

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

Contributors

Edmonton (Alta.). Board of Health.

Publication/Creation

[Edmonton] : [The Board], [1945]

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Report

of the

Local Board of Health



THE CITY OF EDMONTON

ALBERTA

1945

RCB/34l



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BOARD OF HEALTH, 1945

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 Dr. R. M. Shaw Ald. H. D. Ainlay Ald. C. E. Gariepy
 Dr. G. A. Gemeroy, Edmonton Public School Board
 Mr. J. A. Gallant, Separate School Board

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 Dr. G. M. Little, M.H.O. Mr. A. W. Haddow, City Engineer
 Catharine R. Rose, Secretary

1946

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 Dr. R. M. Shaw Mrs. Ald. E. Browne Dr. E. A. Hay Roe
 Mrs. F. C. Butterworth, Edmonton Public School Board
 Mr. J. A. Gallant, Separate School Board

EX-OFFICIO MEMBERS

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.....	John H. Blackburn
Health Inspector.....	Harry G. Chase
Health Inspector.....	George B. Hill
Health Inspector.....	Arthur P. Methuen
Health Inspector.....	Ian D. F. Shaw
Health Inspector.....	John D. Williams
Quarantine Officer.....	Robert T. Anderson
Chief Food Inspector.....	Dr. D. M. Morrison, V.S.
Dairy Supervisor.....	Cyril Ellinger
Chemist and Milk Inspector.....	Harry C. Graham, B.A.
Public Health Nurse.....	Miss M. Griffith, R.N.
Public Health Nurse.....	Miss S. C. Christensen, R.N.
Clerk.....	Miss K. D. Derbyshire
Stenographer.....	Miss M. Deagon
Stenographer.....	Miss S. Milne



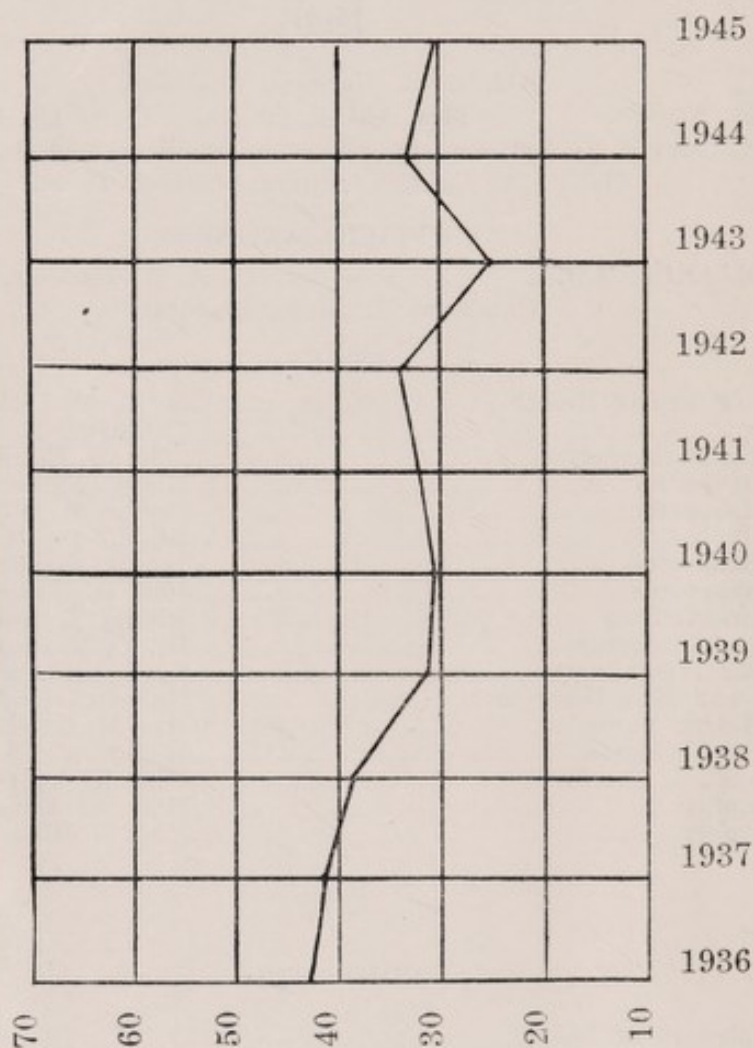
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INFANT MORTALITY

Rate per 1,000 Living Births.



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Annual Report of the Medical Officer of Health

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

Ladies and Gentlemen:

Herewith is submitted a report of the activities of the Board during the year 1945, and also a summary of work done by co-operating agencies.

Birth Rate:

The birth rate of 24.1 per 1,000 population is the highest since 1928, in which year the rate was 30.6. During this interval a low point of 16.8 was reached in the mid-depression year of 1936.

Death Rate:

There was no significant change in the general death rate from the previous year. Death from heart disease, however, showed a decided increase of 24.1 per hundred thousand population. Of the 232 citizens dying from this disease, 204 were fifty years of age or over. This reflects the strenuous efforts put forth by this older age group during the war years.

A notable increase in deaths from diabetes, particularly in citizens past middle age, suggests the need for periodic medical examination for that age group so that this insidious disease, amongst others, may be detected while effective treatment may be instituted.

Deaths from accidents showed a marked increase in number and variety. Automobile accidents again take the lead with eleven deaths from this cause. Unless we can educate our citizens to greater caution, this toll is likely to increase as more motor cars become available to the public.

Communicable Diseases:

A marked reduction in cases of communicable disease occurred during 1945. Only two cases and five carriers of diphtheria were reported. This is warning to parents, however, that this deadly disease is still able to threaten, and that no child is safe until immunized against it.

Pulmonary tuberculosis still remains the greatest killer amongst our communicable diseases, with twenty-eight deaths. Almost all these victims were in the prime of life. This tragedy may quickly be abated if our citizens will avail themselves of the X-ray clinic survey periodically offered free to all by the Provincial Tuberculosis Service. Early diagnosis is our greatest assurance of cure.

Of forty-three deaths from pneumonia, eleven were in the very young, under one year of age, and twenty-nine were fifty years or over. At these ages, neglect of even slight respiratory disease can quickly prove disastrous.

Venereal disease has increased since the end of the war. With the excellent control service being maintained by the Provincial Hygiene Clinic, and with many more of our citizens getting settled into normal peace-time occupations, a reduction in such cases is anticipated.

Some 11,274 immunization procedures were carried out in our immunization clinic which operates every business day of the year. This work has reached the level where few babies and pre-school children are presented at the welfare clinic who have not had some protection. These, coupled with immunization done by school medical services, are steadily bringing certain communicable diseases under satisfactory control.

Child Welfare:

Our infant mortality rate of 31.1 per 1,000 living births compares favorably with other centres of the Dominion, but we believe that a still greater saving of babies is possible.

Premature birth remains the greatest single cause of infant deaths. Many of these may be prevented if mothers will only place themselves under their physician's supervision during pregnancy.

The Baby and Pre-school Clinic, operated in co-operation with the Provincial Department of Health, has again increased the number of children served. This clinic is providing an outstanding service for protection of the health and normal development of these children from our city and the adjacent rural area.

Sanitation:

The war, with accompanying lack of equipment and need for make-shift procedures has left us with many formidable post-war problems in sanitation.

Our sanitary department has been re-organized, however, and is again at full strength. We anticipate that these problems will be gradually overcome.

Our veterinarian continues to inspect all meats slaughtered in the two local abattoirs. Tuberculous pork remains the greatest single cause of condemnation. Our information in this respect is transmitted to the provincial officers concerned with such problems.

Our milk supply has been threatened by shortage during 1945. An adequate and safe milk supply made readily available to all families is an outstanding factor in protection of the health of our people, particularly our young people. It is to be hoped that the Dominion Government will consider this fact in their reported contemplation of removal of their subsidy on this product.

General:

The end of the war has increased rather than decreased our problems in public health. Housing remains a pressing and troublesome problem. Shortages in many varieties of sanitary equipment have added difficulty to the situation. However, with the co-operation of our citizens, without which any civic service must fall short, and with a continuation of the reasonable tolerance which our citizens displayed during the difficult war years, these difficulties will be overcome to the great advantage of the public health.

We are grateful for the co-operation and assistance of officials of the Provincial Department of Health, and of the Provincial Laboratory who have made their services so freely available to us.

Respectfully submitted,

G. M. LITTLE,

Medical Officer of Health.

EXPENDITURE

1. Salaries	\$ 36,394.23	\$ 36,401.83
2. Supplies	1,077.61	1,029.15
3. Transportation	5,360.69	5,295.58
4/6. Telephones, Sundries, Uniforms.....	882.24	1,187.24
7. Pensions	3,071.52	2,501.24
Bathhouse included in a/c 1 and 2)		
	\$ 46,786.29	\$ 46,415.76

REVENUE

Permits	\$ 643.00	
Meat Inspection	1,168.70	
License Department	1,500.00	
	\$ 3,311.70	3,311.70
		3,456.85
	\$ 43,474.59	\$ 42,958.91

EXPENDITURE—CLASSIFIED—1945

	Administration	Communicable Disease	Dairy Inspection	Food Inspection	Laboratory Service	Public Health Nursing	Sanitation	Vital Statistics	Bath House	TOTALS
1. Salaries.....	\$ 7,245.40	\$3,190.90	\$2,453.93	\$3,079.99	\$2,803.81	\$3,631.76	\$12,671.64	\$1,000.63	\$316.17	\$36,394.23
2. Supplies.....	726.74	63.90	9.00		65.93		18.72	83.54	109.78	1,077.61
3. Transportation.....	512.08	1,197.76	829.88	240.00	409.03	493.37	1,678.57			5,360.69
4. Telephones.....	119.20	65.76	18.00	17.76	20.64	17.88	97.15			356.39
5. Sundries.....	70.01	185.30		62.48	20.78	29.76	48.81			417.14
6. Uniforms.....				24.46		18.00	66.25			108.71
7. Pensions.....	3,071.52									3,071.52
	\$11,744.95	\$4,703.62	\$3,310.81	\$3,424.69	\$3,320.19	\$4,190.77	\$14,581.14	\$1,084.17	\$425.95	\$46,786.29
	25.1%	10.1%	7.2%	7.4%	7.1%	8.8%	31.2%	2.3%	.9%	100%
	25.1	10.1	7.2	7.4	7.1	8.8	31.2	2.3	.9	100

SUMMARY OF STATISTICS

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

	1945	1944	1943	1942	1941
Population.....	111,745	108,416	105,536	96,725	92,404
Persons per acre of land.....	4.1	4.0	3.9	3.8	3.6
Cost per capita.....	.41	.39	.38	.42	.41
School enrolment.....	17,714	17,623	17,337	17,315	17,536
Natural increase of population.....	1,831	1,622	1,629	1,260	1,083
Total births.....	4,726	4,286	4,083	3,526	3,230
Resident births only.....	2,695	2,447	2,443	1,972	1,805
Rate per 1,000 population.....	24.1	22.6	23.1	20.3	19.9
Total stillbirths.....	83	61	67	55	67
Resident stillbirths only.....	53	39	33	39	28
Rate per 1,000 births.....	19.6	15.9	13.2	19.3	15.5
Total deaths.....	1,425	1,498	1,342	1,195	1,205
Resident deaths only.....	864	825	841	712	722
Rate per 1,000 population.....	7.7	7.5	7.7	7.3	7.8
Total deaths under 1 year of age.....	159	159	124	127	110
Resident deaths under 1 year of age.....	84	82	62	68	58
Rate per 1,000 living births.....	31.1	33.5	25.4	34.5	32.1
Maternal deaths (city only).....	6	3	4	1	3
Rate per 1,000 births.....	2.22	1.25	1.63	.25	1.66
Marriages.....	2,098	1,839	1,640	1,590	1,425
Rate per 1,000 population.....	18.8	17.4	17.6	23.0	21.6

VITAL STATISTICS

Births

	1945	1944
Total births	4,726	4,286
Resident births only	2,695	2,447
Male	1,392	1,255
Female	1,303	1,192
Attended by Physician	2,690	2,438
Attended by Nurse	1	6
Unattended	4	3
Double births	39	26

Born in Institutions—2,685 or 99.6%; elsewhere, 10.

Maternal Parentage:

	1945	1944
Canada	2,160 or 80.2%	1,969 or 80.5%
British Isles	215 or 8.0%	182 or 7.4%
Europe and Asia	91 or 7.9%	127 or 5.2%
U.S.A.	212 or 3.3%	163 or 6.7%
Other countries	17 or .6%	6 or .2%

Stillbirths

	1945	1944
Total stillbirths	83	61
Resident only	53	41
Male	24	18
Female	29	23
Born in institutions	53	41
Born elsewhere	---	---

Cause of Foetal deaths:

	1945	1944
Dystocia	20	27
Prematurity	6	3
Toxaemia of pregnancy	2	3
Malformation	11	4
Placenta and membranes	3	---
Other conditions	11	4

Deaths

	1945	1944
Total deaths	1,425	1,498
Resident deaths only	864	825
Male	519	481
Female	345	344

Racial Origin

	1945	1944
Canada	326 or 37.8%	289 or 35.0%
British Isles	325 or 37.7%	320 or 38.8%
Europe and Asia	125 or 14.3%	137 or 16.6%
U.S.A.	60 or 7.0%	57 or 6.9%
Others	28 or 3.2%	22 or 2.7%

Infant Mortality

	1945	1944
Total deaths under 1 year of age	159	159
Resident deaths under 1 year of age	84	82
Male	52	43
Female	32	39
Infant mortality rate per 1,000 living births	31.1	33.5

INFANT MORTALITY—1945

	SEX		BY MONTH												BY AGE									
	Male	Female	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
33b—Influenzal meningitis.....	1	1			1																	1		
81—Meningitis streptococcus.....	1	1		1																		1		
83d—Prematurity associated with Jaundice.....	1	1																		1				
84a—Mental deficiency.....	1	1					1																	
106a—Acute Bronchitis.....	1	1																						
107—Bronchopneumonia.....	8	7		1	3	1																1	3	1
109—Pneumonia (unspecified).....	3	1		1	1	1	1															1		
119a—Diarrhoea and Enteritis.....	8	5	2			1		1			3		1				1	1			2	4	2	
156b—Diseases of other, and unspecified organs of movement.....	1	1							1															
157a—Congenital Hydrocephalus.....	4	1		1	2								1				4				1			
157b—Spina bifida and Meningocele.....	2	2											1			2				2				
157d—Other congenital malformations of central nervous system.....	1	1				1											1			1				
157e—Congenital malformations of heart.....	6	4					3		1			1					1	1		2	4			
158—Congenital debility (cause not stated).....	1	1				1										1				1				
159—Premature birth.....	26	15	1	1	5	6	3	4	3	1	1		1		19	3	1	2		25	1			
160a—Intracranial or spinal haemorrhage.....	3	1			1										1	2					2	1		
160c—Other injuries at birth.....	2	2										1	1		1	1								
161a—Asphyxia (cause not stated) Atelectasis.....	7	6	1			2		3		1	1	1	1		2	3	1			6	1	1		
161c—Erythroblastosis.....	1	1													1									
180—Conflagration.....	1	1																						
182—Accidental mechanical suffocation.....	3	2						1				1									3			
195d—Obstruction, suffocation, puncture ingested objects.....	1	1				1																1		
200a—Ill-defined.....	1	1										1											1	
TOTALS.....	84	52	32	5	6	13	13	8	6	2	5	6	6	6	25	12	10	3	2	50	20	11	2	1

ABRIDGED INTERNATIONAL CLASSIFICATION OF CAUSES OF DEATH, 1915 (Continued)

	Total	M	F	Under 1	1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
29. Diarrhea and Enteritis.....	M 11	8	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30. Appendicitis.....	M 1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31. Diseases of liver and biliary passages.....	M 13	5	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32. Other diseases of digestive system.....	M 10	7	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33. Nephritis.....	M 17	11	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34. Other diseases of urinary and genital systems.....	M 6	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35. Puerperal infection.....	M 2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36. Other diseases of pregnancy, childbirth, and puerperium.....	M 4	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37. Diseases of skin, cellular tissue, bones and organs of movement.....	M 3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38. Congenital malformations and debility, premature birth, diseases peculiar to first year of life.....	M 55	33	22	21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39. Senility.....	M 17	5	12	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40. Suicide.....	M 9	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42. Automobile accidents.....	M 11	8	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43. Other violent or accidental deaths.....	M 39	29	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44. Causes of death ill-defined, unknown, or unspecified.....	M 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total Male.....	519	52	3	2	3	1	4	2	5	2	8	6	11	22	20	40	33	62	60	65	53	33	27	5	1	1	1	1
Total Female.....	345	32	1	1	1	1	1	1	3	6	14	8	10	11	15	14	29	32	37	25	38	37	16	11	1	1	1	1
Total Deaths.....	864	519	345	84	4	3	3	1	5	8	22	14	21	33	35	54	62	94	97	90	91	70	43	16	1	1	1	1

PRINCIPAL CAUSES OF DEATHS—1945

1945						1944				
	Total	Male	Female	% of Total Deaths	Rate per 100M Population	Total	Male	Female	% of Total Deaths	Rate per 100M Population
90—95 Diseases of the heart	232	155	77	26.8	207.6	199	134	65	24.1	183.5
45—55 Cancer and other malignant tumors	148	91	57	17.1	123.5	132	68	64	16.0	121.7
83 Intracranial lesions of vascular origin	93	38	55	10.7	83.2	84	46	38	10.1	77.5
157—161 Congenital debility, premature birth, diseases peculiar to first year of life, congenital malformations	55	33	22	6.3	49.3	45	27	28	5.3	41.5
107—109 Pneumonia and broncho-pneumonia	59	42	17	6.8	52.8	40	31	9	4.8	36.8
163—198 External causes	43	30	13	4.9	39.3	41	25	16	4.9	37.8
13—22 Tuberculosis, all forms	28	18	10	3.2	25.0	26	15	11	3.1	23.9
61 Diabetes mellitus	25	9	16	2.9	23.2	19	8	11	2.3	17.5
130—132 Nephritis	17	11	6	1.9	15.2	48	24	14	5.7	44.2
162 Senility	17	5	12	1.9	15.2					
TOTALS	717	432	285	81.8						

MORTALITY FROM HEART DISEASE

Year	Total Deaths	Deaths From Heart Disease	Percentage of Total Deaths	Rate per 100M Population
1945	864	232	26.8	207.6
1944	825	199	24.1	183.5
1943	814	202	24.8	191.4
1942	712	197	27.7	203.4
1941	722	166	23.0	179.4

MORTALITY FROM CANCER

Year	Total Deaths	Deaths From Cancer	Percentage of Total Deaths	Rate per 100M Population
1945	864	148	17.1	123.5
1944	825	132	16.0	121.7
1943	814	121	15.0	114.7
1942	712	111	15.6	114.4
1941	722	105	14.8	113.5

MORTALITY FROM INTRACRANIAL LESIONS OF VASCULAR ORIGIN

Year	Total Deaths	Deaths From This Cause	Percentage of Total Deaths	Rate per 100M Population
1945	864	93	10.7	83.2
1944	825	84	10.1	77.5
1943	814	74	9.0	70.4
1942	712	62	8.7	63.9
1941	722	72	10.0	77.8

MORTALITY FROM PNEUMONIA

Year	Total Deaths	Deaths From Pneumonia	Percentage of Total Deaths	Rate per 100M Population
1945	864	43	4.9	39.3
1944	825	41	4.9	37.8
1943	814	47	5.8	44.5
1942	712	32	4.6	33.0
1941	722	31	4.3	33.5

MORTALITY FROM TUBERCULOSIS

Year	Total Deaths	Deaths From Tuberculosis	Percentage of Total Deaths	Rate per 100M Population
1945	864	28	3.2	25.0
1944	825	26	3.1	23.9
1943	814	20	2.4	18.9
1942	712	24	3.3	24.7
1941	722	26	3.6	28.1

MORTALITY FROM EXTERNAL CAUSES

Year	Total Deaths	Deaths From External Causes	Male	Female	Suicide	Homicide	Automobile Accidents	Other Accidents	Percentage of Deaths	Rate Per 1000 Population
1945	864	59	42	17	9	---	11	39	6.8	52.8
1944	825	40	31	9	9	---	9	22	4.8	36.8
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

ISOLATION HOSPITAL

Six hundred and fifty-six patients were admitted, 77 were carried over from 1944 making a total of 733. There were 648 discharged, 15 died and 70 remained in hospital at the end of the year.

The diseases hospitalized included:

Scarlet Fever	382	Whooping Cough	20
Scarlet Fever suspects	9	Vincent's Angina	8
Diphtheria	12	Septic Sore Throat	13
Diphtheria carriers	8	Other conditions	85
Meningitis (Meningococcic)	5	The deaths included:	
Tuberculosis	29	Tuberculosis	3
Poliomyelitis	5	Meningitis (T.B.)	3
Poliomyelitis suspect	5	Vincent's Angina	1
Erysipelas	21	Diphtheria	1
Measles	10	W. Cough and Pneumonia	1
Mumps	38	Other conditions	6
Chickenpox	4		
Rubella	2		

SCHOOL MEDICAL SERVICES

	Public School Board	R.C. Separate School Board
Complete examinations	5242	684
Number reported with defects	1927	117
Number reported without defects	3315	567
Parents present at examination	3509	60
Homes visited by nurses	593	63
Talks to classes	190	---

IMMUNIZATION

	Smallpox	Diphtheria	Scarlet Fever	Whooping Cough	Typhoid Fever	Tetanus	Schick Test	Dick Test
1945								
Board of Health (cases)	611	1161	436	1262	47	2	82	71
Board of Health (doses)	611	3584	2250	4515	159	2	82	71
Public School Board (cases)		2320						
Public School Board (doses)		3771						
Separate School Board (cases)	461	324						
Separate School Board (doses)	461	947						
Total Cases	1072	3805	436	1262	47	2	82	71
Materials distributed to Private Physicians	454	517	35	352	14		1	1
1944								
Board of Health (cases)	857	1346	1205	1484	47	0	109	103
Board of Health (doses)	857	4156	6122	4938	130	0	109	128
Public School Board (cases)	2848	3548						
Public School Board (doses)	2848	5153						
Separate School Board (cases)	240	191						
Separate School Board (doses)	240	591						
Total Cases	3945	5121	1205	1484	47		109	128
Materials distributed to Private Physicians	412	1062	49	695	6	0	3	1

COMMUNICABLE DISEASE, 1941-1945

	1945		1944		1943		1942		1941	
	C	D	C	D	C	D	C	D	C	D
Actinomycosis							2			
Chickenpox	1389		1793		745		726		1039	
Diphtheria	2		5		11	1	7	2	4	
Diphtheria carriers	5		16		12		4		1	
Dysentery					2					
Encephalitis Lethargica		1			3					
Erysipelas	19		17		18		17		31	
Influenza		2		6		11		8		9
Measles	444		2420		1926	1	673		1631	
Meningitis (meningococcal)	4		3	2	9	2	3	1	16	1
Mononucleosis (infectious)			1							
Mumps	1880		397		1076		2006		499	
Paratyphoid Fever			1		1		1		4	1
*Pneumonia (lobar)	2	15		9		11		6	3	7
Polio-myelitis			5		7				15	
Puerperal Septicaemia				1						1
Rubella	277		77		330		653		3266	
Scarlet Fever	374		1010	1	513	2	512		198	
Septic Sore Throat	7		4		8		24		23	
Tuberculosis (Pulmonary)	64	26	69	20	133	15	68	17	47	23
Tuberculosis (other forms)		2	2	6	4	5	6	7	3	3
Typhoid Fever	2				1				3	1
Undulant Fever	3		1						2	
Vincent's Angina	28	1	20		1		1			
Whooping Cough	237		222	2	856	2	356	1	166	

Venereal Disease—

G.C. Vaginitis	12		4		3					
G.C. Ophthalmia					1					
Gonorrhoea	479		308		209		155		218	
Syphilis	108	5	74	6	38	7	74	5	79	8
Type Undetermined	5									
	5341	53	6449	53	5908	57	5287	47	7248	54
Morbidity per 1,000 population	47.6		60.3		56.0		54.5		78.3	

C—Cases.

D—Deaths.

During 1945 reportable disease was responsible for 53 or 6.1 of the 864 City deaths.

Of the 51 adult deaths from communicable disease, 27 were due to all forms of Tuberculosis and 5 to Syphilis.

Of the 5,341 cases of communicable disease—1,800 or 35.2% were due to Mumps, and 1,389 or 26.0% were due to Chickenpox. Scarlet Fever with 374 cases accounted for 7.2% of the communicable disease cases.

	No. of Cases	Percent of Cases	No. of Deaths	Percent of Deaths
Pre-school cases—1-5 years	1245	23.4	1	1.9
School Cases—6-14 years	2734	51.3	1	1.9
Over 15 years	1219	22.5	51	96.2
Age not stated	77	1.5		
Armed Forces	66	1.3		

*—Incomplete Reporting.

COMMUNICABLE DISEASE BY AGE, 1945

	City Cases	Male	Female	Under 1	1/4	5/14	15/19	Over 20	Not Stated	Armed Outside Forces Cases
Actinomycosis.....	1389	693	696	57	380	856	41	41	7	1
Chickenpox.....	2	.....	2	.....	.....	.....	.....	.....	.....	17
Diphtheria.....	5	4	1	.....	.....	1	.....	1	.....	10
Diphtheria carriers.....	19	13	6	3	1	4	.....	.....	1	3
Erysipelae.....	2	1	1	.....	.....	1	.....	11	3	6
*Lobar Pneumonia.....	444	201	243	39	201	159	11	23	3	15
Measles.....	4	1	3	1	2	.....	.....	1	.....	7
Meningitis (meningococcal).....	1880	900	980	8	245	1233	141	198	31	11
Mumps.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Paratyphoid.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6
Polio-myelitis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Rubella.....	277	117	160	6	56	162	22	28	2	1
Scarlet Fever.....	374	182	192	1	112	189	26	42	2	8
Tuberculosis (pulmonary).....	64	39	25	.....	.....	1	4	58	1	58
Tuberculosis (other forms).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22
Typhoid Fever.....	2	1	1	.....	.....	.....	1	1	.....	1
Undulant Fever.....	3	3	.....	.....	.....	.....	.....	.....	.....	.....
Vincent's Angina.....	28	22	6	.....	2	.....	2	2	1	1
Whooping Cough.....	237	116	121	26	93	113	1	3	21	2
Septic Sore Throat.....	7	3	4	.....	2	1	1	3	1	14
Veneral Diseases—										
Gonorrhoea.....	479	253	226	3	.....	8	79	371	18	.....
Syphilis.....	108	59	49	2	.....	.....	4	95	7	.....
Vaginitis.....	12	.....	12	1	3	6	1	1	.....	4
Type undetermined.....	5	4	1	.....	.....	.....	.....	4	1	.....
TOTALS.....	5341	2612	2229	147	1098	2734	334	885	77	66
										192

DEATHS:

Erethralitis Lethargica.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
Influenza.....	2	.....	2	1	.....	.....	.....	1	.....	.....
Pneumonia (lobar).....	15	12	3	.....	.....	.....	1	14	.....	.....
Syphilis.....	5	4	1	.....	.....	.....	.....	5	.....	.....
Tuberculosis (pulmonary).....	26	18	8	.....	.....	.....	1	25	.....	.....
Tuberculosis (other forms).....	2	1	1	.....	.....	1	.....	1	.....	.....
Vincent's Angina.....	1	.....	1	.....	.....	.....	.....	1	.....	.....
TOTALS.....	52	36	16	1	1	1	2	48	.....	.....

*Incomplete reporting.

COMMUNICABLE DISEASE BY SEASON AND SEX, 1945

	City Cases	Male	Female	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Outside Cases
Actinomycosis.....	1389	693	696	111	66	50	50	70	208	234	108	59	153	151	124	1
Chickenpox.....	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17
Diphtheria.....	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	10
Diphtheria carriers.....	19	13	6	1	2	2	1	4	2	1	1	1	3	1	2	3
Erysipelas.....	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6
*Lobar Pneumonia.....	444	201	243	12	19	23	37	69	118	49	21	18	2	17	59	15
Measles.....	4	1	3	1	1	1	1	1	1	1	1	1	1	1	1	7
Meningitis (meningococci).....	1880	900	980	86	163	270	276	241	149	74	47	45	106	185	238	14
Mumps.....	277	117	160	7	7	6	32	47	111	47	6	3	4	7	7	6
Paratyphoid.....	374	182	192	54	37	42	28	28	13	11	7	26	35	57	36	58
Polioomyelitis.....	7	3	4	1	1	2	1	1	1	1	1	1	1	1	1	2
Rubella.....	64	39	25	14	10	5	5	4	1	2	4	9	5	5	5	22
Scarlet Fever.....	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Septic Sore Throat.....	28	22	6	3	3	3	5	1	4	1	10	1	2	2	2	2
Tuberculosis (Pulm.).....	237	116	121	30	42	52	31	22	8	5	13	7	7	7	14	14
Tuberculosis (others).....	479	253	226	41	28	31	41	31	50	37	39	48	51	50	52	52
Typhoid Fever.....	108	59	49	9	15	8	11	9	9	11	10	5	7	10	4	4
Undulant Fever.....	12	12	1	1	1	1	1	1	1	1	1	1	1	1	1	4
Vincent's Angina.....	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Whooping Cough.....	5341	2612	2229	362	390	497	524	536	654	471	267	227	384	486	547	192
Veneral Disease—																
Gonorrhea.....	479	253	226	41	28	31	41	31	50	37	39	48	51	50	52	52
Syphilis.....	108	59	49	9	15	8	11	9	9	11	10	5	7	10	4	4
Vaginitis.....	12	12	1	1	1	1	1	1	1	1	1	1	1	1	1	4
Type undetermined.....	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTALS	5341	2612	2229	362	390	497	524	536	654	471	267	227	384	486	547	192

DEATHS:

Encephalitis Lethargica.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Influenza.....	2	2	3	1	1	1	1	3	1	2	1	1	1	2	2	2
Pneumonia (lobar).....	15	12	3	1	1	1	1	1	1	1	1	1	1	1	1	2
Syphilis.....	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	3
Tuberculosis (pulm.).....	26	18	8	4	3	2	5	2	1	1	2	1	2	1	1	3
Tuberculosis (other forms).....	2	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	1
TOTALS	52	36	16	6	5	5	7	6	2	3	2	3	3	3	3	7

* Incomplete Reporting.

TUBERCULOSIS CONTROL

Kinsmen's Club Service:	1944	1944
Total visits by nurse	3381	3986
Visits to T.B. cases	664	736
Visits to suspect cases	68	99
Visits to contact cases	2365	2803
Not seen, moved, etc.	59	.....
Co-operative visits	225	237

Provincial Tuberculosis Division:

Examinations—

Active cases	119	109
Suspects	99	29
Contacts	306	370
Non-contacts	1013	1155
Total Examinations	2397	2056
Total X-rays	2161	1913
Tuberculin tests made	1128	1268
Tuberculin tests, positive	449	435

PUBLIC HEALTH NURSING

Child Welfare

Early in May our offices were moved from the old Telephone Building to our present quarters in the New Market Building. Our offices are clean, bright and comfortable.

The clinics were well attended throughout the year, eighteen hundred and four new cases were admitted, which number exceeds that of any other year.

One hundred and sixty-six out-of-town cases were in attendance and thirty-two letters were written regarding the care and feeding of infants.

	1945	1944	1943	1942	1941
Number of clinics held	200	200	150	101	83
Babies in attendance (under 2 years) ..	6208	6198	5649	4905	3783
Pre-school in attendance	1212	1158	1067	1146	972
Total	7420	7356	6716	6051	4755
Average	37	37	45	60	49
New cases admitted, babies	1523	1378	1320	1119	899
New cases admitted, pre-school	281	262	240	61	202
Babies referred to family doctor	9	25	31	21	28
Pre-school referred to family doctor	16	20	36	24	20
Re-admitted babies	10	11	.....	.....	.....
Re-admitted pre-school	81	81	.....	.....	.....

Our thanks are due to Dr. Folinsbee, Dr. Newell and Dr. Collins for their untiring efforts on behalf of the service.

BSc. and Public Health students were with us for observation and field work, also students from the Royal Alexandra hospital.

One thousand, eight hundred and fifty-eight visits were made by the nurses, made up as follows: Babies—1,487; Pre-school—365; Pre-natal—6.

Victorian Order of Nurses

	1945	1944	1943	1942
Pre-natal visits	422	545	347	399
Obstetrical (nursing care)	8	19	87	77
Obstetrical (advice)	1182	1147	1157	693
Newborn (nursing care)	559	666	743	453
Newborn (health supervision)	1654	1373	1287	857
Pre-natal clinics	51	49	46	49
Total attendance	768	982	658	500
Average attendance	15	20	14	10
Mothers enrolled	136	.....	.....	.....

HEALTH INSPECTIONS

INSPECTIONS:

	1945	1944
Dwellings	9,479	10,214
Hotels, lodging houses, apartment blocks.....	1,147	1,133
Schools, blocks, public buildings.....	38	68
Stores, business establishments	965	588
Food handling establishments.....	2,598	3,190
Garbage cans, etc	1,970	1,984
Streets, lanes, yards, dumps, etc.....	2,186	2,544
Miscellaneous	3,188	2,576
	<u>21,571</u>	<u>22,297</u>
Re-inspections	4,552	3,605
Visits assisting Quarantine Officer	55	2,069

NOTICES:

Written	2,042	1,886
Verbal	4,895	4,974
Garbage	1,038	595
	<u>7,975</u>	<u>7,455</u>

COMPLAINTS:

Received from public	602	903
Justified	565	862
Received from other departments	27	38
Referred to other departments	52	111

The complaints were made up as follows:

Garbage, streets, lanes, etc.	186	271
Vermis	147	219
Housing, plumbing and drainage	190	245
Food and drink	29	41
Miscellaneous	50	127

LICENSES:

License applications investigated	2,392	2,304
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PLUMBING:

Sewer and water notices issued	7	18
Sewer and water installed, buildings removed, etc.....	35	31
Extension of time granted	30	38
Plumbing permits issued	1,244	986
Plumbing permits issued for old buildings.....	44	35
Alterations to existing plumbing (fixtures).....	1,232	1,173
Privies eliminated through installation of plumbing.....	44	35
Number of septic tanks installed.....	5	....

DISINFESTING STATION:

	1945	1944
Baths	4,005	4,129
Verminous		6
Scabies	409	315
Disinfested	411	321
No. of Men Washing Clothes.....	2,504	2,846
Units Washed	7,206	8,538
Articles sterilized for the Army.....	2,425	3,579

SCAVENGING CLEAN-UP WORK:

Refuse removed during Clean-up Week (cubic yards)	8,140	3,546
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ANIMALS, BARNS, STYES:

Cow owners	392	481
Hog Owners	103	151
Goat owners	38	56
Fur Farm owners	64	58

FOOD:

Samples submitted to Provincial Laboratory.....	12	16
Foodstuffs condemned (lbs.)	1,588	2,863

WATER:

Water samples taken	14	19
Negative	14	8
*Positive	3	14
*Suspicious	---	---
Wells chlorinated	2	11
Wells placarded	1	4
Ice samples	2	2

*—Wells condemned or further samples taken after chlorination.

HOUSING:

9,479 dwellings and 1,147 hotels, lodging houses, apartment blocks, etc., were inspected for overcrowding, vermin and other insanitary conditions. Necessary notices were issued.

POISON GAS FUMIGATION:

Vermin were eliminated from 283 dwellings and blocks by hydrcocyanic acid gas. Inspections were made of all premises before and after fumigation, and the inhabitants warned regarding removal of all foodstuffs, etc.

ENFORCEMENT OF REGULATIONS:

Prosecutions	3	1
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During the year, three prosecutions were instituted. One was against a lady for maintaining a nuisance on her property. This was satisfactorily rectified, the nuisance being disposed of.

The second was a prosecution for maintaining horses in an insanitary condition. The defendant was fined twenty dollars (\$20) and costs, and told not to repeat the nuisance.

The third was for keeping a cow in the prohibited zone. A conviction was obtained and a fine of three dollars (\$3) and costs imposed. The animal has been removed from the city.

FOOD INSPECTION

MEATS INSPECTED AND CONDEMNED

Beef:

	1945	1944	1943
No. of carcasses inspected	2,623	3,206	3,754
Carcasses condemned	37	26	32
Portions condemned	189	293	343
Weight (lbs.) of carcasses and portions condemned....	19,960	19,285	18,100

Veal:

No. of carcasses inspected	2,075	2,137	2,141
Carcasses condemned	3	5	3
Portions condemned	32	55	41
Weight (lbs.) of carcasses and portions condemned....	1,245	1,640	778

Mutton:

No. of carcasses inspected	1,634	1,850	1,132
Carcasses condemned	13	17	6
Portions condemned	59	102	22
Weight (lbs.) of carcasses and portions condemned....	815	1,130	380

Pork:

No. of carcasses inspected	4,656	3,721	5,396
Carcasses condemned	58	57	85
Portions condemned	1,399	978	1,251
Weight (lbs.) of carcasses and portions condemned	28,305	22,710	31,545

Totals:

No. of carcasses inspected	10,988	10,914	12,423
Carcasses condemned	111	105	126
Portions condemned	1,679	1,428	1,657
Weight (lbs.) of carcasses and portions condemned....	50,325	44,765	50,803

CARCASSES FOUND TO BE INFECTED WITH T.B.

Beef:

Infected	13	8	19
Percent	.495	.230	.506

Pork:

Infected	712	524	749
Percent	15.29	14.08	13.88

CHIEF CAUSES OF CONDEMNATION, 1945

Beef:

	Carcasses	Portions	Weight Lbs.
Abscess		41	465
Abscess Multiple	2		775
Actinomycolosis		79	1,500
Adhesions		17	220
Bruised	9	2	4,120
Decomposition	1	18	1,750
Emaciation	4		1,575
Pleura-pneumonia	5		2,075
Tuberculosis	2	14	1,130
Oedema	1		450
Metritis	2		900
Improper Bleeding	1		525
Peritonitis	2		875
Haem. Septicaemia	8		3,300
Miscellaneous (Jaundice, parasites, contamination)....		28	300
	37	189	19,960

Veal:	Carcasses	Portions	Weight Lbs.
Abscess .....	.....	8	85
Parasites .....	.....	18	185
Bruised	2	.....	365
Not Bled	1	.....	300
Pneumonia .....	.....	1	250
Miscellaneous (Actinomycosis, adhesions, jaundice)....	.....	5	60
	3	32	1,245

Mutton:			
Bruised	2	2	125
Parasites .....	.....	57	150
Decomposition	8	.....	400
Miscellaneous (Oedema, emaciation, abscess multiple)	3	.....	140
	13	59	815

Pork:			
Abscess .....	.....	13	150
Abscess Multiple	16	.....	4,125
Adhesions .....	.....	61	855
Arthritis	6	.....	975
Bruised	1	26	815
Burnt	15	.....	2,250
Contamination .....	.....	85	1,550
Emaciation	1	.....	350
Parasites .....	.....	228	550
Tuberculosis	9	874	13,140
Decomposition .....	.....	112	1,345
Miscellaneous (Peritonitis, sexual odor, not bled, bull nose, dying condition)	10	.....	2,200
	58	1,399	28,305

DISEASED ANIMALS

	1945	1944	1943
Beef	164	238	304
Veal	26	48	40
Mutton	22	102	11
Pork	770	674	924
Total amount of meat condemned	50,325	44,765	50,803

FOODSTUFFS CONDEMNED BY INSPECTORS

	1945	1944	1943
Canned goods	15	.....	4
Meat .....	.....	61	12
Fruit and Vegetables	154	105	.....
Fish	1,140	.....	.....
Ice Cream .....	.....	.....	5
Sundries	29	80	38
Damaged by Fire .....	.....	2,424	.....
Poultry	250	193	103
Total (lbs.)	1,588	2,863	51,488

DAIRY INSPECTION

1945

Certificates issued Producer-distributors, raw milk	20
Certificates issued Producer-shippers, milk	263
Certificates issued Producer-shippers, cream	28
Certificates issued Pasteurization Plants	5
Inspections of Producer-distributors' Dairies	73
Inspections of Producer-shippers' Dairies	784
Inspection of Pasteurization Plants	56
New Dairy Barns erected	9
Dairy Barns remodelled	6
New Milk Houses erected	24
Certificates suspended temporarily	124
Certificates suspended indefinitely	1
Applications for certificates of registration refused.....	
Certificates issued to retail distributors	400
Permits issued to cowkeepers in the city	452
Reduction tests, milk	12,879
Reduction tests, cream	27
Sediment tests	789
Butterfat tests	913
Phosphatase tests	265
Bacterial plate counts, milk	676
Bacterial plate counts, ice cream	45
Chlorine tests at dairy farms.....	20
Dairy cattle privately tested for Bang's disease.....	538
Well water samples taken at dairy farms.....	
Milk cans condemned	
Written notices to dairy premises	316
Educational circulars to cream producer-shippers.....	
Prosecutions	

During 1945 the number of producer-distributors of raw milk decreased from twenty to fifteen.

LABORATORY REPORT

During the year the testing and supervision has been carried out much along the same lines as previously, although the increase in the number of Methylene Blue tests and the uncertainty of times of getting the samples has precluded much other work. Our milk consumption is still maintained at an all time high, and trouble is still experienced in obtaining sufficient milk of satisfactory quality to meet our demands. A further decrease is noted in the number of retailers, but wholesale shippers are still increasing.

There were 789 retail samples taken during the year. All these samples were examined for butter fat content, solids-not-fat, sediment and flavor. Methylene blue tests were also run on all these samples. Over half the samples were also submitted to test for bacteria count, those exceeding 50,000 being given a recount as soon as possible. The pasteurized milk was also tested at least twice a month by the Phosphatase test.

A summary of this work is given in the tables below. In the first table the retail milk samples are classified as in previous reports. The ten examinations which were spoiled by the growth of spreaders are of course excluded in calculating the proportion in each group.

Table No. 1, Retail Milk Samples—Bacteria Counts

	Special	15,000/ 40,000	40,000/ 100,000	100,000/ 300,000	Over	Spreader	Total
January	32	8	4	6	.....	1	51
February	37	5	7	.....	.....	.....	49
March	32	9	2	2	.....	.....	45
April	34	7	2	.....	1	.....	44
May	44	9	2	3	.....	1	59
June	34	4	6	.....	1	1	46
July	21	12	5	5	2	.....	45
August	22	14	4	4	3	3	50
September .....	.....	.....	.....	.....	.....	.....	.....
October	14	18	4	1	.....	1	38
November	26	10	8	1	.....	.....	45
December	26	7	7	.....	.....	3	43
	322	103	51	22	7	10	515
Percentage	63.8	20.4	10.1	4.3	1.4		100

These results are also shown broken down into various ways in the following table:

Table No. 2

	Special	15,000/ 40,000	40,000/ 100,000	100,000/ 300,000	Over	Spr.	Total
Raw Milk	83-39.0%	66-31.0%	41-19.2%	16-7.5%	7-3.3%	7	220
Pasteurized	140-83.8	17-10.2	6- 3.6	4-2.4	.....	3	170
Jersey	56-78.9	12-16.9	2- 2.8	1-1.4	.....	..	71
Homogenized	43-79.6	8-14.8	2- 3.7	1.1.9	.....	..	54
	322	103	51	22	7	10	515

Some improvement is shown over the previous year, but results are still below our pre-war standards.

In addition samples were taken at regular intervals for the Army Supply Depot and for the C.N.R. of the various products supplied. These were examined for bacteria count, butterfat and phosphatase and as the military forces attach considerable importance to the test, for coliform organisms, this test was applied to all their samples. Thirty cream and 105 milk samples were taken during the year. A summary of these and other tests is shown in the next tabulation.

Table No. 3

	Number	Average
Retail samples, butterfat	789	3.72%
Retail samples, solids not fat	789	8.81%
Retail samples, sediment	789	9.2 %
Special creams—butterfat	30	10.1 %
Special milks—butterfat	105	3.8 %
Chocolate milks, butterfat	76	2.3 %
Phosphatase tests	223	

Table No. 4, Bacteria Counts—Special Milks and Creams

Special Creams	30—26 in Special Class
Special Milks	104—76 in Special Class
Chocolate Milks	86—52 in Special Class
Ice Cream	57—28 in Special Class
Rinse Bottles	14
Special Milks, coliform organisms	64

As previously the greater part of the work was in checking the raw milk as received at the plants. The milk collectors still are working under considerable handicap and the delivery service is far from satisfactory. Milk handling equipment in the plants also is still overloaded. As a result it has been increasingly difficult to obtain the samples in reasonable time. There were over twelve thousand samples examined of which 878 failed to make the required grade. This is a better showing than last year, but still calls for improvement. Special tests to the number of 24 were run for producers having trouble meeting our requirements to help them locate the source of their trouble. The results of all the Methylene Blue tests are as listed:

Table No. 5—Methylene Blue Tests

	Number	Under 5½ Hours
Producers' Milk	12,136	878
Retail Samples	746	4
Special Tests	24	.....

Regular inspection and supervision was given the swimming pools both City and privately owned, test apparatus and chemicals supplied as needed, and samples of swimming pool water taken for examination. There were 186 samples from the City pools of which 31 failed to meet the accepted standards. Most of these were from one pool where trouble was experienced until extensive repairs were made. None of these samples showed the presence of coliform organisms in the amounts tested so that safety was assured at all times. There were 77 samples taken from privately owned pools and again we had a number of high counts and two positive colon tests.

Samples of tap water were examined for us almost daily by the Provincial Laboratory. Out of 292 samples so tested, 252 gave counts of 10 or under while only 8 gave over 50. One sample was spoiled by growth of a spreading organism. Daily checks were made on the chlorine in the water and the close collaboration was maintained with the water treatment at all times.

Occasional visits have been made to the various sewage plants which have been carrying on satisfactorily.



