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Report

of the

Local Board of Health



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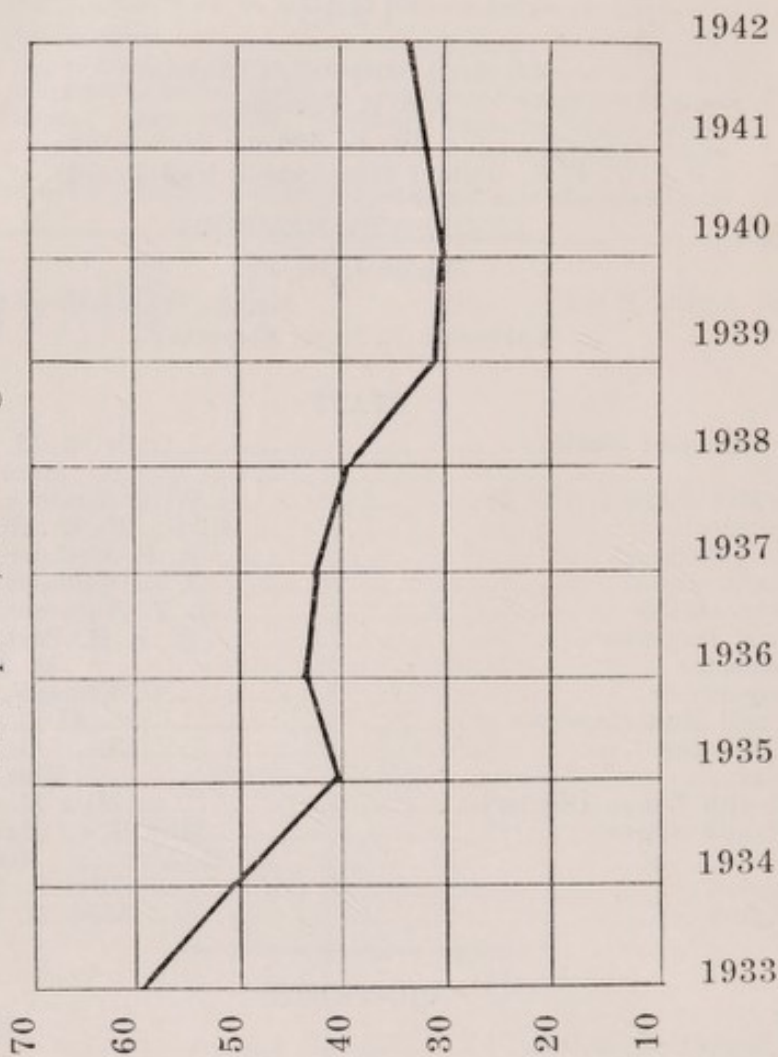
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INFANT MORTALITY

Rate per 1,000 Living Births



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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 is submitted a report of the various activities conducted by the Board during 1942, and also a summary of the work of certain co-operating health agencies.

Birth Rate:

The birth rate again showed an increase, and is the highest recorded since 1931.

Death Rate:

The death rate from all causes showed a satisfactory decrease from the previous year. The principal cause, however, which is heart disease, again showed an increase. It caused over 27% of the total deaths. The useful life-span of many such cases may be further extended if they will submit to proper medical guidance and limitation of activities.

The death rate from Cancer showed a slight increase. The co-operation of citizens in reporting the early signs of cancer to their physician is necessary if we are to reduce mortality from this cause.

Heart disease and cancer together caused 43.3% of all deaths in our city during 1942.

Communicable Disease:

The most serious outbreak of communicable disease was scarlet fever, which gave a total of 512 cases. This was a marked increase from the previous year, when 198 cases were reported. The considerable movement of men in the armed forces, plus crowded living conditions in our city, contributed largely to this total. Fortunately, no deaths were recorded amongst these cases. The absence of fatal complications is in no small part due to the constant trained supervision given these cases in the city Isolation Hospital.

Whooping cough also showed an increase over 1941, and caused the death of one two-year old child, while diphtheria with seven cases caused two deaths.

It has been pleasing to note the large increase in the number of children receiving protection against these diseases. We have had to increase our quarters for this purpose. However, it is only by a still greater use of this service that parents can protect their families against a hazard made much more serious by our congested dwellings.

A notable increase in new cases of tuberculosis occurred. This disease has increased in many countries since the beginning of war. Much of the increase has been attributed to overwork and overstrain of war conditions. The Provincial Division of tuberculosis control has accomplished much in limiting the spread of this disease. It is earnestly hoped that in the near future this service will be supplied with sufficient accommodation to hospitalize all such patients who are a constant danger to their relatives and friends.

Considerable time has been given to the search for sources of venereal disease, and bringing such cases to treatment by the Provincial Hygiene clinic. This effort has been repaid by a steady reduction in venereal cases reported in the city since the beginning of the war.

Child Welfare:

For the second year during the past nine years we have failed to maintain our steady decrease in infant mortality. The rate for 1942 showed a slight increase over 1941. Here again crowded living space with lack of proper living equipment appears to be an important factor. Also, the number of deaths from prematurity suggests the need of greater pre-natal care for mothers. The Child Welfare Clinic, operated jointly by the Provincial Board of Health and ourselves, continues to render a valuable and increasing service.

Sanitation:

General sanitation in the congested areas of the city is an increasingly difficult problem. Such sanitary equipment as garbage cans are now unattainable, and there is a tendency to overload present sanitary facilities.

Increased supervision of food-handling establishments is required as these places make an effort to serve our many new citizens in the face of the present difficulty of obtaining help and equipment.

The excellent standard of our milk supply has been well maintained. The increased war requirement for dairy products, a rapidly increasing population in our city, and shortage of labor on dairy farms, however, have reduced our milk surplus very considerably. Future circumstances may demand some measure of control to insure an equitable distribution of this product.

In our meat inspection a serious problem for farmers seems indicated by the fact that in the two local abattoirs under our supervision, over 20,000 pounds of pork were found unfit for food on account of tuberculosis alone. The total wastage from this cause must be very considerable.

Our disinfecting station has continued to render much useful service to the armed forces in treatment of clothing and other materials.

General:

I have indicated several health hazards accentuated by overcrowded living accommodation in the city. These conditions have increased to the point where an outbreak of serious communicable disease may have widespread and disastrous consequences. It is impossible to strictly enforce some of our housing regulations without rendering many people homeless. The need for more homes in our city has become a most urgent necessity.

Numbers of our citizens report difficulty in obtaining medical attention for illness in the home. This is to be expected, as nearly one-third the practising physicians of the city have enlisted in the armed forces. The householder can assist in overcoming this situation by consulting his physician at the latter's office when the disability permits, and by calling his doctor as early in the day as possible so that the home visit may be fitted into the day's calls without loss of time.

I wish to acknowledge gratefully the co-operation and counsel so freely given us by the Provincial Board of Health and the Provincial Laboratory.

Respectfully submitted,

G. M. LITTLE,
Medical Officer of Health.

EXPENDITURE

	1942	1941
1. Salaries	\$ 35,028.94	\$ 33,970.17
2. Supplies	1,007.28	971.17
3. Transportation	4,747.73	4,737.33
4/6 Sundries (Phones and Uniforms).....	700.50	541.98
7. Pensions	1,539.10	1,539.10
(Bath House included in A/c's 1 and 2)		
	\$ 43,023.55	\$ 41,759.75

REVENUE

Meat Inspection	\$1,046.55		
Inspection Fees	990.25		
	\$2,036.80	2,036.80	1,927.20
	\$ 40,986.75	\$ 39,832.55	

EXPENDITURE—CLASSIFIED—1942

	Administration	Food Inspection	Communicable Disease	Laboratory Service	Dairy Inspection	Sanitation	Public Health Nursing	Vital Statistics	Bath House	TOTALS
Salaries.....	\$ 7,651.09	\$4,666.17	\$3,126.41	\$2,569.99	\$2,346.12	\$ 9,888.06	\$2,881.79	\$1,685.04	\$ 214.27	\$35,028.94
Supplies.....	517.98	2.80	166.36	54.23	3.60	26.70	.69	12.69	222.23	1,007.28
Transportation	400.20	520.20	795.29	326.06	780.00	1,384.65	541.33			4,747.73
Telephones.....	115.10	17.78	66.02	20.62	18.25	82.53	17.90			338.20
Sundries.....	161.98	46.00	8.20	12.52			20.30			249.00
Uniforms.....		28.32	28.33			56.65				113.30
Pensions.....	1,539.00									1,539.10
	\$10,385.45	\$5,281.27	\$4,190.61	\$2,983.42	\$3,147.97	\$11,438.59	\$3,462.01	\$1,697.73	\$ 436.50	\$43,023.55
	24.14	12.27	9.75	6.93	7.32	26.59	8.04	3.95	1.01	100 %

SUMMARY OF STATISTICS

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

	1942	1941	1940	1939	1938
Population.....	96,725	92,404	91,722	90,419	88,887
Persons per acre of land.....	3.8	3.6	3.5	3.5	3.4
Cost per capita.....	.42	.43	.41	.43	.44
School enrolment.....	17,315	17,563	17,918	18,346	18,243
Natural Increase of population.....	1,260	1,083	988	1,048	893
Birth, excluding Stillbirths.....	1,972	1,805	1,727	1,678	1,602
Rate per 1,000 population.....	20.3	19.9	19.2	18.6	18.
Stillbirths.....	39	28	27	29	30
Rate per 1,000 births.....	19.3	15.5	15.6	17.3	18.7
Deaths, excluding Stillbirths.....	712	722	739	630	703
Rate per 1,000 population.....	7.3	7.8	8.2	7.	7.9
Deaths under 1 year of age.....	68	58	53	53	63
Infant mortality rate, 1,000 living births.....	34.5	32.13	30.6	31.6	39.3
Deaths from Childbirth.....	1	3	5	7	5
Maternal mortality per 1,000 births.....	.52	1.66	2.8	4.17	2.5
Marriages.....	2,234	1,995	2,085	1,860	1,653
Rate per 1,000 population.....	23.03	21.6	22.7	20.7	18.57
Non-resident births in City.....	1,590	1,425	1,388	1,240	1,203
Non-resident deaths in City.....	483	483	438	425	472
Non-resident deaths under 1 year.....	59	52	49	52	40

VITAL STATISTICS

Births

	1942	1941
City Births.....	1,972	1,805
Male.....	1,001	958
Female.....	971	847
Attended by Physician.....	1,964	1,797
Attended by Nurse.....	2	5
Unattended.....	6	3
Double Births.....	26	12

Born in Institutions, 1952 or 99.4%; elsewhere 20, of which 17 were attended by the Victorian Order of Nurses.

Maternal parentage:

	1942	1941
Canada.....	1,610 or 81.7%	1,409 or 78.0%
British Isles.....	174 or 9.0%	176 or 9.7%
Europe.....	104 or 5.0%	125 or 7.0%
U.S.A.....	80 or 4.0%	90 or 5.0%
Other Countries.....	4 or .3%	5 or .3%

Stillbirths

	1942	1941
Total.....	39	28
Male.....	18	17
Female.....	21	11
Born in institutions.....	39	27
Born elsewhere.....	—	1

Causes of Foetal deaths: 1942

Dystocia, 18
 Prematurity, 2.
 Toxaemia of pregnancy, 2.
 Malformation, 5.
 Other conditions, 12.

Deaths

	1942	1941
Male.....	442	416
Female.....	270	360
Total Deaths.....	712	722

Racial Origin

	1942	1941
Canada.....	253 or 35.6%	347 or 48.0%
British Isles.....	256 or 35.9%	204 or 28.3%
Europe.....	140 or 19.7%	97 or 13.4%
U.S.A.....	42 or 5.9%	49 or 6.8%
Other Countries.....	19 or 2.6%	12 or 1.7%
Unknown.....	2 or .3%	13 or 1.8%

Infant Mortality

	1942	1941
Deaths under one year of age.....	68	58
Male.....	41	58
Female.....	27	24
Infant Mortality Rate per 1,000 living births.....	34.5%	32.13%

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—T.B., Syphilis, 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—25 or 36.7%. Class II—12 or 17.5%. Class III—31 or 45.8%.

PRINCIPAL CAUSES OF DEATH, 1942

	1942					1941		
	Male	Female	Total	Percent of Total Deaths	Rate per 100M Population	Total	Percent of Total Deaths	Rate per 100M Population
90—95 Diseases of the heart.....	136	61	197	27.7	202.9	166	23.0	179.4
45—55 Cancer and other malignant tumors	66	45	111	15.6	114.4	105	14.5	113.5
83 Intracranial lesions of vesicular origin	31	31	62	8.7	61.8	72	10.0	77.8
163—196 External Causes.....	27	11	38	5.3	39.0	53	6.9	57.3
130—132 Nephritis	19	14	33	4.6	34.0	31	4.3	33.5
107—109 Pneumonia and Bronchopneumonia	18	14	32	4.5	33.0	31	4.3	33.5
158—161 Congenital debility, premature birth, and diseases peculiar to first year of life.....	20	6	26	3.7	26.8	31	4.3	33.5
13—22 Tuberculosis, all forms.....	12	12	24	3.4	24.7	26	3.6	28.1
157 Congenital Malformation.....	8	10	18	2.5	18.5	12	1.7	13.0
61 Diabetes	8	7	15	2.1	15.4	22	3.0	
TOTALS	345	211	556	78.1		549	72.6	

Total deaths, 1942—712.

Total deaths, 1941—722.

MORTALITY FROM HEART DISEASE

Year	Total Deaths	Deaths From Heart Disease	Percentage of Total Deaths	Rate Per 100M Population
1942.....	712	197	27.7	203.0
1941.....	722	166	23.0	179.4
1940.....	739	141	18.8	156.6
1939.....	630	149	18.8	156.6
1938.....	709	128	18.0	143.8

There were 197 deaths (136 male and 61 female) from heart disease. This is an increase in the rate per 100M population of 23.6 over 1941.

MORTALITY FROM CANCER

Year	Total Deaths	Deaths From Cancer	Percentage of Total Deaths	Rate Per 100M Population
1942.....	712	111	15.6	114.4
1941.....	722	105	14.8	113.5
1940.....	729	124	16.7	138.0
1939.....	630	95	13.1	105.5
1938.....	709	99	13.9	111.2

There were 111 deaths (66 male, 45 female) from cancer, an increase of .9 per 100M over 1941.

MORTALITY FROM INTRACRANIAL LESIONS OF VASCULAR ORIGIN

Year	Total Deaths	Deaths From This Cause	Percentage of Total Deaths	Rate Per 100M Population
1942.....	712	62	8.7	63.9
1941.....	722	72	10.0	77.8

There were 62 deaths (31 males, 31 females), a decrease of 13.9 per 100M population, from the 1941 rate.

MORTALITY FROM PNEUMONIA

Year	Total Deaths	Deaths From Pneumonia	Percentage of Total Deaths	Rate Per 100M Population
1942.....	712	32	4.6	33.0
1941.....	722	31	4.3	33.5
1940.....	739	53	7.1	59.0
1939.....	630	26	4.1	28.9
1938.....	709	58	8.2	65.2

There were 32 deaths (18 males and 15 females) from Pneumonia (all forms), a decrease of 0.5 in the rate per 100M population over 1941. Of the 32 deaths, 7 were due to Lobar Pneumonia (4 males and 3 females) and 3 were under one year of age.

MORTALITY FROM TUBERCULOSIS

Year	Total Deaths	Deaths From Tuberculosis	Percentage of Total Deaths	Rate Per 100M Population
1942.....	712	24	3.3	24.7
1941.....	722	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

There were 24 deaths (12 male and 12 female) from Tuberculosis (all forms), showing a decrease of 3.4 in the rate per 100M population.

MORTALITY FROM EXTERNAL CAUSES

Year	Total Deaths	Deaths From External Causes	Male	Female	Suicide	Homicide	Automobile Accidents	Other Accidents	Percentage of Deaths	Rate Per 100M Population
1942.....	712	38	27	11	4	1	7	26	5.3	39.0
1941.....	722	53	37	16	10	1	10	32	6.9	57.3
1940.....	739	51	37	14	11	4	11	26	6.9	56.7
1939.....	630	42	29	13	11	1	13	17	6.7	46.7
1938.....	709	41	31	10	12	6	3	20	5.8	46.9

ISOLATION HOSPITAL

Eight hundred and twelve patients were admitted and 70 carried over from 1941, making a total of 882. There were 807 discharged; 18 died and 75 remained in hospital at the end of the year.

The diseases hospitalized included:

Scarlet Fever	518	Erysipelas	24
Diphtheria	8	Measles	5
Diphtheria carriers	4	Rubella	17
Meningitis (Meningococcic)	10	Mumps	73
Tuberculosis	31		

The deaths included:

Tuberculosis	8	Diphtheria	1
Scarlet Fever	2	Other conditions	5
Meningitis (Meningococcic)	2		

SCHOOL MEDICAL SERVICES

	Public School Board	R.C. Separate School Board
Complete examinations.....	4369	550
Number reported with defects.....	1757	177
Number reported without defects.....	2612	370
Parents present at examination.....	3313	238
Home visits by nurses.....	1244	100
Health talks to classes.....	333	

IMMUNIZATION

	Smallpox	Diphtheria	Scarlet Fever	Whooping Cough	Schick Test	Dick Test	Reaction Test	Typhoid Fever
1942								
Local Board of Health (Cases)	474	1277	575	292	30	13	1	5
Public School Board (cases)	3155	1912						
R.C. Separate School Board (Cases)	260	223						
	<u>3889</u>	<u>3412</u>	<u>575</u>	<u>292</u>	<u>30</u>	<u>13</u>	<u>1</u>	<u>5</u>
Local Board of Health (Doses)	474	3961	2021	730	30	13	1	15
1941								
Local Board of Health (Cases)	263	469	53	46	69	28		30
Public School Board (cases)		1184						
R.C. Separate School Board (Cases)	313	327						
	<u>576</u>	<u>1980</u>	<u>53</u>	<u>46</u>	<u>69</u>	<u>28</u>		<u>90</u>
Local Board of Health (Doses)	263	5110	265	138	69	28		90

COMMUNICABLE DISEASE REPORT, 1938 - 1942

	1942		1941		1940		1939		1938	
	C	D	C	D	C	D	C	D	C	D
Actinomycosis	2									
Chickenpox	726		1039		1634		608		1132	
Diphtheria	7	2	4		16	5	3		18	
Diphtheria carriers	4		1		8				9	
Dysentery					1		9			
Encephalitis Lethargica						1		1		2
Erysipelas	17		31		36	1	27		28	
Gonorrhoea	155		218		238		242		282	
Influenza		8		9		25		9		19
Measles	673		1631		2995	1	20		465	
Meningitis (Meningococcic)	3	1	16	1	6	1	1	1	4	
Mumps	2006		499		199		118		5725	
Paratyphoid fever			4	1	2				4	
Polio-myelitis			15			2	1		7	2
Pneumonia (Lobar)		6	3	7	6	19	4	10	17	28
Puerperal Septicemia				1						
Rubella	653		3266		20		11		28	
Scarlet Fever	512		198		151		311		484	2
Septic Sore Throat	24		23		54		3		7	
Syphilis	74	5	79	8	39	1	74	4	61	4
Tuberculosis (pulmonary)	68	17	47	23	48	10	31	4	34	17
Tuberculosis (other forms)	6	7	3	3	5	8	3	4	3	9
Typhoid Fever			3	1	2		1		5	1
Undulant Fever			2		2		1		5	
Vincent's Angina	1									
Whooping Cough	356	1	166		483	1	1351	3	49	1
	<u>5287</u>	<u>47</u>	<u>7248</u>	<u>46</u>	<u>5945</u>	<u>50</u>	<u>2818</u>	<u>27</u>	<u>8315</u>	<u>70</u>
Morbidity per 1,000 population	54.5		78.3		66.8		31.3		93.4	

C—Cases.

D—Deaths.

During 1942 reportable disease was responsible for 47 or 6.60% of the 712 City deaths.

COMMUNICABLE DISEASES, 1942

	Total Cases	Out-Side	City Cases	M	F	Under 1 year	1	2	3	4	5	6-14	15-24	25-44	45-59	60-69	70-Over	
Actinomycosis.....	3	1	2	2	2													
Chickenpox.....	736	10	726	358	358	29	22	64	63	68	63	365	33	16	2	1		
Diphtheria.....	9	2	7	1	6			1	2	1		3						
Deaths.....				2	1	1					1							
Diphtheria carriers.....	6	2	4	1	3					1	3							
Erysipelas.....	30	13	17	6	11	1				1	2		1	5	5	1	1	
Gonorrhoea.....	156	1	155	76	79								98	49	8			
Influenza—Deaths.....				4	4	3								1	2			
Measles.....	679	6	673	427	246	25	26	68	67	79	72	301	29	6				
Meningitis (Meningococci).....	9	6	3	1	2	2												
Deaths.....				1	1													
Mumps.....	2020	14	2006	1045	961	7	29	69	95	83	79	1184	309	142	9			
Pneumonia (Lobar) Deaths.....				6	4	2								1	1	1		
Rubella.....	659	6	653	239	414	16	7	22	20	30	31	305	167	52	2			
Scarlet Fever.....	553	41	512	263	249	1	4	17	21	22	36	233	113	59	5			1
Septic Sore Throat.....	27	3	24	9	15					1	1		4	5	12			
Syphilis.....	75	1	74	43	31								2	15	36	16	4	1
Deaths.....				5	4	1										4	1	
Tuberculosis (pulmonary).....	90	22	68	34	34					2		2	17	36	7	4		
Deaths.....				17	8	9							2	5	3	1		5
Tuberculosis (other forms).....	7	1	6	1	5	2						3						
Deaths.....				7	4	3							2					
Tularemia.....	2	2																
Typhoid Fever.....	3	3																
Vincent's Angina.....	2	1	1		1													
Whooping Cough.....	359	3	356	172	184	21	16	48	49	49	62	106	2	3				
Deaths.....				1	1			1										
Totals.....	5425	138	5287	2678	2609	104	104	289	319	336	344	2514	789	418	57	10	3	
Total Deaths.....				47	26	21	8	2				1	5	7	14	3	7	

COMMUNICABLE DISEASES BY SEASON AND SEX

	Total	Out- Side	City	M	F	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Actinomycosis.....	3	1	2	2	1	1	1	36	22	29	61	1	20	17	73	101	126
Chickenpox.....	736	10	726	358	368	119	61	1	1	1	1	61	20	1	3	3	2
Diphtheria.....	9	2	7	1	6	1	1	1	1	1	1	1	1	1	1	1	1
Deaths.....	6	2	4	1	3	1	1	1	1	1	1	1	1	1	1	1	3
Diphtheria carriers.....	30	13	17	6	11	1	1	1	1	4	2	2	1	4	1	1	1
Erysipelas.....	156	1	155	76	79	14	9	15	12	9	10	23	15	12	14	13	9
Gonorrhoea.....	679	6	673	427	246	18	19	52	68	83	263	131	24	8	3	3	1
Influenza, Deaths.....	9	6	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1
Measles.....	2020	14	2006	1045	961	185	247	286	184	134	176	88	62	94	138	209	203
Meningitis (Meningococce).....	659	6	653	239	414	155	165	126	113	59	20	6	1	3	1	3	3
Deaths.....	553	41	512	263	249	29	57	52	49	60	63	34	20	29	32	51	36
Mumps.....	27	3	24	9	15	6	3	2	1	1	3	1	1	2	2	2	2
Pneumonia (Lobar) Deaths.....	75	1	74	43	31	5	6	9	14	6	4	5	7	6	9	1	2
Rubella.....	90	22	68	34	34	2	5	6	1	3	2	3	10	4	6	10	9
Deaths.....	17	8	9	1	5	1	1	2	1	2	1	1	2	3	2	4	1
Scarlet Fever.....	7	1	6	1	5	1	1	1	1	1	1	1	2	1	1	1	1
Septic Sore Throat.....	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Syphilis.....	90	22	68	34	34	2	5	6	1	3	2	3	10	4	6	10	9
Deaths.....	17	8	9	1	5	1	1	2	1	2	1	1	2	3	2	4	1
Tuberculosis (pulmonary).....	7	1	6	1	5	1	1	1	1	1	1	1	2	1	1	1	1
Deaths.....	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tuberculosis (other forms).....	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Typhoid Fever.....	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vincent's Angina.....	359	3	356	172	184	4	16	32	24	37	36	29	23	41	31	39	44
Whooping Cough.....	5425	138	5287	2678	2609	539	589	617	488	424	642	391	187	223	312	435	440
Deaths.....	47	26	21	2	4	6	4	6	4	6	3	1	3	6	6	6	6
Total Cases.....	5425	138	5287	2678	2609	539	589	617	488	424	642	391	187	223	312	435	440
Total Deaths.....	47	26	21	2	4	6	4	6	4	6	3	1	3	6	6	6	6

"KINSMEN'S" TUBERCULOSIS NURSING SERVICE

Visits:

Total visits made by nurse.....	2810
Visits to T.B. cases.....	532
Visits to suspect cases.....	43
Visits to contact cases.....	2011
Co-operative visits.....	130

Clinic Report—New Cases:

Active Cases	74
Suspects	76
Contact	363
Non-contact	591
Total	1104

Total examinations	1535
Total X-rays	1469

Tuberculin:

Tests made	538
Positive	281

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.

	1942	1941	1940	1939	1938
Number of clinics held.....	101	83	101	100	100
Babies in attendance.....	4,905	3,783	4,743	3,672	3,860
Number of Pre-school.....	1,146	972	1,135	1,010	1,103
Total	6,051	4,755	5,878	4,682	4,963
Average	60	49	58	47	49
New cases admitted (babies).....	1,119	899	866	749	860
New cases admitted (pre-school).....	61	202	156	152	148
Babies referred to family doctor.....	21	28	38	32	22
Pre-school referred to family doctor..	24	20	33	32	49

We are sorry to lose the services of Dr. Calder who enlisted in the Medical Service of the Navy in March. Dr. Newell assumed Dr. Calder's duties along with her own. Our thanks are due Drs. Calder, Folinsbee and Newell for their untiring effort on behalf of the clinic.

The B.Sc. Class from the University of Alberta, Home Economic students, student nurses, and medical students have been in attendance during the year.

One hundred and forty-six children from rural areas attended the clinics, and fifty-two letters requesting advice on infant feeding were received and replied to.

Two thousand, three hundred and eighty-nine home visits were made by the nursing staff.

WEIGHING CLINICS

	1942	1941	1940	1939	1938
Number of clinics held.....	48	42	49	48	50
Total Attendance	876	623	796	779	675
Average	18	14	16	16	13

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

Attendance according to age at both Child Welfare and Weighing Clinics:

	1942	1941
Babies under 2 years of age	4,905	3,783
Pre-school	1,146	972
Total	6,051	4,755

PRE-NATAL VISITS

	1942	1941	1940	1939	1938
City Nurse	229	346	396	429	460
V. O. N.	399	314	242	259	257

One hundred and nine new pre-natal cases were added to our roll.

The Junior Hospital League are to be commended for the splendid assistance rendered during the past year in supplying layettes for needy parents. Help given by the Red Cross as usual has been of inestimable value.

POST-NATAL VISITS

	1942	1941	1940	1939	1938
City Nurse	114	173	193	212	270
V. O. N.	453	586	588	836	603

Mothers are urged in all cases to report to family doctor within six weeks after parturition.

DISTRICT VISITS

	1942	1941	1940	1939	1938
Visits to homes.....	613	777	882	1,191	1,170
Special investigations.....	22	64	92	135	154

Seven hundred and twenty-eight babies were seen during the 613 home visits made.

INFANT MORTALITY, 1941

BY SEASON

BY AGE

	January	February	March	April	May	June	July	August	September	October	November	December	1st Day	1st Week	2nd Week	3rd Week	4th Week	Total Under 1 Month	1-3 Months	4-6 Months	7-9 Months	10-12 Months	
13b—Tuberculosis, with Broncho pneumonia.....	1								1										1				
14—Tubercular meningitis.....	1																			1			
22a—Acute Miliary Tuberculosis.....	1																			1			
33a—Influenza with pneumonia.....	1																		1				
64—Diseases of Thymus Gland.....	1																						
81a—Simple meningitis.....	1																						
84a—Infantile imbecility.....	1																						
86—Convulsions.....	1																						
107—Broncho pneumonia.....	2																						
108—Lobar pneumonia.....	3																						
109—Pneumonia, unspecified.....	1																						
119a—Diarrhoea or Enteritis.....	7																						
157b—Spina bifida.....	4																						
157d—Other congenital malformations, Nervous system.....	1																						
157e—Congenital malformation of heart.....	6																						
157g—Congenital malformation, digestive system.....	3																						
158—Congenital debility.....	12																						
159—Premature birth.....	5																						
160a—Intra cranial or spinal haemorrhage.....	1																						
160c—Other injuries of birth.....	1																						
161a—Asphyxia, Atelectasis.....	6																						
161c—Other specified diseases peculiar to 1st year.....	1																						
182—Accidental suffocation.....	3																						
195d—Other accidents, suffocation.....	1																						
200—...atural death, body found frozen.....	1																						
TOTALS.....	68	6	5	4	3	7	2	7	4	4	7	8	11	19	12	4	3	2	40	16	6	4	2

HEALTH INSPECTIONS

INSPECTIONS:

	1942	1941
Dwellings	7,262	6,776
Hotels, lodging houses, apartment blocks.....	603	459
Schools, blocks, public buildings.....	132	213
Stores, business establishments.....	697	559
Food handling establishments.....	3,746	3,101
Garbage cans, etc.....	1,229	1,921
Streets, lanes, yards, dumps, etc.....	3,091	2,876
Miscellaneous	2,898	2,416
	<u>19,658</u>	<u>18,321</u>
Re-inspections	3,372	4,101
Visits assisting Quarantine Officer.....	115	1,458

NOTICES:

Written	1,319	1,539
Verbal	7,319	6,788
Garbage	795	1,325
	<u>9,433</u>	<u>9,652</u>

COMPLAINTS:

Received from the public	787	851
Justified	706	711
Received from other Departments	24	26
Referred to other Departments	105	122

The complaints were made up as follows:

Garbage, streets, lanes, etc.	221	233
Vermin	136	167
Housing, plumbing and drainage	228	185
Food and drink	61	69
Miscellaneous	141	197

LICENSES:

License applications investigated	1,703	1,610
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PLUMBING:

Sewer and water notices issued	11	31
Sewer and water installed, buildings removed, etc.	20	60
Extension of time granted	17	19
Plumbing permits issued	605	617
Plumbing permits issued for old buildings	52	52
Alterations to existing plumbing	611	65
Privies eliminated through installation of plumbing	52	52

DISINFESTING STATION:

Baths	6,352	10,263
Verminous	47	37
Scabies	376	371
Disinfested	423	
Men washing clothing	4,654	7,705
Units washed	13,852	23,305
Articles sterilized for the Army	8,098	14,700

SCAVENGING CLEAN UP WORK:

Refuse removed during Clean-up Week (cu. yds.)	8,912	9,724
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ANIMALS, BARNS, STYES, INSPECTIONS:

Cows	554	546
Hogs	196	189
Goats	73	
Mink, fox ranches, etc.	73	62

FOOD:

Samples submitted to Provincial Laboratory	46	20
Foodstuffs condemned (lbs.)	29,546	4,674

WATER:

Water samples taken	21	89
Negative	16	71
*Positive	5	16
*Suspicious		2
Wells chlorinated	4	18
Ice samples	2	

*Wells condemned or further samples taken after chlorination.

HOUSING:

There were 7,262 dwellings and 603 hotels, lodging houses, apartment blocks, etc., inspected during the year for overcrowding, vermin or other insanitary conditions and notices were issued where necessary.

POISON GAS FUMIGATION:

Vermin were eliminated from 228 dwellings and blocks by the use of hydrocyanic acid gas. All premises were inspected both before and after fumigation. These fumigations took place under our supervision and the inhabitants were warned and all foodstuffs removed.

SOCIAL HYGIENE:

There were 233 cases of venereal disease investigated, and 376 visits were made in connection with this branch of the work.

ENFORCEMENT OF REGULATIONS:

Prosecutions	1	3
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The defendant was fined \$3.00 and costs and ordered to secure a cow permit.

FOOD INSPECTION

MEATS INSPECTED AND CONDEMNED

Beef:

	1942	1941	1940
No. of carcasses inspected	2,327	2,379	2,440
Carcasses condemned	23	35	44
Portions condemned	247	231	277
Weight (lbs.) of carcasses and portions condemned	14,515	19,655	22,000

Veal:

No. of carcasses inspected	1,373	1,938	2,818
Carcasses condemned	5	2	4
Portions condemned	22	35	71
Weight (lbs.) of carcasses and portions condemned	1,400	490	1,775

Mutton:

No. of carcasses inspected	821	677	498
Carcasses condemned	2	4	1
Portions condemned	19	20	22
Weight (lbs.) of carcasses and portions condemned	141	217	90

Pork:

No. of carcasses inspected	6,637	4,839	4,055
Carcasses condemned	83	27	19
Portions condemned	1,425	866	684
Weight (lbs.) of carcasses and portions condemned	35,735	16,520	11,970

Totals:

No. of carcasses inspected	11,158	9,833	9,811
Carcasses condemned	114	68	68
Portions condemned	1,709	1,152	1,054
Weight (lbs.) of carcasses and portions condemned	51,791	36,882	35,835

CARCASSES FOUND TO BE INFECTED WITH T.B.

Beef:

Infected	10	4	18
Percent .....	.429	.168	.737

Pork:

Infected	827	507	453
Percent	12.46	10.47	11.17

CHIEF CAUSES OF CONDEMNATION, 1942

Beef:

	Carcasses	Portions	Weight
Actinomycosis		100	1,970 lbs.
Adhesions		55	800
Bruised	4		2,200
Cancer	2		800
Emaciation	3		1,250
Metritis	2		900
Pneumonia	7		3,150
Tuberculosis	2	9	1,120
Miscellaneous (abscess, haemolytic streptococci, etc.)	3	83	2,325
	23	247	14,515

Veal:

Abscess		9	110
Actinomycosis	1	7	420
Immature	2		100
Parasites		3	30
Pneumonia	2		700
Tuberculosis		3	40
	5	22	1,400

Mutton:

Emaciation	1		35
Parasites		19	26
Pneumonia	1		80
	2	19	141

Pork:

Abscess multiple	10		2,025
Adhesions		102	1,535
Arthritis	10		1,550
Bruised	1	54	1,450
Contamination		146	2,165
Parasites		158	325
Peritonitis	14		3,025
Pneumonia	6		1,255
Tuberculosis	37	949	20,775
Miscellaneous (abscess, metritis, emaciation, etc.)....	5	16	1,630
	83	1,425	35,735

DISEASED ANIMALS

	1942	1941	1940
Beef	200	217	262
Veal	24	41	75
Mutton	16	24	23
Pork	1,024	663	559

FOODSTUFFS CONDEMNED

	—Pounds—		
	1942	1941	1940
Meat	51,791	36,882	35,835
Poultry	98	160	163
Fish	10	1,848	
Sundries	350	6	3

Foodstuffs Condemned by Health Inspectors:

Canned goods	3	45	160
Meat	41	115	38
Fruit and vegetables		3,540	833
Cereal			472
Fish		500	
Ice Cream		160	
Sundries	28	125	60
Damaged by fire	27,067	182	820
Cheese	1,900		
Candy	507		
Total (lbs.).....	81,795	43,563	38,384
Inspection visits	5,017	5,112	4,664

Complaints:

Received from public	42	36	35
Justified	27	33	25

DAIRY INSPECTION

During the third year of war, the high degree of compliance with the requirements of all items of sanitation listed in 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 is being maintained.

Certificates issued Producer-distributors, raw milk.....	33
Certificates issued Producer-shippers, milk.....	198
Certificates issued Producer-shippers, cream.....	71
Certificates issued Pasteurization plants.....	5
Inspections of Producer-distributors' dairies.....	139
Inspections of Producer-shippers' dairies.....	990
Inspections of Pasteurization plants.....	81
New Dairy Barns erected.....	3
Dairy Barns remodelled.....	1
New Milk Houses erected.....	4
Certificates suspended temporarily.....	163
Certificates suspended indefinitely.....	3
Applications for certificates of registration refused.....	2
Certificates issued to retail distributors.....	458
Permits issued to cowkeepers in the city.....	613
Reduction tests, milk.....	9,493
Reduction tests, cream.....	167
Sediment tests.....	1,002
Butterfat tests.....	1,207
Phosphatase tests.....	301
Bacterial plate counts, milk.....	830
Bacterial plate counts, ice cream.....	45
Chlorine tests at dairy farms.....	42
Dairy cattle privately tested for Bang's Disease.....	681
Well water samples taken at dairy farms.....	
Milk cans condemned.....	
Written notices to dairy premises.....	525
Educational circulars to cream producer-shippers.....	33
Prosecutions	

Since 1922 all milk and cream which is consumed in fluid form within the City of Edmonton has been produced from cows which are tuberculin tested by the Health of Animals Branch of the Dominion Department of Agriculture.

LABORATORY REPORT

During the year there were 1,011 retail samples of milk taken for examination. Of these 620 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 16 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	34	10	8	2	1	....	55
February	31	11	2	1	1	5	51
March	35	11	5	1	1	....	53
April	32	11	2	2	....	2	49
May	30	8	4	2	4	....	48
June	43	5	5	3	....	2	58
July	24	14	10	4	2	3	57
August	20	17	15	2	4	3	61
September	25	15	2	....	1	....	43
October	29	15	4	....	....	1	49
November	27	10	7	2	1	....	47
December	23	10	12	4	....	....	49
	353	137	76	23	15	16	620
Percentage	*58.4	22.7	12.6	3.8	2.5	....	100

(*Special class, under 15,000 bacteria per cubic centimetre.)

As our retail milk handled by some 32 raw milk vendors and 5 pasteurizing plants is sold in various forms, it is interesting to reclassify these results grouping similar milks together as follows:

	Spec.	%	15,000/ 40,000	%	40,000/ 100,000	%	100,000/ 400,000	%	Over	%	Spr.	Total
Raw milk	173	48.	98	27.3	60	16.7	17	4.7	12	3.3	11	371
Pasteurized	100	74.6	24	17.9	9	6.8	1	.7	....	....	3	137
Jersey	44	63.8	12	17.7	6	8.9	3	4.8	3	4.8	2	70
Homogenized	36	85.7	3	7.1	1	2.4	2	4.8	....	....	....	42
	353		137		76		23		15		16	620

Due to shortage of help and other causes the number of raw milk producers is steadily decreasing. The number given above (32) is down from the previous year and of these another eight or ten had ceased to actively engage in the business by the end of 1942.

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 1,011 samples and 12 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 201 producers to the pasteurizing plants and retests run on any of these which failed to pass the regular test. There were 8,457 such tests made during

the year, and of these 311 or 3.76 per cent failed to make class one. These along with 1,015 distributor samples gave a total of 9,472 for the year, of which 335 failed to make the first grade.

The disruption of traffic on the country roads due to weather conditions in the latter part of the year disorganized the taking of these samples. Many shipments were so delayed in transit as to make sampling and testing unsatisfactory while others could not be covered at all.

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.

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	Average
Butterfat	1007	4.0 %
Solids not fat	1006	8.80%
Sediment	1003	9 (out of a possible 10)
Special Creams	45	24 %
Special Milks	65	4.2 %
Chocolate Milks	90	2.0 %
Phosphatase tests	301	

Bacteria counts were also done on the following:

Special Creams	47— 9 in special class
Special Milks	54—28 in special class
Chocolate Milks	92—58 in special class
Ice Creams	45— 5 in special class
Rinse Bottles	28—

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 alkalinity, etc., made, as a check on the results for the operators. A total of 247 samples were examined—167 from the city pools and 85 from private ones. The bacteria counts are still running higher than in past years. For one reason we had abnormally large bathing loads and also due to war demands and consequent shortage of chlorinating compounds the use of these latter had to be restricted to the very lowest we could use without creating health hazards.

The tap water was examined for us by the Provincial Laboratory almost every working day throughout the year. Two hundred and ninety-one samples were thus examined. The highest count obtained was 100 organisms per c.c., and only 17 were over 10.

Also almost every day throughout the year including Sundays and holidays and excepting only such times as I was out of town, tests were made on the tap water for residual chlorine. Visits were made several times a month to the water plant and closest collaboration was maintained at all times between the plant personnel and myself with regard to the water purification.

Since our water softening has been in operation, various troubles often of the most contradictory nature have been blamed on the treatment given the water. The investigation of various complaints of corrosion or of deposition of sediment has necessitated several trips and examination of several samples.

Sewage plants have been under general supervision as usual and periodic tests made of brine from the ice plant of our city arena to ensure protection from corrosion while the plant was not in use.

