3,187.29	\$3,236.40	\$10,897.42	\$3,535.41	\$1,429.99	\$ 439.13	\$41,759.75
Per Cent 25.55	12.17	7.85	7.63	7.75	26.09	8.48	3.43	1.05	100%

#### SUMMARY OF STATISTICS

Area of City (including 1,000 acres of water), 26,778 and 2,147 acres in Parks.

	1941	1940	1939	1938	1937
Population.	92,404	91,722	90,419	88,887	87,034
Persons per acre of land	3.6	3.5	3.5	3.42	3.34
School enrolment	17,568	17,918	18,346	18,243	17,885
Natural increase of population	1,083	988	1,048	893	892
Cost per capita		.41	.43	.44	.43
Births, excluding Stillbirths	1,805	1,727	1,678	1,602	1,565
Rate per 1,000 population	19.9	19.2	18.6	18.	18.4
Stillbirths	28	27	29	30	42
Rate per 1,000 births	15.5	15.6	17.3	18.7	26.8
Deaths, excluding Stillbirths	722	739	630	703	673
Rate per 1,000 population	7.8	8.2	7.	7.97	7.9
Deaths under 1 year of age	58	53	53	63	68
Infant Mortality rate per 1,000 living births	32.13	30.6	31.6	39.3	43.45
Deaths from Childbirth	3	5	7	4	3
Maternal mortality per 1,000 births	1.66	2.8	4.17	2.5	1.9
Marriages	1,995	2,085	1,860	1,653	1,492
Rate per 1,000 population	21.6	22.7	20.7	18.57	17.55
Non-resident births in city	1,425	1,388	1,240	1,203	1,132
Non-resident deaths in city	483	438	425	472	480
Non-resident deaths under 1 year	52	49	52	40	52

## VITAL STATISTICS

#### Births

There were 1,805 City births in 1941, 958 males and 847 females; an increase of 78 over 1940, when there were 1,727 births, 901 males and 826 females.

Born in institutions 1,785 or 98.9%; elsewhere 31 of which 11 were attended by the Victorian Order of Nurses.

Attended by physician 1,797; attended by nurse 5; unattended 3; double births, 12.

#### Maternal Parentage:

		194	11	1940	
Canada	1,409	or	78. %	1,283 or 74.	3%
British Isles	176	or	9.7%	206 or 11.	9%
Europe.	125	or	7. %	137 or 8.	%
U.S.A.	47.50	or	5. %	93 or 5.	4%
Other Countries	5	or	3. %	7 or .	4%
Unknown				1 or	

#### Stillbirths

Male, 17; Female, 11; Total, 28. Born in institutions, 27; elsewhere, 1.

Causes of foetal deaths:

Dystocia, 9. Prematurity, 4. Toxaemia, 2. Other conditions, 13.

#### Deaths

Male, 416; females, 306; total, 722; a decrease of 17 from 1940 when there were 739 deaths.

there here too deather.	1941	1940
Canada	347 or 48. %	355 or 38. %
British Isles		203 or 27.5%
Europe	97 or 13.4%	99 or 14.4%
U.S.A.	49 or 6.8%	69 or 9.4%
Other Countries	12 or 1.7%	9 or 1.2%
Unknown	13 or 1.8%	4 or .5%

#### Infant Mortality

Deaths under 1 year of age-

Male, 34; Female, 24; total, 58.

Infant mortality rate per 1,000 living births-32.13.

In 1940 there were-

Male, 36; Female, 17; total, 53.

Infant mortality rate per 1,000 living births-30.6.

Classification from standpoint of preventability:

Class I—To a great extent non-controllable—premature (under 7 months), congenital debility, congenital malformation.

Class II—Capable of reduction by hygiene, sanitation, isolation and treatment—tuberculosis, syphillis, acute respiratory diseases, acute infectious diseases.

Class III-Capable of considerable reduction through care, proper feeding and pre-natal care-marasmas, acute gastro enteritis, injuries at birth, premature (over 7 months).

Class I-26 or 44.8%.

Class II- 6 or 10.4%.

Class III-26 or 44.8%.

ABRIDGED INTERNATIONAL CLASSIFICATION OF CAUSES OF DEATH, 1941

		Total	M	FU	Inder	-	60	3 4	10 01	10	15	20	250	30 34	35 4	40 45	5 50	0 55	5 60	65	70 74	75	80	198	96	95 100	0
1.	Typhoid and paratyphoid fevers	01	01	-		-	-	-	-	1	1	-												1.			1
6.	Tuberculosis of respiratory system.	00	14	110			11		11	11	-	11	-		01 -		1 2	00 0	-	11	-	11	11	.11	11	11	1.1
4.	All other forms of tuberculosis	60	01	1					-	11	4 ::		1 :	N		1 1	1 1		1	-	11	11	11	11	11	: :	1 1
6	Syphilis	00	t-	-			1 1		11	1.1	- :	11	11	-		1 1	101	-	11		11	11	11	11		11	1 1
10.	Influenza	6	140	4 1	11			11	01	11	11	11	11	11			-	-	11	11	1	1	- 1	11	11		13
14.	Other infections or parasitic diseases.	7	11	7		11	11	11	11	11	11	-	11	11		1 1	-				03	11	11	11	11	111	1 1
15.	Cancer and other malignant tumors	105	100	7 10	11	1 1	-	11	H	11	11	-	11		- 00	1	103	150	£		10	4	110			11	1 1
16.	Non-malignant tumors or tumors unspecified M	00	-	90	11		11	11	11	11	11	11	11	11	-	-	00	2	9 0	10	-	10	- 1	01	11	11	1 1
17.	Chronic rheumatism and gout	00	-	N 10		11	11	11	11	11	11	11	11		11	1 1		0.7	03	11	11	1	11	11	11	11	1 1
18.	Diabetes mellitus	63	10	03	11	1 1	1		11	11	11	11	1-	-	11	11	1 1			-	0.1		-	11	11	11	1 1
19.	Chronic and acute alcoholism	04	0.1	12					11	11	- 1	11	11	11	11			-	00		01		01	11	11	1.1	1 1
20.	Avitaminoses, other general diseases of the blood and chronic poisoning	11	00	1 1	-	1 1	1 1		1 1	1 1	1 1	1 1	1 -	1 1		1 1	1 1	1 1		. 00		-	-	1 1	1 1		1 1
21.	Meningitis (non-meningococcal) and diseases of spinal cord.		-			1 1			1 1				-	-		1 1	-	00			-	1 8	-	1		1	1
63		61	42	00 [	-	11		11	11	11	11	11	11	-		104	.03		1 9	-1-	100	-1-	14				1 1 1
65 60 60	Other diseases of the nervous system and sense organs	1 22	1	30			1 1		-	-	1 1	1 1	"		61	-			9	80	00	9	00	-			
24.	Diseases of the heart	166	86	9 :0			11	-	11	11	11	11	-				1 1 3		7 19	11	17	10	01.0	-			1 1 1
25.	Other diseases of the circulatory system	24	13	89	11	LE	1.1				11	-		11	-	1		2000	90 61	12	10	E	00 00	4-	01	11	1 1
26.	Bronchitis	00	1	= 1	11	11		11	11	1 1	11	!!	11		-	-	01				1	01	00	-		-	
27.	Pneumonia and bronchopneumonia	31	07	01 10	00 0		-		11	11	11	11	11		1					01	4	0.0	00		61		-
28,	Other diseases of the respiratory system	9	-	0 1	201			11	- :	11	11	11		-	1 :	11	11	1 1			1	61	11	0.0			1 1
66	Diarrhea and enteritis	11	9	N p	.00	-	11	11	11	11	11	11	- 1	-	1	11	1 1	-			-	11.1		11			
30.	Appendicitis	16	10	0	0	11			11	11			11							-			1				
			10	W.	1	10	-	-	1	1	*****	1				1	-		04			11	1.1				1 1

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31.				-	1 Year				9 14	4 19	24	29	9.4	33	44	439				69	14	13	*			66	
	Diseases of the liver and biliary passages	9 1	91	-		1			1			1 1				11	-	- 03	11		1	-	11	11	1 1	11	11
00	Other diseases of the digestive system	1 14	12											-	-	01	03	01	04		-	11	-		11	11	11
339	Nephritis		14	4 15		11	11					1 1-			-			-		00 03	44	-	00 :	04	- 1		
34.	Other diseases of the urinary and genital systems.	13	==		1	1 1						1			1	- 1	1	-	03	61	-	-	-	-	64	19	1 1
355.	Puerperal infection Burney	03		N -		11	11					1 1-	1 1-						11			11	11	11	11	11	
36.	Other diseases of pregnancy, childbirth and the puerperism	1	1 1	1		1 1							1-		1	11	11		11	11	11	11	11		11		
37.	Diseases of the skin, cellular tissue, bones and organs of movement.	19	00	1 1	1 1							1-	1	1				-	11	1	-	11	- :	11	1.1	11	11
œ.	Congenital malformations and debilities, premature birth and diseases peculiar to mirst year of life.	1 42	3.6	1 19	56	1 1	1					1	1	- 1		1.		1	- 11	11	11	11	11		1 1	11	
39.	Senility	1 14	10	0 10	10	11	11												1	1		c3	03 00	- 63	. 01		
40.	Suicide	100	-		1 1		11			1 17		-	1 1-			-		-	-	2	11	11	11	11	11		1 1
41.	Homicide	1 1	11	-	11										11			11	11			11	11	11	11		
42.5	Automobile accidents (all motor driven road vehicles)	1 10	G:	1 17								1		00	-	-	11	01	- 11	-	11	11	11	-	11		1 1
43.	Other violent or accidental deaths	1 32	21	1 15	11	-			-	010	4			-	00	00	-	-	11	-		-		- 03	11	11	0.0
44.	Causes of death ill-defined or unknown	1 1		-	111							-	11	11	11	1		11	11	11	11	11	11	11		11	
	Total Male Total Female Total Deaths	722	416	306	24 24	01 01 4	100	 		2 4	807	16	12 00 55	17 22 52	14	13 40	18 18 22	38 38 47	10 22 48	20 88 89	35 35	200 27 200 200 200 200 200 200 200 200 2	30 26 26	9 15 24	20 40	03 03	

PRINCIPAL CAUSES OF DEATH, 1941

						ALC: ATTRICE	DILLO								1041				1940	
		Yannat	February Монов	March	veM	ounf	ngh.	JenguA	September	October	December	X	Male	Female		Percent of Total Deaths	Mate per 100M Population	Total, 1940	Percent of Total Deaths	Rate per 100M Population
90- 95	Diseases of the heart	11	40	1		1	1000	100		12000			86	68	3 166	60	179.4	141	19.08	156.6
45— 55	Cancer	9100		-41-	0 00 01	0 to	- 9 +	- 01 01	0 10 10	-40	00 T	3	200			14.5	113.5	124	16.77	138.
60 00	Intracranial lesions of vascular origin	0110											42	30		10.	77.8	(R	(Re-classified)	(pai
163-196	External causes	1											90	16	6 58	F-00	57.3	51	6.9	56.6
107-109	Pneumonia	C1	01 =1				901						01		9 31	4.3	3,00	80	71.17	.69
130-131	Nephritis	1	01									1	1	17	7 31	4.0	33.5	19	2.57	21.1
158-161	Early infancy.			01								-	17	12	2 31	4.0	500.5	202	80.0	28.
13 - 22	Tuberculosis	-		104					01 ==		H 00	9	16		0 26	3.6	28.1	18	2.43	20,
157	Malformation. M	-	01									11			4 12	1.7	18.	10	.67	5.5
119-120						-	1		1	11	01	11	9		5 11	1.5	12.	00	.40	60
60	Influenza. F	1		-		-						11	10,		6 1	1.2	9.7	25	90.00	28.
121	Appendicitis M		1	1		-	11	01		1 12	11	11			6 1	1.2	9.7	6	1.21	10.
140-150	Puerperal state	-							1			11			00	Ψ.	03.00	10	.67	5.5
	Total Male M			20 31 17 15		25	188	14	23 22 22 25	2 25 6 18	18	34	326	5 232	2 559	4.17	603.2			
	Other causes F	10 4	00 10			00 00						10 4	0.5	7.4	163	85.22	177.6			
	Total F	27 2	29 2	1888	1 29	80 63 60 63	32	34	27 84 26 27	7 222	24	39	416	306						
"X" deno	Total per month "X" denotes Edmonton citizens dying outside the city.	2 99	50 4	46 58	8 54	62	64	288	53 61	1 57	61	52			0101					

#### MORTALITY FROM HEART DISEASE

Year	Total Deaths	Deaths From Heart Disease	Percentage of Total Deaths	Rate Per 100M Population
1941	722	166	23.0	179.4
1940	139	141	18.8	156.6
1939	630	149	18.8	156.6
1938	. 709	128	18.0	143.8
1937	673	115	17.8	135.8

There were 166 deaths (98 male and 68 female) from heart disease. This is an increase in the rate per 100M population of 22.8 over that in 1940.

#### MORTALITY FROM CANCER

Year	Total Deaths	Deaths From Cancer	Percentage of Total Deaths	Rate Per 100M Population
1941	722	105	14.8	113.5
1940	739	124	16.77	138.0
1939	630	95	13.1	105.5
1938	709	99	13.9	111.2
1937	673	82	12.2	96.5

There were 105 deaths (55 male and 50 female) from cancer, a decrease of 24.5 per 100M from the 1940 rate.

#### MORTALITY FROM INTRACRANIAL LESIONS OF VASCULAR ORIGIN

Year	Total Deaths	Deaths From This Cause	Percentage of Deaths	Rate Per 100M Population
1941	. 722	72	10.0	77.8
			DE	OF A COURTED

There were 72 deaths (42 male and 30 female) from Intracranial lesions of vascular origin.

#### MORTALITY FROM PNEUMONIA

Year	Total Deaths	Deaths From Pneumonia	Percentage of Total Deaths	Rate Per 100M Population
1941	. 722	31	4.3	33.5
1940	739	53	7.17	59.0
1939	630	26	4.1	28.9
1938	. 709	58	8.2	65.2
1937	673	35	5.2	21.2

There were 31 deaths (22 male and 9 female) from Pneumonia (all forms). This shows a decrease of 23.5 in the rate per 100M from 1940, and a decrease of 15.1 from the average rate per 100M for 1937 to 1940. Of the 31 deaths 7 were due to Lobar Pneumonia (5 male and 2 female), and 2 were under one year of age.

#### MORTALITY FROM TUBERCULOSIS

Year	Total Deaths	Deaths From Tuberculosis	Percentage of Total Deaths	Rate Per 100M Population
1941		-26	3.6	28.1
1940	739	18	2.4	20.0
1939	630	8	1.3	8.8
1938	709	26	3.7	29.2
1937	673	25	3.7	29.4

There were 26 deaths (16 made and 10 female) from Tuberculosis (all forms), showing an increase of 8.1 in the rate per 100M population. There were 50 new cases of Tuberculosis reported, a decrease of 3 from 1940.

#### MORTALITY FROM EXTERNAL CAUSES

Year Total Deaths	Deaths from External Causes	Male	Female	Suicide	Homicide	Accidental	Percentage Of Deaths	Rate Per 100M Population
1941722	53	37	16	10	1	42	6.9	57.3 56.7 46.7 46.0
1940739	51	37	14	11	4	36	6.9	56.7
1939630	42	29	13	11	1	30	6.7	46.7
1938709	41	31	10	12	6	23	6.9 6.7 5.8	46.0
1937 673	52	39	13	14	1	37	7.7	61.0

Of the 42 accidental deaths in 1941 (9 male and 1 female) were due to automobile accidents.

#### ISOLATION HOSPITAL

Seven hundred and eighty-eight patients were admitted and 71 carried over from 1940 making a total of 859. There were 765 discharged; 24 died and 70 remained at the end of the year.

The diseases hospitalized include	ied:		
Scarlet Fever	212	Erysipelas	36
Diphtheria	10	Measles	72
	40	Rubella	104
Tuberculosis	24	Mumps	71
The deaths included:			
Tuberculosis	5	Diphtheria	2
Scarlet Fever	1	Pneumonia	3
Meningitis	5	Other conditions	5
Poliomyelitis	3		

#### SCHOOL MEDICAL SERVICES

Although schools were closed for three weeks during September of 1941, on account of epidemic infantile paralysis, the Public School and R.C. Separate School Board Medical Services accomplished an extensive amount of work in examination and immunization of school children. The extent of this work is indicated by the following summaries:

	Public School Board	R.C. Separate School Board
Complete physical examinations	4207	533
Number reported with defects	3778	117
Number reported without defects	9093	416
Parents present at examination	3210	260
Home visits by nurses	1247	86
Health talks to classes		
Examinations special dental survey	29442	

IMA	AUNIZ	ATION	S				
1041	Smailpoz	Diphtheria	Scarlet Fever	Whooping	Schick Test	Dick	Typhoid
Local Board of Health (Cases) Public School Board (Cases)	263	469 1184	53	46	69	28	30
R.C. Sep. School Board (Cases)	313	327					
	576	1980	53	46	69	28	30
Doses 1940	576	5110	265	138	69	28	90
Local Board of Health Public School Board	268 2025	806 1300	233	142	11	2	5
R.C. Sep. School Board	2517	212	233	142	11		5
	2011	2010	200				

D-Deaths.

### COMMUNICABLE DISEASE REPORT, 1941-1937

			PO	PUI	LATION	, 194	1-92.50	0		
	194	1	194	0	193	19	198	18	193	7
	C	D	C	D	C	D	C	D	C	D
Anterio Poliomyelitis	15			2	1		7	2	7	****
Cerebrospinal Meningitis	16	1	6	1	1	1	4		1	1
Diphtheria	4		16	5	3		18	4	3	1
Diphtheria Carriers	1		8				9		1	
Encephalitis Lethargica				1		1		2	1	2
Scarlet Fever	198		151		311		484	2	684	4
Chickenpox	1039		1634		608	****	1083	****	1132	
Measles	1631		2995	1	20		465		2562	3
Mumps	499		199		118	(00)	5725		350	
Rubella	3266		20		11		28		330	
Whooping Cough	166		483	1	1351	3	49	1	257	2
Actinomyeosis					*******	****		****	1	****
Dysentery			1		9	****				-
Erysipelas	31		36	1	27		28	****	49	4
Pneumonia (Lobar)	3	7	6	19	4	10	17	28	6	14
Puerperal Septicaemia		1						****	1	1
Septic Sore Throat	23	1	54		3		7		4	
Trachoma			*******		******		*******	****	1	
Tuberculosis (Pulmonary)	47	23	48	10	31	4	34	17	60	20
Tuebrculosis (other forms)	3	3	5	8	3	4	3	9	1	5
Typhoid Fever	3	1	2		1	****	5	1		****
Paratyphoid Fever	4	1	2				4		2	
Undulant Fever	2		2				2		8	
Venereal Diseases:										
Gonorrhoea	218	-	238		242		282	***	287	****
Syphilis	79	8	39	1	74	4	61	4	66	1
Totals	7248	46	5945	50	2818	27	8315	70	5814	58
Morbidity rate per 1,000 population	78.3		66.8		31.3		93.4		68.4	
C—Cases.										

During 1941 reportable disease was responsible for 46 or 6.37% of the 722 city deaths.

COMMUNICABLE DISEASE REPORT BY AGE AND SEX FOR 1941

Antaric Polimonitie	Total	Side	City	M	F	1 Year		4	0			14	24	44	49	69	Over
Cerebrospinal Meningitis.	40	255	16	100	10	9		1	63 H		1	0101	× =	00 44 -			
Diphtheria Dirhtheria Garrioss	10	90		64 -	4 04				1			1	04	1			
Scarlet Fever	2000	30	198	107	91	1	00	00	13	9	16	100	67	800	00		
Chiekenpox	1040	-:	1039	502	557	00 0	34	67	100	200	57	636	49	16		-	***************************************
Mumps	501	40	1631	189	255	64	4 10	110	130	142	101	801	203	100	N	-	-
Rubella	000000	17	3266	1369	1897	45	42	75	96	108	100	1811	746	0000	10		
Whooping Cough	168	0.1	991	83	839	15	15	26	19	17	18	222	and and and	1	-		-
Erysipelas	44	130	31	13	12	01			*********	***************************************	***************************************	-	03	12	10	Ŧ	10
Pneumonia (Lobar)	9	90	00 1	90 1	201.0			-			************		04				
Drawnaval Santiasamia				9	10	NI.	-				7			-		-	N
Deaths			1		-									1			
Septic Sore Throat	27	*	500	6	14		1					4	00	6	1		
Deaths.	***************************************		1	1			**********					***************************************	***************************************		1		
Tuberculosis (Pulmonary).	72	25	47	26	21	-		***************************************	1	1	-	64	6	26	00		
Deaths	Annual Annual Property	***************************************	23	14	6		-		-		***************************************	-	00	6	00	04	1
Tuberculosis (other forms)	6	9	00	-	00		-			**********		*********	03	1	*********	*********	***************************************
Deaths	*	***************************************	00	0.1	-					***************************************	***********	1	04			-	********
Turk of Person	101	- 0		.0	*					********					***********		-
Lypnon Fever		0	0 -	4-	•	-							0 -	-	-	-	
Paratyphoid Fever	9	01	4	01	61								-	2		-	
Deaths		***************************************	-	-	-											-	
Undulant Fever	0.1	***************************************	04	-	1		de la constante de la constant	*********		***************************************			-		1	**********	
Venereal Disease:	0.00								,				-				
Gonorrhoea	218		218	108	000					-		04 0	122	986	- 0		0
Deaths			00	200			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•		*	4	20	67	9	1	2
Totals	7465	217	7248	3349	3899	155	185	294	325	364	878	3557	1377	552	47	1-	12
Deaths			46	31	15	01	-		*************	***************************************	-	1	9	12	15	4	4

COMMUNICABLE DISEASES BY SEASON AND SEX

	Total	Out- side	City	M	H	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oet.	Nov.	Dec.
Anterio Polimyelitis. Cerebrospinal Meningitis.	41	61 61	15	10 0	10	00	00	1	1	1	1	- 04	12	63		1	64
Diphtheria	10	9	4 4	01	- 63	1		-			1						01
Diphtheria Carriers	00	61	-	-	-		-					1			0.0	0.1	00
Scarlet Fever	1040	30	1020	107	101	100	17	27	83	104	217	129	36	130	36	66	96
Measles	1675	44	1631	789	845	699	513	252	81	47	000	13	==	00	4	01	00
Mumps	501	03	499	262	287	52	70	22	38	23	15	10	10	14	49	99	105
Rubella	3283	17	3266	1369	1897	193	561	1058	764	415	181	31	00.0	00 0	0.0	16	900
Whooping Cough.	168	. 03	166	90	83	500	120	20	57	21	122	D 4	x	00	00	0-	11
Erysipelas	44	13	31	13	12	0	4	24	-	10	0			4	00	4	*
Fneumonia (Lobar)	9		100	10 1			*						-		- 1	-	
Deaths	***************************************	-	-	0	N		-	0	-		-						
Fuerperal Septicaemia				**********			**********			***************************************				-			
Contin Some Throat	97		93		177	NG.	00	01	4	1	-			-		4	01
Deaths			-	-		-			***************************************		-		*********	***************************************	***************************************	***************************************	
Tuberculosis (Pulmonary)	67	255	47	26	21	00	00	10	00	00	00	-	-	7	4	00 0	4.
Deaths	***************************************	***************************************	23	14	6	-	Sections	04	-	01	01	1	04	, 00	00	14	
Tuberculosis (other forms)	6	9	00 1	-	00 1		1	-			-		*	-			
Deaths		*	00	0.1	-	-	-	-	-	-			7	-			
Tularemia	101	10		0		*************					-	-	-	***************************************	1		
Lypnost Fever	75	•	-	1-								-			1	***************************************	
Paratyphoid Fever	9	0.1	4	01	61		-	***************************************	, harman		1	-	00 .			-	
Deaths	***************************************		1	-						***************************************			-		**********		
Undulant Fever	63		01	-	1	200000		*********					***************************************	1		1	
Venereal Disease:	916		918	108	110	99	28	16	30	14	14	14	24	13	222	10	11
Symplific	79		139	200	29	110	10	00	-	10	9	9	9	00	11	6	00
Deaths	***************************************	***************************************	80	-1	1		10	***************************************	***************************************	*********	**********	*********	53			***********	1
Totals	7465	217	2748	3349	3899	1121	1261	1502	1049	099	809	228	123	60	170	238	305
Deaths	***************************************	***************************************	46	31	15	-	9	9	61	00	+	1	9	4	10	00	10
A Company																	

#### "KINSMEN'S" TUBERCULOSIS NURSING SERVICE

#### Visits:

	Total visits made by nurse 2,	510
	Visits to T.B. cases	783
	Visits to suspect cases	228
	Visits to contact cases 1,	
	Co-operative visits	111
	Not seen, moved, etc.	195
Cl	linic Report—New Cases:	
	Active Cases	63
	Suspects	81
	Contact	319
	Non-contact	521
	Total X-Rays 1,	218

Ex-sanatorium patients are watched carefully from the time they leave hospital, until they are again established in an active normal mode of living. This may take months or years, depending on the severity of the case. Those patients who are continuing treatment at home require time and tact. One of the most difficult phases of the cure is the readjustment to one's former life. There is a wide field of teaching and supervision, which is found most interesting. Then there are those who while waiting for a sanatorium bed are taught the preliminaries of "cure taking."

# PUBLIC HEALTH NURSING

#### CHILD WELFARE

Clinics are held twice weekly with physicians in attendance. A weighing clinic is held once a week under the direction of the Provincial Department of Health nurse in charge.

1941	1940	1939	1938	1937
Number of clinics held	101	100	100	95
Babies in attendance 3,783	4,743	3,672	3,860	3,567
Pre-school attendance 972	1,135	1,010	1,103	1,167
Total	5,878	4,682	4,963	4,734
Average	58	47	49.6	49.8
New cases addmitted (babies) 899	866	749	860	817
New cases admitted (pre-school) 202	156	152	148	189
Babies referred to family doctor 28	38	32	22	65
Pre-school fererred to family doctor 20	33	32	49	75

Dr. F. J. Follinsbee, Dr. J. Calder and Dr. Mildred Newell were in attendance for examination of babies and pre-school children, and to advise parents regarding general care and diet.

Nurses from the Royal Alexandra, the University, the General and the Misericordia Hospitals received Clinic and Field training. Medical students were also in attendance at Clinics.

One hundred and forty-one out-of-town cases visited the Clinic during the year and 65 letters from rural districts for advice were received and replies sent.

Two thousand and nineteen home visits were made by the nursing staff.

#### WEIGHING CLINICS

	1941	1940	1939	1938	1937
Number of weighing clinics held	42	49	48	50	46
Total attendance	623	796	779	675	501
Average	.14.83	16	16	13.5	10.9

Forty-two weighing clinics were held. No new cases are admitted at these clinics as no doctors are in attendance. Parents are given advice on matters of routine care by the nurse on duty.

#### Attendance According to Age at Both Child Welfare and Weighing Clinics

1941	1940	1939	1938	1937
Babies under 1 year 2,945	3,815	4,327	3,426	3,047
Pre-school 1,810	2,063	1,134	2,212	2,188
Totals4,755	5,878	5,461	5,638	5,235

#### PRE-NATAL VISITS

	1941	1940	1939	1938	1937
City Nurse	346	396	429	460	404
V.O.N.	314	242	259	257	250

One hundred and forty-four pre-natal cases were added to our roll. The slight decrease is due no doubt to many families becoming self-supporting and so not being eligible for Outdoor Clinic service.

The pre-natal classes organized in 1940 are now being conducted solely by the V.O.N. From these classes much help is derived.

Our best thanks are again gratefully given to the Junior Hospital League for providing layettes and other useful services.

Mrs. Marshall, the Red Cross representative has come to our aid many times in helping soldiers' families to maintain themselves until delayed separation allowances were received. We thank her for her willing co-operation.

#### POST-NATAL VISITS

	1941	1940	1939	1938	1937
City Nurse	173	193	212	270	239
V.O.N.	586	588	836	603	352

Reporting to family doctor within six weeks after delivery for post natal examination is stressed at these visits.

#### DISTRICT VISITS

	1941	1940	1939	1938	1937
Visits to Homes	777	882	1,191	1,170	2,775
Special Investigations	64	92	135	154	113

Eight hundred and sixty babies were seen by your senior nurse during district visits.

4	:	
1941	•	
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BY SEASON

BY AGE

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2nd Week	1	-	-	Н	1	1		1	1	1	-	H	-	1	1	-	-	-	00
1st Week	1	1	-	1	-	1	41918	1	-	04	03	4	04	-	1	****	1	1	14
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Vanuaty	-	*****	-	1	****	-	1	1	1	1	-	-	*****	2000	-	-	-	1	10
TOTAL	-	-	pri	00	01	14	00	01	4	00	0.3	19	10	-	***	-	1	1	00
	-		1	-						-						-		Service.	

160c-Rupture of Tentorium cerebelli, cross birth, breech.

161d-Sepsis Neonatorum.

TOTALS

160a-Intracranial haemorrhage...

160b-Injury at birth.

161a-Atelectasis...

158 -Congenital debility...

157g-Congenital malformation, digestive system.

157a-Congenital Hydrocophalus.

119a-Enteritis or Diarrhoea.

64 —Status Thymicolymphaticus
86 —Convulsions
94a—Infarction, cardiac coronary occlusion
107 —Broncho pneumonia
108 —Lobar pneumonia

# HEALTH INSPECTIONS

INSPECTIONS:		
	1941	1940
Dwellings		6,568
Hotels, lodging houses, apartment blocks		538
Schools, blocks, public buildings		100
Stores, business establishments		798
Food handling establishments		3,225
Garbage cans, etc.		1,224
Streets, lanes, yards, dumps, etc.		2,019
Miscellaneous	2,416	1,989
	18,321	16,456
Re-inspections	4,101	3,107
Visits assisting Quarantine Officer	1,458	1,451
NOTICES:		
Written	1,539	1,888
Verbal	6,788	5,947
Garbage	1,325	673
	9,652	8,508
COMPLAINTS:		
Received from the public	851	768
Justified		633
Received from other Departments	26	20
Referred to other Departments	122	119
The complaints were made up as follows:		
Garbage, streets, lanes, etc.		202
Vermin		210
Housing, plumbing and drainage		157
Food and drink		62
Miscellaneous	197	137
	851	768
LICENSES:		
License applications investigated	1,610	1,529
PLUMBING:		
Sewer and water notices issued	31	3
Sewer and water installed, buildings removed, etc.		19
Extension of time granted		14
Plumbing permits issued	617	507
Plumbing permits issued for old buildings		51
Alterations to existing plumbing		230
Privies eliminated through installation of plumbing	52	

DISINFESTING STATION:		
Baths Verminous Scabies	37	15,255 71 525
Men washed clothing Units washed	7,705	12,253 36,868
Articles sterilized for the Army	14,700	4,004
SCAVENGING CLEAN UP WORK:		
Refuse removed during Clean-up Week (cu. yds.)	9,724	9,904
ANIMALS, BARNS, STYES, INSPECTIONS:		
Cows	4.00	556
Mink, fox ranches, etc.		189 57
FOOD:		
Samples submitted to Provincial Laboratory		37 2,538
WATER:		
Water samples taken		49
Negative *Positive		32 17
*Suspicious		1
Wells chlorinated	18	7
*Wells condemned or further samples taken after chlo		

#### HOUSING:

During the year, 6,776 dwellings and 459 hotels, lodging houses, apartment blocks, etc., were inspected for overcrowding, vermin or other sanitary conditions and notices were issued where necessary.

#### POISON GAS FUMIGATION:

During the year 261 dwellings and blocks were fumigated with hydrocyanic acid gas for the elimination of vermin. These fumigations took place under our supervision and all premises were inspected both before and after fumigation. The inhabitants were warned and all foodstuffs removed.

#### RELIEF:

Applications for relief were all referred to the Provincial and City Relief Departments.

#### SOCIAL HYGIENE:

Four hundred and fifty-three visits were made in connection with this branch of the work, and 160 cases were investigated.

#### ENFORCEMENT OF REGULATIONS:

Prosecutions		3	1
--------------	--	---	---

Two convictions were secured, one defendant being fined \$25 and costs and the other \$5 and costs . The third case was withdrawn.

# FOOD INSPECTION

There has been no change during 1941 in the number of abattoirs under City Inspection. There are two on full time operation and one still under construction.

The percentage of hogs affected with Tuberculosis after being stationary for two years shows a satisfactory decline for 1941.

#### MEATS INSPECTED AND CONDEMNED

No. of carcasses inspected	B-4	MINED		
No. of carcasses inspected         2,379         2,440         2,640           Carcasses condemned         35         44         28           Portions condemned         231         277         312           Weight (lbs.) of carcasses and portions condemned         19,655         22,000         17,265           Veal:         No. of carcasses inspected         1,938         2,818         3,271           Carcasses condemned         2         4         17           Portions condemned         35         71         73           Weight (lbs.) of carcasses and portions condemned         490         1,775         2,815           Mutton:         No. of carcasses inspected         677         498         874           Carcasses condemned         4         1         6           Portions condemned         20         22         31           Weight (lbs.) of carcasses and portions condemned         217         90         425           Pork:         No. of carcasses inspected         4,839         4,055         3,050           Carcasses condemned         27         19         225           Portions condemned         866         684         587           Weight (l	Beef:	1941	1940	1020
Carcasses condemned         35         44         28           Portions condemned         231         277         312           Weight (lbs.) of carcasses and portions condemned         19,655         22,000         17,265           Veal:         No. of carcasses inspected         1,938         2,818         3,271           Carcasses condemned         2         4         17           Portions condemned         35         71         73           Weight (lbs.) of carcasses and portions condemned         490         1,775         2,815           Mutton:         No. of carcasses inspected         677         498         874           Carcasses condemned         20         22         31           Weight (lbs.) of carcasses and portions condemned         217         90         425           Pork:         No. of carcasses inspected         4,839         4,055         3,050           Carcasses condemned         27         19         25           Portions condemned         866         684         587           Weight (lbs.) of carcasses and portions condemned         16,520         11,970         12,875           Totals:           No. of carcasses inspected	No of carcassas inspected			
Portions condemned         231         277         312           Weight (lbs.) of carcasses and portions condemned         19,655         22,000         17,265           Veal:         No. of carcasses inspected         1,938         2,818         3,271           Carcasses condemned         2         4         17           Portions condemned         35         71         73           Weight (lbs.) of carcasses and portions condemned         490         1,775         2,815           Mutton:         No. of carcasses inspected         677         498         874           Carcasses condemned         4         1         6           Portions condemned         20         22         31           Weight (lbs.) of carcasses and portions condemned         217         90         425           Port.         No. of carcasses inspected         4,839         4,055         3,050           Carcasses condemned         27         19         25           Portions condemned         866         684         587           Weight (lbs.) of carcasses and portions condemned         16,520         11,970         12,875           Totals:           No. of carcasses inspected         9,833         9				
Veal:         Veal:         No. of carcasses inspected         1,938         2,818         3,271           Carcasses condemned         2         4         17           Portions condemned         35         71         73           Weight (lbs.) of carcasses and portions condemned         490         1,775         2,815           Mutton:         No. of carcasses inspected         677         498         874           Carcasses condemned         4         1         6           Portions condemned         20         22         31           Weight (lbs.) of carcasses and portions condemned         217         90         425           Pork:         No. of carcasses inspected         4,839         4,055         3,050           Carcasses condemned         27         19         25           Portions condemned         866         684         587           Weight (lbs.) of carcasses and portions condemned         16,520         11,970         12,875           Totals:           No. of carcasses inspected         9,833         9,811         8,835           Carcasses condemned         68         68         76           Portions condemned         1,152         1,054         1,0		111	300	
Veol:       No. of carcasses inspected       1,938       2,818       3,271         Carcasses condemned       2       4       17         Portions condemned       35       71       73         Weight (lbs.) of carcasses and portions condemned       490       1,775       2,815         Mutton:         No. of carcasses inspected       677       498       874         Carcasses condemned       4       1       6         Portions condemned       20       22       31         Weight (lbs.) of carcasses and portions condemned       217       90       425         Pork:         No. of carcasses inspected       4,839       4,055       3,050         Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       11,152       1,054       1,003         Weight (lbs.) of carcasses and portions c				
No. of carcasses inspected       1,938       2,818       3,271         Carcasses condemned       2       4       17         Portions condemned       35       71       73         Weight (lbs.) of carcasses and portions condemned       490       1,775       2,815         Mutton:         No. of carcasses inspected       677       498       874         Carcasses condemned       4       1       6         Portions condemned       20       22       31         Weight (lbs.) of carcasses and portions condemned       217       90       425         Pork:       No. of carcasses inspected       4,839       4,055       3,050         Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835<	reight (los.) of carcasses and portions condemned	10,000	22,000	11,200
Carcasses condemned         2         4         17           Portions condemned         35         71         73           Weight (lbs.) of carcasses and portions condemned         490         1,775         2,815           Mutton:           No. of carcasses inspected         677         498         874           Carcasses condemned         4         1         6           Portions condemned         20         22         31           Weight (lbs.) of carcasses and portions condemned         217         90         425           Ports:         No. of carcasses inspected         4,839         4,055         3,050           Carcasses condemned         27         19         25           Portions condemned         866         684         587           Weight (lbs.) of carcasses and portions condemned         16,520         11,970         12,875           Totals:           No. of carcasses inspected         9,833         9,811         8,835           Carcasses condemned         68         68         76           Portions condemned         1,152         1,054         1,003           Weight (lbs.) of carcasses and portions condemned         36,882         35,835	Veal:			
Carcasses condemned         2         4         17           Portions condemned         35         71         73           Weight (lbs.) of carcasses and portions condemned         490         1,775         2,815           Mutton:           No. of carcasses inspected         677         498         874           Carcasses condemned         4         1         6           Portions condemned         20         22         31           Weight (lbs.) of carcasses and portions condemned         217         90         425           Port:         No. of carcasses inspected         4,839         4,055         3,050           Carcasses condemned         27         19         25           Portions condemned         866         684         587           Weight (lbs.) of carcasses and portions condemned         16,520         11,970         12,875           Totals:           No. of carcasses inspected         9,833         9,811         8,835           Carcasses condemned         68         68         76           Portions condemned         1,152         1,054         1,003           Weight (lbs.) of carcasses and portions condemned         36,882         35,835	No. of carcasses inspected	1,938	2,818	3,271
Weight (lbs.) of carcasses and portions condemned       490       1,775       2,815         Mutton:       No. of carcasses inspected       677       498       874         Carcasses condemned       4       1       6         Portions condemned       20       22       31         Weight (lbs.) of carcasses and portions condemned       217       90       425         Pork:       No. of carcasses inspected       4,839       4,055       3,050         Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:       No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:       Infected       4       18       20         Percent       .168       .737       .757         Pork:      <	Carcasses condemned	2		100000000000000000000000000000000000000
Mutton:         No. of carcasses inspected       677       498       874         Carcasses condemned       4       1       6         Portions condemned       20       22       31         Weight (lbs.) of carcasses and portions condemned       217       90       425         Pork:         No. of carcasses inspected       4,839       4,055       3,050         Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:         Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infecte	Portions condemned	35	71	73
No. of carcasses inspected       677       498       874         Carcasses condemned       4       1       6         Portions condemned       20       22       31         Weight (lbs.) of carcasses and portions condemned       217       90       425         Pork:         No. of carcasses inspected       4,839       4,055       3,050         Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:         Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453 <td< td=""><td>Weight (lbs.) of carcasses and portions condemned</td><td> 490</td><td>1,775</td><td>2,815</td></td<>	Weight (lbs.) of carcasses and portions condemned	490	1,775	2,815
Carcasses condemned       4       1       6         Portions condemned       20       22       31         Weight (lbs.) of carcasses and portions condemned       217       90       425         Pork:         No. of carcasses inspected       4,839       4,055       3,050         Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:         Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	Mutton:			
Carcasses condemned       4       1       6         Portions condemned       20       22       31         Weight (lbs.) of carcasses and portions condemned       217       90       425         Pork:         No. of carcasses inspected       4,839       4,055       3,050         Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:         Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	No of carcasses inspected	677	400	074
Portions condemned         20         22         31           Weight (lbs.) of carcasses and portions condemned         217         90         425           Pork:         No. of carcasses inspected         4,839         4,055         3,050           Carcasses condemned         27         19         25           Portions condemned         866         684         587           Weight (lbs.) of carcasses and portions condemned         16,520         11,970         12,875           Totals:           No. of carcasses inspected         9,833         9,811         8,835           Carcasses condemned         68         68         76           Portions condemned         1,152         1,054         1,003           Weight (lbs.) of carcasses and portions condemned         36,882         35,835         33,380    CARCASES FOUND TO BE INFECTED WITH T.B.  Beef:  Infected  A 18 20 Percent  .168 .737         .757    Pork:  Infected  507 453 359				
Weight (lbs.) of carcasses and portions condemned         217         90         425           Pork:           No. of carcasses inspected         4,839         4,055         3,050           Carcasses condemned         27         19         25           Portions condemned         866         684         587           Weight (lbs.) of carcasses and portions condemned         16,520         11,970         12,875           Totals:           No. of carcasses inspected         9,833         9,811         8,835           Carcasses condemned         68         68         76           Portions condemned         1,152         1,054         1,003           Weight (lbs.) of carcasses and portions condemned         36,882         35,835         33,380    CARCASES FOUND TO BE INFECTED WITH T.B.  Beef:  Infected  4 18 20 Percent  168 .737         .757           Pork:         168 .737         .757				
Pork:         No. of carcasses inspected       4,839       4,055       3,050         Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:         Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359				
No. of carcasses inspected       4,839       4,055       3,050         Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:         Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	weight (105.) of carcasses and portions condemned	211	20	420
Carcasses condemned       27       19       25         Portions condemned       866       684       587         Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:         Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	Pork:			
Portions condemned         866         684         587           Weight (lbs.) of carcasses and portions condemned         16,520         11,970         12,875           Totals:           No. of carcasses inspected         9,833         9,811         8,835           Carcasses condemned         68         68         76           Portions condemned         1,152         1,054         1,003           Weight (lbs.) of carcasses and portions condemned         36,882         35,835         33,380           CARCASES FOUND TO BE INFECTED WITH T.B.           Beef:         Infected         4         18         20           Percent         .168         .737         .757           Pork:           Infected         507         453         359	No. of carcasses inspected	4,839	4,055	3,050
Weight (lbs.) of carcasses and portions condemned       16,520       11,970       12,875         Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:         Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	Carcasses condemned	27	19	25
Totals:         No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:         Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	Portions condemned	866	684	587
No. of carcasses inspected       9,833       9,811       8,835         Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	Weight (lbs.) of carcasses and portions condemned	16,520	11,970	12,875
Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:       1       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	Totals:			
Carcasses condemned       68       68       76         Portions condemned       1,152       1,054       1,003         Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:       1       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	No. of carcasses inspected	9,833	9,811	8,835
Weight (lbs.) of carcasses and portions condemned       36,882       35,835       33,380         CARCASES FOUND TO BE INFECTED WITH T.B.         Beef:       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359			68	76
CARCASES FOUND TO BE INFECTED WITH T.B.  Beef: Infected	Portions condemned	1,152	1,054	1,003
Beef:       Infected       4       18       20         Percent       .168       .737       .757         Pork:         Infected       507       453       359	Weight (lbs.) of carcasses and portions condemned	36,882	35,835	33,380
Infected     4     18     20       Percent     .168     .737     .757       Pork:       Infected     507     453     359	CARCASES FOUND TO BE INFECTED	WITH T.B.		
Percent .168 .737 .757  Pork: Infected .507 453 359	Beef:			
Percent       .168       .737       .757         Pork:       Infected       507       453       359	Infected	4	18	20
Infected 507 453 359		.168	.737	.757
	Pork:			
	Infected	507	453	359
		10,47	11.17	11.77

### CHIEF CAUSES OF CONDEMNATION, 1941

Beef:	D.		Walaba	
11	rcases Po			
Abscess	1	95	1,745	lbs.
Abscess Mulitple	4		1,750	
Actinomycosis		89	1,650	
Adhesions		28	390	
Haemolytic Streptococci	3	1	1,340	
Parasites		13	100	
Pneumonia	17		7.175	
Tuberculosis	3	1	1.340	
Miscellaneous (improper bleeding, overheating,				
Metritis, etc.)	7	4	4,140	
	35	231	19,655	
Veal:				
Abscess		17	180	
Actinomycosis		6	85	
Immature	2		100	
Parasites		12	125	
	2	35	490	
	-	0.0	-	
Mutton:				
Abscess mulitple	2		95	
Parasites	~	20	32	
Pneumonia	2	20	90	
T neumonia	-		30	
	4	20	217	
	*	20	211	
Pork:				
Abscess multiple	6		1,035	
Adhesions	0	58	880	
D ! !	1	29	595	
	1	55		
Contamination			830	
Parasites	0	135	270	
Peritonitis	3	FOR	550	
Tuberculosis	15	587	11,740	
Miscellaneous	2	2	620	
	0.5	000	10 500	
	27	866	16,520	
Totals:				
		004		
Beef	35	231	19,655	
Veal	2	35	490	
Mutton	4	20	217	
Pork	27	866	16,520	
DISEASED ANIMALS				
DISEASED ANIMALS				
	1941	. 19	40 1	939
Beef	21	17	262	325
Veal		11	75	79
Mutton		24	23	30
Pork			559	547
			-00	041
FOODSTUFFS CONDEMNI	D			
		-Pou	nds-	
	1941			939
Mont				3,380
Meat	36,88			
Poultry			163	184
Fish			9	115
Sundries		6	3	702

Foodstuffs Condemned by Health Inspect	ors:				
Canned goods			45	160	257
Meat			115	38	46
Fruit and vegetables			3,540	833	2,767
Cereal				472	566
Fish			500		
Ice Cream			160		
Sundries			400	60	38
Damaged by fire			182	820	
	Total	(lbs.)	43,563	38,055	39,661
Insuection visits				4,664	5,415
Complaints:					
Received from the public			36	35	25
Justified			22	25	13

# DAIRY INSPECTION

The average percentage of compliance with all items of sanitation listed, in the requirements of the milk regulations of the Provincial Board of Health, the Local Board of Health and the requirements of the milk ordinance of the United States Public Health Service has reached over 90 per cent. Although there is still much improvement to look forward to, the present status in milk sanitation is graitfying.

Certificates issued Producer-distributors, milk	
Certificates issued Producer-shippers, milk	
Certificates issued Cream Producer-shippers	78
Certificates issued Pasteurization plants	5
Inspections of Dairies	1,090
Inspections of Pasteurization plants	131
New Dairy Barns erected	8
Dairy Barns remodelled	1
New Milk Houses erected	7
New Pasteurization plant erected	1
Certificates suspended temporarily	90
Certificates suspended indefinitely	3
Certificates issued to retail distributors	407
Permits issued to cowkeepers in the city	546
Reduction tests, milk	0,632
Reduction tests, cream	1,589
Sediment tests	1,265
	1,479
Phosphatase tests	333
Bacterial plate counts, milk	1,109
Bacterial plate counts, ice cream	115
Chlorine tests at farms	79
Cattle tested for Bang's Disease	141
Well water samples taken at farms	3
Milk cans condemned	40
Written notices	558
Educational circulars to cream producers	693
Prosecutions	0

During the summer an educational circular stressing the importance of the care in the production of cream during the summer months was written and mailed to all producers of inspected cream.

On account of the war, the intensive dairy-farm building programme that has been in progress for several years is now almost at a standstill. Early in the year a type of construction for walls known as "rammed earth" was introduced to the dairymen. The method is centuries old but has been almost forgotten with the introduction of modern machinery and materials. It is, nevertheless, a durable, hygienic and inexpensive form of construction.

### LABORATORY REPORT

During the year there were 1,286 retail samples of milk taken for examination. Of these 763 were submitted to bacterial examination. Those with official plate count of 15 thousand or under we have classified as special. This class makes up over 50 per cent of our total samples counted during the year. The tabulation gives the results classified according to count. The 12 samples in which the examination was spoiled by spreaders are not included in calculating the percent in each group.

Special	15,000/ 40,000	40,000/ 100,000	100.000/ 400,000	Over	Spr.	Total
January 39	15	9	5	1		69
February 35	14	12	7	1	1	70
March 41	10	4			1	56
April 39	14	3	3	5		64
May 35	10	10	9		1	65
June 36	12	7	3	1	1	60
July 29	16	12	5	4	1	67
August 22	19	12	8	3	3	67
September 26	24	9	5	1		65
October 26	22	9	3		1	61
November 15	19	11	11	3	1	60
December 39	11	6		1	2	59
382	186	104	59	20	12	763
Percentage*50.9	24.8	13.8	7.8	2.7		100

<sup>\*(</sup>Special class, under 15,000 bacteria per cubic centimetre).

As our retail milk handled by some 36 raw milk vendors and 6 pasteurizing plants is sold in various forms it is interesting to reclassify these results grouping similar milks together as follows:

Ordinary

		15,000/				100,000						
	Spec.	%	40,000	%	100,000	%	400,000	%	Over	%	Spr.	Total
Raw Milk	200	41.1	132	27.2	87	17.9	53	10.9	14	2.9	6	492
Pasteurized	89	66.4	33	24.6	9	6.7	2	1.5	1	.8	3	137
Jersey	51	70.8	13	18.1	4	5.5	2	2.8	2	2.8	1	73
Homogenized	42	72.1	8	13.2	4	6.7	2	3.0	3	5.0	2	61
	382		186		104		59		20		12	763

It might be noted that if any milk sample gives a count of 50 thousand or over a repeat sample is examined as soon as possible. Were it not for this over-emphasis on the poorer producers our proportion of low test samples would be still higher.

The methylene blue reduction test was run on all these 1,286 samples and 17 were found not satisfactory, reducing the blue in less than 5½ hours. Also all these samples were tested for specific gravity and butter fat and the solids not fat were calculated therefrom. In addition sediment tests were run on them and all were tasted to detect off flavours, etc. The phosphatase test which is one of our newer tests has been used at least twice a month on all pasteurized samples to detect any defect in pasteurization and the tests are followed by checkup at the plants of the control thermometers, use being made in this connection of our government standardized referee thermometer. The charts from the recording pasteurizers are also submitted to this office for review and criticism.

Methylene blue tests were also run weekly on samples of milk delivered by 193 producers to the pasteurizing plants and retests run on any of these which failed to pass the regular test. There were 9,336 such tests made during the year, and of these 268 or 2.87 per cent failed to make class one. These along with 1296 distributor samples gave a total of 10,632 for the year, of which 285 failed to make the first grade.

Special samples of milk and cream are regularly examined for the C.N.R. purchasing department in connection with their dining car and hotel service, as well as various odd samples for individuals in town seeking special information.

Another time consuming activity is the checking of the ice creams sold in the city. Many of these are frozen in the so-called counter freezers throughout the city and the operators often lack the training in dairy technique, such as our plant operators are supposed to have. The fact that they buy their "mix" already compounded makes it difficult to allocate the blame in case of a slip up. Our provincial requirement of not more than fifty thousand bacteria is rather more stringent than is enforced in most other places and more trouble is found in meeting this standard than in any of our other lines of work.

As a check up on equipment cans and bottles have been taken from time to time as occasion demands from the washing machines in the various dairy plants. Results are generally quite good.

A summary of these various activities follows:

#### Tests:

	Number	Averag	e
Butterfat		4.09%	
Solids not fat	1267	8.87%	
Sediment	1265	9	(out of a possible 10)
Special Creams	44	25%	The state of the s
Special Milks		3.9%	
Chocolate Milks	80	2.2%	
Phosphatase tests	333		

#### Bacteria counts were also done on the following:

Special Creams	44-13 in special class
Special Milks	67-36 in special class
Chocolate Milks	79-41 in special class
Ice Creams	115—12 in special class
Rinse Bottles	41

In addition to the milk work several other matters have been dealt with. General supervision has been given to the swimming pools both city owned and private. Test solutions and outfits were made up and supplied as required to regulate the filtering and sterilization. Bacteria samples are taken at regular intervals and tests for chlorine akalinity, etc., made, as a check on the results for the operators. A total of 259 samples were examined—142 from the city pools and 117 from private ones. For some reason or other our counts were not on the whole as favourable as in previous years. One factor probably is that the change in our water necessitates corresponding changes in our pool operations. I can certainly give every assurance that more pains were taken by the operators than ever before and that I personally spent considerable time working with them trying to work out necessary improvements.

The tap water was examined for us by the Provincial Laboratory almost every working day throughout the year. Two hundred and ninety-two samples were thus examined. The highest count obtained was 40 organisms per c.c and only 19 were over 10.

Other activities included examination on several occasions of brine from the artificial ice plant at the arena to be sure there was no unnecessary corrosion of plant or piping, examination of sludge from air conditioner at military air school, examination of water for the waterworks department re possible theft of water, examination of several water samples and pipe samples re corrosion, testing of 3 samples of alum for use in swimming pool filters, testing for butter fat in cottage cheese for use in low fat diets. Two trips were made to the airport at Cooking Lake with regard to the water from the new well there. Four samples of water were examined. There was considerable dissolved iron in the water when the well was first put into use but it seems to have decreased considerable since.

The sewage plants are under supervision and a trip was made down the river some miles to investigate complaint of nuisance from bedding of sludge from our plants. Nothing objectionable was found. Three samples of water from deep wells were examined for fluorides. All showed from 3 to 6 parts per million, enough possibly to cause trouble in tooth formation of small children.

