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

Contributors

Edmonton (Alta.). Board of Health.

Publication/Creation

[Edmonton]: [The Board], [1938]

Persistent URL

https://wellcomecollection.org/works/fmapwap3

License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.





The Royal Sanitary Institute

Library. REPORT

OF THE

LOCAL BOARD OF HEALTH



CITY OF EDMONTON
ALBERTA

1938

WITH THE COMPLIMENTS OF

DR. G. M. LITTLE

MEDICAL OFFICER OF HEALTH
EDMONTON

PLEASE EXCHANGE

32



BOARD OF HEALTH, 1938

Dr. R. M. Shaw, Chairman

Dr. E. A. Roe Ald. A. Bissett Dr. W. Morrish (Public School Board)
Ald. F. C. Casselman Mr. J. O. Pilon (Separate School Board)

EX-OFFICIO MEMBERS:

Mayor J. W. Fry

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

1939

Dr. R. M. Shaw, Chairman

Dr. E. A. Roe Ald. F. C. Casselman Dr. W. Morrish (Public School Board)
Ald. S. Parsons Mr. C. E. Gariepy (Separate School Board)

EX-OFFICIO MEMBERS:

Mayor J. W. Frv

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

STAFF:

Medical Officer of Health	G. M. Little, M.D., D.P.H.
Medical Officer of Health Secretary	S. Main, A.R. San, I.
Chief Health Inspector Health Inspector Health Inspector	W R Graham P San I (Cort)
Health Inspector	I U Pleakhum A D Can I
Health Ingrestor	J. H. Diackburn, A.R. San. 1.
Health Inspector	A. P. Methuen, A.R. San. 1.
Health Inspector	J. D. Williams
Health Inspector Quarantine Officer	R. T. Anderson, A.R. San, I.
Chief Food Inspector	J. H. Part, V.S., M.D.V.
Meat Inspector	D. Morrison, V.S.
Dairy Supervisor	C. Ellinger, M.R. San, I.
Chief Food Inspector Meat Inspector Dairy Supervisor Analyst Statistician	H. C. Graham, B.A.
Statistician	Miss B. B. Murray
Public Health Nurse (Sr.)	Miss M. Griffith, R.N.
Public Health Nurse (Sr.)	Miss S. C. Christensen, R.N.
Public Health Nurse	Miss H I Chisholm R N
Clerk	Miss C. R. Rose
Stenographer	Miss Dorothy Derhyshire
Junr. Inspector	Lloyd Alexander
outil thepered	Lloyd Alexander

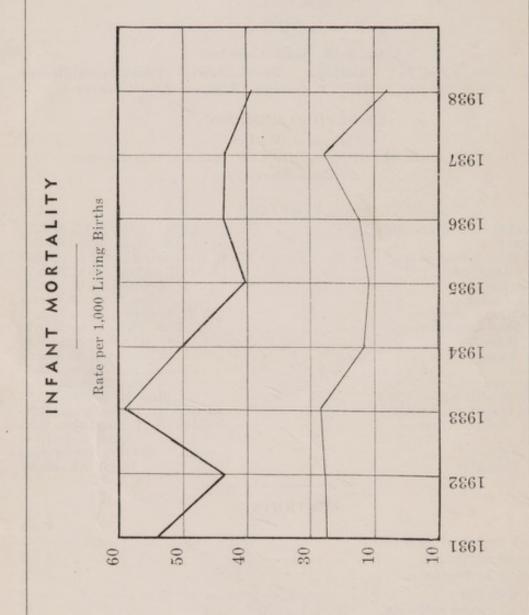
CONTENTS:

	PAGE
Annual Report of M.O.H.	3
Financial Statement	5
Summary of Statistics	5
Vital Statistics	6
Principal Causes of Death	
Infant Mortality	6, 17
International List Causes of Death	
Infant Mortality (chart)	9
Isolation Hospital	
Communicable Diseases	12
Public Health Nursing	
Health Inspection	
Food Inspection	90
Dairy Inspection	22
Laboratory Report	23

Wellcome Library

for the History
and Understanding

of Medicine



Light line—"Diseases largely preventable."

WA28 • GCZ E24 1938

Annual Report of Medical Officer of Health

Chairman and Members of the Local Board of Health.

Gentlemen:

Herewith are submitted reports from the various services conducted by this Board during 1938, and also from certain voluntary and official health agencies who have worked in co-operation with us during the year.

The general death rate showed no change from that of 1937, remaining at 7.9 per thousand. Deaths from heart disease and cancer showed moderate increase, while the increase from pneumonia was very considerable. It is expected that new treatment now available for the latter disease will reduce its mortality rate during the coming year. There was a marked reduction in the number of deaths from influenza and accidents, while the infant mortality rate was the lowest yet recorded for the city. This steadily diminishing death rate of our infants is, I believe, a reflection of the increasing pre-natal and post-natal supervision given mothers and infants by private physicians and our public health nurses.

The total number of cases of communicable diseases was increased by an epidemic of mumps, which gave 5,725 cases. This disease is mild, and no deaths or serious complications were reported. Cases of scarlet fever and measles showed marked reduction from the previous year. Eighteen cases of diphtheria were recorded during 1938. Twelve of these cases occurred in January and were directly traceable to contacts from an outside point that previously had a case of the disease in their home. Obviously, proper precautions were not taken in connection with these people, and the incident serves to illustrate the danger to our citizens when surrounding areas are not provided with proper health supervision.

The Kinsmen's Club continues its valuable service in supervision of cases and contacts of tuberculosis.

Our citizens have neglected vaccination against smallpox until a potentially dangerous situation now maintains. We are attempting to make parents aware of the need for protecting their children against this disease.

The number attending child welfare clinics was increased during the year.

The need for low cost housing continues to be an urgent problem. The present congestion in many unsuitable quarters greatly increases our problems in sanitation, communicable disease and general physical and mental health. Many complaints are received regarding housing which does not meet our health regulations. We are faced with the impossible situation of dwellings which should be condemned, but no other suitable accommodation being available to the tenants of such dwellings.

General sanitation leaves something to be desired in that numbers of our lanes are periodically strewn with garbage. This appears to be due chiefly to the lack of proper containers and failure to fix containers so they cannot be upset. We are asking householders to co-operate in overcoming this health hazard by meeting the requirements of the City by-law governing the matter. Garbage dumps within the city limits have been a source of persistent complaint. Steps are being taken for the elimination of these dumps as rapidly as practicable.

Supervision of the city's food supply, as indicated by the enclosed reports, constitutes a considerable volume of work. With few exceptions, we have re-

ceived excellent co-operation from those engaged in handling foodstuffs. The amount of food condemned as unfit for human use showed marked reduction from the previous year.

The high standard maintained in the milk supplied to our citizens is an outstanding credit to our Dairy and Laboratory branches, and an indication of the responsibile co-operation of our milk producers. Following ten cases of undulant fever which occurred amongst our citizens in 1937 and January of 1938, the Local Board of Health tested for this infection all cows from which milk was delivered directly to consumers. Reactors were removed from these dairy herds, and since this step was taken only one case of human infection has developed in the city. In this case the evidence pointed to an unauthorized milk supply as the source of the infection. We are indebted to the Provincial Laboratory for their co-operation in carrying out the technical work in connection with this problem.

This Department has co-operated with the University and Nursing schools of the city in the teaching of public health and we have made our facilities available to students for observation of practical work.

Yours respectfully,

G. M. LITTLE, Medical Officer of Health.

EXPENDITURE

	1938	1937
Salaries \$	31,106.77	\$ 31,289.60
Supplies	1,196.08	1,306.91
Transportation	5,061.74	4,844.53
Sundries	826.97	578.35
Uniforms	123.57	176.50
Retirement allowance	1,000.00	
Bath house	569.36	
\$	39,884.49	\$ 38,195.89

REVENUE

Inspection	fees		729.75	595.50
		8	39,154.74	\$ 37,600.39

DIVISION OF EXPENDITURE

	Adminis- tration	Communicable	Laboratory Service	Milk	Food	Public Health Nursing	Sanitation	Vital	Totals
Salaries	7,484.46	\$2,723.90	\$3,146.45	\$2,091.37	\$2,961.66	\$3,376.08	\$8,052.54	\$1,270.31	\$31,106.77
Bonus	1,000.00								1,000,00
Supplies	474.73	335.51	207.76	29.90	14.97	24.97	92.13	16.11	1,196.08
Transportation	440.00	526.93	505.84	1,200.00	682.50	587.38	1,119.09		5,061.74
Phones	107.70	61.20	15.00	18.00	15.00	18.00	77.40		312.30
Sundries	101.49	25.64	59.27	265.95	36.72	19.25	6.35		514.67
Uniforms		21.72			21.73		80.12		123.57
Bath House							569.36		569.36
8	9,608.38	\$3,694.90 9.3	\$3,934.32 9.9	\$3,605.22 9.1	\$3,732.58 9,3	\$4.025.68 10.1	\$9,997.00 25.1	\$1,286.42	\$39,884,49

SUMMARY OF STATISTICS

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

	1938	1937	1936	1935	1934
Population	88,887	87,034	85,696	81,621	79,773
Persons per acre of land	3.42	3.34	3.32	3.16	3.10
School enrolment	18,245	17,885	18,396	18,241	18,307
Natural Increase of population	893	892	738	776	789
Cost per capita	.44	.43	.42	.39	.42
Births, excluding stillbirths	1,602	1,565	1,432	1,394	1,383
Rate per 1,000 population	18.	18.4	16.84	17.42	17.28
Stillbirths	30	42	50	23	37
Rate per 1,000 births	18.7	26.13	33.75	16.23	26.05
Deaths, excluding stillbirths	709	673	694	618	594
Rate per 1,000 population	7.97	7.9	8.16	7.7	7.42
Deaths under 1 year of age	63	68	63	56	70
Infant mortality rate per 1,000 living					
births		43.45	44	40.17	50.61
Deaths from childbirth	4	3	6	7	5
Maternal mortality per 1,000 births.	2.5	1.9	4.18	5.02	3.6
Marriages	1,653	1,492	1,414	1,312	1,313
Rate per 1,000 population		17.55	16.63	16.40	16.4
Non-resident births in city	1,203	1,132	948	936	791
Non-resident deaths in city	472	480	443	402	325
Non-resident deaths under 1 year	40	52	33	36	34

VITAL STATISTICS

Births

There were 1,602 City births in 1938, 789 male and 813 female, an increase of 37 over 1937, when there were 1,565 births, 744 male and 821 female.

Born in institutions, 1,549, or 96.7%; born at home, 37.

Attended by physician, 1,596; attended by Victorian Order of Nurses, 37 or 49.8%; unattended, 5; double births, 15.

Maternal parentage:

	1938	1937
Canada British Isles Europe U.S.A. Other countries		1,008 or 64.5% 268 or 17.1% 174 or 11.1% 110 or 7.0% 5 or .3%
	1,602 or 100 %	1,565 or 100 %

Seventy-eight or 4.9% of the 1938 births and 82 or 5.24% of the 1937 births were illegitimate.

Stillbirths

Male, 17; female, 13; total, 30. Born in hospital, 27; at home, 3; unattended, nil. Causes of fœtal deaths:

Dystocia, 18.

Malformation, 2.

Prematurity, 3.

Other diseases or condition of mother, 7.

Deaths

Male, 414; female, 295; total, 709; an increase of 36 over 1937, when there were—male, 389; female, 284; total, 673.

	1938	1936
Canada	303 or 42.7%	328 or 48.7%
British Isles	213 or 30.0%	179 or 26.6%
Europe	123 or 17.4%	92 or 13.7%
U.S.A.	55 or 7.8%	48 or 7.1%
Other Countries		26 or 3.9%

Deaths under 1 year of age-

Male, 34; female, 29; total, 63.

Infantile mortality rate per 1,000 living births, 39.3.

In 1937 there were-

Male, 37; female, 31; total, 68.

Infantile mortality rate per 1,000 living births, 43.45.

Infant Mortality

Classifying the causes of deaths under one year of age from standpoint of preventability:

Class 1—Causes to a great extent non-controllable—premature birth (under 7 months), congenital debility, congenital malformation.

Class 2-Capable of reduction by hygiene, sanitation, isolation and treatment -tuberculosis, syphilis, acute respiratory diseases, acute infectious

Class 3—Capable of great reduction through care, proper feeding, pre-natal care-marasmus, acute gastro-enteritis, injuries at birth, premature (over 7 months).

Of the 63 cases under one year of age:

Class 1—24 or 38.1%. Class 2—13 or 20.6%.

Class 3-26 or 41.3%.

-	
8	
193	
-	
N	
- 6	
ĕ	
178	
T	
4	
14	
DEATH	
OF	
0	
- 00	
D.	
on	
0	
4	
U	
100	
OF	
0	
-	
in	
-	
-	
_	
4	
7	
0	
×	
H	
<	
Z	
24	
H	
-	
Z	
-	
0	
回	
3	
RIDGE	
H	
K	
B	
4	

		Total	M		F IIndon 1	-	0	0	2 7	4.0	10.0	00	20	00	200		1	13			1	200					B
					1		1			14	19	24	000	000	000	244	000	0.0	0000	0 00	2.0	0.0	080	000	0.00	95 1	00
1.	Typhoid and paratyphoid	1									-	-	000	6.0	00	1.1			0 0	* 0.5	6.1	6.7	90	23	46	66	
				,							-	*****						100	-					0000		****	
	The state of the s			7		-	100	111		****	******	2000	*****			_											
1		24	24					1	1			*****															
9.	Scarlet Fever																									****	
	×	1								:		****							-			-	****				
10	Whooning Cough									****	****	****	*****		1000		1000				*****	****		10111		-	2011
5	r nooping cougn			7	1			-			****													*****			
		7	-		11111	1000		1	*****	*****	*****	*****	*****														
	Diphtheria			00					64						-												
		19	6		1																						
ô	Influenza			10	-							-	:						-			4.	4,	+			
10.	Tuberculosis of the	25	11		+			-	-			4 ,		100			1		-		1000	4	-				
	wooningtown occupant		77	-				A			*****	-		1			24		-4		01						
				0			-					1	1		1	-		-	1								
11		50	9		2000					*****	1			61	1		1		1								
	Tuberculosis, other lorms			20	20000					*****	****	*****	*****				01										
		7	*		2000		***		******		*****	*****	*****		1		1		-		-						
N.	Syphilis																										
14.	Other infectious and	9	ko						0													*				-	
	parasitic diseases. P			-			500	:	1									1				7	4			-	
1.05	Cancer and other molionent	00	40								****	.,					-										
	filmoure.		1	2 2								1	14	1	201	7		9	0	9	9	01	7				2000
16	Tomonies non-malicenary or		0	10				-				*****			-		5 1	0 1				10	03	******			
40.	of which notices not entitled		N							****	-	*****	****					1	1000								
				1						*****	1	*****		*****	2000	-											
		201				*****	***		*****	*****		*****															
17.	Chronic rheumatism and gout.			04			100				-	*****	*****			1			-								:
		14	6.		1111				1					1			-	-			-	0					
180				kO.									-							1	•	1					
19.	Alcoholism	1	1																		-		4				-
	(acute and chronic) F											:															
20.	Other general diseases and	27	6		1				-																-		
	-			18	-			-	-	1	1		60		-		4		- 0	4		-					
21,	Progressive locomotor ataxia												,								*	1					
	neral paralysis of the	1	1				1000	A Seemed	*****		::		:					1									
000	108ane		-			000 000	-		*****	*****	*****	*****															
		100	18		* ****				-	:										-	-	. 00	90				
	bral embolism and thrombosis.			14									-					1	7	4	40	0 00	00		18		
60	Other diseases of the nervous																				4	0	0				1
	e organs of	14	1-						*****	*****	*****	*****			-	-		20 20	1								
	special senseF		-	1		***	-	S. Arres	*****	2000	1	*****			1		1	03			1			-			
0.0		128	0 X						****	*****	1	*****	****	1	1	*		6 11	91 1	6			11	4			
.4.7	Diseases of the neart.			4.0		100				-	7	-	64	1									7	00			
																								0			

		ABRI	DGE	D IN	ABRIDGED INTERNATIONAL	NATI	ONA	L LIST		OF CA	CAUSES	S OF		DEATH	FOR	1938	ĭ	Cont	Continued	2						
1		Total	M	F	F Under	1	01	60	100	5 10	15	240	10 10	34	35.0	44	45	0.00	20.00	6.0			100	oc oc	0.0	0 4 1
100	Other diseases of the M	47	00	2.4			1 1				111	111	111		- :		-	01 01 1	03 -	-	9 01 1		00 t- 0	00 01 4	0 01 -	N :
	Circumory system	00 10	11	1 1	10 0	1		-		-	-	11	4	.01	01 01		01	01		4 01	0 :	N ==	2		4 1	2.2
10 10	Pheumonia Other diseases of the respir-	0	t		0 ,											1	1	1		1	-	1	-		-	
	atory system (tuberculosis M	0	-	1	*****								-				-			-	*****		10			
		-	9		00 ,		1			-		1	*****		-	1	1	-								: :
60	Diarrhoea	17	139	1		-	1	-	: "			-	!!	1	01	01		-	-		1					
30.	Appendicitis			4						-	-	-	100	-	-		-	: 01		1	1		4 03			1 1
11.		15	9	0									-					-		+	prof.		-	-	-	
00	Other diseases of the	18	111								-		-		e0 +		00	-	-		-	. 0				
	digestive system.	0.0		1-	1					1	1	-	-	-	10		-	-	: 00		01	4	. 00	03		
0	Non-building	20	13	11			1						1	-		-	*****	-				-	4	00	-	
000	Other diseases of the	1.5	11	**							-	****	-	-		50.6		*****	-		01	10		01	01	- 50
;				4		-		-				1		1		-			1					1		
36.		4			*****		***	100		-		-		-			-		*****							
	childbirth and puerperal state.			4						-		7	7	1	-			-								
00	Diseases of the skin and cellu-	00	00		-		***	and late	1000		1			1				-					1			
	and organs of locomotion F				1				-	-			1		1	-	****		-		-	-	-		1	20
00		4.1	20		20		-	-	-			-	-		-	****	Service .		-	Sec.	-	-		-	-	1
	56			21	20					1		-			1	-	-					-		-		0.00
		6	01			-		-	-				-	-				-			1			1 00	: 01	• 1
39.	Senility	1.0	1.9	-								. 63	1	00		-		**	1						100	100
40	Suicido	1	1													-						-	-			- 20
	Salotas	9	00					100		1)	1			****	:		1		-		*****					
1.	Homicide		1	00	1			-			-					1	*	2000	: 0						:	1
42.	-	01	16	t	04 +				-	7	1			-	-	-	4	: 00	0	4			1			
0 7	(Suicide, homicide excepted)	1	-		7			1 1							-			-		011						
2													1111	*****	4444		2000	State .				2000			100	- 1
	W	709 414		200	84	1	63	00 0		00 M	400	6 9	801	138	18	20	21	5- 40	41	980	10	282	00 00	00 00	200	9-
	TOTALS			280	22	****	1111		1			ľ	1	ľ	2	1	100		000	000	0.00	02	T	Г	0	118

1	
- 00	١,
938	r
0	
S	
-	
~	
-	
YEAR	
11.1	
-	
~	
THE	
=	
-	
_	
-	
FOR	
0	и
-	٠.
ш.	
-	
- adia	
-	
DEATH	
ш	
0	
_	
OF	
0	п
-	
-	
S	и
ш	
S	ĺ.
-	
-	ı
1	
-	
O	
CAUSES	
PRINCIPAL CA	

					>	MONTHS			9				938 Por	ulatio	1938 Ponulation 89 000		1034	Samuel	Donnie in or one	9	
		January	February	Матећ	lindA	June	1 aly	3sn#n V	September	October	Мочетрет Бесетрет		Male	Female	IstoT	Percent of Total Deaths		[stoT	Percent of Total Deaths	Rate per 100M Population	
95	Diseases of the heart M	77	00 00	00 00				10 -					83	45	198	18.0		-		0	
02.00	Cancer. F	14	410			***	11-6						4.2	2 10	66	13.9		077	10.0	130.3	
109		91	4 03			1 1							41	17	9 10	0 00	65.2	0 20		41.2	
196	External Causes M	01	10 00 0	-			7 1	-					031	10	41	8,10	46.1	5.0	1.1	61.2	
191	Americancy F	00 =	0 61 0	-	-	2		- 00 0					16	16	60	4.5	35.9	36	4.0	42.4	
0 00	Acute and Chronia	- 03 -		1				0 0					10	14	60	4.5	35.9	36	5.4	42.4	
000					403	1010		4					12	11	30	4.2	00 00	3.0	4.4	00.0	
11		01											, 0	6	26	E- 00	29.5	20 03	5.7	29.4	
121	tis	00 00	eo ==					. 00						10	19	2.7	21.4	4.7	£-	55.3	
157	U	-							-				9	4	17	2.4	19.1	90	1.2	9.4	
-120	F Diarrhoea M	T	-		1				-	1 3			9	10	6	1.3	10.1	10	1.5	11.8	
-145	F Puerperal State M			11			::	11						н	-1	1.	7.9	11	1.6	12.9	
	Totals N	9.0		- 0	. 0		1 0.4		: 1		9	-		4	78	9.	4.5	00	10	10.00	
	Other Causes. M	0.00	210	111 1	100	000	20200	110	-81	10 20	2012	2 8 12	115	203	502	70.8	564.	490	72.8	576.6	
		6					00		6					92	207	29.5	131.5	183	27.2	215.3	
	Total M	280	44 01 03 00	200	00 H	9 23	10 00	30	27 1	0.00	9 43	22 23	414	295							
	Total deaths	000	7.1	49 5	5 55	33	220	47	58 4	20	27 2	47		409		100.0					
-Den	Denotes outside deaths of Edmonton Citizens.	33																			

MORTALITY FROM HEART DISEASES 1934 TO 1938

Year 1938	Total Deaths 709	Deaths from Heart Diseases 128	Percent of Total Deaths 18.05	Rate Per 100M Population 143.8
	673	115	17.08	135.3
1936	694	119	17.2	140
1935		100	16.2	125
1934	594	112	18.8	140

Of the 1938 deaths 83 were male and 45 female.

MORTALITY FROM CANCER, 1934 TO 1938

Year	Total Deaths	Deaths from Cancer	Percent of Total Deaths	Rate Per 100M Population
1938	709	99	13.9	111.2
	673	82	12.2	96.5
1936	694	93	13.4	109.4
1935	618	87	14	108.75
	594	82	13.8	102.5

Of the 1938 deaths 42 were male and 57 female.

MORTALITY FROM PNEUMONIA, 1934 TO 1938

Year	Total Deaths 709	Deaths from Pneumonia 58	Percent of Total Deaths 8 2	Rate Per 100M Population 65.2
1937	673	35	5.2	41.2 48.2
1936	694 618	34	5.5	42.5
1934	594	32	5.3	40

Of the 1938 deaths 41 were male and 17 female.

MORTALITY FROM TUBERCULOSIS, 1934 TO 1938

Year	Total Deaths	Deaths from Tuberculosis	Percent of Total Deaths	Rate Per 100M Population
1938	709	26	3.7	29.2
1937	673	25	3.7	41.2
1936	694	22	2.1	23.9
1935	618	27	4.4	33.7
1934	594	17	2.9	21

Of the 1938 deaths from tuberculosis (all forms) 17 were male and 9 female.

There were 37 new cases of tuberculosis (all forms) reported and 26 deaths, giving an increase of 11 cases.

MORTALITY FROM EXTERNAL CAUSES, 1934 TO 1938

Year	Total Deaths	Deaths from External Causes	Male	Female	Suicide	Homicide	Accidental	Percentage of Total Deaths	Rate Per 100N Population
1938	709	41	31	10	12	6	23	5.8	41.6
1937	673	52	39	13	14	1	37	7.7	61
1936	694	51	40	11	8		43	7.3	60
1935	618	39	27	12	10	1 -	28	6.3	50
1934	594	49	44	5	13	2	34	8.3	61

MATERNAL MORTALITY

There were four maternal deaths. The maternal death rate calculated in the usual manner of proportion of maternal deaths to the number of live births gives a rate of 2.5 per 1,000 living births. None of the maternal deaths were associated with living births. One was abortion and three no birth. The maternal death rate for 1937 was 1.9.

COMMUNICABLE DISEASE DEATHS

There were 8,315 cases of communicable disease reported during the year 1938, of which 4,214 were males and 4,101 were females; compared with 5,821 cases in 1937, of which 2,881 were males and 2,940 were females.

The morbidity rate per thousand of population was 93.3 compared with 68.5 for 1937.

	19	38	19	37
	Cases	Deaths	Cases	Deaths
Poliomyelitis	7	2	7	
Diphtheria	18	4	3	1
Encephalitis Lethargica		2	1	2
Scarlet Fever	484	2	684	4
Whooping Cough	49	1	257	2
Pneumonia (lobar)	17	28	6	14
Tuberculosis	37	26	61	25
Syphilis	61	4	66	1
Meningitis	4		1	1
Measles	465		2,562	3
Erysipelas	28		49	4
Puerperal Septicæmia			1	1

Altogether reportable disease was responsible for 9.87% of the total deaths, 709.

ISOLATION HOSPITAL

Seven hundred and nineteen patients were admitted and 83 carried over from 1937, making a total of 802. There were 703 discharged; 30 died, and 69 remained at the end of the year.

Scarlet Fever	453	Typhoid	6
Diphtheria		Typhoid Poliomyelitis	17
Erysipelas	30	Polio-suspects	27
Erysipelas Tuberculosis	30		
and many complication	P ! P A!	anditions	
and many complication	s of infectious	conditions.	
The deaths included:	s of infectious	conditions.	
The deaths included:			
	6	Poliomyelitis	3

IMMUNIZATION

	Smallpox	Diphtheria	Diphtheria & Scarlet Fever	Scarlet Fever	Whooping	Schick Test	Dick Test	Typhoid
1937—Board of Health	93	86	362	3,411	77		28	1
Public School Board		1,082			******			
R.C. Sep. School Board	227	238						
	320	1,406	362	3,411	77		28	1
1938—Board of Health	180	439	575	47	14	86	3	7
Public School Board		1,733						
R.C. Sep. School Board	159	172					******	
	339	2,344	575	47	14	86	5	7

COMMUNICABLE DISEASE 1938-1934

			POP	ULA	TION, 1	938-	-89,000)		
	193	8	193	7	1936	6	193	5	193	4
	C	D	C	D	C	D	C	D	C	D
Anterio Poliomyelitis	7	2	7		3	1	34	2	1	1
Cerebrospinal Meningitis	4		1	1	1		1		1	
Diphtheria	18	4	3	1	6	1	7	1	3	
Diphtheria Carriers	9		1				19			******
Encephalitis Lethargica		2	1	2		1			1	
Scarlet Fever	484	2	684	4	362	4	148	2	63	
Smallpox					1					
Chickenpox	1083		1132		1286	1	994		529	
Measles	465		2562	3	1176	1	3105	1	32	
Mumps	5725		350		123	*****	236		554	
Rubella	28	******	330		5384	1	10		4	
Whooping Cough	49	1	257	2	1243	10	190		715	1
Actinomycosis			1							
Erysipelas	28		49	4	58	5	42	4	24	3
Ophthalmia Neonatorum					1			******		******
Pneumonia Lobar	17	28	6	14		15	6	19	5	12
Puerperal Septicaemia			1	1				1	illerii.	
Septic Sore Throat	7		4		5		4		2	
Trachoma			1							
Tuberculosis (Pulmonary)	34	17	60	20	63	15	72	21	43	11
Tuberculosis (other forms)	3	9	1	- 5	5	7	7	6	6	6
Tularaemia									2	
Typhoid	5	1			21	4	3	2	1	
Typhoid Fever Para	4		2				1	1	*******	2.0.000
Undulant Fever	2		8		1					*****
Venereal Disease—										
Chancroid							15		24	
Gonorrhoea	282		287		252		250		277	******
Syphilis	61	4	66	1	91	11	102	8	78	5
Totals	8315	7.0	5814	58	10082	78	5246	68	0000	39
Aviato	0010		0014	0.0	10002	1.0	0240	0.0	2363	99
Non-notifiable—										
Influenza		10	7	47		96		10		10
Mycosis				200						
Trench Mouth										
					**********	*****	7	******	4	******
Total deaths, all causes		709		678		694		618		594
Morbidity rate per 1,000 population	n	93.4		68.4	1	18.6		65.6		29.5
C—Cases.										
D—Deaths.										

1575 or 18.9% 5147 or 62% 132 540 130 41 222 635 953 5147 1593 or 19.1% COMMUNICABLE DISEASE REPORT BY AGES AND SEX FOR 1938 106 Under 102 4101 Šią. 242 208 4214 Total 8315 Tuberculosis (other forms) Tuberculosis (Pulmonary) Cerebrospinal Meningitis Diphtheria Carriers Encephalitis Lethargica Deaths Typhoid Fever (Para) Undulant Fever Venereal Disease— Anterio Poliomyelitis. Total cases reported. Total Deaths..... Mensles Mumps Rubella Whooping Cough Septic Sore Throat. Erysipelas Pneumonia Lobar Pre-school cases... School age cases... Adult cases. Gonorrhoea Syphilis Deaths Typhoid Fever... Scarlet Fever. Deaths.... Deaths. Deaths. Deaths. Deaths Deaths Deaths Chickenpox Diphtheria.

COMMUNICABLE DISEASE REPORT BY SEASON AND SEX FOR 1938

	Total	M	F	Jan. F	Feb. M	ar.	Apr. M	May Ju	June J	Iuly A	Aug. S	Sept.	Oct. 1	Nov.	Dec.
Anterio Poliomyelitis	E	4	00	1	********		*******			1	00 (67			
Deaths		27 0	in him				in indi				04	********		*************	
Cerebrospinal Meningitis		0 1				1							***************************************		
Diphtheria	18	9	122	120	-	annes.	1	or or or		-	*******	-	-	-	
Deaths	,	-	00	03	1		and distance	10000	10000	-	· · · · ·		***************************************		
Diphtheria Carriers	6	*	0	-	4		1	or more			********	-	0.0		2000000
Encephalitis Lethargica.															9
Deaths	63	_	-	-			*******	Acres and	diam's and	Accessed a					1
Scarlet Fever	48		251	59	2.2	67	36	20	35	17	56	25	34	44	34
Deaths	63	-	******		1		-	the sales and				-			
Chickenpox	108	00	089	150	53	70	56	11	89	89	39	98	92	164	190
	46	61	228	28	1.9	15	4.3	106	84	62	80	80	1		00
	5725	0 2	845	608	077 1	393 1	227	785	347	124	1.9	00	2.4	17	11
	90 00	18	10	4	61	10		00	67			63		-	1
	*	18	31	11		10	-	1	00	E-	62	6	01	00	
			-					1							
Ervainelas	58	15	130	9	00	00	1	03	-	1	1	03	00	00	64
Pheumonia Lobar	17		9				-	1					61	7	6
Deaths	82	17	11	63	00	1	00	00	-	-		10		9	00
	1	00	4			-		61			4				
Tuberculosis (Pulmonary)	00		22	2	00	01	4	00		4	00	00	2	00	4
Doaths		111	9	101	01	4	-	-	-	67		-	-	00	
Tuberculosis (other forms)	00		-			-									0
		140	. 00	-					6	6	-		0		1
Typhoid Fever	10	01	00					-			1	-			
			-					1							
(Dava)	4	6	5			-		00							
Indulant Favor	01	01											-		
venereal Discusses	000	200		10	1.5	00	1.5	10	00	20	16	10	0.0	0.0	00
es		46	- 10		9	2 4	10	0 10	0 00	00		0 0	4	-0	9 14
Deaths		*						1						0	
Total Cases	315	4 4	101	958 1	285 1	588 1	390 1	052	598	326	181	140	203	297	298
Total Deaths	7	44	26	8	×	9	9	1	4	9	20	7	4	6	4

"KINSMEN'S" TUBERCULOSIS NURSING SERVICE

Visits— Total visits made by nurse Visits to T.B. cases Visits to suspect cases Visits to contact cases Co-operative visits Not seen, moved, etc. Contacts of T.B. visits Total number of cases at end of month	867 239 1,000 157 89 754
Office— Number of visits to office Letters written	
Clinic Report— New Cases: Active Cases City Country Suspects City Country Contact City No Contact City Total	23 35 34 162 162 219 219
Other Cases: Admitted to T.B. section Died Discharged Improved Left Alberta Total Examinations Total X-rays Tuberculin: Total tests made	9 33 5 726 809

PUBLIC HEALTH NURSING

MENTAL HYGIENE CLINIC

EDMONTON—Dr. W. J. McAllister, Superintendent of the Provincial Mental Institute, was in charge of the actual clinics in this centre during 1938. Forty-one clinics were held as compared with forty in 1937. Fifty-seven new cases were dealt with and 136 follow-ups made. This shows some decrease over the clinic load in 1937. In May of 1938 the Baby Clinic moved into the quarters prepared at 10182 - 100th Street. The Mental Hygiene Clinic is using the same accommodation and finds it much more satisfactory than the previous quarters.

CHILD WELFARE CLINICS

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

	1938	1937	1936	1935	1934
Number of clinics held				92	102
Babies in attendance		3,567	3,686	3,306	4,066
Pre-school attendance		1,167	1,261	1,022	1,158
Total	1,963	4,734	4,947	4,328	5,224
Average	49.6	49.8	49.47	47.0	51.2
New cases admitted (babies)	860	817	808	714	779
New cases admitted (pre-school)		189	178	142	196
Babies referred to family doctor	22	65	35	46	63
Pre-school referred to family doctor	49	75	63	27	61

Dr. J. Calder, Dr. F. J. Follinsbee and Dr. Mildred Newell were in attendance to examine and advise parents regarding infants' care and feeding.

Medical students, public health nursing students and nurses in training from the University and Royal Alexandra Hospitals, as well as home economic students, have been in attendance at the clinics.

Ninety-eight out-of-town cases attended during the year.

In May the clinic was moved from the Civic Block to 10182 100th Street. The new quarters are commodious and satisfactory in every way.

Forty-five pre-natal cases received special instructions and visits have been made to diabetic cases, children's shelters and private nursing homes. Creche meetings have been attended and cases investigated as to eligibility of Creche services.

Two thousand, nine hundred and eighty-two home visits were made.

WEIGHING CLINICS

Number of weighing clinics held	50		47		50
Average	13.5	10.9	10.3	13.7	14.8

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

Attendance According to Age at Both Child Welfare and Weighing Clinics

Babies under 1 year Babies under 2 years		1937 3047 903	1936 3152 898	1935 2697 948
	4425	3950	4050	3645
Pre-school under 7 years	1213	1285	1298	1382
Total	.5638	5235	4943	5432
		-	-	-

It is particularly gratifying to have to report that the infant mortality rate for this year has been reduced to 39.3 per 1,000 living births; i.e., the lowest point attained in the quinquennial period just ending. I am of the opinion this result has been brought about by the following causes: (1) By the decided increase in pre- and post-natal visits made by your staff, and (2) By the definite amount of slum clearance that has been effected within the past few years.

Many problem cases of a domestic nature were straightened out to the satisfaction of all concerned.

PRE-NATAL VISITS

	1934	1935	1936	1937	1938
City nurse	. 291	388	316	404	460
V.O.N.	. 253	251	222	250	257

There were 184 new pre-natal cases in 1938 added to our roll.

The Red Cross Society and Junior Hospital League as in the past supplied very many layettes and also milk and bedding for needy families. Both of these organizations have done remarkable philanthropic work and are deserving of the thanks of all our citizens. The Relief Departments have also, when called upon, co-operated splendidly.

			INF	INFANT	MOR	1	Y, 18	938														
						BY S	SEASON	z								R				St	st	
			BLY	,				31	nber	er	nper	rper	Λ'n				Under	Month	Month	Month	Month	
	v about	VLOT	Febru	March	lingA	May	July	snany	Septer	Octob	Nover	Десец	1st Di	M 38I	M puz	W bis		I Mon		6 -7	21-01	
9 -Whooping cough		1	1			1				****	****								-		1	
		03	1									-							_		1.00	
1		1			4444		tere teres	de de la		4000		-	-					-		-		
T		1								-	200	100	-					1		10		
1		00			-		-			-	-	-						-	20		-	
8 "D" Type Lobar pneumonia		1		1000	****		***		1000	0.00	-								1			
1		1	-						-	-								-		-		
9 -Enteritis or Diarrhoea				-	-		100	-		-	-	-			-				4		-	
1 -Appendicitis	***************************************	1	*****	-	2011	2000		2000		-		-								7		
			***	*****						*****	****								-	1		
		200	-	0.00		-	1				-					1				-		
1			Since 1	-			*		7	****			4							*		
1		04.0		1		-	100		-	-	1		*****	1	-			1		-		
1	0	200	-					1 =		-	. 0		0	M							-	
				4	*		10		•	-	1		0 07	-		1		000				
Atelectusis		210				1					-	1	00	0.1								
		1									1			-							-	
81						-	-				1				*****				1		*****	
2 -Accidental suffocation		7	1								****	****		-		*****			03 -	****		
8 —Injury by animal (dog)		1	1000	1000	1101	-	100 000	100	1000	1000	1000	1000	1000	1000	1000				1		1000	
	9	63 7	00	00	04	9	04	4 6	00	9	10	9	2.1	6 .	1	4		35 16	5 5	9	-	

POST-NATAL VISITS

	1934	1935	1936	1937	1938
City nurse	139	201	172	239	270
V.O.N.	. 448	646	620	352	603

Visits classified as post-natal are those visits made to homes during the first six weeks after confinement.

All new mothers are encouraged to breast-feed their babies. However, in spite of such advice, artificial feeding is often resorted to. Much work remains to be done along this line. All mothers are advised of the necessity of a post-natal examination by their physician at the end of six weeks.

DISTRICT VISITS

Total	9917	2602	2000	1994
Special investigations 65	64	94	113	154
Visits to homes	3753	2508	2775	1170
1934	1935	1936	1937	1938

During the year household economic internes gave valuable assistance in directing diets and food budgeting in many homes. An interne accompanied your senior nurse a half day weekly and assisted in solving various food problems.

Each nurse taking the public health post graduate course at the University spent two days with our department. All members of our staff cooperated in trying to make these visits worthwhile.

DISABILITIES FOUND DURING DISTRICT VISITS, 1938

		Babies	Pre- School	School Age	Adults	
I.	Infectious and Parasitic Diseases	10	24	22	17	
II.	Cancer and Other Tumors					
III.	Rheumatic Diseases, Diseases of Nutrition and of Endocrine Glands and other gen- eral diseases		1	1	10	
IV.	Diseases of the Blood and Blood Forming Organs					
V.	Chronic Poisoning					
VI.	Diseases of the Nervous System and of the Organs of Special Sense Diseases of the Organs of Vision Diseases of the Ear and of the Mas- toid Process	2	2 2 2	1	4 1	
VII.	Diseases of the Circulatory System	70		1	23	
VIII.			95			
IX.	Diseases of the Respiratory System		25	3	21	
-	Diseases of the Digestive System		60	20	12	
Χ.	Diseases of the Genito-Urinary System		4	1	3	
XI.	Diseases of Pregnancy				9	
XII.	Diseases of the Skin and Cellular Tissue.	25	17	9	9	
XIII.	Congenital Malformation	1	1			
XV.	Diseases of Early Infancy	5				
XVI.	Senility		****		1	
XVII.	External Causes	1	3	****	1000	
VIII.	Not Specified			****	3	

HEALTH INSPECTIONS

INSPECTIONS			
	1938	1937	1936
Inspections	15,486	17,265	10,868
Re-inspections		3,801 6,545	2,920 4,426
Notices, total		2,216	1,232
Written - Verbal		4,329	3,194
Complaints from the public		705	413
Justified		515	295
Unjustified		190	118
Received from other Departments	20		
Referred to other Departments			*****
LICENSES			
License applications investigated	1,318	1,302	1,259
HOUSING			
During the year regular inspection was made	of all roo	ming and	lodging
houses, apartments, hotels, etc.			
	1938	1937	1936
Sewer and water notices issued	63	110	60
Sewer and water installed, buildings removed, etc	24	25	11
Extension of time granted	17	32	16
Nothing done	. 22	53	33
Plumbing permits issued	158	127	149
Plumbing permits issued for old buildings	110	91 52	20
Alterations to existing plumbing	60	52	
DISINFESTING STATION			
	1938	1937	1936
Baths		22,530	28,551
Verminous		27	37
Scabies		757	1,025
Disinfested	612	788	1,065 22,961
Men washed clothing Units washed	54 786	19,132 57,396	67,048
Units washed	04,100	01,000	01,040
SCAVENGING		1000	4005
		1938	1937
D. C. M. M. Cid.			cu. yds.
Refuse removed from North Side Refuse removed from South Side			6,870
Refuse removed from South Side		1,400	1,100
COWSHEDS, STABLES, ETC.			
During the year 535 private cow owners pai inspections were made of their premises.	d their an	nual pern	nits and
FOOD			
	193	8 1937	1936
Samples submitted to Provincial Laboratory		25	8
Foodstuffs condemned (lbs.)	16,67	70 29,832	2,745
Fourteen thousand, seven hundred and seven	ty-one por	ands of fo	podstuffs
were condmned due to being damaged by fire and the above.	water ar	id are inc	luded in
WATER			_
		1938 193	
Water samples taken	44	62 60	71
Negative *Positive			
	11	í	
		. 5 2	2 2
Ice samples taken Negative		5	-
Rinse water samples taken		. 55 78	3

Ice cream dipper rinse waters	33
19 over 50,000—notified.	00
Bottling works rinse waters 2 All negative.	a dia

* In all cases where samples were Positive or Suspicous, the wells were chlorinated or placarded as unfit for use and in many cases retest samples were taken which were Negative.

INFECTIOUS AND CONTAGIOUS DISEASES

During the months of April and May the health inspectors spent considerable time in assisting the quarantine officer in quarantining and releasing homes from quarantine. Also investigated by the inspectors throughout the year were cases of tuberculosis, goitre, trench mouth, typhoid fever, scabies, venereal diseases, etc.

INDUSTRIAL HEALTH SERVICE

Besides the regular inspections of working conditions in business premises, a special survey of the plumbing in the business sections of the city was carried out. In all, 990 inspections were made. Two hundred and fifty-seven inspections were made by the health inspectors of premises, included in the above survey, where it was thought a notice to repair plumbing, etc., might be required. To date 62 notices have been issued.

RELIEF

As in the past few years, considerable time was spent in investigating appeals for relief, and valuable assistance was once again given by the various charitable organizations in supplying bedding, clothing, etc.

ENFORCEMENT OF REGULATIONS

	1938	1937	1936
Prosecutions	 2	1	0

In connection with the above prosecutions, convictions were received in both cases and the defendants were fined \$5.00 and costs. One prosecution was under By-law 9, section 35, keeping pigs without a permit, and the other, a fish peddlar who was selling tullibee as whitefissh.

FOOD INSPECTION

January 1st, 1938, there were four abattoirs under city inspection. On September 12th one of these ceased to operate and was demolished. During the year there has been a change in ownership of all the remaining three, and in one extensive alterations are still in progress.

The decline in the percentage of hogs found to be infected with tuberculosis is again noticeable. The percentage of cattle found to be infected with tuberculosis, on the other hand, has increased. Speaking generally, the quality of animals slaughtered during 1938 has shown marked improvement during the year.

MEATS INSPECTED AND CONDEMNED

Beef			
	1938	1937	1936
No. of carcases inspected	3,327	2,806	3,055
Carcases condemned	12	14	11
Portions condemned	379	396	357
Weight (lbs.) of carcases and portions condemned 1	2,597	15,216	9,982
Veal			
No. of carcases inspected	2,901	2,373	3,368
Carcases condemned	5	7	8
Portions condemned	37	43	45
Weight (lbs.) of carcases and portions condemned	1,006	1,489	1,739
Mutton			
No. of carcases inspected	1,387	1,701	2,102
Carcases condemned	3	5	3
Portions condemned	93	151	203
Weight (lbs.) of carcases and portions condemned	410	612	672

Pork					
Carcases condemned	Pork	1	1938		1936
Portions condemned 404 493 551 Weight (lbs.) of carcases and portions condemned 8,828 9,801 10,936 Totals No. of carcases inspected 10,152 8,948 10,639 Ro. of carcases condemned 40 54 48 Portions condemned 22,841 27,118 23,329 CARCASES FOUND TO BE INFECTED WITH TUBERCULOSIS Beef					
Veight (bs.) of carcases and portions condemned 8,828 9,801 10,936 Totals 10,152 8,948 10,639 Carcases condemned 40 54 1,683 1,168 Veight (bs.) of carcases and portions condemned 22,841 27,118 23,329 CARCASES FOUND TO BE INFECTED WITH TUBERCULOSIS Force 13 5 15 15 15 15 15 15					
No. of carcases inspected 10,152 8,948 10,630 Carcases condemned 40 54 48 48 Portions condemned 913 1,633 1,156 1,	Portions condemned				
No. of carcases inspected 10,152 (arcases condemned 40,630 (arcases) 40,630 (arcases) 40,630 (arcases) 40,630 (arcases) 40,633 (arcases) 40,633 (arcases) 40,633 (arcases) 40,833 (arcases) 41,156 (arcases) 40,833 (arcases) 41,156 (arcases) 42,118 (arcases) 23,329 (arcases) 27,118 (arcases) 23,329 (arcases) 45,52 (arcases) 46,52 (arcases) 46,53 (a		ed 8	5,828	9,801	10,956
Carcases condemned		16	159	8 948	10 639
Portions condemned 913 1,083 1,156 Weight (lbs.) of carcases and portions condemned 22,841 27,118 23,329			40		
Weight (lbs.) of carcases and portions condemned 22,841 27,118 23,329					
CARCASES FOUND TO BE INFECTED WITH TUBERCULOSIS Beef 13	Weight (lbs.) of carcases and portions condemne	ed 22	2,841		23,329
Percent					
Infected 13 5 15 15 15 15 15 15		ITH TUB	ERCULO	OSIS	
Percent			19	5	15
Pork					
Infected			.000	.010	
CHIEF CAUSES OF CONDEMNATION, 1938 Beef and Veal			264	253	300
Carcases Portions Abscess liver 108 1,352 lbs. Abscess multiple 1 15 635 Actinomycosis 1 146 3,845 Actinomycosis 1 146 3,845 Adhesions 93 1,151 Tuberculosis 1 18 1,000 Parasites 18 197 Bruised 3 15 1,563 Emaciation 2 750 Pneumonia 2 500 Miscellaneous (peritonitis, empyemia, mammitis congestion, extensive injuries, immature) 7 2 2,610 Mutton 77 180 Bruised 77 180 Bruised 77 180 Bruised 77 180 Bruised 77 180 Miscellaneous (abscess liver, empyemia, peritonitis, abscess multiple) 3 4 175 Pork 3 93 410 lbs. Pork 3 4 272 4,860 Abscess multiple 5 870 Pheumonia 2 380 Preutionitis 4 272 4,860 Abscess multiple 5 1 820 Pheumonia 2 380 Peritonitis 4 630 Putrification 105 Miscellaneous (abscess liver, empyemia, peritonitic 5 1 820 Totols 20 404 8,828 lbs. Totols 20 404 8,828 lbs. DISEASED ANIMALS 396 Mutton 72 Pork 30 393 410 lbs. DISEASED ANIMALS 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were constant and so the figures were were constant and so the figures were constant and so the figure constant and so the figure constant and		10	0.46	12.23	13.95
Carcases Portions Abscess liver 108 1,352 lbs. Abscess multiple 1 15 635 Actinomycosis 1 146 3,845 Adhesions 93 1,151 Tuberculosis 1 18 1,000 Parasites 18 197 Bruised 3 15 1,563 Emaciation 2 750 Pneumonia 2 500 Miscellaneous (peritonitis, empyemia, mammitis congestion, extensive injuries, immature) 7 2 2,610 Mutton 77 180 Bruised 77 180 Bruised 77 180 Bruised 77 180 Bruised 77 180 Miscellaneous (abscess liver, empyemia, peritonitis, abscess multiple) 3 4 175 Pork 3 93 410 lbs. Pork 3 3 3 3 3 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pheumonia 2 380 Pretrionitis 4 630 Pretrionitis 4 630 Pretrionitis 4 630 Peritonitis 4 630 Peritonitis 4 630 Putrification 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totols 8 20 404 8,828 lbs. DISEASED ANIMALS 8 Beef and Veal 913 22,841 lbs. DISEASED ANIMALS 372 Pork 372 (Totals for diseased animals are approximate only, as no figures were constant and con	CHIEF CAUSES OF CONDEMNA	TION 19	28		
Carcases Portions 108 1,352 lbs.		11014, 1.	,,,,		
Abscess multiple		Carcases	Portio	ns V	Veight
Actinomycosis	Abscess liver		108		
Adhesions			1 0 1 2 1 2 1		
Tuberculosis					
Parasites 18 197		1			
Bruised					
Emaciation					
Pneumonia 2 500		0			
Miscellaneous (peritonitis, empyemia, mammitis congestion, extensive injuries, immature) 7 2 2,610 Mutton 77 180 Bruised 12 65 Miscellaneous (abscess liver, empyemia, peritonitis, abscess multiple) 3 4 175 Pork 3 93 410 lbs. Pork Adhesions 16 185 Bruised 35 486 Contaminated 31 355 Parasites 39 137 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totals 20 404 8,828 lbs. Totals Beef and Veal 17 416 13,603 Mutton 3 93 410 Pork		0			500
Congestion, extensive injuries, immature 7		S			
Mutton 77 180 Bruised 12 65 Miscellaneous (abscess liver, empyemia, peritonitis, abscess multiple) 3 4 175 3 93 410 lbs. Pork Adhesions 16 185 Bruised 35 486 Contaminated 31 355 Parasites 39 137 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totals 20 404 8,828 lbs. 828 Totals 3 93 410 Pork 20 404 8,828 Beef and Veal 17 416 13,603 Mutton 3 93 410 Pork <td></td> <td></td> <td>2</td> <td>2,</td> <td>610</td>			2	2,	610
Mutton 77 180 Bruised 12 65 Miscellaneous (abscess liver, empyemia, peritonitis, abscess multiple) 3 4 175 3 93 410 lbs. Pork Adhesions 16 185 Bruised 35 486 Contaminated 31 355 Parasites 39 137 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totals 20 404 8,828 lbs. 828 Totals 3 93 410 Pork 20 404 8,828 Beef and Veal 17 416 13,603 Mutton 3 93 410 Pork <td></td> <td>17</td> <td>416</td> <td>13.</td> <td>603 lbs.</td>		17	416	13.	603 lbs.
Parasites 77	Mutton	10.5			
Miscellaneous (abscess liver, empyemia, peritonitis, abscess multiple) 3 4 175 Pork 3 93 410 lbs. Adhesions 16 185 Bruised 35 486 Contaminated 31 355 Parasites 39 137 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totals 20 404 8,828 lbs. Totals 17 416 13,603 Mutton 3 93 410 Pork 20 404 8,828 Beef and Veal 17 416 13,603 Mutton 2 40 913 22,841 lbs. DISEASED ANIMALS Beef and Veal 372 (Totals for diseased animals are approximate only, as no figures were </td <td>100/100/000</td> <td></td> <td></td> <td></td> <td></td>	100/100/000				
tis, abscess multiple) 3			12		65
Pork Adhesions 16 185					
Pork Adhesions 16 185 Bruised 35 486 Contaminated 31 355 Parasites 39 137 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totals 20 404 8,828 lbs. Totals 3 93 410 Pork 20 404 8,828 Beef and Veal 17 416 13,603 Mutton 3 93 410 Pork 20 404 8,828 DISEASED ANIMALS Beef and Veal 372 (Totals for diseased animals are approximate only, as no figures were	tis, abscess multiple)	3	4		175
Adhesions 16 185 Bruised 35 486 Contaminated 31 355 Parasites 39 137 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totols 20 404 8,828 lbs. Totols 3 93 410 Beef and Veal 17 416 13,603 Mutton 3 93 410 Pork 20 404 8,828 Beef and Veal 40 913 22,841 lbs. DISEASED ANIMALS Beef and Veal 372 Pork 372 (Totals for diseased animals are approximate only, as no figures were		3	93		410 lbs.
Bruised 35 486 Contaminated 31 355 Parasites 39 137 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totals 20 404 8,828 lbs. Totals 3 93 410 Pork 20 404 8,828 Beef and Veal 17 416 13,603 Mutton 3 93 410 Pork 20 404 8,828 DISEASED ANIMALS Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were					
Contaminated 31 355 Parasites 39 137 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 20 404 8,828 lbs. 8,828 lbs. Totals 17 416 13,603 13,603 Mutton 3 93 410 Pork 20 404 8,828 40 913 22,841 lbs. DISEASED ANIMALS Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were					12.00
Parasites 39 137 Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Zo 404 8,828 lbs. 828 828 Totals 17 416 13,603 13 13 14					
Tuberculosis 4 272 4,860 Abscess multiple 5 870 Pneumonia 2 380 Peritonitis 4 630 Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Zo 404 8,828 lbs. Totals 17 416 13,603 Mutton 3 93 410 Pork 20 404 8,828 40 913 22,841 lbs. DISEASED ANIMALS Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were					
Abscess multiple	The second secon				
Pneumonia		. 5			
Putrification 10 105 Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totals Beef and Veal 17 416 13,603 Mutton 3 93 410 Pork 20 404 8,828 40 913 22,841 lbs. DISEASED ANIMALS Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were					
Miscellaneous (abscess liver, empyemia, peritonicer, septicæmia, frost) 5 1 820 Totals 20 404 8,828 lbs. Beef and Veal 17 416 13,603 Mutton 3 93 410 Pork 20 404 8,828 40 913 22,841 lbs. Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were		4			
cer, septicæmia, frost) 5 1 820 Totals Beef and Veal 17 416 13,603 Mutton 3 93 410 Pork 20 404 8,828 40 913 22,841 lbs. DISEASED ANIMALS Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were			10		105
Totals 17 416 13,603 Mutton 3 93 410 410 913 22,841 lbs.			1		820
Totals Beef and Veal 17 416 13,603 Mutton 3 93 410 4	cer, septicæmia, frost)		-		
Beef and Veal		20	404	8,	828 lbs.
Mutton 3 93 410 Pork 20 404 8,828 40 913 22,841 lbs. Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were	Totals	177	410	19	600
Pork 20 404 8,828 40 913 22,841 lbs. DISEASED ANIMALS Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were					
A					
Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were	FUIK		-	-	
Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were		40	913	22,	841 lbs.
Beef and Veal 396 Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were	DISEASED ANIMALS				
Mutton 72 Pork 372 (Totals for diseased animals are approximate only, as no figures were	Beef and Veal				396
(Totals for diseased animals are approximate only, as no figures were	Mutton				72
(Totals for diseased animals are approximate only, as no figures were obtained for the first four months of the year.)	Pork	ata anl		6	372
obtained for the first four months of the year.)	(Totals for diseased animals are approxim	ate only,	as no	ngure	es were
	obtained for the first four months of the year.)				

FOODSTUFFS CONDEMNED			
THE ROLL OF THE 2111]	Pounds-	-
	1938	1937	1936
Meat	22,841	27,118	23,329
Poultry	113	158	81
Fish	OFF		
Sundries	000	3	1
Foodstuffs condemned by Health Inspectors			
Canned goods	13	120	45
Meat	000	22	
Poultry	77.7		10
Fish			332
Fruit and vegetables		10,111	1,018
Candy		10,111	-15
Jam			768
			360
Pickles		19	180
Butter and cheese		-	100
Cereal		60	
Ice cream	0.0	00	16
Sundries		18,500	
Damaged by fire	14,401	10,000	
	39,661	56,111	26,155
Inspections			
	1938	1937	1936
No. of inspections of butcher shops and abattoirs	5,345	5,557	7,464
Complaints			
Complaints received from the public	30	35	17
Complaints justified	20	5 25	15

DAIRY INSPECTION

The results of the reduction tests carried out weekly throughout the year of raw milk which is shipped to pasteurization plants indicated that 97.21 per cent of the samples were in Class 1 under the Standard Methods of Milk Analysis and that 94.96 per cent met even a higher standard than is at present demanded for Class 1 milk under the Standard Methods of Milk Analysis of the American Public Health Association. The difference in the high degree of compliance with the reduction time standards of 5½ and 6 hours being but 2.25 per cent. These figures refer to approximately 10,412 samples.

During the early part of the autumn the average reduction time for the class of milk referred to above was 10 hours and 27 minutes.

The three milk producer organizations whose members ship milk to the pasteurization plants have shown their appreciation of the work we are doing by offering their co-operation and active assistance in maintaining and further improving the high degree of compliance by their members with the milk regulations. This co-operation is probably unique in Canada and is greatly appreciated.

Shown herewith is a table of the classification of bacterial counts per c.c. of both pasteurized and retail raw milk. The table refers to 942 samples of milk in percentages.

No. of Sar	nples	10,000 and Under	11,000 to 25,000	26,000 to 100,000	Over 100,000
409	Pasteurized	86.79	6.84	4.15	2.22
533	Retail raw	63.03	22.13	11.06	3.78
942	Average percentage	74.91	14.48	7.61	3.00

The results of the abortion test of the 51 herds from which raw milk is retailed showed that 1,115 cattle were tested, 12 per cent being positive reactors.

The introduction during the year of the Phosphatase test revealed unsatisfactory conditions at two pasteurizing plants, which were quickly remedied.

The co-operation of the pasteurizing plants is appreciated in their assisting us to improve the quality of the cream by the application of the reduction test. The cream comes from nearly a hundred inspected farms and is used as table cream and in the manufacture of ice-cream. Upon our request the plants agreed to apply the reduction test to the cream as they had previously done for several years to the incoming raw milk. Previously no bacteriological tests had been made of this raw cream. Approximately 1,130 samples were tested. Following special instruction to the cream producers from this office a rapid improvement took place, reduction times of six hours and longer being not infrequent.

We express appreciation of the co-operation extended by the Department of Animal Husbandry, University of Alberta, and especially by Dr. H. R. Thornton, Department of Dairying, University of Alberta, for their assistance in experimental work in connection with the application of the reduction test to cream.

Two educational circulars relating to the reduction test were written and distributed to cream producers.

356 applications for permits were received. 343 applications for permits were granted. 4 applications for permits were refused.

- 9 permits were suspended indefinitely on account of continued unsanitary conditions.
- 9 new permits were issued to dairy farmers who were better prepared to meet our requirements.
- 212 suspensions of producers' permits were made for a period of 3 or 4 days on account of Class 2 milk being shipped, as revealed by the reduction tests.

Inspections made, 870.

LABORATORY REPORT

The following gives a brief summary of the work done during the year. The table below showing the results of the bacterial examination of our retail milk samples, shows a continued improvement over previous years. Eighteen samples out of a total of 848 could not be counted due to the spoilage of the plates by spreaders. Of the remaining 830 samples just over 80 per cent are included in our "special" classification, which included all counts up to fifteen thousand bacteria per cubic centimeter as against 73.1 per cent for the previous year. Also an additional 11.3 per cent placed in our second column gives nearly 91½ per cent of the samples with counts not more than forty thousand per c.c.

	Spec.	15,000	100,00	100,00	Over	Spr.	Total
January	53	12	1	400,000		2	68
February	61	1	5		1	3	71
March	46	18	5	4	1		74
April	61	4	2			1	68
May	61	5	2			1	69
June	56	9	5	3	2	2	77
July	52	5	4	1	2	1	65
August	58	6	4	6			74
September	48	12	4	1	1	3	69
October	53	11	4	1		2	71
November	60	4	1			3	68
December	56	7	10		1		74
	665	94	47	16	8	18	848.
Percentage	80.1	11.3	5.7	1.9	1.0		100

In Edmonton we have 43 raw milk distributors, some of them with a very small total sale. The pasteurizing plants also handle special jersey milk and homogenized milk. The results arranged in these classes are as follows:

	Spec.	% 4	0,000		0,000		00,000	%	Over	%	Spr.	Total
Raw Milk	374	71.4	85	16.2			14		7	1.3	8	532
Ord. Pasteurized					2	1.1	1	.6	1	.6	5	179
Jersey			3	4.3	0		0		0		3	73
Homogenized		96.8			1	1.6	1	1.6	0		2	64
		80.1	94	11.3	47	2.7	16	1.9	8	1.0	18	848

It is to be noted, however, that the great majority of our raw milk dealers are very good indeed. Of the 73 counts which were over 40 thousand per c.c., 18 or approximately 25 per cent were obtained from just two dealers, while 35 or about 48 per cent were obtained from seven dairies. This leaves comparatively few to be distributed amongst the others.

There were also examined a total of 92 samples of chocolate dairy drink, of these three were spoiled by spreaders, 76.4 per cent graded special, 9.0 per cent from 15,000-40,000, 9.0 per cent from 40,000-100,000, .1 per cent from 100,000-400,000, and 4.5 per cent over 400,000.

Only about half of our street samples were examined for bacterial count, those which gave too high a count being of course singled out for a retest. All the samples were tested by the methylene blue reductase test; 1520 samples gave only 10 which did not grade No. 1 by this test.

The average butterfat test obtained from these 1517 samples was 4.02 per cent. The average varied little throughout the year, the maximum being 4.26 per cent in November and the minimum 3.91 per cent in April. The average butterfat content for the chocolate dairy drink was 2.63 per cent.

From the Lactometer reading and the butterfat content, the solids not fat were calculated on each of these samples and the average was found to be 8.92 per cent. All of these samples were also checked for flavor and examined and graded for the amount of sediment. The average grade given for sediment was 9.0 out of a possible 10.

In addition to the regular retail samples, several samples of milk were taken and examined for interested parties. Of 70 samples examined for bacteria, three could not be counted on account of spreaders, 54 were graded special, and five others had counts not over 40 thousand. Of 49 cream samples five could not be counted and 23 graded special, and five more were 40 thousand or under. The average butterfat for 79 samples was 4.15 per cent and for 56 cream samples was 24½ per cent.

Some trouble was found in getting our ice cream to rigorously comply with the bacterial standards set out in the Health Act. Out of 42 samples taken for examination four counts were spoiled by spreaders, 18 samples had counts of 15 thousand or less, and seven more not over 100 thousand. Thirteen or approximately one-third were thus above the 100 thousand mark. The total number of samples obtained, however, was rather small.

All the milk from individual producers coming into the city plants has been submitted to the methylene blue test each week. The total number of samples examined was 10,443, of which 433 or about 4.2 per cent failed to grade "number one," under the test. In addition, some 151 special samples were run for the information of producers trying to locate the source of their trouble, of which eight failed to meet the requirements. All of these along with the 1520 distributor samples gives a grand total of 13,634 samples, of which 461 failed to make the No. 1 class.

During the year regular examination was made for us almost daily of the city water. None of the samples examined gave a positive colon test and none gave counts of over 100 per c.c. The highest counts, obtained at the time of the spring run-off in March, were 45, 27, and 20. The next highest count was 15 obtained from one sample in June. All the others were below this figure. Frequent sampling was done at the Civic Block for tests for the amount of free chlorine in the water and at no time was it found to be deficient.

Samples of water from the swimming pools, both public and private, were taken either personally or for us by the Engineer's Department for bacterial examination. The total number of samples obtained was 273. Of these, 183 gave counts of 10 or under and 35 were above the 200 mark. No sample gave a positive test for colon organisms. General supervision was given to the swimming pools throughout the year. Solutions were made up and supplied for testing the water for the amount of free chlorine, and for copper and suitable standards furnished as required. Little trouble was experienced with "algæ" in any of the pools this year. Occasional tests were also made for the alkalinity.

The sewage plants during the year ran with a minimum of trouble and practically no work was done in this connection.

