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Report

of the

Local Board of Health



CITY OF EDMONTON

ALBERTA

1943

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BOARD OF HEALTH, 1943



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Dr. R. M. Shaw Ald. S. Parsons Ald. H. Ainley
Dr. E. A. Hay-Roe
Mr. J. A. Gallant (Separate School Board)
EX-OFFICIO MEMBERS:
Mayor J. W. Fry
Dr. G. Little, M.O.H. Mr. A. W. Haddow, City Engineer
Catharine R. Rose, Secretary



1944

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Dr. G. A. Gemeroy, Edmonton Public School Board
Mr. J. A. Gallant, Separate School Board
EX-OFFICIO MEMBERS:
Mayor J. W. Fry
Dr. G. M. Little, M.O.H. Mr. A. W. Haddow, City Engineer
Catharine R. Rose, Secretary

STAFF:

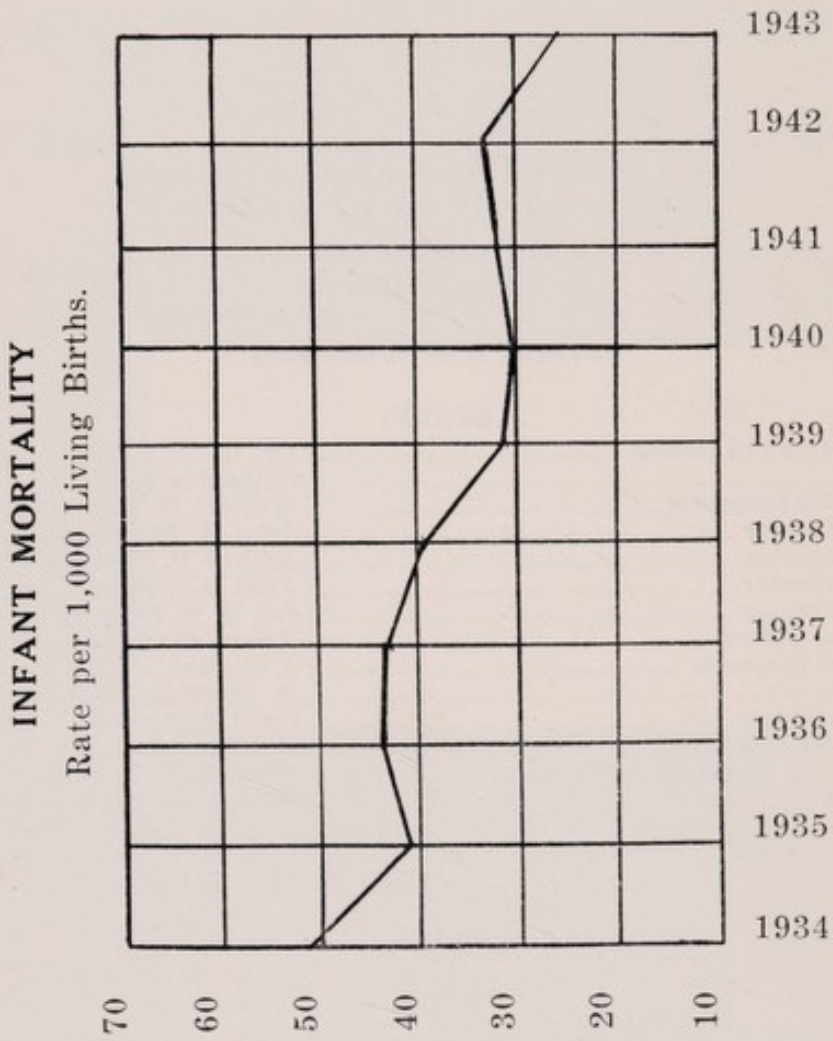
Medical Officer of Health.....	Dr. G. M. Little, D.P.H.
Secretary.....	Catharine R. Rose
Chief Health Inspector.....	William R. Graham
Health Inspector.....	John H. Blackburn
Health Inspector.....	Arthur P. Methuen
Health Inspector.....	John D. Williams
Health Inspector.....	Ian D. F. Shaw
Quarantine Officer.....	Robert T. Anderson
Chief Food Inspector.....	J. H. Part, V.S., M.D.V.
Meat Inspector.....	D. Morrison, V.S.
Dairy Supervisor.....	Cyril Ellinger
Chemist and Milk Inspector.....	Harry C. Graham, B.A.
Public Health Nurse (senior).....	Miss M. Griffith, R.N.
Public Health Nurse.....	Miss S. C. Christensen, R.N.
Clerk.....	Miss K. D. Derbyshire
Stenographer.....	Mrs. M. E. Arnett
Stenographer.....	Miss J. Lane



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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 of the Board during 1943, and a summary of the work of certain co-operating agencies.

Birth Rate:

The birth date showed a marked increase over the previous year. An important factor in this increase appears to be the improved economic condition of our people.

Death Rate:

The general death rate showed a small increase. The death rate from heart disease, our chief cause, showed a reduction from the previous year, and the rate from cancer, the cause of second importance, remained approximately the same.

Decided increases were recorded in the death rates from intracranial diseases of vascular origin and from pneumonia. This reflects the increased percentage of our people in the older age groups at the present time. In the former disease more than half the deaths were over seventy years of age, while in pneumonia most of the increase occurred in the group over fifty years.

Deaths from external causes also showed a marked increase in 1943. Motor-driven vehicles accounted for most of this increase.

Communicable Disease:

Crowded living quarters and considerable movement of population amongst military and other personnel have been important factors in maintaining a high incidence of communicable disease. Scarlet fever is our chief disease requiring isolation hospital facilities, and accommodation during early months of the year was insufficient at times for our city cases. Many out-of-town cases could not be admitted. Hospitalization is often urgently required, and it would seem reasonable that the provincial government, the city and surrounding municipalities should co-operate to provide sufficient isolation facilities for such diseases as scarlet fever and diphtheria in this part of the province.

Over 25% of scarlet fever cases reported were from the armed forces. That nearly half the cases of this disease were adults reflects, we believe, the considerable amount of scarlet fever immunization done amongst the children of the city.

Cases of tuberculosis were almost double the number reported in 1942. The greatest increase occurred in young adult females. The advent of women into industry appears to be an important factor in this as it was in World War I. Increased supervision of this group is indicated, and the portable X-ray equipment recently acquired by the Provincial Tuberculosis Service should prove invaluable in this connection. An evident lack of hospital accommodation is a serious handicap to those concerned with the control of tuberculosis.

Child Welfare:

The infant mortality rate of 25.4 per thousand living births is the lowest in the city's history. This was a remarkable attainment in the face of crowded and ill-equipped living quarters which prevail at present.

A considerable portion of infant deaths was due to premature birth, again suggesting the need for increased pre-natal care for mothers.

The Child Welfare Clinic continued to render a valuable service, and 6,716 examinations of babies and pre-school children were made during the year. An extra clinic day each week has been added to this service.

Sanitation:

Despite overloading of sanitary facilities and difficulty of obtaining garbage cans, the general sanitation of the city was fairly good during the year. The increasing concentration of population in some areas, however, has made it urgently necessary that livestock be reduced in these sections to eliminate a growing health hazard.

Our city bathhouse and disinfecting station continued to render valuable service to both the armed forces and our own citizens.

A great loss to farmers is indicated by the fact that 13.88% of hogs coming under our inspection showed some degree of tuberculosis. Many turkeys and chickens with this disease also came to our attention.

A threatened shortage in the city milk supply early in the year was overcome by extra effort on the part of our dairymen. The high standard of our milk has been well maintained.

General:

There is an urgent need in our community for a home where old folks who require a little help and supervision may be accommodated. The lot of many of our aged is not a happy one.

The dearth of medical personnel in the city is indicated by the many citizens who report difficulty in obtaining medical attention. There is little promise of improvement in this situation until the war is ended.

The Provincial Board of Health and the Provincial Laboratory has rendered us many services during the year, for which we are grateful.

Respectfully submitted,

G. M. LITTLE,
Medical Officer of Health.

EXPENDITURE

	1943	1942
1. Salaries	\$ 33,249.76	\$ 35,028.94
2. Supplies	1,045.23	1,007.28
3. Transportation	4,677.27	4,747.73
4/6. Telephones, Sundries and Uniforms.....	747.21	700.50
7. Pensions	2,427.20	1,539.10
	\$ 42,146.67	\$ 43,023.55

REVENUE

Meat Inspection \$1,276.15		
Inspection Fees 932.50		
	\$2,208.65	
		2,036.80
	\$ 39,938.02	\$ 40,986.75

EXPENDITURE—CLASSIFIED—1943

	Administration	Communicable Disease	Dairy Inspection	Food Inspection	Laboratory Service	Public Health Nursing	Sanitation	Vital Statistics	Bath House	TOTALS
Salaries.....	\$ 6,655.14	\$3,574.00	\$2,253.17	\$4,332.52	\$2,407.90	\$2,984.64	\$10,355.33	\$ 480.41	\$ 206.65	\$33,249.76
Supplies.....	652.37	112.17			106.45		12.62		161.62	1,045.23
Transportation...	400.20	826.78	780.00	420.15	409.59	373.99	1,466.56			4,677.27
Telephones.....	109.56	65.76	18.00	17.76	20.64	17.88	82.20			|331.80
Sundries.....	124.81	|56.88	|5.36	60.08	40.31	30.32	18.51			336.27
Uniforms.....							79.14			79.14
Pensions.....	2,427.20									2,427.20
	\$10,369.28	\$4,635.59	\$3,056.53	\$4,820.51	\$2,984.89	\$3,406.83	\$12,014.36	\$ 480.41	\$ 368.27	\$42,146.67
	24.6	10.9	7.2	11.9	7.0	8.0	28.5	1.1	.8	100%

SUMMARY OF STATISTICS

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

	1943	1942	1941	1940	1939
Population.....	105,536	96,725	92,404	91,722	90,419
Persons per acre of land.....	3.9	3.8	3.6	3.5	3.4
Cost per capita.....	.38	.42	.43	.41	.43
School enrolment.....	17,337	17,315	17,563	17,918	18,346
Natural increase of population.....	1,629	1,260	1,083	988	1,048
Births, excluding stillbirths.....	2,443	1,972	1,805	1,727	1,678
Rate per 1,000 population.....	23.1	20.3	19.9	19.2	18.6
Stillbirths.....	33	39	28	27	29
Rate per 1,000 births.....	13.2	19.3	15.5	15.6	17.3
Deaths, excluding stillbirths.....	814	712	722	739	630
Rate per 1,000 population.....	7.7	7.3	7.8	8.2	7.0
Deaths under 1 year of age.....	62	68	58	53	53
Infant mortality rate, 1,000 living births.....	25.4	34.5	32.13	30.6	31.6
Maternal deaths.....	4	1	3	5	7
Maternal Mortality per 1,000 births.....	1.63	.52	1.66	2.8	4.17
Marriages.....	1,862	2,234	1,995	2,085	1,860
Rate per 1,000 population.....	17.6	23.0	21.6	22.7	20.7
Non-resident births in City.....	1,640	1,590	1,425	1,388	1,240
Non-resident deaths in City.....	528	483	483	438	425
Non-resident deaths under 1 year.....	62	52	52	49	52

VITAL STATISTICS

Births

	1942	1943
City Births	2,443	1,972
Male	1,229	1,001
Female	1,214	971
Attended by Physician	2,424	1,964
Attended by Nurse	13	6
Unattended	6	2
Double Births	45	26

Born in Institutions, 2,427 or 99.3%; elsewhere, 16, of which 4 were attended by the Victorian Order of Nurses.

Maternal parentage:

	1943	1942
Canada.....	2,008 or 82.1%	1,610 or 81.7%
British Isles.....	173 or 7.0%	174 or 9.0%
Europe.....	111 or 4.6%	104 or 5.0%
U.S.A.....	148 or 6.1%	80 or 4.0%
Other Countries.....	4 or .2%	3 or .3%

Stillbirths

	1943	1942
Total	33	39
Male	13	18
Female	19	21
Born in Institutions	13	39
Born elsewhere .....	.....	.....
Cause of Foetal Deaths:	1943	1942
Dystocia	19	18
Prematurity	4	2
Toxaemia of pregnancy	4	2
Malformation	2	5
Placenta and membranes	1	.....
Other conditions	3	12

Deaths

	1943	1942
Male	488	442
Female	326	270
Total Deaths	814	712

Racial Origin

	1943	1942
Canada.....	287 or 35.3%	253 or 35.6%
British Isles.....	298 or 36.7%	256 or 35.9%
Europe.....	142 or 17.4%	140 or 19.7%
U.S.A.....	54 or 6.6%	42 or 5.9%
Other Countries.....	33 or 4.0%	21 or 2.9%

Infant Mortality

	1943	1942
Deaths under 1 year of age.....	62	68
Male	31	41
Female	31	27
Infant Mortality Rate per 1,000 Living Births.....	25.4	34.5

Classification for 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—26 or 41.8%; Class II—15 or 24.3%; Class III—21 or 33.9%.

ABRIDGED INTERNATIONAL CLASSIFICATION OF CAUSES OF DEATH, 1943

	Total	M	F	Under 1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
3. Scarlet Fever.....	M 2							1																			
4. Whooping Cough.....	M 2																										
5. Diphtheria.....	M 1																										
6. Tuberculosis of the Respiratory System.....	M 15	8	7		1		1	1	1	1	2	1	1	1	1	1	2	1	1	1							
7. All other forms of Tuberculosis.....	M 5	4	1								1																
9. Syphilis.....	M 7	7															1	1	2	1	2						
10. Influenza.....	M 11	6	5	2	1				1								1				1						
12. Measles.....	M 1																1	1			1						
14. Other infectious or Parasitic diseases.....	M 5	2	3								1		1	1													
15. Cancer and other Malignant Tumors.....	M 121	68	53						1	1	1	1	1	3	2	3	2	7	9	11	5	7	10	7	1		
16. Non-malignant Tumors or Tumors of unspecified nature.....	M 3																										
17. Chronic rheumatism and gout.....	M 1																										
18. Diabetes Mellitus.....	M 14	9	5														1				2	4	1	1			
19. Chronic and acute Alcoholism.....	M 2	2																									
20. Avitaminoses, other general diseases, diseases of the blood, and chronic poisonings.....	M 23	12	11	1					1		1				3				2		1	2	1				
21. Meningitis (non-meningococcal) and diseases of the spinal cord.....	M 7	4	3						2								1	1	1	1							
22. Intracranial Lesions of Vascular origin.....	M 74	43	31														1	1	4	2	6	6	6	3	2		
23. Other diseases of the nervous system and sense organs.....	M 18	11	7	1						2			2				2	3	3	5	4	6	3	1			
24. Diseases of the heart.....	M 202	127	75						1								2	10	33	12	17	18	14	11	3	1	
	F									1	1			1	3	1	3	2	8	8	12	17	12	3	1		J

ABRIDGED INTERNATIONAL CLASSIFICATION OF CAUSES OF DEATH, 1943 (Continued)

	Total	M	F	Under 1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
25. Other diseases of the circulatory system.....	M 28	15																									
	F		13																								
26. Bronchitis.....	M 4	4																									
	F																										
27. Pneumonia and Bronchopneumonia.....	M 47	32		5	1								4			2	1	1	3	4	3	7					
	F		15	5							1					2	1	2	1	1	1	2	2	2	1	1	
28. Other diseases of the respiratory system.....	M 13	6											1			1	1	1	2								
	F		7	3	1											1	2										
29. Diarrhea and enteritis.....	M 8	5		3	1																						
	F		3	2	1																						
30. Appendicitis.....	M 5	2					1																				
	F		3																								
31. Diseases of the liver and biliary passages.....	M 11	5															1	4			1						
	F		6								1	1	1	1	1	1	1	1	1	1	1	1	1				
32. Other diseases of the digestive system.....	M 21	14									1	1				1	2	2	4	2							
	F		7	1				1								1	2	2	1								
33. Nephritis.....	M 34	20									1					4	1	4	1	4	1	6	2				
	F		14													1	1	2	1	2	3	4	1				
34. Other diseases of the urinary and genital systems.....	M 14	11									1																
	F		3																								
36. Other diseases of pregnancy, childbirth and the puerperium.....	M 4																										
	F		4								1	1	2														
37. Diseases of the skin, cellular tissue, bones and organs of movement.....	M 2	2																									
	F																										
38. Congenital malformations and debility, premature birth, and diseases peculiar to the first year of life.....	M 39	21		19	1	1																					
	F		18	17																							
39. Senility.....	M 15	5																			2						
	F		10																				1	6	3		
40. Suicide.....	M 5	5																									
	F																										
42. Automobile accidents (all motor driven road vehicles).....	M 13	12				2	1	1	1	1						1	2	1	1	1							
	F		1																								
43. Other violent or accidental deaths.....	M 33	23						2	1	4	1	1	1	1	2		1	2			1		1	2	1	1	
	F		10	1																				2	3	1	
44. Causes of death ill-defined or unknown.....	M 4	3														2											
	F		1	1																							
Total Male.....	488			31	5	4	2	1	1	5	7	8	6	8	11	17	13	41	64	46	44	44	52	40	20	15	3
Total Female.....	326		31	2	1			1	4	3	2	8	5	9	8	9	16	20	24	27	31	29	33	38	19	4	1
Total Deaths.....	814		62	7	5	2	2	2	5	8	9	16	11	17	19	26	29	61	88	73	75	73	85	78	39	19	4

PRINCIPAL CAUSES OF DEATH, 1943

	1943					1942		
	Male	Female	Total	% of Total Deaths	Rate per 100M Population	Total % of Total	Deaths	Rate per 100M Population
90— 95 Diseases of the heart.....	127	75	202	24.8	191.4	197	27.7	202.9
45— 55 Cancer and other malignant Tumors.....	68	53	121	15.0	114.7	111	15.6	114.4
83 Intracranial lesions of vascular origin.....	43	31	74	9.0	70.4	62	8.7	61.8
163—198 External causes.....	40	11	51	6.2	48.3	38	5.3	39.0
107—109 Pneumonia and Broncho-pneumonia.....	32	15	47	5.8	44.5	32	4.5	33.0
157—161 Congenital debility, premature birth, and diseases peculiar to first year of life, congenital malformations.....	21	18	39	4.8	36.9	44	6.2	45.5
130—132 Nephritis.....	20	14	34	4.1	32.2	33	4.6	34.0
13— 22 Tuberculosis, all forms.....	12	8	20	2.4	18.9	24	3.4	24.7
162 Senility.....	5	10	15	1.8	14.2			
61 Diabetes mellitus.....	9	5	14	1.7	13.2	15	2.1	15.4
TOTALS.....	377	240	617	75.6		556	78.1	

MORTALITY FROM HEART DISEASE

Year	Total Deaths	Deaths From Heart Disease	Percentage of Total Deaths	Rate Per 100M Population
1943.....	814	202	24.8	191.4
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

There were 202 deaths (127 male and 75 female) from heart disease, showing a decrease in the rate per 100M population of 11.6 from 1942.

MORTALITY FROM CANCER

Year	Total Deaths	Deaths From Cancer	Percentage of Total Deaths	Rate Per 100M Population
1943.....	814	121	15.0	114.7
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

There were 121 deaths (68 male and 53 female) from Cancer, showing a decrease in the rate per 100M population of .3 from 1942.

MORTALITY FROM INTRACRANIAL LESIONS OF VASCULAR ORIGIN

Year	Total Deaths	Deaths From This Cause	Percentage of Total Deaths	Rate Per 100M Population
1943.....	814	74	9.0	70.4
1942.....	712	62	8.7	63.9
1941.....	722	72	10.0	77.8

There were 74 deaths (43 male and 31 female) from Intracranial lesions of Vascular origin, showing an increase of 6.5 in the rate per 100M population over 1942.

MORTALITY FROM PNEUMONIA

Year	Total Deaths	Deaths From Pneumonia	Percentage of Total Deaths	Rate Per 100M Population
1943.....	814	47	5.8	44.5
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

There were 47 deaths (32 males and 15 females) from Pneumonia (all forms) an increase of 11.5 over the rate per 100M population in 1942. Of the 47 deaths, 11 were due to Lobar Pneumonia (6 males and 5 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
1943.....	814	20	2.4	18.9
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

There were 20 deaths (14 male and 8 female) from Tuberculosis (all forms) showing a decrease of 5.8 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
1943.....	814	51	40	11	5	....	13	33	6.2	48.3
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

ISOLATION HOSPITAL

Seven hundred and sixty-nine patients were admitted, 75 were carried over from 1942 making a total of 844. There were 752 discharged, 17 died and 84 remained in the hospital at the end of the year .

The diseases hospitalized are as follows:

Scarlet Fever	456	Erysipelas	22
Diphtheria	15	Measles	55
Diphtheria Carriers	8	Rubella	12
Meningitis (Meningococcic)	6	Mumps	40
Tuberculosis	23		

The deaths included:

Tuberculosis	3	Diphtheria	1
Scarlet Fever	1	Whooping Cough	3
Meningitis (Meningococcic)	1	Other conditions	8

SCHOOL MEDICAL SERVICES

	Public School Board	R.C. Separate School Board
Complete examinations	3521	541
Number reported with defects	1334	123
Number reported without defects	2187	418
Parents present at examinations	2411	242
Homes visited by nurses	1184	77
Talks to classes	415	.....

IMMUNIZATION

1943	Smallpox	Diphtheria	Scarlet Fever	Whooping Cough	Typhoid Fever	Schick Test	Dick Test
Board of Health (cases).....	549	3066	1248	1998	26	203	103
Board of Health (doses).....	549	8414	5371	5059	76	203	103
Public School Board (cases).....		2326					
Public School Board (doses).....		5679					
Separate School Board (cases).....	240	197					
Separate School Board (doses).....	240	591					
Total Cases	789	5589	1248	1998	26	203	103
Materials distributed to private							
Physicians	708	636	84	227	6	50	20
1942							
Board of Health (cases).....	474	1277	575	292	5	30	13
Public School Board (cases).....	3155	1912					
Separate School Board (cases).....	260	223					
Total Cases	3889	3412	575	292	5	30	13

(The above figures include re-inforcing doses).

COMMUNICABLE DISEASE REPORT, 1939-1943

	1943		1942		1941		1940		1939	
	C	D	C	D	C	D	C	D	C	D
Actinomycosis.....			2							
Chickenpox.....	745		726		1039		1634		608	
Diphtheria.....	11	1	7	2	4		16	5	3	
Diphtheria carriers.....	12		4		1		8			
Dysentery.....	2						1		9	
Encephalitis Lethargica.....	3						1		1	
Erysipelas.....	18		17		31		26	1	27	
Influenza.....	11		8		9		25		9	
Measles.....	1926	1	673		1631		2995	1	20	
Meningitis (Meningococcic).....	9	2	3	1	16	1	6	1	1	1
Mumps.....	1076		2006		499		199		118	
Paratyphoid Fever.....	1				4	1	2			
Pneumonia (Lobar).....	11		6		3	7	6	19	4	10
Poliomyelitis.....	7				15		2		1	
Fuerperal Septicaemia.....					1					
Rubella.....	330		653		3266		20		11	
Scarlet Fever.....	513	2	512		198		151		311	
Septic Sore Throat.....	8		24		23		54		3	
Tuberculosis (Pulmonary).....	133	15	68	17	47	23	48	10	31	4
Tuberculosis (all other forms).....	4	5	6	7	3	3	5	8	3	4
Typhoid Fever.....	1				3	1	2		1	
Undulant Fever.....					2		2		1	
Vincent's Angina.....	1		1							
Whooping Cough.....	856	2	356	1	166		483	1	1351	3
Venereal Disease										
G.C. Vaginitis.....	3									
G.C. Ophthalmia.....	1									
Gonorrhoea.....	209		155		218		238		242	
Syphilis.....	38	7	74	5	79	8	39	1	74	4
Morbidity per 1,000 population	59.08	57	52.87	47	72.48	54	59.45	75	28.18	35
	56.0		54.5		78.3		66.8		31.3	

C—Cases.
D—Deaths.

During 1943 reportable disease was responsible for 57 or 7.0% of the 814 City deaths.

COMMUNICABLE DISEASE BY SEASON AND SEX, 1943

City	Cases		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Outside
	Male	Female													Cases
Chickenpox	745	371	68	27	24	29	14	23	22	22	16	60	202	238	5
Diphtheria	11	6	1	1	1	1	1	1	1	3	5	5	3	3	3
Diphtheria Carriers	12	4	8	4	4	4	1	1	1	3	4	4	1	1	1
Dysentery	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1
Encephalitis Lethargica	18	10	8	2	3	3	1	1	1	2	2	1	3	2	4
Erysipelas	1926	896	1030	2	35	72	162	609	646	126	35	27	70	136	25
Measles	9	5	4	2	2	2	2	2	1	1	1	1	1	1	4
Meningitis (Meningococci)	1076	502	260	259	274	74	59	49	28	19	8	11	24	11	12
Mumps	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Paratyphoid Fever	7	3	4	4	23	68	89	108	11	7	2	3	4	3	2
Poliomyelitis	330	119	211	7	4	71	83	41	59	39	18	33	40	57	41
Rubella	513	303	210	47	71	83	41	59	39	18	16	33	40	57	41
Scarlet Fever	8	4	4	4	3	3	3	3	1	1	1	1	1	3	1
Septic Sore Throat	133	52	81	9	17	5	9	13	16	18	13	15	10	8	20
Tuberculosis (pulmonary)	4	3	1	1	2	2	1	1	1	1	1	1	1	1	2
Tuberculosis (all other forms)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Trachoma	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tularaemia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Typhoid Fever	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Undulant Fever	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vincent's Angina	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Whooping Cough	856	397	459	73	94	57	80	106	75	98	85	64	13	9	8
Veneral Disease															
G.C. Ophthalmia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
G.C. Vaginitis	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Gonorrhoea	209	99	110	19	22	12	16	7	19	18	19	10	33	12	1
Syphilis	38	21	17	1	4	2	2	7	5	6	4	1	3	2	1
TOTALS	5908	2800	3108	491	507	525	398	520	949	850	321	218	404	481	140
DEATHS:															
Diphtheria	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Influenza	11	6	5	1	1	1	1	1	1	1	1	1	1	1	1
Measles	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Meningitis (Meningococci)	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pneumonia (Lobar)	11	6	5	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet Fever	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tuberculosis (Pulmonary)	15	8	7	1	1	1	1	1	1	1	1	1	1	1	1
Tuberculosis (all other forms)	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1
Whooping Cough	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Syphilis	7	7	7	2	2	2	2	2	2	2	2	2	2	2	2
TOTALS	57	34	23	5	4	8	3	5	11	3	2	4	3	3	9

TUBERCULOSIS CONTROL

Kinsmen's Club Services:

Total visits by nurse.....	2763
Total visits to T.B. cases.....	519
Visits to suspect cases.....	98
Visits to contact cases.....	1936
Co-operative visits	146

Provincial Tuberculosis Division:

Clinic Report—New Cases—

Active cases	87
Suspects	91
Contact	413
Non-contact	732
Total	1323
Total examinations	1988
Total X-rays	1919
Tuberculin tests made	938
Tuberculin tests, positive	453

PUBLIC HEALTH NURSING

CHILD WELFARE

Clinics are held three times weekly in co-operation with the Provincial Department of Health.

	1943	1942	1941	1940	1939
*Number of clinics held	150	101	83	101	100
Babies in attendance (under 2 years).....	5649	4905	3783	4743	3672
Number of pre-school	1067	1146	972	1135	1010
Total	6716	6051	4755	5875	4682
Average	45	60	49	58	47
New cases admitted, babies.....	1320	1119	899	866	749
New cases admitted, pre-school.....	240	61	202	156	152
Babies referred to family doctor.....	31	21	28	38	32
Pre-school referred to family doctor.....	36	24	20	33	32

Dr. Folinsbee and Dr. Newell were in attendance at Tuesday and Friday clinics as usual, and Dr. F. S. Macpherson relieved them for vacation in the summer.

The B.Sc. Class from the University of Alberta was with us for observation at the clinics and for field work. Nurses also came from the General, Royal Alexandra and University hospitals.

For some weeks during the early summer a member of the Citizens' Volunteer Bureau helped at the clinics.

One hundred and forty-seven children from rural areas attended the clinics, and many requests for advice on infant feeding were received and answered.

Two thousand five hundred and twenty-one home visits were made by the nurses.

Weighing Clinics:	1943	1942	1941	1940	1939
Number of clinics held	50	48	42	49	48
Total attendance	1223	876	623	796	779
Average	24	18	14	16	16

As there are no doctors present at the weighing clinics, no new cases are admitted. Parents are given advice on matters of routine by the nurse on duty.

*Weighing clinics included.

PRE-NATAL VISITS

	1943	1942	1941	1940	1939
City Nurses	99	299	346	396	429
Victorian Order of Nurses.....	347	399	314	242	295

POST-NATAL VISITS

City Nurses	46	114	173	193	212
Victorian Order of Nurses	743	453	586	588	836

DISTRICT VISITS

Visits to homes	2702	613	777	882	1191
Special investigations	23	22	64	92	135

INFANT MORTALITY, 1943

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	6-9 Months	10-12 Months	
9—Whooping Cough.....	1									1		1						1	1	1		1	
33a—Influenza with Pneumonia.....	1																						1
33b—Influenza without respiratory complications specified.....	1										1									1			
73d—Other and unspecified Anaemias.....	1																		1				
81—Meningitis (not due to meningococcus).....	1																						
84a—Mental Deficiency.....	1																		1				
89a—Otitis Media.....	1																		1				
107—Broncho Pneumonia.....	1				2	1		1			2	1		1				1	4	1	1		1
108—Lobar Pneumonia.....	3		1					1			1							1	2	2	1		
117a—Ulcer of Stomach.....	1																						
119a—Enteritis, Diarrhea.....	5							1	1		2	1	1		1			2	2	1			
152—Cellulitis.....	1																	1					
157a—Congenital Hydrocephalus.....	1																						
157b—Spina Bifida.....	1																						
157e—Congenital Malformation of Heart.....	5		1		1	1	2						2	1	1	1	2	5					
157m—Other congenital Malformations (unspecified).....	2							1					1	1	1	1	2	2					
159—Premature Birth.....	21	3	3	1	2	3	3	1	2			2	15	4	1	1	1	21					
160a—Intracranial or Spinal Haemorrhage.....	2																						
160c—Other injuries of Birth.....	1																						
161a—Asphyxia, Atelectasis.....	2																						
161c—Other specified Diseases peculiar to first year.....	1																						
182—Accidental suffocation.....	1																						
200c—Unknown or unspecified cause.....	1																						
TOTALS.....	62	6	3	3	4	5	5	7	4	1	7	9	24	5	5	3	4	41	8	9	3	2	

HEALTH INSPECTIONS

INSPECTIONS:

	1943	1942
Dwellings	7,282	7,262
Hotels, lodging houses, apartment blocks.....	905	603
Schools, blocks, public buildings.....	200	132
Stores, business establishments	395	697
Food handling establishments.....	3,633	3,746
Garbage cans, etc.	1,125	1,229
Streets, lanes, yards, dumps, etc.....	2,396	3,091
Miscellaneous	2,819	2,898
	<u>18,755</u>	<u>19,658</u>
Re-inspections	3,234	3,372
Visits assisting Quarantine Officer.....	471	115

NOTICES:

Written	2,142	1,319
Verbal	6,607	7,319
Garbage	629	795
	<u>9,378</u>	<u>9,433</u>

COMPLAINTS:

Received from the public	1,038	787
Justified	954	706
Received from other Departments	29	24
Referred to other Departments.....	151	105

The complaints were made up as follows:

Garbage, streets, lanes, etc.....	294	221
Vermin	183	136
Housing, plumbing and drainage	329	228
Food and drink	55	61
Miscellaneous	177	141

LICENSES:

License applications investigated.....	1,728	1,703
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PLUMBING:

Sewer and water notices issued.....	10	11
Sewer and water installed, buildings removed, etc.....	18	20
Extension of time granted.....	31	17
Plumbing permits issued.....	831	605
Plumbing permits issued for old buildings.....	152	52
Alterations to existing plumbing.....	772	611
Privies eliminated through installation of plumbing.....	37	52

DISINFESTING STATION:

Baths	4,121	6,352
Verminous	20	47
Scabies	344	376
Disinfested	364	423
Men washing clothing	2,874	4,654
Units washed	8,922	13,852
Articles sterilized for the Army.....	8,813	8,098

SCAVENGING CLEAN-UP WORK:

Refuse removed during Clean-up Week (cu. yds.).....	4,760	8,912
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ANIMALS, BARNS, STYES:

Cow owners	502	554
Hog owners	172	196
Goat owners	71	73
Mink, fox ranch owners.....	55	73

FOOD:

Samples submitted to Provincial Laboratory.....	9	46
Foodstuffs condemned (lbs.).....	162	29,546

WATER:

Water samples taken.....	24	21
Negative	15	16
*Positive	4	5
*Suspicious	4	
Wells chlorinated	7	4
Wells placarded	1	1
Ice samples	2	2

*Wells condemned or further samples taken after chlorination.

HOUSING:

There were 7,282 dwellings and '905 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 by the use of hydrocyanic acid gas from 253 dwellings and blocks. All premises were inspected before and after fumigation, the inhabitants warned, and all foodstuffs removed. These fumigations were carried out under our supervision.

SOCIAL HYGIENE:

Four hundred and sixteen visits were made in connection with 207 cases of venereal disease.

ENFORCEMENT OF REGULATIONS:

Prosecutions	1	1
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For failing to procure a proper manure box as required by By-law No. 9, Section 39, the defendant was fined \$10.00 and costs.

FOOD INSPECTION

MEATS INSPECTED AND CONDEMNED

Beef:	1943	1942	1941
No. of carcasses inspected.....	3,754	2,327	2,379
Carcasses condemned	32	23	35
Portions condemned	343	247	231
Weight (lbs.) of carcasses and portions condemned.....	18,100	14,515	19,655

Veal:			
No. of carcasses inspected.....	2,141	1,373	1,938
Carcasses condemned	3	5	2
Portions condemned	41	22	35
Weight (lbs.) of carcasses and portions condemned.....	778	1,400	490

Mutton:			
No. of carcasses inspected.....	1,132	821	677
Carcasses condemned	6	2	4
Portions condemned	22	19	20
Weight (lbs.) of carcasses and portions condemned.....	380	141	217

Pork:			
No. of carcasses inspected.....	5,396	6,637	4,839
Carcasses condemned	85	83	27
Portions condemned	1,251	1,425	866
Weight (lbs.) of carcasses and portions condemned.....	31,545	35,735	16,520

Totals:			
No. of carcasses inspected	12,423	11,158	9,833
Carcasses condemned	125	114	68
Portions condemned	1,657	1,709	1,152
Weight (lbs.) of carcasses and portions condemned.....	50,803	51,791	36,882

CARCASSES FOUND TO BE INFECTED WITH T.B.

Beef:			
Infected	19	10	4
Percent .....	.506	.429	.168

Pork:			
Infected	749	827	507
Percent	13.88	12.46	10.47

CHIEF CAUSES OF CONDEMNATION, 1943

	Carcasses	Portions	Weight Lbs.
Beef:			
Abscess .....	.....	148	1,730
Abscess multiple	3	2	1,445
Actinomycosis	2	100	2,685
Bruised	14	1	5,695
Pneumonia	6	.....	2,365
Tuberculosis	4	21	2,225
Emaciation	3	.....	1,050
Miscellaneous (adhesions, parasites, contamination).....	.....	71	905
	32	343	18,100
Veal:			
Abscess .....	.....	20	230
Parasites .....	.....	16	155
Improper bleeding	1	.....	168
Abscess multiple	1	.....	100
Miscellaneous (actinomycosis, immature, adhesions)....	1	5	125
	3	41	778
Mutton:			
Pneumonia	2	.....	115
Abscess multiple	1	.....	65
Improper bleeding	1	.....	45
Arthritis	1	.....	65
Emaciation	1	.....	50
Miscellaneous (parasites, abscess) .....	.....	22	40
	6	22	380
Pork:			
Abscess multiple	17	.....	2,800
Adhesions .....	.....	68	1,020
Arthritis	25	.....	3,650
Bruised	2	42	1,225
Contamination .....	.....	151	2,360
Improper bleeding	6	.....	1,400
Parasites .....	.....	106	215
Peritonitis	5	.....	1,000
Pneumonia	7	.....	1,475
Tuberculosis	17	882	15,015
Metritis	2	.....	450
Emaciation	2	.....	550
Miscellaneous (abscess, rough, frozen).....	2	2	385
	85	1,251	31,545

DISEASED ANIMALS

	1943	1942	1941
Beef	304	200	217
Veal	40	24	41
Mutton	11	16	24
Pork	924	1,024	663

FOODSTUFFS CONDEMNED

	— Pounds —		
	1943	1942	1941
Meat	50,803	51,791	36,882
Poultry	123	98	160
Fish .....	.....	10	1,848
Sundries	400	350	6

FOODSTUFFS CONDEMNED BY HEALTH INSPECTORS

	1943	1942	1941
Canned Goods	4	3	45
Meat	12	41	115
Fruit and Vegetables .....	.....	.....	3,540
Fish .....	.....	.....	500
Ice Cream	5	.....	160
Sundries	38	28	125
Damaged by Fire .....	.....	27,067	182
Cheese .....	.....	1,900	.....
Candy .....	.....	507	.....
Poultry	103	.....	.....
	Total (lbs.)....	51,488	81,795
Butcher Shop Inspection visits.....	3,826	5,017	5,112

COMPLAINTS

Received from public	32	42	36
Justified	27	27	33

DAIRY INSPECTION

During the fourth 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.....	23
Certificates issued Producer-shippers, milk.....	262
Certificates issued Producer-shippers, cream	42
Certificates issued Pasteurization Plants	5
Inspections of Producer-distributors' Dairies	92
Inspections of Producer-shippers' Dairies	583
Inspections of Pasteurization Plants	61
New Dairy Barns erected	10
Dairy Barns remodelled	5
New Milk Houses erected	13
Certificates suspended temporarily	9
Certificates suspended indefinitely .....	.....
Applications for certificates of registration refused.....	2
Certificates issued to retail distributors.....	310
Permits issued to cowkeepers in the city.....	599
Reduction tests, milk	10,623
Reduction tests, cream .....	.....
Sediment tests	834
Buterfat tests	1,097
Phosphatase tests	369
Bacterial plate counts, milk.....	762
Bacterial plate counts, ice cream	48
Chlorine tests at dairy farms	23
Dairy cattle privately tested for Bang's disease.....	530
Well water samples taken at dairy farms.....	.....
Milk cans condemned .....	.....
Written notices to dairy premises	243
Educational circulars to cream producer-shippers.....	.....
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 1943 the testing and supervision has been carried on along the same lines as previously. The sudden increase in the milk consumption along with the inability to procure the necessary equipment and also the greatly increased demand on the producers coupled with their inability to procure farm help has very much complicated the whole milk situation. The necessity of conserving the transportation due to war demands has also made it difficult to get delivery to the plants at suitable time of day and the whole routine has been greatly upset. All these factors have combined to greatly increase the difficulty of procuring and examining milk samples and have necessitated a great deal of overtime work to ensure any sort of satisfactory supervision.

As several of our milk vendors have discontinued or changed to wholesaling their product the total number of retail samples taken during the year was only 843, a considerable drop over previous years. Of these 602 were examined by the official plate count method. As in previous years we have classified as special all those with counts of 15,000 and under. This class made up just under half of our total samples for the year. The tabulation below will show the distribution of the results in different classes. The 15 samples in which examination was spoiled by the growth of "spreaders" are not included in the calculating of the per cent in each group.

	Special	15,000/ 40,000	40,000/ 100,000	100,000/ 400,000	Over	Spreader	Total
January	25	7	9	7	4	....	52
February	18	6	3	1	2	....	30
March	28	9	8	....	....	1	46
April	18	11	22	5	4	....	60
May	26	14	9	1	1	....	51
June	18	15	6	8	4	....	51
July	26	8	7	1	5	1	48
August	17	10	16	13	....	9	65
September	42	8	4	3	....	4	61
October	29	11	3	3	....	....	46
November	26	13	5	....	....	....	44
December	19	10	8	7	4	....	48
	292	122	100	49	24	15	602
Percentage	*49.7	20.8	17.0	8.4	4.1	....	100

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

As previously we are classifying the results in groups as follows:

	Spec.	%	15,000/ 40,000	%	40,000/ 100,000	%	100,000/ 400,000	%	Over	%	Spr.	Total
Raw Milk	95	33.7	70	24.8	62	21.9	39	13.8	16	5.8	10	292
Pasteurized	116	64.1	33	18.2	20	11.1	8	4.4	4	2.2	2	183
Jersey	51	66.2	11	14.3	10	13.	1	1.3	4	5.2	2	79
Homogenized	30	63.8	8	17.	8	17.	1	2.2	....	....	1	48
	292		122		100		49		24		15	602

We started the year with 24 raw milk vendors and of these three dropped out leaving a total of 21 to end the year.

It is well to remember, in considering these results, that repeat samples are run when the count is 50,000 or over, so that the figures do not look as good as they would if the milk from the better vendors were sampled as often as that from those who are not quite so good.

The methylene blue reduction test was run on all of these 843 samples and of these 22 failed to stand up under the test. These samples were also tested for butter fat, and specific gravity, and these results also used to calculate solids not fat. Sediment tests run on all these samples were graded on an arbitrary scale which we have used for some time and found very useful in reporting back to milk handlers on the condition of their product. In

addition all samples were tasted to detect possible flavor defects. On the pasteurized milk, phosphatase tests were run twice a month as a control on the time and temperature factors in pasteurization and the necessary check up made at the plants if any deficiency was indicated. The pasteurization recording charts were also received at this office for scrutiny and criticism.

A great deal of time has been taken in the checking of the raw milk received at the pasteurizing plants. Due to the wartime restrictions of the use of trucks and economy measures in the collection mileage the receiving schedule has been rather badly disrupted. This has greatly increased the work of getting samples. An attempt has been made however, to submit each milk patron's product to the methylene blue test each week. The total number of samples from 263 producers who shipped all or part of the year was 9,780 and of these 864 or 8.83% failed to stand up to the test. This is not nearly as good a showing as previous years but, considering the difficulties under which we have been working is not too bad a showing. Besides these there were 46 special samples of which four failed to make first grade.

Special samples of cream and milk were run monthly for the C.N.R. purchasing department in connection with their dining car and hotel service as well as odd samples for individuals seeking special information.

A few rinse samples were taken to check efficiency of washing machines.

A summary of these activities is as follows:

Tests:

	Number	Average	
Butterfat.....	920	3.7%	
Solids not fat.....	912	8.72%	
Sediment.....	834	8	(out of a possible 10)
Special Creams.....	39	18½%	
Special Milk.....	52	4.0%	
Chocolate Milks.....	85	1.9%	
Phosphate tests.....	369		

Bacteria counts were also done on the following:

Special Creams	37—16	in special class
Special Milks	76—49	in special class
Chocolate Milks	76—49	in special class
Ice Cream	49— 9	in special class
Rinse Bottles	6—	

Methylene blue tests:

	Number	Class
Producers Milk	9,780	864
Retail Samples	843	22
Special Tests	46	4

General supervision was given to the swimming pools both city owned and private. Test solutions and testing outfits have been made up and supplied to pools and kept continuously serviced. Visits were made to the pools weekly sometimes oftener and tests made on the water for chlorine content, and, samples taken for bacteria count. Advice and help was also given in operating problems. A total of 288 samples were taken for bacterial examination 167 from the city pools and 61 for the private. At one of our pools there seemed to be some trouble getting the treatment routine working properly at the first of the season, and several high counts were obtained. Results otherwise were very good. The private pools particularly were handicapped by trouble in obtaining accustomed supplies of chlorine sterilizing compounds, but managed to get along fairly well. No sample in the whole year gave a positive test for colon organisms.

The tap water has been examined for us by the Provincial Laboratory almost every working day throughout the year in addition to the samples examined by the works chemist at the plant. Two hundred and ninety-one samples were thus examined, 62 gave counts over 10, and 2 were 200 or over.

Also two samples during August gave positive tests for B. Coli. These results show many samples higher than for any previous years but, we are still far below the limits set for acceptable water. Almost every day throughout the year Sundays and holidays included tests were made on the tap water for control of residual chlorine. A survey was also made to determine just how the chlorine was spreading throughout the distributing system. Samples were taken at various widely spread points over several weeks. As a result of this survey, and in order to make our dosage comply with recent health standards governing our method of treatment some adjustments were made at the water treatment plant. In this, as in all other matters having to do with the water control the closest collaboration was maintained at all times with the plant personnel.

There were about 370 laboratory tests made for chlorine besides about 320 semi quantitative "bottle" tests made at home or outside the laboratory.

Complaints were received from some of the New War Service Offices opened in the city with regard to the quality of the water, off flavors on the water, etc. These complaints were investigated, samples taken and examined and the cause determined as from some source such as faults in installation, quite apart from our water supply. One of the most baffling was from oil used in jointing the fixtures.

Sufficient time was not found to give much attention to the sewage treatment plants, but they were all visited at various times to see that everything was going smoothly.



