

## **Report of the Department of Health / City of Montreal.**

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**Report of the Department  
of Health**

of

MONTREAL, P.Q. (Canada)

**Year 1940**

By DOCTOR AD. GROULX, M.P.H., F.R.S.I.(E.)  
DIRECTOR

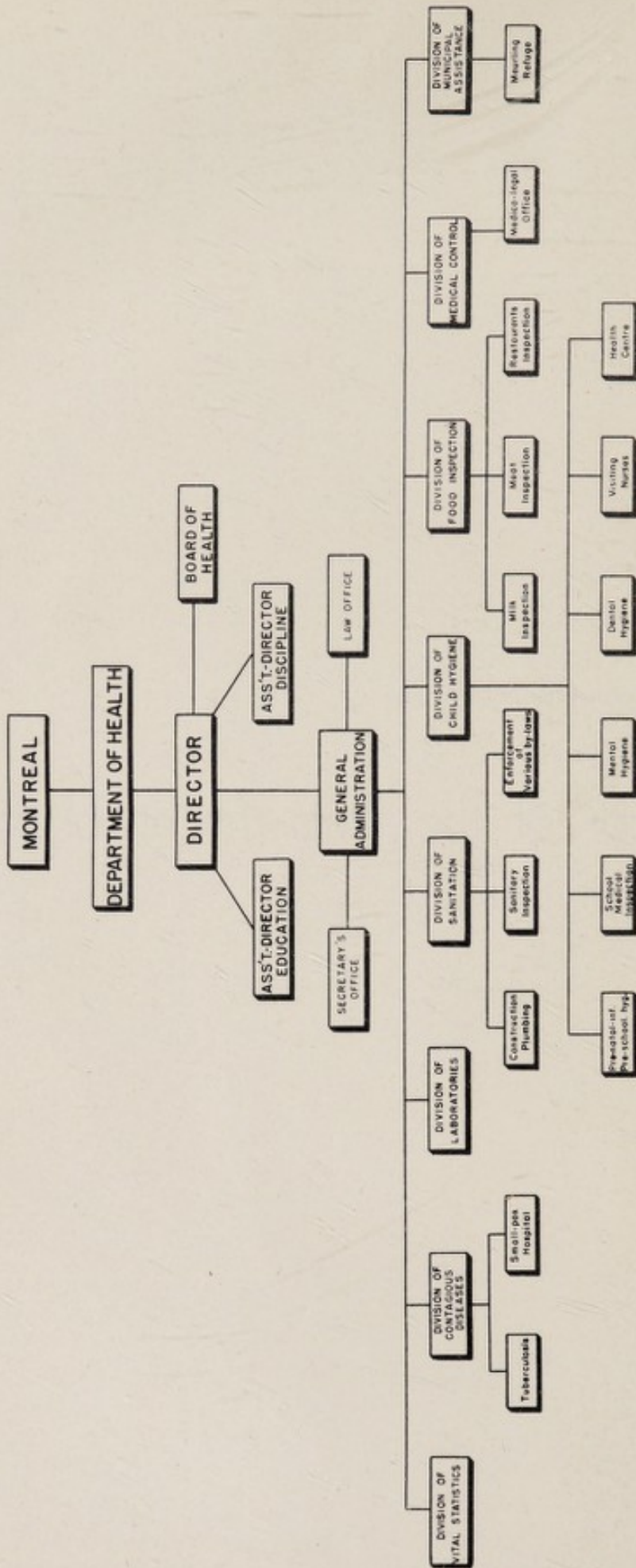


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With the compliments of the

Director of the Department of Health





# Report of the Department of Health

of

MONTREAL, P.Q. (Canada)

**Year 1940**

By DOCTOR AD. GROULX, M.P.H., F.R.S.I.(E.)  
DIRECTOR

## CITY OF MONTREAL

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### MAYOR:

His Worship CAMILLIEN HOUDE, C.B.E.

### EXECUTIVE COMMITTEE:

Alderman J. M. SAVIGNAC, President,  
Aldermen JANVIER COUPAL, HECTOR DUPUIS,  
J. H. DELISLE, JOHN KERRY, Members.

### HEALTH COMMISSION:

Alderman J. M. SAVIGNAC,  
Aldermen Z. H. LESAGE, JANVIER COUPAL,  
J. A. EDMISON, and Dr. AD. GROULX,  
Dr. E. G. ASSELIN, Dr. B. G. BOURGEOIS,  
Dr. A. GRANT FLEMING, Dr. FRANK G. PEDLEY, Members.

### HEALTH DEPARTMENT:

Dr. AD. GROULX, M.P.H., Director,  
Dr. ADRIEN PLOUFFE, Dr.P.H., Assistant Director,  
Dr. EUG. GAGNON, Assistant Director.

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## STAFF OF THE DEPARTMENT OF HEALTH

### Year 1940

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#### DIRECTOR'S OFFICE:

Dr. AD. GROULX, M.P.H., F.R.S.I. (E), Director,  
 Dr. ADRIEN PLOUFFE, Dr.P.H., Assistant Director,  
 Dr. EUG. GAGNON, Assistant Director,  
 G. MENARD, lawyer,  
 1 Secretary and office chief,  
 1 Office chief (general administration),  
 1 Archivist,  
 1 Clerk, 3rd grade,  
 3 Stenographer clerks,  
 1 Messenger,  
 1 Storekeeper in charge and 1 Clerk, 2nd grade.

#### DIVISION OF CONTAGIOUS DISEASES:

Dr. J. H. GERVAIS, D.P.H., Superintendent,  
 1 Assistant superintendent,  
 1 Clerk, 2nd grade,  
 2 Typist clerks,  
 2 Clerks, 4th grade,  
 3 Epidemiologists,  
 1 Nurse (supervisor),  
 10 Nurses,  
 3 Disinfectors,  
 1 Janitor (Smallpox hospital),  
 1 Cook (Smallpox hospital).

#### Section of tuberculosis:

Dr. LEO LADOUCEUR,  
 1 Nurse (supervisor),  
 3 Nurses,  
 1 Typist Clerk  
 1 Technician.

#### DIVISION OF CHILD HYGIENE:

Dr. J. N. LAPORTE, Superintendent,  
 1 Assistant superintendent,  
 1 Medical Chief inspector,  
 2 Medical inspectors, district chiefs (Maisonneuve-St. Jacques Districts),  
 1 Clerk, 3rd grade,  
 1 Clerk, 2nd grade,  
 2 Stenographer clerks,  
 4 Typist clerks,  
 1 Stationary engineer and caretaker (Laurier Clinic)  
 21 Medical inspectors,  
 1 Head nurse,  
 1 Assistant Head nurse,  
 6 Nurses (supervisors),  
 97 Visiting school nurses,  
 2 Nurses inspecting boarding houses for children,  
 2 Nurses—Test of hearing.

#### Mental Hygiene Section:

4 Psychiatrists,  
 1 Supervising nurse,  
 3 Nurses (psychologists).

**Dental Hygiene Section (Dental Clinics)**

Dr. R. LALONDE, Chief of section,  
 1 Dental inspector (protestant schools),  
 5 Dentists at dental clinics,  
 6 Nurses,  
 5 Assistant-nurses.

**Orthodontic Clinic:**

Dr. PAUL GEOFFRION, Chief,  
 1 Technician.

**DIVISION OF FOOD INSPECTION:**

Dr. A. J. G. HOOD, D.V.S., Superintendent,  
 1 Assistant superintendent,  
 1 Clerk, 4th grade,  
 2 Stenographer clerks,  
 2 Typist clerks.

**Section No. 1—Milk Inspection:**

1 Supervisor,  
 8 Country inspectors,  
 10 City inspectors.

**Pasteurization Inspection:**

1 Supervisor,  
 7 Inspectors.

**Section No. 2—Meat Inspection:**

1 Supervisor,  
 1 Clerk, 3rd grade,  
 1 Typist clerk,  
 1 Inspector of abattoirs in suburbs, and of ice,  
 7 District inspectors,  
 6 Veterinary surgeons, meat inspection stations,  
 2 Assistant inspectors, meat inspection stations.

**Section No. 3—Inspection of Dining-Rooms, Restaurants, etc.:**

1 Supervisor,  
 11 Inspectors.

**DIVISION OF SANITATION:**

Mr. AIME COUSINEAU, C.E., Sanitary Engineer and Superintendent  
 1 Assistant superintendent,  
 1 Clerk, 4th grade,  
 2 Clerks, 2nd grade,  
 1 Supervisor of plumbing inspectors,  
 9 Plumbing inspectors,  
 1 Supervisor of sanitary inspectors,  
 15 Sanitary inspectors,  
 1 Supervisor (enforcement of by-laws),  
 6 Inspectors.

**DIVISION OF MEDICAL CONTROL:**

Dr. J. A. CHARRON, Superintendent,  
 4 Visiting physicians,  
 1 Typist clerk,  
 1 Clerk, 2nd grade,  
 1 Nurse.

**Medico-legal section:**

Dr. L. ROUX,  
 1 Nurse and secretary.

**DIVISION OF LABORATORIES:**

Dr. R. BERARD, Superintendent and bacteriologist,  
 2 Bacteriologists,  
 2 Chemists,  
 2 Analysts,  
 1 Technician,  
 2 Laboratory helpers,  
 1 Stenographer clerk,  
 1 Preparer.

**DIVISION OF STATISTICS:**

Dr. EUGENE GAGNON, Superintendent,  
 1 Statistician,  
 4 Clerks, 2nd grade.

**DIVISION OF MUNICIPAL ASSISTANCE:**

Mr. A. CHEVALIER, Superintendent,  
 1 Assistant superintendent,  
 1 Office chief,  
 2 Clerks, 3rd grade,  
 4 Clerks, 2nd grade,  
 2 Stenographer clerks,  
 1 Typist clerk,  
 1 Chief investigator,  
 13 Investigators,  
 1 Physician.

**Social Service Exchange:**

3 Clerks, 2nd grade,  
 1 Clerk, 1st grade,  
 1 Typist clerk.

**Meurling Refuge:**

1 Supervisor,  
 1 Clerk, 2nd grade,  
 1 Furnaceman,  
 1 Laundryman,  
 1 Cook,  
 5 Guards.

## ANNUAL REPORT

1940

To the Chairman and  
Members of the Executive Committee.

Gentlemen:

I have the honour to submit the report of the Department of Health, for the year 1940.

I beg you to note that the fiscal year which was previously corresponding with the calendar year, now begins on the 1st May of a given year to end on April 30th of the next year.

Consequently, the expenses mentioned in the following table correspond with the new fiscal year of the City, while the balance of this report: reports of the divisions, tables, etc., continue to remain, as previously, based on the calendar year.

## Expenses

The total expenditure for 1940, in the Department of Health amounted to \$4,175,602.94, distributed as follows:

Hygiene.....	\$ 641,339.80
Hospitalization of contagious.....	549,680.59
Municipal Assistance.....	2,594,121.55
Grants to charitable institutions.....	89,461.00
Welfare Associations.....	200,000.00
Technical School.....	75,000.00
Grants to Universities.....	20,000.00
Ecoles Ménagères.....	4,000.00
Christmas Seals.....	2,000.00
	<hr/>
Total.....	\$4,175,602.94
	<hr/> <hr/>
Expenses recovered.....	\$ 44,584.13
	<hr/> <hr/>

It should be noted that payment of grants to Universities, to charitable institutions, to the Ecoles Ménagères and to the Technical School should preferably come under another Service than the Health Department.

To establish the per capita expenditure, we are under the obligation of taking as a basis the expenses of the new fiscal year and the evaluation of the population for 1940; consequently, the population having been estimated at 907,000 inhabitants, we arrive at the following result:

For hygiene properly speaking..... \$0.71 per capita.

For municipal assistance..... \$2.84 per capita.

The following list shows the detail of expenditure during the fiscal year 1940-41:

### Hygiene

#### GENERAL ADMINISTRATION EXPENSES:

General expenses..... \$ 74,577.21

#### DIRECTOR'S OFFICE:

Salaries.....	\$35,354.57	
Administration.....	273.06	
	<hr/>	\$ 35,627.63

#### SANITATION:

Salaries.....	\$60,782.70	
Administration.....	903.45	
	<hr/>	\$ 61,686.15

## CONTAGIOUS DISEASES:

Salaries.....	\$ 46,487.00	
Administration.....	6,954.95	
	<u>          </u>	\$ 53,441.95

## FOOD INSPECTION:

Salaries.....	\$ 99,708.75	
Administration.....	1,686.41	
	<u>          </u>	\$ 101,395.16

## CHILD HYGIENE:

Salaries.....	\$239,580.94	
Administration.....	24,038.05	
	<u>          </u>	\$ 263,618.99

## MEDICAL CONTROL:

Salaries.....	\$ 21,367.56	
Administration.....	170.78	
	<u>          </u>	\$ 21,538.34

## STATISTICS:

Salaries.....	\$ 7,538.84	
Administration.....	231.71	
	<u>          </u>	\$ 7,770.55

## LABORATORIES:

Salaries.....	\$ 18,991.77	
Administration.....	2,692.02	
	<u>          </u>	\$ 21,683.79

## MUNICIPAL ASSISTANCE:

Salaries.....	\$ 43,499.87	
Administration.....	1,364.10	
	<u>          </u>	\$ 44,863.97

## ART. 338a OF THE CITY CHARTER:

## MEURLING REFUGE:

Salaries.....	\$ 12,465.59	
Food.....	} 23,219.06	
Maintenance.....		
Linen.....		
	_____	\$ 35,684.65

## OBLIGATORY EXPENSES:

Quebec Statutes.....	\$2,114,100.22
Contracts and resolutions of the Executive Com- mittee.....	399,472.71
	_____
Total.....	<u><u>\$2,513,572.93</u></u>

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## **Demographic Movement**

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## POPULATION

On July 1st 1940, the population of the City of Montreal, computed by the Superintendent of the Division of Statistics of the Department of Health, was estimated at 907,000 inhabitants.

The rates of births, marriages and deaths are consequently based on that figure.

The birth and mortality rates are for residents of Montreal only after elimination of non-residents and inclusion of residents of Montreal, born or deceased outside the City.

## BIRTH RATE

The number of births in 1940 reached 18,713; in 1939 it had been 17,116; showing, therefore, an increase of 1,597 over the preceding year and, also, an increase of 1,651, as compared to 1938.

The proportion of births per 1,000 inhabitants for 1940, based on the valuation of the population at 907,000, is 20.63 showing an increase of 1.61 over the preceding year; it also represents an increase of 1.28 over the average for the five years from 1935 to 1939 and a decrease of 0.85 as compared to the average for the ten preceding years.

Table I compares the number and the rate of births for the year 1940 with the ten preceding years, taken separately and in groups of five and of ten years.

TABLE I

## BIRTHS

## Period 1930-1934 (5 years)

Years	Population	Number of births	Proportion per 1,000 inhabitants
1930.....	796,800	20,993	26.33
1931.....	818,577	20,699	25.29
1932.....	833,000	19,997	24.01
1933.....	847,000	18,431	21.76
1934.....	855,000	18,433	21.56
Average.....	829,915	19,711	23.76

## Period 1935-1939 (5 years)

1935.....	863,000	17,361	20.12
1936.....	875,000	16,725	19.11
1937.....	885,000	17,180	19.41
1938.....	893,000	17,062	19.10
1939.....	900,000	17,116	19.02
Average.....	883,200	17,089	19.35

## Period 1930-1939 (10 years)

Average.....	856,558	18,400	21.48
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## Year 1940

Year 1940.....	907,000	18,713	20.63
----------------	---------	--------	-------

## MARRIAGE RATE

In 1940, there were 12,326 marriages, as against 10,650 in 1939 representing an increase of 1,676 over the preceding year.

The proportion per thousand of population is therefore 13.59 for 1940; it is an increase of 4.03 over the average of the five years 1935 to 1939, and of 5.03 over the average for the ten years 1930 to 1939.

Table II compares the rate and the number of marriages in 1940 with the preceding ten years taken separately and in groups of five and ten years.

**TABLE II**  
**MARRIAGES**

**Period 1930-1934 (5 years)**

Years	Population	Number of marriages	Proportion per 1,000 inhabitants
1930.....	796,800	6,643	8.34
1931.....	818,577	6,196	7.57
1932.....	833,000	5,780	6.93
1933.....	847,000	5,964	7.04
1934.....	855,000	6,536	7.64
Average.....	829,915	6,224	7.50

**Period 1935-1939 (5 years)**

1935.....	863,000	7,035	8.14
1936.....	875,000	7,633	8.72
1937.....	885,000	8,305	9.38
1938.....	893,000	8,608	9.64
1939.....	900,000	10,650	11.83
Average.....	883,200	8,446	9.56

**Period 1930-1939 (10 years)**

Average.....	856,558	7,335	8.56
--------------	---------	-------	------

**Year 1940**

Year 1940.....	907,000	12,326	13.59
----------------	---------	--------	-------

**DEATH RATE**

The number of deaths in 1940 amounted to 9,296 as against 9,191 in 1939, showing, consequently, an increase of 105 deaths.

The proportion of deaths compared to the population is 10.25 per thousand, as against 10.21 in 1939, or an increase of 0.04.

The 1940 death rate is 0.20 per thousand below the average for the five years from 1935 to 1939 and of 0.72 below the average of the ten preceding years.

Table III shows a statement of the mortality since 1930 for each year separately and by groups of five and ten years.

**TABLE III**

**DEATHS**

**Period 1930-1934 (5 years)**

Years	Population	Number of deaths	Proportion per 1,000 inhabitants
1930.....	796,800	10,256	12.87
1931.....	818,577	9,886	12.08
1932.....	833,000	9,728	11.68
1933.....	847,000	8,975	10.60
1934.....	855,000	8,955	10.47
Average.....	829,915	9,560	11.52

**Period 1935-1939 (5 years)**

1935.....	863,000	9,162	10.62
1936.....	875,000	8,934	10.21
1937.....	885,000	9,738	11.00
1938.....	893,000	9,125	10.22
1939.....	900,000	9,191	10.21
Average.....	883,200	9,230	10.45

**Period 1930-1939 (10 years)**

Average.....	856,558	9,395	10.97
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**Year 1940**

Year 1940.....	907,000	9,296	10.25
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## NATURAL INCREASE OF THE POPULATION

The natural increase of the population is represented by the surplus of births over deaths.

In 1940 the excess of births over deaths was 9,417 while the average for the ten years from 1930 to 1939 was 9,005, or an increase of 412.

The natural increase of the population shows for the year 1940 a rate of 10.4 per thousand of population.

**Table IV**

### Natural Increase of the Population

Years	Births	Deaths	Excess of births over deaths
1930-1934 (5 years).....	98,553	47,800	50,753
1935-1939 (5 years).....	85,444	46,150	39,294
1930-1939 (average 10 years).....	18,400	9,395	9,005
Year 1940.....	18,713	9,296	9,417

## INFANT MORTALITY

The number of deaths registered in 1940, of children under one year, was 1,110 as against 1,223 in 1939, showing a decrease of 113.

The proportion per 1,000 births was 59.3 in 1940 as against 71.5 in 1939, representing a decrease of 12.2 per thousand.

If the proportion of deaths had been as high as the average rate of the past ten years, 673 more deaths would have been recorded.

Table V indicates the variations in infant mortality since 1930 for each year separately and in groups of five and of ten years.

## Tableau V

## Deaths from 0 to 1 year per 1,000 births

(Still-born not included)

## Period 1930-1934 (5 years)

Years	Births	Deaths under one year	Proportion per 1,000 births
1930.....	20,993	2,620	124.8
1931.....	20,699	2,345	113.3
1932.....	19,997	1,979	98.9
1933.....	18,431	1,817	98.6
1934.....	18,433	1,674	90.8
Average.....	19,711	2,087	105.9

## Period 1935-1939 (5 years)

1935.....	17,361	1,602	92.2
1936.....	16,725	1,404	83.9
1937.....	17,180	1,547	90.0
1938.....	17,062	1,320	77.4
1939.....	17,116	1,223	71.5
Average.....	17,089	1,419	83.0

## Period 1930-1939 (10 years)

Average.....	18,400	1,753	95.3
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## Year 1940

Year 1940.....	18,713	1,110	59.3
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## INFANT MORTALITY

### Legitimate and Illegitimate

Table VI shows the difference which exists in infant mortality between legitimate and illegitimate children.

TABLE VI  
 INFANT MORTALITY  
 LEGITIMATE AND ILLEGITIMATE  
 1940

Racial origin	Births	Deaths 0 to 1 year	Rate per 1,000 births
LEGITIMATE:			
1 French.....	12,844	762	59.3
2 British.....	2,833	98	34.6
3 Jewish.....	833	19	22.3
4 Others.....	1,186	43	37.0
Total.....	17,696	922	52.2
ILLEGITIMATE:			
1 French.....	827	172	208.0
2 British.....	196	13	78.3
3 Jewish.....	6	.....	0.0
4 Others.....	46	3	65.2
Total.....	1,075	188	179.9
Grand total.....	18,771	1,110	59.3

## INFANT DIARRHOEA

Table VII gives the figures for infant mortality from diarrhoea during the last ten years, among children from 0 to 1 year, as well as in periods of five years from 1930 and the averages for periods of five and ten years.

The percentage of deaths from diarrhoea for children from 0 to 1 year in 1940 as compared to the total of deaths among these children was 10.5, while the average for the ten years, from 1930-1939 has been 25.4 or a decrease of 14.9 as compared to the year 1940.

**Table VII**

### Deaths from Diarrhoea, from 0 to 1 year

#### Period 1930-1934 (5 years)

Years	Total of deaths 0 to 1 year	Deaths by diarrhoea 0 to 1 year	Percentage of deaths by diarrhoea
1930.....	2,620	877	33.5
1931.....	2,345	817	34.8
1932.....	1,979	614	31.0
1933.....	1,817	487	26.8
1934.....	1,674	428	25.6
Average.....	2,087	645	30.9

#### Period 1935-1939 (5 years)

1935.....	1,602	301	18.8
1936.....	1,404	184	13.1
1937.....	1,547	302	19.5
1938.....	1,320	194	14.7
1939.....	1,223	238	19.5
Average.....	1,419	244	17.2

#### Period 1930-1939 (10 years)

Average.....	1,753	445	25.4
--------------	-------	-----	------

#### Year 1940

Year 1940.....	1,110	116	10.5
----------------	-------	-----	------



## DEATHS FROM DIARRHOEA, FROM 0 TO 2 YEARS

Table VIII indicates the mortality from diarrhoea among children from 0 to 2 years. The percentage of deaths from these diseases in 1940 was 10.6 against 17.7 in 1939, which shows a decrease of 7.1 per cent; the average for the ten preceding years from 1930 to 1939 is 24.1; 1940 indicates a decrease of 13.5 compared to this average.

**Table VIII**

### Deaths from Diarrhoea, from 0 to 2 years

#### Period 1930-1934 (5 years)

Years	Total of deaths 0 to 2 years	Deaths by diarrhoea 0 to 2 years	Percentage of deaths by diarrhoea
1930.....	2,985	966	32.4
1931.....	2,676	877	32.8
1932.....	2,267	664	29.3
1933.....	2,022	516	25.5
1934.....	1,893	463	24.5
Average.....	2,369	697	29.4

#### Period 1935-1939 (5 years)

1935.....	1,883	331	17.6
1936.....	1,606	204	12.7
1937.....	1,804	333	18.5
1938.....	1,482	208	14.0
1939.....	1,371	256	17.7
Average.....	1,629	266	16.3

#### Period 1930-1939 (10 years)

Average.....	1,999	482	24.1
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#### Year 1940

Year 1940.....	1,205	128	10.6
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**PERCENTAGE OF DEATHS 0 TO 1 YEAR, COMPARED  
WITH THE TOTAL OF DEATHS**

Table IX indicates the proportion of deaths from 0 to 1 year compared to the total of deaths; it was 11.9 per cent in 1940, or a decrease of 1.4 as compared to the preceding year, and a decrease of 3.5 from the average for the five years 1935 to 1939.

**Table IX**

**Percentage of deaths 0 to 1 year, compared with  
the total of deaths**

**Period 1930-1934 (5 years)**

Years	Total deaths	Deaths from 0 to 1 year	Percentage.
1930.....	10,256	2,620	25.5
1931.....	9,886	2,345	23.7
1932.....	9,728	1,979	20.3
1933.....	8,975	1,817	20.2
1934.....	8,955	1,674	18.7
Average.....	9,560	2,087	21.8

**Period 1935-1939 (5 years)**

1935.....	9,162	1,602	17.5
1936.....	8,934	1,404	15.7
1937.....	9,738	1,547	15.9
1938.....	9,125	1,320	14.5
1939.....	9,191	1,223	13.3
Average.....	9,230	1,419	15.4

**Period 1930-1939 (10 years)**

Average.....	9,395	1,753	18.7
--------------	-------	-------	------

**Year 1940**

Year 1940.....	9,296	1,110	11.9
----------------	-------	-------	------

**Percentage by groups of ages, of deaths under 1 year,  
compared to the total of deaths from 0 to 1 year**

Table X allows us to compare the percentage, by age groups, of deaths under one year with the total of deaths from 0 to 1 year, since the year 1935.

This table shows, besides, the average for the five years 1935 to 1939, and the percentage for 1940.

**Table X**

**Percentage by groups of ages, of deaths under 1 year,  
compared to the total of deaths from 0 to 1 year**

AGE	1935	1936	1937	1938	1939	Average 5 years	1940
Under 24 hours . . . . .	17.0	17.9	18.2	21.1	17.7	18.4	22.5
1 day to 1 week . . . . .	13.9	12.4	12.4	13.9	13.0	13.1	15.3
1 week to 1 month . . . . .	10.5	12.8	10.2	10.6	11.8	11.2	11.5
1 to 3 months . . . . .	18.8	19.0	15.0	17.0	19.8	17.9	19.4
3 to 5 months . . . . .	17.2	16.3	17.5	16.1	19.8	17.4	14.1
6 to 9 months . . . . .	13.3	13.7	13.2	11.8	11.1	12.6	9.6
9 to 12 months . . . . .	9.3	7.9	13.5	9.5	6.8	9.4	7.6
Total . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**Percentage of deaths from certain causes, compared  
with the total of deaths, from 0 to 1 year**

Table XI indicates the percentage of deaths from certain causes, compared to the total of deaths from 0 to 1 year.

It will be noted that diarrhoeal diseases which were, for many years, the chief cause of deaths among children from 0 to 1 year, have diminished regularly, and were in 1940, only the fifth cause of deaths: premature deaths being the leading cause.

The diarrhoeal diseases for 1940 as compared to the average of the five years 1935 to 1939, indicate a decrease of 6.6 per cent.

**Table XI**

**Percentage of deaths from certain causes, compared with the total of deaths, from 0 to 1 year**

Causes of deaths	1935	1936	1937	1938	1939	Average 5 years	1940
Pneumonia (108-9).....	1.7	2.5	2.1	2.6	2.0	2.2	3.0
Br.-pneumonia (107).....	15.5	20.1	16.9	17.4	14.4	16.9	13.7
Diseases of the stomach (117)....	0.2	0.3	0.1	0.0	0.0	0.1	0.1
Diarrhoea and enteritis (119)....	18.8	13.1	19.5	14.7	19.5	17.1	10.5
Malformation (157).....	8.9	7.8	7.8	8.4	8.3	8.2	11.7
Premature births (159).....	19.7	23.1	20.6	22.0	20.3	21.2	24.7
Congenital debility..	13.7	12.4	12.0	15.2	14.3	13.5	16.8
Meningitis (simple) (79).....	0.6	0.8	1.0	1.1	0.9	0.9	0.5
Syphilis (34).....	2.8	2.0	1.6	1.0	2.7	2.0	1.2
Contagious diseases.....	9.6	6.6	10.5	9.5	7.8	8.8	7.6
Otitis (89).....	2.7	3.5	3.3	2.3	3.4	3.0	4.2
Others.....	5.8	7.8	4.6	5.8	6.4	6.1	6.0
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**CASES REPORTED AND DEATHS FROM CERTAIN  
CONTAGIOUS DISEASES**

Table XII shows the number of cases reported and of deaths from certain contagious diseases, per periods of five years from 1930 to 1934 and from 1935 to 1939, the average of these two periods of five and ten years and comparative figures for the year 1940.

Table XII

Cases reported and deaths from certain contagious diseases  
Period 1930-1934 (5 years)

Years		Diph- theria	Scarlet fever	Mea- sles	Whoop- ing cough	Erysi- pelas	Chick- en pox	Small- pox	Ty- phoid fever
1930	Cases	930	2364	2077	2014	206	2723	5	196
	Deaths	83	41	21	76	35	2	—	40
1931	Cases	706	1730	7333	964	170	2501	—	129
	Deaths	71	20	30	29	20	5	—	34
1932	Cases	607	1840	3655	2219	216	2070	—	166
	Deaths	53	24	47	91	27	1	—	37
1933	Cases	297	1300	472	3271	183	4135	—	117
	Deaths	18	26	2	71	32	4	—	31
1934	Cases	244	2114	5132	4250	173	3657	—	98
	Deaths	30	38	34	94	31	3	—	17
Average (5 years)	Cases	557	1870	3734	2544	190	3017	1	141
	Deaths	51	30	27	72	29	3	—	32

Period 1935-1939 (5 years)

1935	Cases	183	3363	8791	1515	177	4102	—	113
	Deaths	21	48	54	87	17	2	—	24
1936	Cases	166	1742	4092	2342	177	4432	—	80
	Deaths	18	20	28	40	17	5	—	8
1937	Cases	249	1540	5310	4290	171	3276	—	115
	Deaths	26	17	84	99	17	2	—	16
1938	Cases	222	2039	2608	2351	202	4126	—	108
	Deaths	26	17	38	41	13	6	—	17
1939	Cases	143	1374	8831	2313	153	3647	—	103
	Deaths	19	8	42	30	5	4	—	9
Average (5 years)	Cases	193	2012	5926	2562	176	3917	—	104
	Deaths	22	22	49	59	14	4	—	15

Period 1930-1939 (10 years)

Average (10 years)	Cases	375	1941	4830	2553	183	3467	0.5	122
	Deaths	36	26	38	66	21	3	—	23

Year 1940

1940	Cases	134	2135	1483	4912	117	5165	—	79
	Deaths	11	8	2	72	8	6	—	15



**Year 1940—Deaths from 0 to 1 year—**  
 Table XIII indicates that death of nurslings  
 1. In babies under 24 hours and in those  
 2. During the months of April and March.

Table

Month		Under 24 hours		1 day to 1 week		1 week to 1 month	
		Sex	Total	Sex	Total	Sex	Total
January.....	M	8	22	6	16	4	6
	F	14		10		2	
February.....	M	11	18	14	19	3	10
	F	7		5		7	
March.....	M	15	24	9	16	5	11
	F	9		7		6	
April.....	M	9	23	12	16	9	11
	F	14		4		2	
May.....	M	12	22	11	14	7	12
	F	10		3		5	
June.....	M	11	22	6	10	6	10
	F	11		4		4	
July.....	M	12	22	7	11	5	10
	F	10		4		5	
August.....	M	10	20	6	12	10	13
	F	10		6		3	
September.....	M	9	19	5	8	8	13
	F	10		3		5	
October.....	M	16	26	14	23	2	5
	F	10		9		3	
November.....	M	10	15	6	14	6	15
	F	5		8		9	
December.....	M	9	17	8	11	9	12
	F	8		3		3	
Total.....	M	132	250	104	170	74	128
	F	118		66		54	
Monthly average.....		20.8		14.2		10.7	
Per cent %.....		22.5		15.3		11.5	

### Classified by month, sex and age categories

have been more numerous:

from 1 to 3 months.

### III

1 to 3 months		3 to 6 months		6 to 9 months		9 to 12 months		TOTAL	
Sex	Total	Sex	Total	Sex	Total	Sex	Total	Sex	Total
12 7	19	9 9	18	5 1	6	2 6	8	46 49	95
9 8	17	9 5	14	5 6	11	4 4	8	55 42	97
14 8	22	7 11	18	7 3	10	6 4	10	63 48	111
13 9	22	11 8	19	13 6	19	6 3	9	73 46	119
9 5	14	6 3	9	8 6	14	3 2	5	56 34	90
6 8	14	6 2	8	6 1	7	7 3	10	48 33	81
12 7	19	3 8	11	4 3	7	2 3	5	45 40	85
11 3	14	6 3	9	2 3	5	4 3	7	49 31	80
9 5	14	7 4	11	4 3	7	3 4	7	45 34	79
13 6	19	3 5	8	3 1	4	.. 2	2	51 36	87
12 4	16	7 7	14	4 3	7	4 3	7	49 39	88
13 12	25	10 8	18	7 2	9	3 3	6	59 39	98
133 82	215	84 73	157	68 38	106	44 40	84	639 471	1110
17.9		13.1		8.8		7.0		92.5	
19.4		14.1		9.6		7.6		100.0	



## A FEW PRINCIPAL CAUSES OF GENERAL MORTALITY

Table XIV shows the principal causes of death from 1930 to 1934 and from 1935 to 1939, and the average for each of these five year periods. It shows, besides, the averages of deaths from the same causes for the 10 years from 1930 to 1939 and deaths during the year 1940.

**Table XIV**

### A few principal causes of general mortality

<b>Period 1930-1934 (5 years)</b>					
Years	Cancer	Bright's disease	Organic diseases of the heart	Broncho pneu- monia	Pneu- monia
1930.....	806	664	1,235	540	500
1931.....	808	741	1,322	452	328
1932.....	823	889	1,326	411	360
1933.....	931	787	1,362	339	305
1934.....	907	851	1,435	354	253
Average.....	875	786	1,336	419	349
<b>Period 1935-1939 (5 years)</b>					
1935.....	995	916	1,410	401	278
1936.....	990	1,003	1,551	469	259
1937.....	1,031	965	1,598	449	330
1938.....	1,099	975	1,631	382	278
1939.....	1,141	1,078	1,826	336	243
Average.....	1,051	987	1,603	407	278
<b>Period 1930-1939 (10 years)</b>					
Average.....	963	887	1,470	413	313
<b>Year 1940</b>					
Year 1940.....	1,249	1,153	2,028	256	203

### Proportion of deaths from diseases mentioned in Table XIV compared to the total of deaths

Table XV shows the proportion of deaths in periods of 5 years, the average for the five years from 1930 to 1934 and from 1935

to 1939, and the average for the ten years from 1930 to 1939, from the diseases mentioned in Table XIV, compared to the total of deaths, and deaths from the same diseases for the year 1940.

This table indicates, for 1940 compared to 1939, an increase of 1.9 in the proportion of deaths from organic diseases of the heart.

There was a decrease of 0.4% in the proportion of deaths from pneumonia and also a decrease of 0.9% in those from broncho-pneumonia.

**Table XV**

**Proportion of deaths from diseases mentioned in  
Table XIV compared to the total of deaths**

<b>Period 1930-1934 (5 years)</b>						
Years	Total of deaths	Cancer	Bright's disease	Organic diseases of the heart	Broncho- pneu- monia	Pneu- monia
1930.....	10,256	7.9	6.5	12.0	4.3	3.4
1931.....	9,886	8.2	7.5	13.5	4.5	3.3
1932.....	9,728	8.5	9.1	13.6	4.2	3.7
1933.....	8,975	10.7	8.8	15.2	3.8	3.4
1934.....	8,955	10.1	9.5	16.0	3.9	2.8
Average....	9,560	9.1	8.2	14.0	4.4	3.7
<b>Period 1935-1939 (5 years)</b>						
1935.....	9,162	10.8	10.0	15.4	4.3	3.3
1936.....	8,934	11.1	11.2	17.4	5.3	2.9
1937.....	9,738	10.6	9.9	16.4	4.6	3.4
1938.....	9,125	12.0	10.6	17.9	4.2	3.0
1939.....	9,191	12.4	11.7	19.9	3.7	2.6
Average....	9,230	11.4	10.7	17.4	4.4	3.0
<b>Period 1930-1939 (10 years)</b>						
Average....	9,395	10.2	9.4	15.6	4.4	3.3
<b>Year 1940</b>						
Year 1940..	9,296	13.4	12.4	21.8	2.8	2.2

## DEATHS PER 100,000 POPULATION, FROM DISEASES MENTIONED IN TABLE XIV FROM 1930 TO 1939

Table XVI indicates the proportion of deaths per 100,000 population, from diseases mentioned in Table XIV for the years 1930 to 1939, in periods of five years, the average for five years from 1930 to 1934 and from 1935 to 1939, the average for ten years from 1930 to 1939, as well as the average of deaths for the year 1940.

A study of this table shows that, in 1940, the proportion of deaths from cancer has increased 10.9 compared to 1939; it is 32.3 higher than the average for the five years 1930 to 1934, 18.7 higher than the average for the five years 1935 to 1939; and 25.3 higher than the average for the ten years 1930 to 1939.

Consequently, the death rate for cancer is constantly increasing and corresponds with the observations gathered in a great number of countries.

Deaths from Bright's disease, which were 1,078 in 1939, were 1,153 in 1940, an increase of 75. If we consider these deaths in relation to the population, we arrive at an average of 111.8 per 100,000 inhabitants for the five preceding years; of 103.5 for the ten years and, for 1940, of 127.1.

This year, there is an increase of 7.3 over 1939; it is also an increase of 32.4 for 1940 as compared to the period 1930-1934, and an increase of 15.3 as compared to the five year period 1935 to 1939. For the 10 year period from 1930 to 1939, the increase is 23.6.

Deaths from organic diseases of the heart have slightly increased in 1940 as compared to 1939; for the past 10 years they have been one of the highest causes of deaths.

Pneumonia, which in 1939 caused 243 deaths, caused this year 203 deaths; broncho-pneumonia also registered a decrease: in 1939, 336 deaths as compared to 256 in 1940.

Table XVI

## Deaths per 100,000 population, from diseases mentioned in Table XIV

## Period 1930-1934 (5 years)

Years	Popula- tion	Cancer	Bright's disease	Organic diseases of the heart	Broncho- pneu- monia	Pneu- monia
1930.....	796,800	101.2	83.3	155.0	67.8	62.7
1931.....	818,577	98.7	90.5	161.5	55.2	40.1
1932.....	833,000	98.8	106.7	159.2	49.3	43.2
1933.....	847,000	109.9	92.9	160.8	40.0	36.0
1934.....	855,000	106.1	99.5	167.8	41.4	29.6
Average....	829,915	105.4	94.7	161.0	50.5	42.1

## Period 1935-1939 (5 years)

1935.....	863,000	115.3	106.1	163.4	46.5	32.2
1936.....	875,000	113.2	114.6	177.3	53.6	29.6
1937.....	885,000	116.5	109.0	180.6	50.7	37.3
1938.....	893,000	123.1	109.2	182.6	42.8	30.0
1939.....	900,000	126.8	119.8	203.0	37.3	27.0
Average....	883,200	119.0	111.8	181.5	46.1	31.5

## Period 1930-1939 (10 years)

Average....	856,558	112.4	103.5	171.6	48.2	36.5
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## Year 1940

Year 1940..	907,000	137.7	127.1	223.6	28.2	22.4
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## MORTALITY FROM TUBERCULOSIS

The number of deaths from tuberculosis, in all its forms, was 581 in 1940 as compared to 631 in 1939; it shows consequently a decrease of 50 on the total number. The proportion per 100,000

population which, in 1939 was 70.1, is 64.1 in 1940, showing a decrease of 6.0; 1940 shows a decrease of 25.2 as compared to the average for ten years, 1930 to 1939.

Table XVII shows the number of deaths in the last ten years, pulmonary and other forms separately, the general total as well as the proportion per 100,000 population; it is divided into two parts and indicates the average of deaths in periods of five and ten years and also the number of deaths for the year 1940.

**Table XVII**

**Deaths from Tuberculosis**

Years	Period 1930-1934 (5 years)				
	Popula- tion	Pulmo- nary	Other forms	Total	Proportion per 100,000 in- habitants
1930.....	796,800	806	177	983	123.4
1931.....	818,577	766	121	887	108.3
1932.....	833,000	722	112	834	100.0
1933.....	847,000	670	141	811	95.8
1934.....	855,000	600	113	713	83.4
Average.....	829,915	713	133	846	101.9
Period 1935-1939 (5 years)					
1935.....	863,000	546	101	647	74.9
1936.....	875,000	627	119	746	85.3
1937.....	885,000	615	111	726	82.0
1938.....	893,000	585	83	668	74.8
1939.....	900,000	542	89	631	70.1
Average.....	883,200	583	101	684	77.4
Period 1930-1939 (10 years)					
Average.....	856,558	648	117	765	89.3
Year 1940					
Year 1940.....	907,000	510	71	581	64.1

## MATERNAL MORTALITY

Table XVIII shows the rate of maternal mortality for the last ten years per period of five years, from 1930 to 1934 and from 1935 to 1939, and the proportion for 1940.

The rate of maternal mortality in 1940 was 3.64, as compared to 3.07 in 1939.

**Table XVIII**

### Maternal Mortality

#### Period 1930-1934 (5 years)

Years	Births			No. of maternal deaths	Rate for 1,000 births	
	Live births	Deaths	Total		Live births	live births and still-born
1930	20,993	684	21,677	109	5.19	5.03
1931	20,699	751	21,450	90	4.34	4.20
1932	19,997	643	20,640	99	4.95	4.80
1933	18,431	565	18,996	92	4.99	4.84
1934	18,433	495	18,928	97	5.26	5.12
Average	19,711	627	20,338	97	4.92	4.77

#### Period 1935-1939 (5 years)

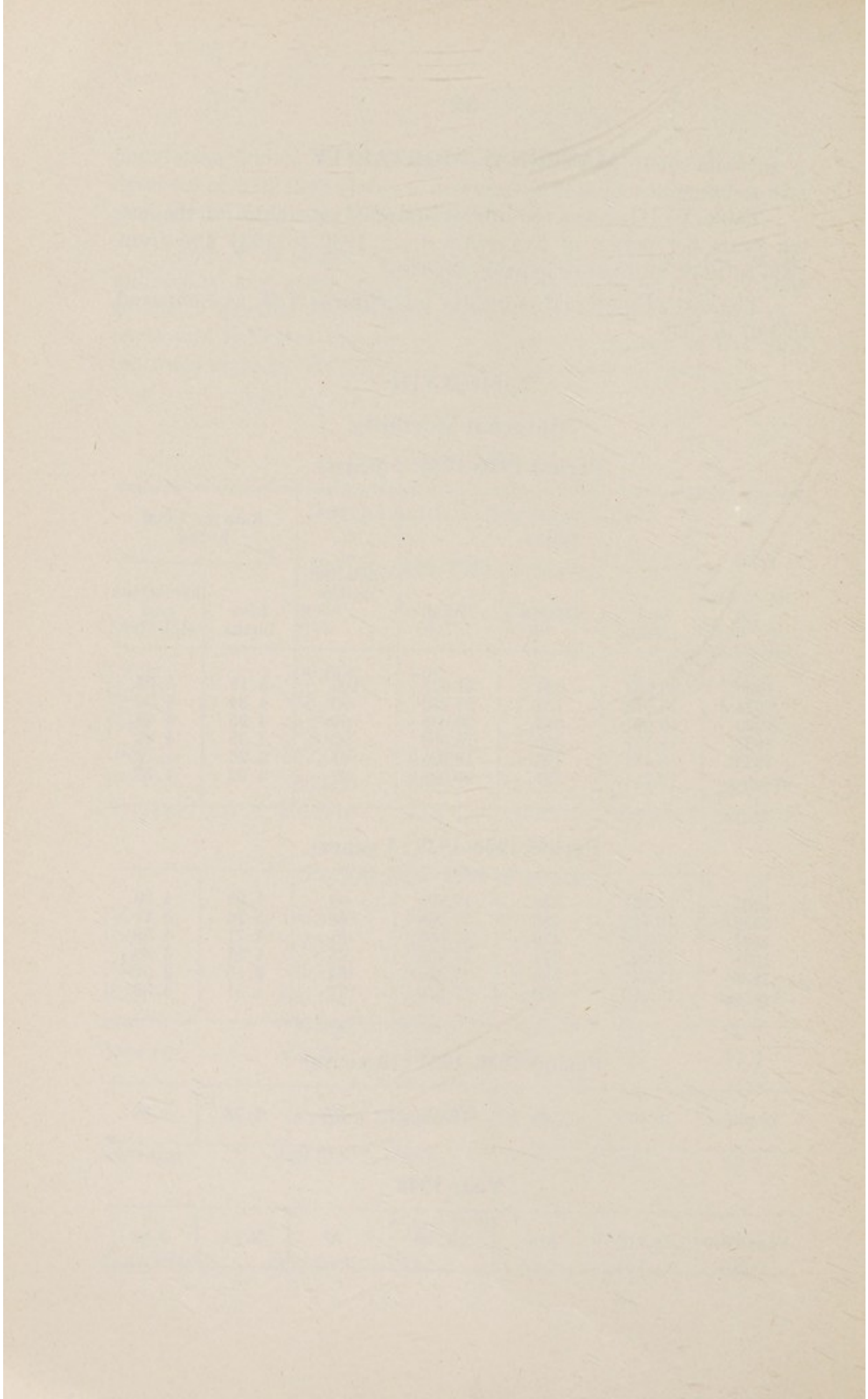
1935	17,361	538	17,899	86	4.95	4.80
1936	16,725	483	17,208	88	5.26	5.11
1937	17,180	479	17,659	81	4.71	4.59
1938	17,062	471	17,533	77	4.51	4.39
1939	17,116	480	17,596	54	3.16	3.07
Average	17,089	490	17,579	77	4.51	4.38

#### Period 1930-1939 (10 years)

Average	18,400	558	18,958	87	4.73	4.59
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#### Year 1940

Year 1940	18,713	513	19,226	70	3.74	3.64
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## **Comments**

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## INFLUENZA

Every year, during Autumn and Winter, there is a certain incidence of influenza.

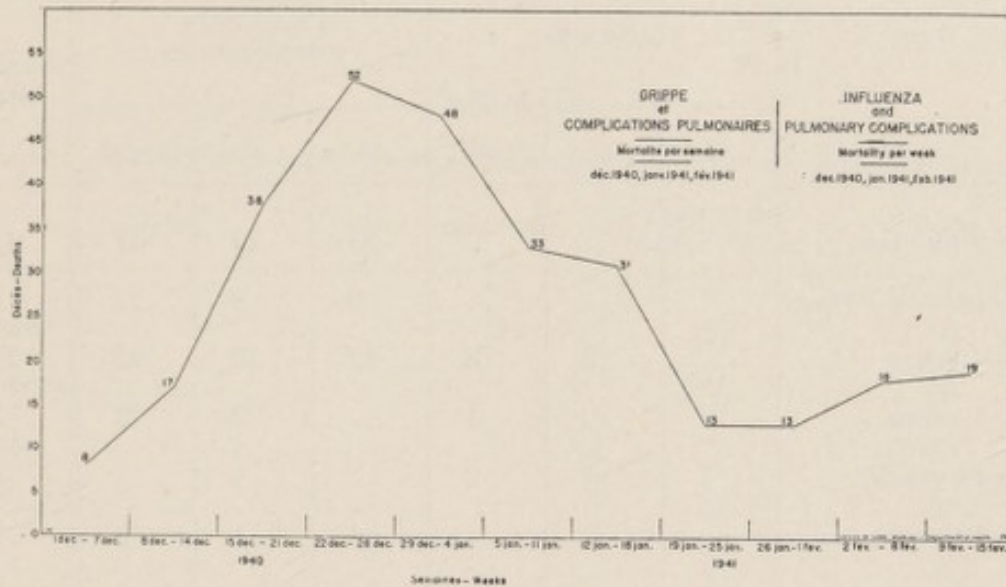
At the end of 1940 and early in 1941 we had an increase in the number of cases of this malady in Montreal which spread with epidemic-like swiftness, during which the number of deaths attributable to this cause and to pulmonary complications reached 290, or, an increase of 147 compared with the corresponding period in 1939-40.

Table I

This table indicates the number of deaths from influenza and pulmonary complications in Montreal, week by week, from December 1st 1940 to February 15th 1941.

Week	Deaths		
	Influenza	Pulmonary complications	Total
1 1-7 December 1940.....	..	8	8
2 8-14 December 1940.....	1	16	17
3 15-21 December 1940.....	5	33	38
4 22-28 December 1940.....	5	47	52
5 29 December 1940 to 4 January 1941.....	1	47	48
6 5-11 January 1941.....	5	28	33
7 12-18 January 1941.....	1	30	31
8 19-25 January 1941.....	2	11	13
9 26 January to 1 February 1941	2	11	13
10 2-8 February 1941.....	1	17	18
11 9-15 February 1941.....	2	17	19

Graph A



The number of cases could not be determined since this disease is infrequently reported by doctors. We can however state that 25% of the population (approximate rate) was attacked.

The disease was more serious among children and older persons, as can be seen from the following table. It shows that in the same period of time, about 25% of the deaths occurred among children under five years of age, and 34% among adults over 55 years old.

Table II

Number of deaths caused by influenza and pulmonary complications, by age groups, from December 1st 1940 to February 15th 1941

Ages	Deaths						Grand total
	Influenza			Pulmonary complications			
	M	F	Total	M	F	Total	
0 to 6 months.....	..	..	..	25	22	47	47
6 months to 1 year.	..	..	..	9	8	17	17
1 to 4 years.....	..	3	3	12	10	22	25
5 to 9 years.....	1	..	1	..	2	2	3
10 to 14 years.....	1	1	2	..	1	1	3
15 to 19 years.....	..	..	..	4	1	5	5
20 to 24 years.....	..	..	..	1	..	1	1
25 to 29 years.....	..	..	..	1	2	3	3
30 to 34 years.....	..	1	1	2	2	4	5
35 to 39 years.....	1	..	1	3	7	10	11
40 to 44 years.....	1	1	2	6	2	8	10
45 to 49 years.....	..	..	..	7	6	13	13
50 to 54 years.....	..	..	..	8	3	11	11
55 to 59 years.....	..	2	2	11	7	18	20
60 to 64 years.....	1	..	1	6	6	12	13
65 to 69 years.....	..	1	1	6	9	15	16
70 to 79 years.....	2	3	5	18	17	35	40
80 to 89 years.....	1	4	5	9	23	32	37
90 years and over...	..	1	1	..	9	9	10
Total.....	8	17	25	128	137	265	290

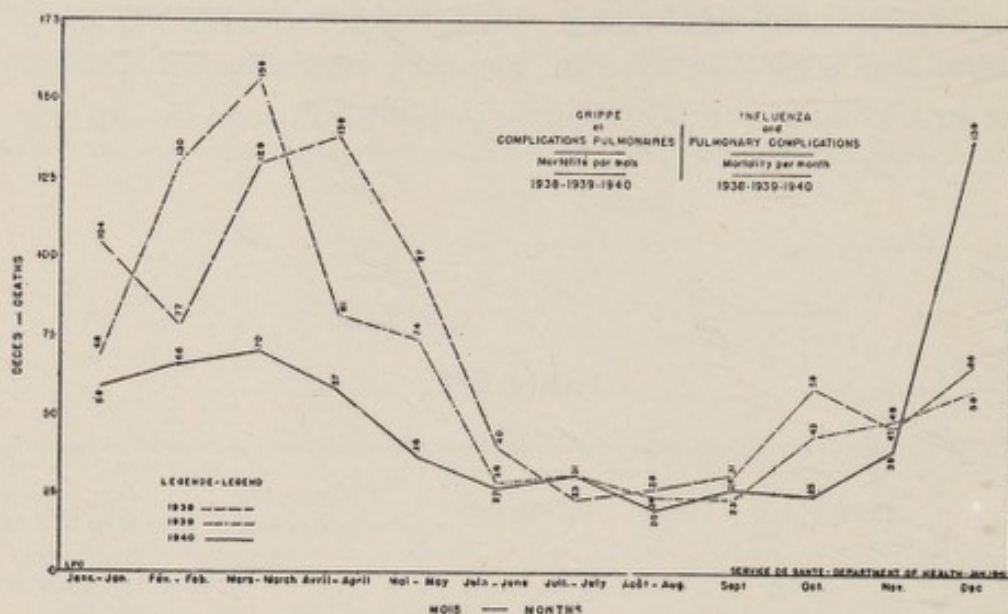
Table III following shows, for 1940, the number of deaths from influenza and pulmonary complications month by month; it permits observation of the increase occurring in December owing to a greater number of cases of mild influenza in our city.

**Table III**

1940	Influenza	Pulmonary complications	Total
January.....	2	56	58
February.....	1	65	66
March.....	..	70	70
April.....	..	57	57
May.....	..	36	36
June.....	..	27	27
July.....	1	30	31
August.....	..	20	20
September.....	2	24	26
October.....	1	24	25
November.....	..	39	39
December.....	12	126	138
Grand total.....	19	574	593

Graph B following shows the death curve for influenza and pulmonary complications, monthly, for the years 1938-39 and 1940 in Montreal.

Graph B



This graph shows a steeply mounting curve for the years 1938 and 1939 for February, March and April; a lower curve for the corresponding months in 1940, although denoting the presence of the malady to a certain extent. The curve rises sharply in December.

### Preventive measures taken by the Department of Health

Prophylaxis of influenza should be considered from two points of view: it should be individual and collective.

Administrative measures contributing to collective prophylaxis are in the ambit of a well-organized health department; they are always of the same value, in times of epidemic and in normal times.

In every program of disease prevention education plays the chief role and this is very important. It is imperative that this should be followed up by close co-operation on the part of the medical profession: doctors, nurses, medical associations, etc.

#### I—Educating the public:

Education of the public is carried out through various means which are at our disposal: issuing of circulars and posters; press releases and interviews, contributions to medical journals, etc.; radio talks and addresses; meetings of medical associations.

A—The chief **individual prophylactic** measures to be put into practice are:

(a) in normal times: to keep in good physical condition; take plenty of exercise in the open air; take sufficient sleep in a well-ventilated room; wash the hands and face often, chiefly before meals; develop good habits of personal cleanliness; maintain a reasonable and well-balanced diet; take plenty of rest; dress warmly during cold and damp weather; avoid chills, or overheating of dwellings, etc.; maintain an even temperature, neither too high nor too low, about 68 degrees Fahrenheit; beware of draughts of cold air, or sudden changes in temperature; avoid late hours; watch for any loss in weight; avoid intemperance of all kinds; practice sterilization of the nose, mouth and throat by sprays and gargles (without however abusing these applications).

(b) in times of sickness: to avoid crowds and all fatigue; keep away from coughers; consume liquids in quantities and take hot drinks such as food drinks, tea, etc.; keep the bowels open.

(c) when sick: remain indoors and go to bed; call the doctor; follow his instructions scrupulously.

B—As a measure of collective prophylaxis: spread the knowledge of all practices tending towards general cleanliness which may protect society against the spread of the infectious or contagious disease; avoid crowds, use a clean handkerchief when coughing or sneezing to prevent infecting others; keep away from those who have the "flu"; forbid dry sweeping; avoid spitting on the sidewalks or floors; banish common drinking cups, etc.

## II—**Collaboration demanded of the medical profession, medical associations, nurses' groups and social organizations.**

There must be the closest possible co-operation between public health officials, doctors and hospitals to assure that all contribute to the fullest degree towards safeguarding public health.

They can contribute in a valuable manner by giving the health officers any useful information which they might have.

During this epidemic of influenza the "Société médicale de Montréal" organized a symposium on influenza. This active and progressive association deserves the most heartfelt thanks and congratulations for this practical gesture, which we hasten to offer.

### **Movement of influenza in Montreal since 1905**

The mild character of the disease had but slight influence upon the mortality attributable thereto. Its mortality rate in 1940 was 65.38 per 100,000 of population, the lowest rate reached as yet; it had been 184.8 for the period 1905-9; 212 from 1910-14; because of the epidemic of 1918-19 it reached 339.5 for the period 1915-19; for 1918 alone it was 735.1 per 100,000. In the last period (1935-39) it was 99.1 per 100,000.

Graph "C" shows the mortality curve during the 1918-19 epidemic, with a fresh outbreak in 1920. Since then the decrease has been gradual with slight rises in 1923, 1927-28, 1932, 1935-36-37; the downward curve becomes more evident since then, as the 1940 death rate was only 65.38 per 100,000.

The movement of influenza in Montreal therefore, year by year, shows a gradual and appreciable downward trend.

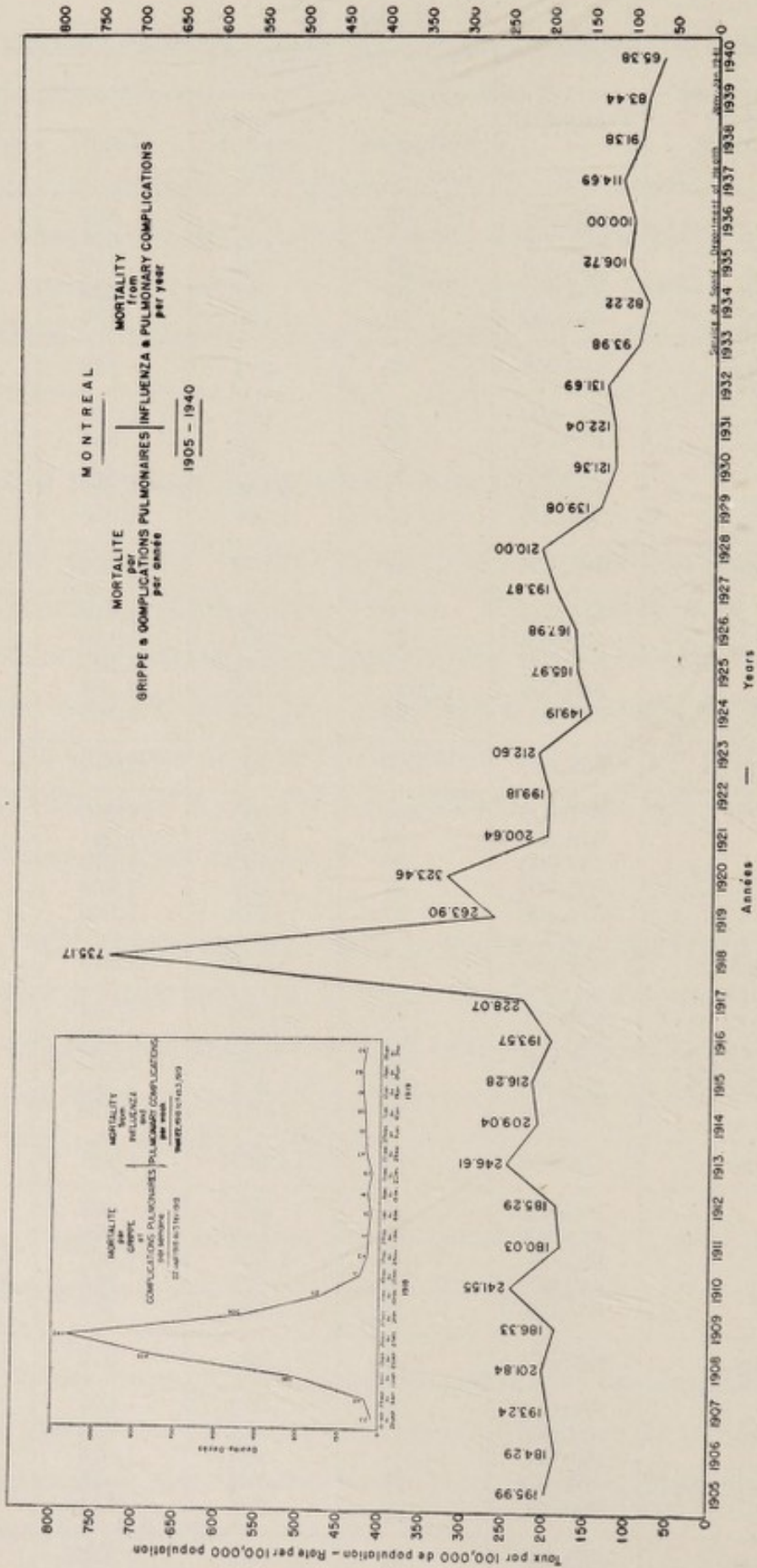
Table IV and Graph "C" which follow show the movement of "flu" in Montreal since 1905, per year and for 5-year periods, showing the number and the death rate per 100,000 of population for influenza and pulmonary complications.

Table IV

Years and 5 year periods	Population	Deaths			Rate per 100,000 population
		Influenza	Pulmonary complica- tions	Total	
1905.....	303,590	42	553	595	195.99
1906.....	350,538	35	611	646	184.29
1907.....	366,900	57	652	709	193.24
1908.....	380,000	62	767	829	201.84
1909.....	395,000	50	736	786	186.33
Average.....	359,206	49	664	713	184.85
1910.....	455,800	40	1,061	1,101	241.55
1911.....	470,480	54	793	847	180.03
1912.....	481,400	33	859	892	185.29
1913.....	493,500	72	1,145	1,217	246.61
1914.....	504,700	55	1,000	1,055	209.04
Average.....	481,176	51	971	1,022	212.40
1915.....	516,000	56	1,060	1,116	216.28
1916.....	529,000	165	1,024	1,189	193.57
1917.....	538,000	61	1,166	1,227	228.07
1918.....	580,000	2,341	1,923	4,264	735.17
1919.....	593,400	223	1,343	1,566	263.90
Average.....	551,280	569	1,303	1,872	339.57
1920.....	601,500	465	1,500	1,965	323.46
1921.....	618,506	99	1,142	1,241	200.64
1922.....	637,600	38	1,232	1,270	199.18
1923.....	655,700	57	1,337	1,394	212.60
1924.....	674,300	27	979	1,006	149.19
Average.....	637,521	137	1,238	1,375	215.68
1925.....	693,500	63	1,088	1,151	165.97
1926.....	713,200	139	1,059	1,198	167.98
1927.....	733,500	56	866	1,422	193.87
1928.....	754,300	107	1,477	1,584	210.00
1929.....	775,800	34	1,045	1,079	139.08
Average.....	734,060	80	1,067	1,287	175.33
1930.....	796,800	36	931	967	121.36
1931.....	818,577	40	959	999	122.04
1932.....	833,000	69	1,028	1,097	131.69
1933.....	847,000	23	773	796	93.98
1934.....	855,000	18	685	703	82.22
Average.....	830,075	37	875	912	109.87
1935.....	863,000	39	882	921	106.72
1936.....	875,000	21	854	875	100.00
1937.....	885,000	41	974	1,015	114.69
1938.....	893,000	28	788	816	91.38
1939.....	900,000	26	725	751	83.44
Average.....	883,200	31	845	876	99.18
1940.....	907,000	19	574	593	65.38



Graph "C"



Source: *Statistical Abstract of Montreal*, 1940, p. 211, 0

## Influenza in Montreal in 1918-19

I conclude these remarks on the epidemiology of influenza in Montreal by reproducing the following data on the epidemic of 1918-19.

Montreal was attacked by such an epidemic from the last days of September 1918 until the end of January 1919, during four months. There were 19,299 cases reported and 3,639 deaths ensued of which 2,415 were laid to influenza and 1,224 to pulmonary complications.

Table V following shows the development of the epidemic in Montreal:

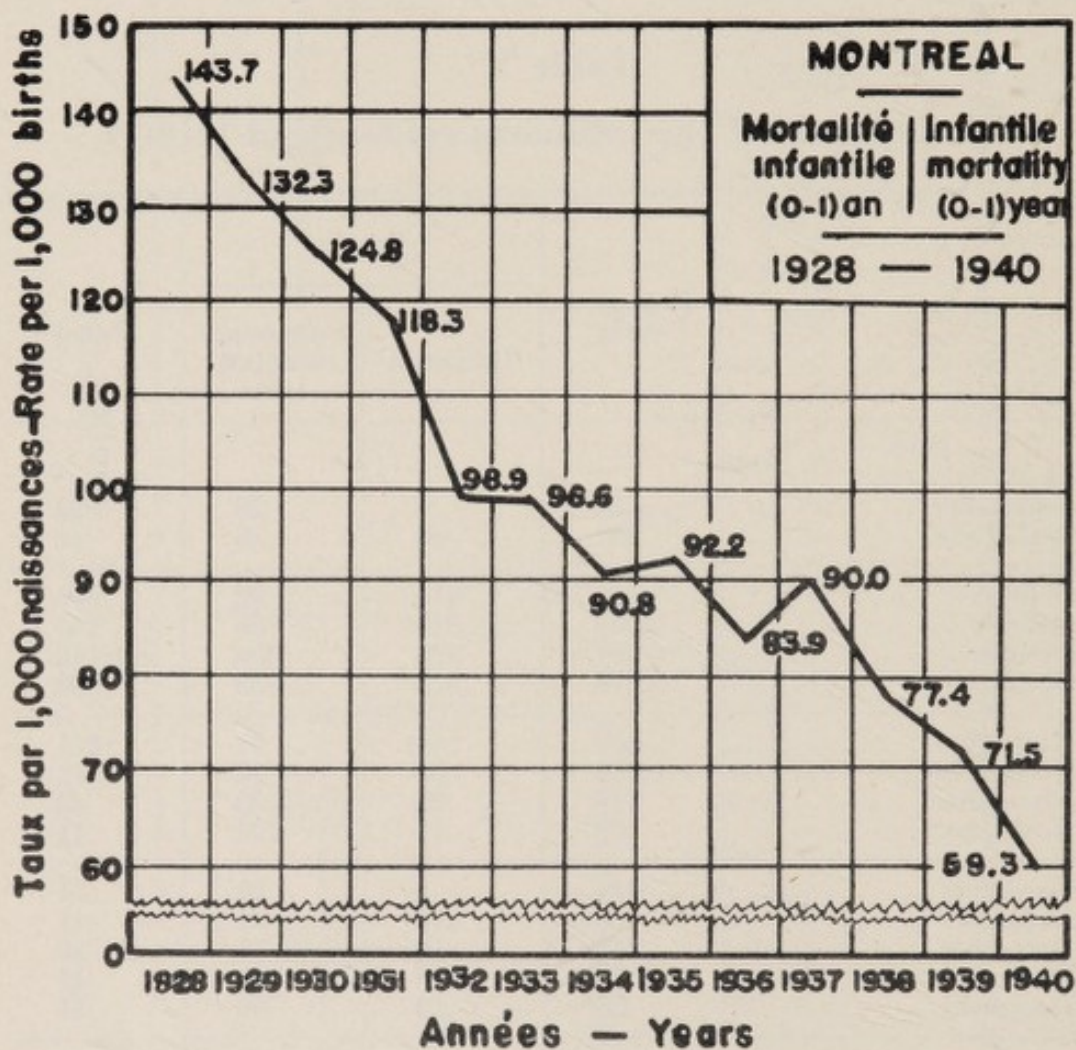
**Table V**  
**Development of the influenza epidemic of 1918-19**

	Reported cases	Deaths		Total
		Influenza	Pulmonary complications	
1918				
Week starting on				
22 September.....	34	3	20	23
29 September.....	181	10	36	46
6 October.....	1,505	214	92	306
13 October.....	6,943	649	186	835
20 October.....	5,961	833	309	1,142
27 October.....	2,078	373	133	506
3 November.....	669	144	67	211
10 November.....	1,012	55	16	71
17 November.....	119	23	20	43
24 November.....	68	17	24	41
1 December.....	134	7	24	31
8 December.....	100	10	31	41
15 December.....	116	13	16	29
22 December.....	73	15	32	47
29 December.....	26	12	39	51
1919				
5 January.....	77	14	42	56
12 January.....	59	15	46	61
19 January.....	64	14	48	62
26 January.....	80	14	39	53
Total.....	19,299	2,435	1,220	3,655

## INFANT MORTALITY

In 1940 the rate of infant mortality continued to maintain its steady decrease and fell to 60.3 per 1,000 births, from 71.5 last year; this is a record diminution of 15% in one year alone.

The following graph shows the appreciable results obtained in the past few years, chiefly between 1928 and 1940 during which time the rate has been lowered more than half.



The rate of deaths among legitimate children for 1940 was 52.2 per 1,000 births; it is relatively low; but deaths among illegitimate children, 179.9 per 1,000 births, continues to be extremely

high and tends to increase the general rate of infant mortality to 59.3 per 1,000 births.

Nevertheless we notice considerable decrease thanks to the praiseworthy efforts of the institutions interested.

In our annual report for 1939, page 52, we showed the various factors contributing to the lowering of the infant death rate.

I wish to point out the various advances made in the past few years in the teaching of pediatrics and care of children to future doctors in the medical faculties of Montreal and McGill Universities, and in the hospitals.

Continuation courses have also been instituted for doctors in St. Justine Hospital under Dr. G. Lapierre and Dr. Paul Letondal, at Miséricorde Hospital, etc. Similar clinics are also held at the Children's Memorial Hospital. Our medical staff has attended many of these courses; the constant interest shown by our doctors in perfecting themselves deserves to be stressed and I congratulate them for it.

Table showing population, births, number of births per 1,000 inhabitants, deaths 0-1 year and number of deaths per 1,000 live-births—1900-1940

Year	Population	Births		Deaths 0 to 1 year	
		Number	Rate per 1,000 inhabitants	Number	Rate per 1,000 births
1900.....	288,658	9,892	34.26	.....	301.05
1901.....	297,317	9,646	32.44	.....	282.08
1902.....	277,829	9,907	35.65	.....	258.50
1903.....	286,163	10,326	36.08	.....	267.67
1904.....	294,748	10,601	35.90	.....	265.95
Average 5 years....	288,943	10,075	34.87	.....	275.05
1905.....	303,590	10,872	35.81	3,095	284.49
1906.....	350,538	13,094	37.35	3,549	271.
1907.....	366,915	13,230	36.05	3,581	270.06
1908.....	380,000	14,606	38.43	3,787	259.20
1909.....	395,000	14,678	37.15	3,845	261.95
Average 5 years....	259,209	13,296	37.01	3,572	268.6
1910.....	455,800	16,616	36.45	4,104	247.
1911.....	470,480	17,637	37.48	4,278	242.6
1912.....	484,400	19,107	39.44	3,978	208.2
1913.....	515,700	20,490	39.73	4,412	215.2
1914.....	540,000	21,386	39.60	4,201	196.71
Average 5 years....	493,276	19,048	38.62	4,195	220.2
1915.....	560,000	20,692	36.95	3,779	182.63
1916.....	575,000	19,759	34.40	3,672	185.8
1917.....	590,000	19,664	33.33	3,488	177.3
1918.....	640,000	20,373	31.83	3,902	191.5
1919.....	670,000	19,959	29.79	3,543	177.5
Average 5 years....	607,000	20,090	33.09	3,677	183.03
1920.....	607,470	21,180	34.86	4,072	192.2
1921.....	618,506	21,136	34.17	3,289	155.6
1922.....	637,600	20,720	32.50	3,304	159.4
1923.....	655,700	20,527	31.31	3,057	148.9
1924.....	674,300	21,500	31.89	3,151	146.5
Average 5 years....	638,715	21,013	32.89	3,375	160.6
1925.....	693,500	21,976	31.69	2,690	122.4
1926.....	713,200	21,098	29.58	2,521	119.49
1927.....	733,460	20,740	28.28	2,424	116.87
1928.....	754,300	20,307	26.92	2,929	143.7
1929.....	775,800	20,415	26.32	2,701	132.3
Average 5 years....	734,052	20,909	28.48	2,653	126.8
1930.....	796,800	20,993	26.33	2,620	124.8
1931.....	818,577	20,699	25.29	2,345	113.3
1932.....	833,000	19,997	24.01	1,979	98.9
1933.....	847,000	18,431	21.76	1,817	98.6
1934.....	855,000	18,433	21.56	1,674	90.8
Average 5 years....	830,075	19,711	23.75	2,087	105.8
1935.....	863,000	17,361	20.12	1,602	92.2
1936.....	875,000	16,725	19.11	1,404	83.9
1937.....	885,000	17,180	19.41	1,547	90.0
1938.....	893,000	17,062	19.10	1,320	77.4
1939.....	900,000	17,116	19.02	1,223	71.5
Average 5 years....	883,200	17,088	19.35	1,419	83.0
1940.....	907,000	18,713	20.63	1,110	59.3

## DIPHTHERIA

Table I which follows shows, since 1927, the number of cases and deaths and the rate of mortality due to diphtheria per 100,000 of population.

Table I

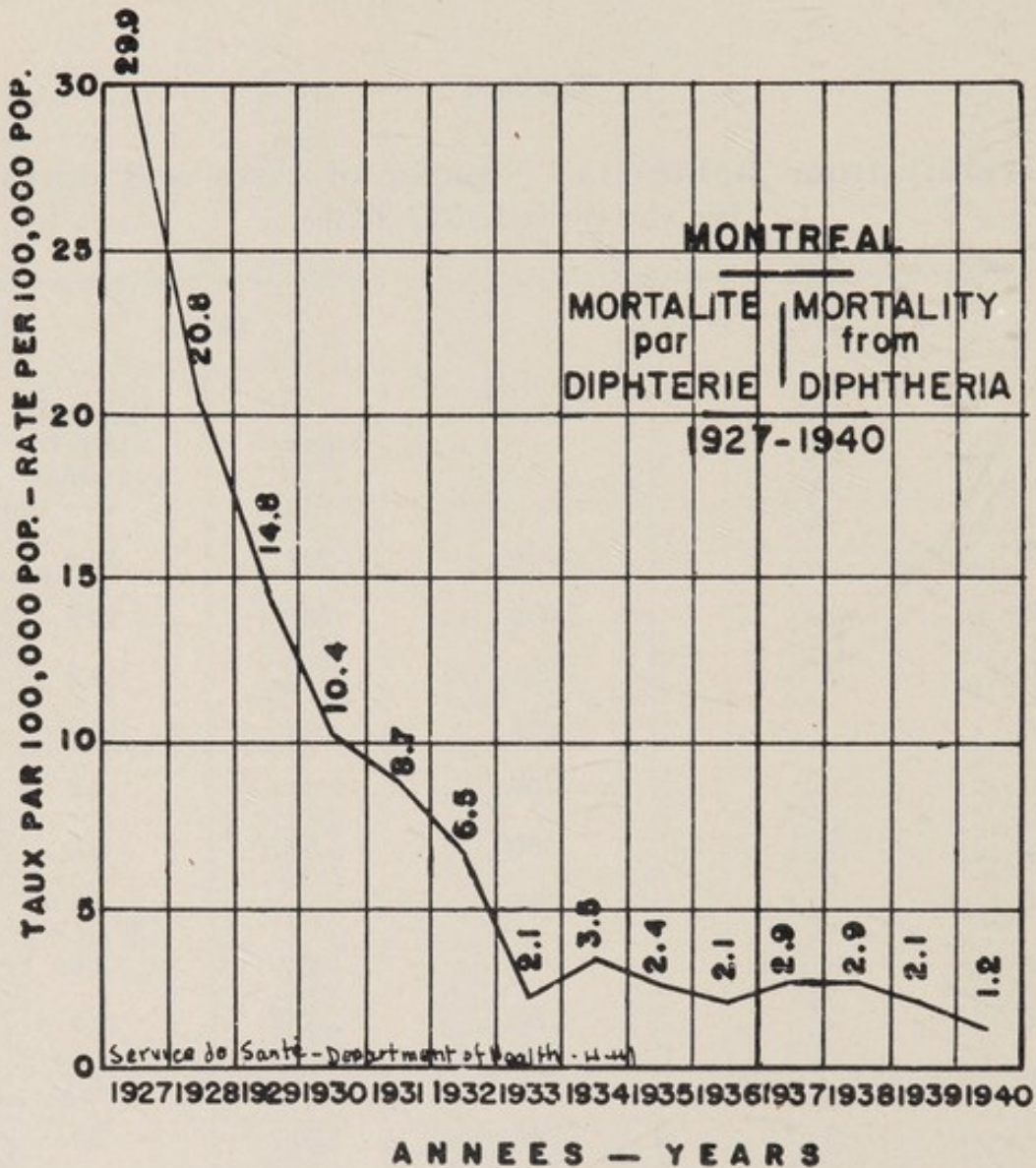
Mortality from diphtheria. Number of cases and deaths for the period 1927-1940

Years	Number of cases	Deaths	
		Number	Rate per 100,000 population
1927 .....	1,826	219	29.9
1928 .....	1,632	157	20.8
1929 .....	1,254	115	14.8
1930 .....	930	83	10.4
1931 .....	706	71	8.7
1932 .....	607	53	6.5
1933 .....	297	18	2.1
1934 .....	244	30	3.5
1935 .....	183	21	2.4
1936 .....	166	18	2.1
1937 .....	249	26	2.9
1938 .....	222	26	2.9
1939 .....	143	19	2.1
1940 .....	134	11	1.21

This table shows that in 1927 there were 219 deaths from diphtheria in Montreal, a rate of 29.9 per 100,000 population; in 1923 the number of deaths fell to 18 and the mortality rate to 2.1.

In 1940 we witnessed another great advance, only 11 deaths were reported, with the lowest mortality rate ever recorded, 1.21 per 100,000 population.

The following graph demonstrates the falling curve of diphtheria mortality in Montreal for the years from 1930 to 1940.



Since September 1928, 194,000 children have been immunized against diphtheria in this city. Of this number 105,414, or 54.2% were inoculated between the ages of 6 months and five years of age and 58,166, or 29.9%, at the age of 6 or 7, when they entered school. These two groups represent 84.1% of children immunized.

Taking 1940 figures, there are 32,464 children between four months and four years who have been immunized out of a population of children between birth and four years of 79,181, only 40.9%.

Too many children of this age group are still unprotected against diphtheria, at the age when the mortality from this disease is the highest, as can be seen from Table II following.

**Table II**  
**Deaths from diphtheria in Montreal**  
**by years and for age groups**  
**1927-1940**

Years	Total deaths	0 to 1 year	1 to 4 years	5 to 9 years	10 to 14 years	15 or more years
1927 .....	219	14	124	63	13	5
1928 .....	157	11	87	47	6	6
1929 .....	115	5	58	43	4	5
1930 .....	83	8	42	26	6	1
1931 .....	71	4	39	21	5	2
1932 .....	53	7	29	14	0	3
1933 .....	18	1	14	1	1	1
1934 .....	30	0	25	4	0	1
1935 .....	21	0	10	10	1	0
1936 .....	18	0	11	5	2	0
1937 .....	26	1	16	9	0	0
1938 .....	26	3	15	8	0	0
1939 .....	19	0	6	11	2	0
1940 .....	11	0	7	4	0	0
Total .....	867	54	483	266	40	24
Percentage.....	100%	6.23	55.7			
		61.94%		30.68	4.61	2.77
		92.62%				

Table III gives the present age of children immunized and the age when inoculated, since September 1928, up to and including 1940.

Table IV shows the number of children immunized, that is to say, who have received three doses of Ramon anatoxin in Montreal, year by year, from September 1938 to 1940, including inoculations given by the Health Department, independent organizations and doctors in private practice.



**Table III**  
**Immunization against diphtheria**  
**Age of children having received the three doses of Toxoid from September 1928 to 1940 (inclusive)**

Ages	1928 1929 1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Total number of children	
												Immunized to date per age	Age at which children were immunized
6 months to 1 year	350	440	825	2,181	2,063	2,887	3,214	3,589	4,040	4,662	5,021	29,272	6 months to 5 years
1 year.....	1,608	1,465	1,875	3,430	2,087	2,041	1,977	1,980	1,794	1,739	1,884	21,880	
2 years.....	1,928	1,135	1,425	3,430	1,329	1,352	1,268	1,332	1,038	958	883	16,078	105,385
3 years.....	1,697	1,007	1,138	3,203	1,010	951	956	1,039	889	692	484	13,066	54.2%
4 years.....	1,720	946	1,049	3,084	904	875	794	864	598	616	422	11,872	
5 years.....	1,860	1,172	1,271	3,459	945	908	848	910	685	580	579	13,217	
6 years.....	2,750	2,479	2,830	6,589	2,787	3,149	3,000	3,227	2,581	2,371	2,334	34,097	6 and 7 years
7 years.....	2,320	1,953	2,467	6,127	1,788	1,997	1,847	1,862	1,349	1,237	1,294	24,241	58,338 29.9%
8 years.....	1,118	571	759	5,324	770	748	737	738	537	413	509	12,224	
9 years.....	538	304	442	5,299	387	288	294	323	184	119	216	8,394	30,874
10 years and over.	992	595	621	6,288	158	114	62	78	60	42	122	9,132	15.8%
Unknown.....	295	142	103	282	91	65	44	57	...	45	...	1,124	
<b>Total.....</b>	<b>17,176</b>	<b>12,209</b>	<b>14,805</b>	<b>48,696</b>	<b>14,319</b>	<b>15,375</b>	<b>15,041</b>	<b>15,999</b>	<b>13,755</b>	<b>13,474</b>	<b>13,748</b>	<b>194,597</b>	<b>194,597</b>

Table IV  
 Immunization against diphtheria  
 1928-1940

Year	Department of Health	Other organizations					Total
		La fédération d'hygiène infantile (19 offices)	Child Welfare Association (8 offices)	Creches and other Institutions	Physicians	Total	
1928.....	384	.....	1,083	.....	.....	.....	1,467
1929.....	3,585	745	754	.....	.....	754	4,339
1930.....	9,108	741	1,138	379	.....	2,262	11,370
1931.....	10,064	741	1,135	269	.....	2,145	12,209
1932.....	11,499	1,375	977	954	.....	3,306	14,805
1933.....	41,490	3,313	2,186	690	1,017	7,206	48,696
1934.....	11,484	1,206	1,257	153	219	2,835	14,319
1935.....	12,477	1,283	1,118	191	306	2,898	15,375
1936.....	12,017	1,666	757	317	284	3,024	15,041
1937.....	12,935	1,726	652	398	288	3,064	15,999
1938.....	10,473	1,799	757	442	284	3,282	13,755
1939.....	10,112	1,332	1,084	439	507	3,362	13,474
1940.....	10,032*	1,991	890	401	434	3,716	13,748
Total.....	155,660	17,177	13,788	4,633	3,339	38,937	194,597

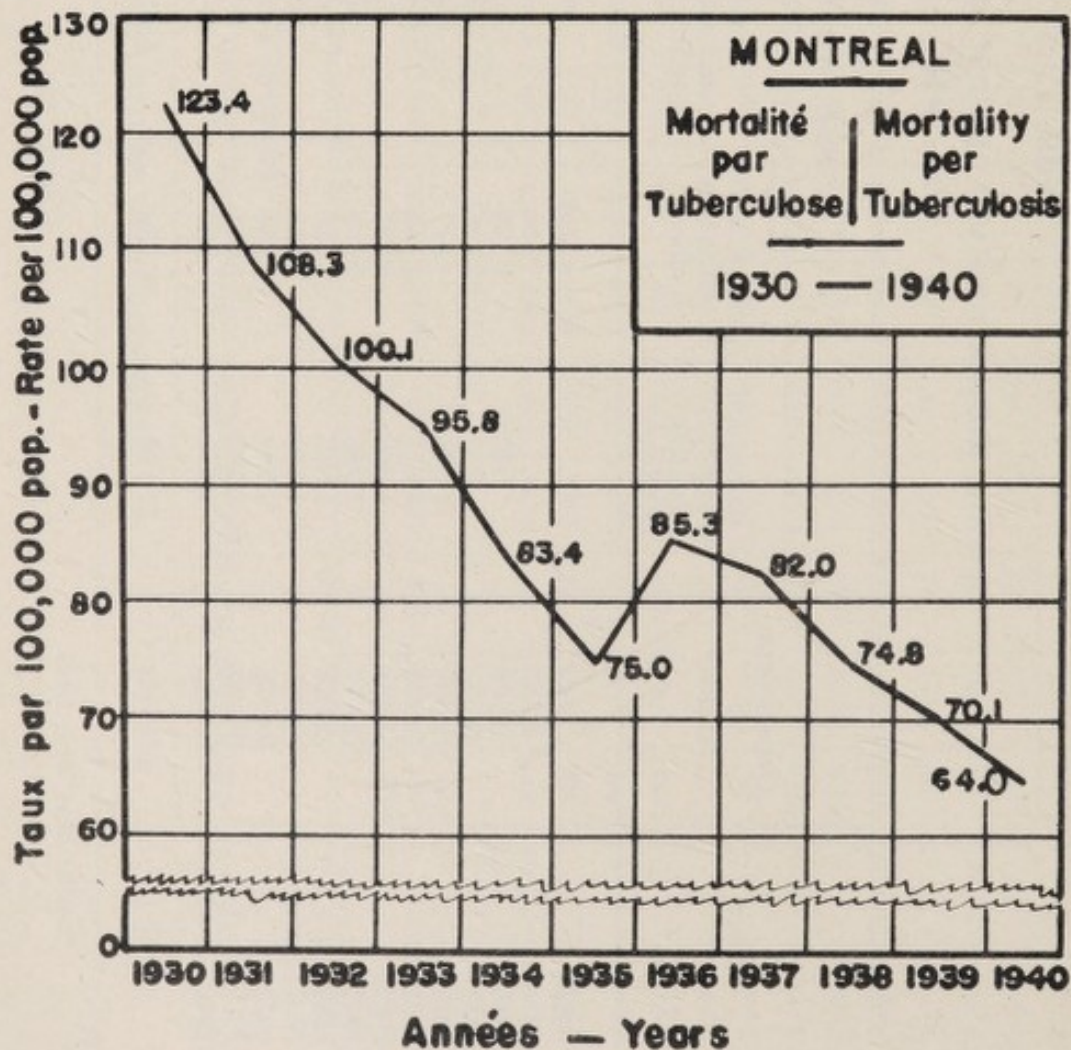
\*Up to May 3rd, 1941.

## THE FIGHT AGAINST TUBERCULOSIS

During 1940 the Department of Health continued to co-operate with the Provincial Committee for the Prevention of Tuberculosis, in the battle against this disease in Montreal.

The educational campaign has been carried on relentlessly; in 1940 the Department of Health organized 226 meetings of which 5 were public and 167 were held in schools.

The mortality rate, based on 100,000 of population, dropped again to 64 whereas it had been 70.1 the previous year, for a decrease of 8%. The following graph shows the lowering of the mortality from tuberculosis in Montreal during the past ten years.



## Municipal Radiology Clinic

One of the City Health Department's first contributions to the anti-tuberculosis campaign, undertaken in 1937, with renewed vigor, by the Provincial Committee for the Prevention of Tuberculosis, was the establishment of a tuberculosis section, the direction of which was given to a specialist in this disease, Dr. Léo Ladouceur.

As a necessary complement to this organization we decided to add a municipal radiology clinic. This improvement became a reality in January 1940.

The object of this clinic is to make a radiological examination of the lungs so as to discover tuberculous lesions among contact cases and all those suspected of having tuberculosis, at the outset and, thereby, to assist the doctor whose patient might not be able to undergo the expense of a radiograph.

The radiological clinic is composed of a doctor, chief of the section of tuberculosis, a nurse and a radiology technician. This clinic is open to the public the first five week-days from 9 to noon and from 2 to 5; on Saturdays, from 9 to noon.

The clinic is also open on Tuesday evenings from 7 to 9 for those who work but whose wages do not permit them to have one or more radiographs taken.

The object is to:

1. Examine contact cases and all poor patients suspected of having tuberculosis of the lungs who are referred thereto by their doctor.

Consequently, this assists the doctor in tracing early cases of T.B. by taking a radiograph of the contact case and of all whose lung condition gives reason for fear in this connection.

2. Examine children who have shown positive reaction to tuberculin and whose physical condition is not what it should be.

Doctors will always find that they are welcomed with open arms to the municipal radiology clinic.

The report of the findings from the radiograph will never be made known to the patient but will be sent to the family doctor confidentially.

This clinic is located at No. 305 Mount Royal Avenue east, at the Laurier health centre, general headquarters of the tuberculosis section.

### **Radiological examination of the lungs for city employees and milk handlers.**

Among new measures taken during the year in the fight against T.B. there is the system of having a radiological examination of the lungs made when any applicant for a civic service position is examined medically. Thus, before being recommended for a municipal position or becoming a civic employee every applicant must not only submit to a medical examination by doctors of the pensions fund commission but he must also have a lung examination by X-ray in the municipal radiology clinic.

Moreover, an X-ray examination of milk handlers in dairies and pasteurization plants has been inaugurated.

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### **OPENING OF AN ORTHODONTIA CLINIC**

On February 12, 1940, the Department of Health opened an orthodontia clinic in the faculty of dental surgery of Montreal University, following an agreement entered into between the administration of the university and our department.

This clinic includes a waiting room with cloak room for children, a main office with four chairs, and rooms for radiography, tele-radiography, anthropometric photography and dental archives, with a number of cases for preserving various orthodontia casts.

The staff includes an orthodontia specialist, Dr. Paul Geoffrion, D.D.S., F.I.C.D., A.I.D.O. (R.A.) who is the head of the clinic, and a lady expert in orthodontia technique. The clinic is open from September first to July first, in the mornings from 9 to noon.

Its object is to straighten teeth of poor children who could not pay the cost of orthodontia treatment but who are in great need of such.

We are of the opinion that the opening of this clinic will result in important improvements to the organization of the health department in Montreal.

Following is the text of the agreement:

AGREEMENT between

**The City of Montreal**, legally incorporated body having its head office in Ville Marie Ward of the said City, represented by Mr. Adélarde Groulx, doctor of medicine, of the same place, Director of its Department of Health, duly authorized by resolution of the Executive Committee of the said City adopted on January 17th, 1940.

**Party of the first part**

and

**The Faculty of Dental Surgery of the University of Montreal**, legally incorporated body, having its head office in the City of Montreal, represented by its Dean, Mr. Eudore Dubeau, surgeon dentist, of the same place, duly authorized by resolution of the Council of the Faculty, adopted on January 15th, 1940.

**Party of the second part**

---

Which aforesaid parties of the first and second part have covenanted as follows:

WHEREAS the party of the second part is the owner of an orthodontia clinic;

WHEREAS it is in the general interest to establish an orthodontia clinic in Montreal;

WHEREAS the above-mentioned clinic belonging to the party of the second part is suited to this purpose;

1. The party of the second part agrees to place at the disposal of the party of the first part, from the first February instant to the

30th June next and thereafter from September first to June 30th of each year, from nine o'clock of the morning until noon, excepting Sundays and holidays, its orthodontia clinic as presently equipped, for the treatment of needy children sent there by the Director of the Department of Health of the party of the first part.

2. The party of the first part agrees to pay the dentist specialized in orthodontia who is recommended by the party of the second part and placed in charge of such clinic, a minimum annual fee of FIFTEEN HUNDRED DOLLARS (\$1500), in twenty bimonthly payments which shall be equal and consecutive, the first of which shall be paid on the first day of the month following the signing of this contract.

This orthodontist shall remunerate, at his expense, any assistants whose services he might need.

3. The party of the first part also agrees to pay a lady technician chosen by it, on the recommendation of the party of the second part, an annual minimum salary of NINE HUNDRED AND SIXTY DOLLARS (\$960) payable in equal, consecutive monthly payments, of which the first shall be thus paid on the first day of the month following the signing of this contract; such lady technician to remain at the clinic during the hours set by the said party of the first part and to be under its orders, her duties to consist in receiving patients, sterilizing instruments, keeping of treatment files and records, making and handling casts.

4. All remedies and medicines, all materials required for the making of orthodontia apparatus, excepting, of course, the present equipment of the clinic, all vulcanizing costs and those of other operations needed in the treatment of patients sent by the party of the second part, shall be borne by the latter party.

5. The party of the first part agrees to guarantee the party of the second part and hold it secure against any and all claims of whatsoever kind which might ensue directly or indirectly from the placing of this clinic by it at the disposal of the former, even such as might result from the fault of its orthodontist, of his assistants, of its technician or of any other member or members of its staff or employees.

6. This contract shall be continued from year to year by tacit reconduction, during such time and so long as one of the parties

does not evince the intention of putting an end thereto by giving the other party notice to such effect at least thirty (30) days before the date of its annual expiry.

DONE and signed in duplicate copies at Montreal, this eight day of February 1940.

(signed) DR. EUDORE DUBEAU,  
Dean,  
AD. GROULX, M.D.,  
Director,  
Department of Health.

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### LABORATORIES DIVISION

During 1940 the laboratories division of the Montreal Department of Health suffered a great loss through the death of its superintendent, Dr. Antonio Bolduc, on April 13. Dr. Bolduc had occupied this position since 1927. This was a heavy blow to our department and we again express our deepest sorrow.

The assistant superintendent of this division, Dr. Rosario Bérard, was promoted to the post of superintendent to replace the late Dr. Bolduc. He is doctor of medicine of Montreal University, and an experienced bacteriologist. Dr. Bérard has been connected with this department since 1929. I am certain that he will show himself a capable and efficient superintendent in every way.

Following his appointment the division was reorganized. It now counts 12 employees including a superintendent, one doctor-bacteriologist, 2 bacteriologists, 2 chemists, 2 analysts, 2 technicians, 2 laboratory assistants and one stenographer-typist.

The work accomplished in this division consists chiefly in bacteriological, serological, cytological and chemical analyses.

It is chiefly a "diagnosis department" insofar as clinical and bacteriological analyses are concerned and exerts a bacteriological control in tracing contagious diseases, through sputum examina-



tions, analysis of blood samples and secretions of the throat and other organs, and of various other as well as those of throat secretions.

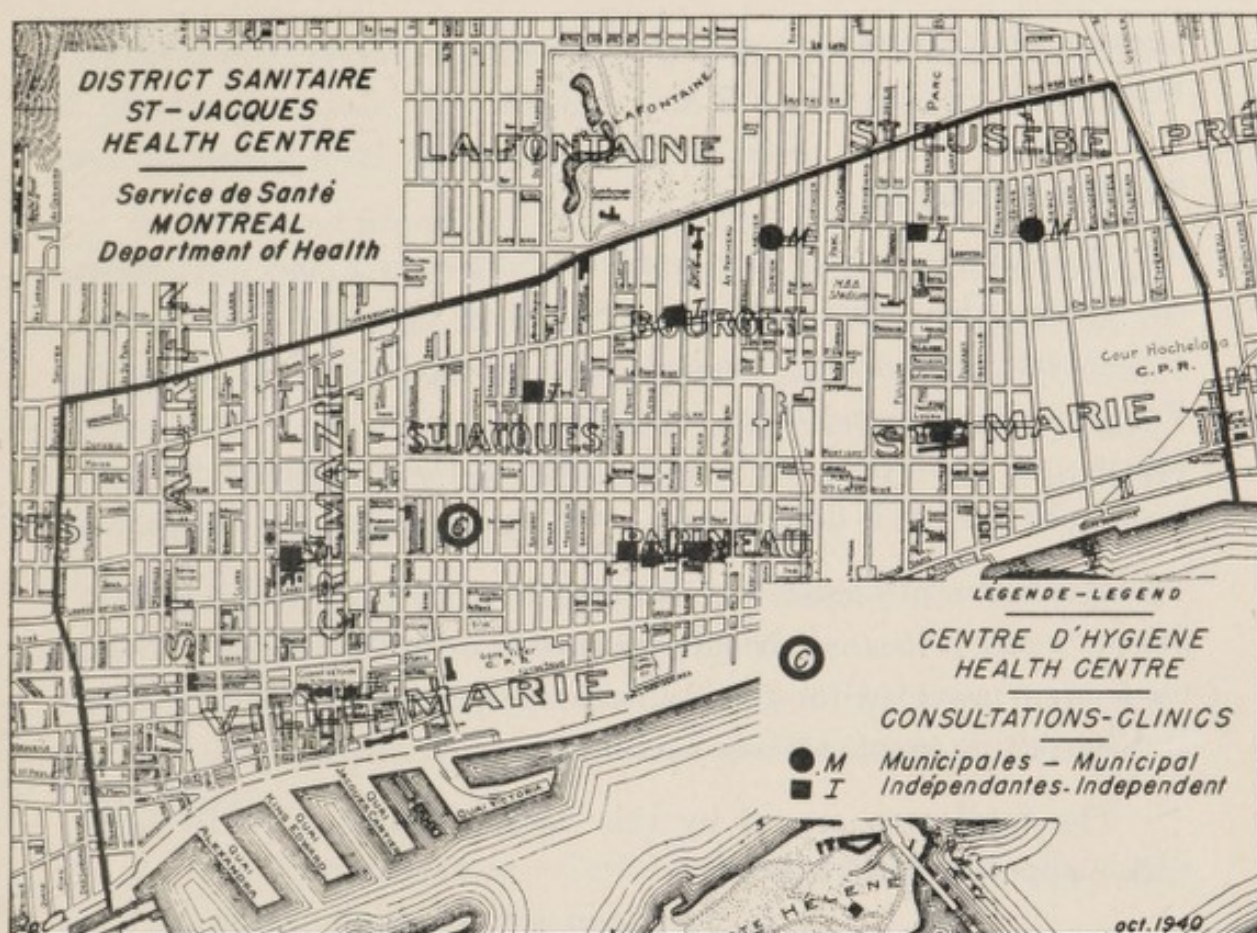
This division comprises three sections:

- (a) bacteriology,
  - (b) bacteriological control of milk and water,
  - (c) chemistry.
- (a) **Bacteriology:** Control and diagnosis of contagious diseases.  
Food poisoning.  
Cytology and serology.
- (b) **Bacteriological control of milk and water.**
- (c) **Chemistry:** chemical and research analyses.

The work, now divided as above, can be accomplished more easily and efficiently.

We think that this improvement was necessary in this division and has so far been justified by results.

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## ST. JAMES SANITARY DISTRICT

On September 3, 1940, the Department of Health officially opened the second city sanitary district in conformity with the plan drawn up and published in the annual report for 1938 (page 37).

The objective to be attained by forming a sanitary district is to entrust to a specially prepared staff the direct supervision over a section of the City from the point of view of sanitation. This innovation constitutes a decentralization of certain activities of the health department, allowing a closer contact with the public; more effective study of causes of infantile and maternal mortality; better control over cases and deaths of tuberculosis and of other contagious diseases, and, finally, to secure better results by closer co-operation and better team work between the health department, the medical profession and the various organizations dealing with social problems.

### Staff

The staff is composed of three inspectors, doctors, of whom one is the chief physician; a dentist; 14 visiting nurses, of whom

one is head nurse; an assistant nurse; a typist-stenographer. 20 in all.

### **Territory covered**

The following nine city wards comprise, in whole or in part, the second district: St. Eusebe, St. Mary, Bourget, St. James, Ville-Marie, Papineau, Crémazie, St. Lawrence and St. George. Four wards are completely included, St. Mary, St. James, Ville-Marie and Papineau; while only parts of the remaining five are in this district. It is designated as "St. James Sanitary District."

The chief physician has his offices at No. 1184 St. Hubert Street, where is located the administration or health centre. Offices have been provided for the staff and premises for various clinics and consulting rooms are also found.

The total area served by this district covers 1,780.16 acres with a population of 142,000.

### **Churches and schools**

From a religious point of view there are 9 French-Catholic parishes, and part of the parish of Notre Dame. There are two Irish Catholic parishes, one Ukrainian Catholic parish, St. Casimir, a Syrian Catholic parish, St. Sauveur, and a Polish Catholic parish, St. Mary's Polish. There are 12 Protestant churches including 3 Anglican, 5 United Church, 1 Presbyterian, 1 Lutheran and 2 Baptist. There are in all 27 churches represented in the district.

There are also 40 schools of which 36 are Catholic, 31 French and 5 English, 2 Protestant and 2 Independent. These schools are attended by 18,573 pupils in 579 classes. There are 17,194 children attending Catholic schools and 1,379 in Protestant schools.

### **Dispensaries and baby clinics, social service**

1. In this district the Bruchesi anti-tuberculosis Institute is located. There are also five public hospitals, Notre Dame, Montreal

General, St. Luke, Miséricorde General, the Chinese Hospital; 2 private hospitals, the Beulac and Ste. Marguerite hospitals; and the dental institute is also in the district.

2. Baby and pre-natal clinics total 10, of which 3 belong to the Health Department, 6 to the "Fédération d'Hygiène Infantile," and one to the Child Welfare Association. This last-named is located in the Montreal General, on Dorchester Street. The nine others serve the population in their respective parishes. Those under the Department of Health serve St. James, St. Margaret Mary and St. Anselm parishes.

Those belonging to the "Fédération Infantile" serve St. Peter Apostle, St. Brigide, St. Catherine, St. Vincent de Paul, Sacred Heart and St. Eusèbe. The St. James Baby Clinic is at the health centre, 1184 St. Hubert. A dental clinic operates at the St. Margaret Mary Clinic.

3. Other organizations—Certain other well-known organizations are also contained in the district, viz.:

- (a) University of Montreal and all its faculties; School of Higher Commercial Studies; Dental School;
- (b) the Misericorde Crèche, under the direction of the Reverend Sisters of Mercy;
- (c) old people's homes: St. Brigide, Gamelin and St. Antoine Homes;
- (d) orphanages, Les Buissonets, St. Alexis and the St. Joseph Italian Orphanage;
- (e) L'Assistance Publique, Women's Jail, Notre Dame de la Merci Refuge, the Meurling Refuge and many others.

Dr. Fernand Derome has been appointed doctor in chief of this district. He has been attached to the Department of Health since October 19, 1928, as inspector-physician of the child hygiene division. He is doctor of medicine of Montreal University. Dr. Derome was winner of a city scholarship and studied public health at Toronto University where he obtained his D.P.H. degree.

## SCHOLARSHIPS

In 1940 the Department of Health awarded 4 scholarships to different employees to allow them to follow courses in public health. Among the three were one doctor and three nurses.

Dr. J. G. E. Chabot attended the school of public health and preventive medicine at Toronto University. The nurses, Misses Luce Charbonneau, Thérèse Cardin and Fleurette Guyon, attended the courses of applied public health at the University of Montreal.

Awarding of scholarships began in 1931 and since that time, 15 doctors, one engineer and 6 nurses have taken advantage of them. Of these 22 scholarships, two were awarded to our doctors thanks to the generosity of the Rockefeller Foundation.

This specialized training of many of our staff has contributed to a great extent towards maintaining the department on a high level.

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## NEW BY-LAWS

Two new by-laws drawn up by the Department of Health were submitted to the civic authorities and adopted during the year 1940.

The first deals with noxious weeds and the other pertains to funeral directors and embalmers.

The texts of these by-laws are published as follows:

### No. 1622

#### BY-LAW CONCERNING NOXIOUS WEEDS

(Adopted by the Executive Committee on the 5th April 1940 and by the Council on the 28th June 1940).

WHEREAS it is in the public interest to protect human beings against hay fever, cutaneous eruptions and other similar

maladies by the eradication and destruction of noxious weeds before their seed matures; and to promote cleanliness and prevent all nuisances caused by noxious weeds;

At a meeting of the Executive Committee of the City of Montreal, held at the City Hall, on the 5th day of April 1940, in the manner and after the observance of the formalities prescribed by law, at which meeting were present: Aldermen Savignac, Chairman, Dupuis, Coupal and Delisle, members of said Committee,

It was ordained and enacted by the said Committee as follows:—

ARTICLE 1.—Wherever the following words are encountered in this by-law they are to be understood as having the meaning hereinafter indicated, unless the context implies a different one:

(a) The word “city” means the City of Montreal.

(b) The words “department of health” mean the Department of Health of the City.

(c) The word “person” means every individual, owner, occupant, partnership, company or corporation.

(d) The words “noxious weeds” mean and include ragweed, poison ivy, golden rod and any other plant of a nature, in the opinion of the Director of the Department of Health, to cause, among human beings, hay fever, cutaneous eruptions, or other illness of similar kind, or to cause a nuisance.

(e) The word “nuisance” means any act or omission which may endanger the life, safety, health, property or the comfort of the public or of an individual or of several individuals or whereby the public, or an individual or several individuals are hindered in the exercise or the enjoyment of a right common to all subjects of His Majesty.

ARTICLE 2.—For the purpose of this by-law all noxious weeds existing in the city on farms, lands, lots, whether under cultivation or not, are held to be a nuisance.

ARTICLE 3.—Whenever such a nuisance shall exist, every ratepayer, constable or officer of the department of health noticing

same, as well as any person who has suffered harm therefrom, may make a complaint to this effect to the department of health.

ARTICLE 4.—On receipt of such complaint the department of health shall, through one of its officers, visit the premises and initiate an investigation and, if need be, give written notice to the owner of the immovable enjoining him, within a fixed delay, to eradicate and destroy the noxious weeds.

ARTICLE 5.—Should the putting in default dealt with in Article 4 of this by-law produce no effect at the expiry of the delay set by the notice, the City may eradicate and destroy the noxious weeds and eliminate the nuisance at the expense of the person advised; and such expenses are recoverable by said City in the same way as ordinary municipal taxes or by way of court action. In any event, should the carrying out of the work entail an expense of one hundred dollars or more the owner so advised may appeal to the deputy minister of the department of health of the province of Quebec within the fifteen days following the serving of the notice.

ARTICLE 6.—The department of health may have the farms, lands, or lots whether under cultivation or not, located within the limits of the city, visited by its officers, to ascertain whether or not noxious weeds exist thereon, and may proceed, if it deem it advisable, to their extinction, following the procedure outlined in this by-law.

ARTICLE 7.—When noxious weeds create or may create a nuisance affecting the health of the inhabitants of the city and such noxious weeds are located outside of its territory, but on premises contiguous thereto, within a zone not exceeding one mile of the city limits the department of health may have its officers ascertain the facts and, if it be necessary, the City may proceed to their elimination as if they existed within its own territory, provided, however, that no judicial procedure may be initiated excepting before a tribunal the competency of which extends to the outside territory concerned.

ARTICLE 8.—All city by-laws which are incompatible with this by-law are hereby repealed.

ARTICLE 9.—Anyone contravening any of the provisions of this by-law shall be liable to a fine with or without costs and, in default of immediate payment of said fine, with or without costs,

as the case may be, to an imprisonment, the amount of said fine and the term of said imprisonment to be fixed by the Recorder's Court of the City of Montreal, at its discretion; but said fine shall not exceed forty dollars and the imprisonment shall not be for a longer period than sixty days, the said imprisonment, however, to cease at any time before the expiration of the term fixed by the said Recorder's Court, upon payment of the said fine, or fine and costs as the case may be, and if the infringement of this by-law continues, the offender shall be liable to the fine and penalty above mentioned for each day during which the infringement is continued.

At a special meeting of the City Council of Montreal, held at the City Hall, on the 28th June 1940, in the manner and after the observance of the formalities prescribed in and by the Act of incorporation of the said City, at which meeting were present: Alderman Hamelin, Acting Mayor, in the Chair, His Worship the Mayor, Mr. Camillien Houde, Aldermen Schubert, Dupéré, Lesage, Riel, Dupuis, Seigler, Taillefer, Caron, Goyette, Filion, Dubreuil, Brien, Savignac, Lacombe, Bélanger, Moreau, McKenna, Rochon, Côté, Quinn, Taillon, Barrière, Edmison, Coupal, Kerry, Durocher, Delisle, Donnelly, Ratelle and Bélisle,

The above by-law was adopted without any amendment.

(Approved)

The Administrator Delegate of the Quebec Municipal Commission.

(Signed) HONORÉ PARENT.

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## No. 1631

**BY-LAW CONCERNING FUNERAL DIRECTORS AND EMBALMERS AND TO REPEAL BY-LAW No. 603**

(As adopted by the Executive Committee on the 30th May 1940 and amended by the Council on the 24th July 1940 and by Ordinance of the Quebec Municipal Commission rendered on the 11th September 1940).

WHEREAS it is in the interest both of the public and of funeral directors and embalmers who carry out their work in the City that the provisions hereunder be applied, as a precautionary measure requisite to the health of the City's inhabitants, and by reason of the respect which they pay to the dead;

At a meeting of the Executive Committee of the City of Montreal, held at the City Hall, on the 30th day of May 1940, in the manner and after the observance of the formalities prescribed by law, at which meeting were present: Aldermen Savignac, Chairman, Coupal, Kerry and Delisle, members of said Committee, and

At an adjourned special meeting of the City Council of Montreal, held at the City Hall, on the 24th July 1940, in the manner and after the observance of the formalities prescribed in and by the Act of incorporation of the said City, at which meeting were present: Alderman Hamelin, Acting Mayor, in the Chair, His Worship the Mayor, Mr. Camillien Houde, Aldermen Schubert, Dupéré, Lesage, Riel, Dupuis, Taillefer, Caron, Goyette, Brien, Savignac, Lacombe, Bélanger, McKenna, Rochon, Côté, Quinn, Taillon, Barrière, Edmison, Coupal, Delisle, Donnelly, Ratelle and Bélisle,

It was ordained and enacted as follows:

**Chapter I****DEFINITIONS**

ARTICLE 1.—Wherever the following words are encountered in this by-law they are to be understood as having the meaning hereinafter indicated, unless the context implies a different one:

- (a) The word "City" means the City of Montreal.

(b) The words "department of health" mean the Department of Health of the City.

(c) The word "person" means and includes every individual, partnership, company or corporation.

(d) The words "funeral director" mean an undertaker or any person who does or orders to be done, under his supervision or responsibility, one or more of the following things, namely:—embalming, laying out and preparing a human body to be viewed at a house or in a mortuary parlor and its burial or cremation, its transportation and any work concerning funerals.

For the purposes of this by-law, all premises rented or occupied as a mortuary parlor, or for placing a human body on view or for carrying out one or several of the operations hereinabove mentioned, are considered as funeral directors' establishments.

(e) The word "embalming" means and includes all processes or treatments performed upon a human body in order to induce artificial preservation.

(f) The word "embalmer" means anyone who performs embalming after having acquired sufficient knowledge in his art and in anatomy, hygiene, and related subjects.

(g) The word "nuisance" means any act or omission which may endanger the life, safety, health, property or the comfort of the public or of an individual or of several individuals or whereby the public, or an individual or several individuals are hindered in the exercise or enjoyment of a right common to all subjects of His Majesty.

## Chapter II

### LICENSES, INSPECTIONS ETC.

#### Funeral director's license.

ARTICLE 2.—No person shall keep or operate a funeral director's establishment in the city, nor shall he do any of the work mentioned in paragraph (d) of Article 1, nor shall he advertise

himself as doing any such, without having obtained a license from the Director of Finance of the City, for which the sum mentioned in By-law No. 432 concerning taxes etc., as amended, shall be paid. Such license shall not be granted by said Director of finance excepting on the written declaration of the City Building Inspector and of the Director of the Department of Health or on the issue by these latter of a license permit declaring that they have no objection to the granting of such license.

#### **Place of business outside the city.**

ARTICLE 3.—Any person performing the work of funeral director within the city limits, and who does not have his place of business or his establishment within the city limits, is subject to all the exigencies of this by-law.

#### **License permit and certificate of proficiency for funeral director.**

ARTICLE 4.—The Director of the Department of Health shall not be enabled to issue a license permit to a person under article 2 hereinabove, except on condition that such person be in possession of an establishment which is in conformity with the provisions of this by-law, that it be not located in premises occupied as a dwelling, that the person requesting the license has spent a period of at least two years in a funeral director's establishment and be in possession, following an examination, of a certificate of proficiency from the board of examiners created by this by-law.

In the case of a partnership, company or corporation, the exigencies aforesaid shall be met by the president or manager thereof.

Neither a certificate of proficiency nor a period of apprenticeship will be required of persons who have already obtained from the City, before this by-law goes into effect, a license as undertaker under By-law No. 432 as amended.

#### **Transporting bodies, etc.**

ARTICLE 5.—In order to obtain a funeral director's license, the person applying therefor shall also prove, to the satisfaction of the Director of the Department of Health, that he has, in his personal possession, a hearse and waggon or service car, the material,

the instruments and accessories required to perform the work detailed in paragraphs (d) and (e) of Article 1.

All such persons shall, moreover, have in their establishment at least one mortuary parlor or a place where a human body may be viewed, and at least one embalming room, both complying with the requirements of this by-law.

### **Exemptions.**

ARTICLE 6.—The provisions of Articles 2 and 4 of this by-law do not apply to hospitals, to public or religious institutions, to the faculties of medicine of universities or to any other institution or establishment having the required legal authority to dispose of human bodies or to carry on the work of funeral directors as defined in paragraph (d) of Article 1.

Nevertheless, only embalmers who are holders of a City license for this purpose are authorized to perform embalming in the institutions and establishments hereinabove mentioned. (Replaced by Ordinance of the Quebec Municipal Commission on the 11th September 1940).

### **Branches.**

ARTICLE 7.—Each branch of a funeral director's establishment is subject to all the requirements of this by-law excepting those in Article 5, and should moreover be put under the sole supervision of a holder of a funeral director's license.

Any office, store or other premises and any agency where orders are taken for funerals or related work, is considered as a branch of a funeral director's establishment.

### **Embalmer's license.**

ARTICLE 8.—No one shall do the work of an embalmer in the City without having previously obtained a license from the City for this purpose or without having paid the Director of Finance of the City the amount set for the granting of such a license by By-law No. 432 as amended. This license shall not be granted by the said Director of Finance excepting on a written declaration of the Director of the Department of Health or on the issuing by the latter of a license permit declaring that he has no objection to the granting of such a license.

### **License permit and certificate of proficiency for embalmers.**

ARTICLE 9.—Before issuing a license permit under Article 8 of this by-law, the Director of the Department of Health shall demand from the party requesting it a certificate of proficiency from an institution, association or establishment where embalming is taught and practiced and which is recognized by the Health Department. If unable to produce such a certificate of proficiency, the party requesting a license permit as embalmer shall, before obtaining it, successfully undergo an examination before a board of examiners appointed for this purpose. In these two cases, the person seeking an embalmer's license shall prove, to the satisfaction of the Department of Health, that he has served as apprentice, for at least two years, with an embalmer recognized by the said Department of Health.

From the putting into effect of this by-law, applicants for this license shall be registered with the Department of Health from the beginning of their apprenticeship.

No certificate of proficiency nor apprenticeship shall be required of any person who has already obtained from the City, previous to the coming into effect of this by-law, an embalmer's license, under By-law No. 432 as amended.

### **Board of Examiners.**

ARTICLE 10.—A Board of Examiners for applicants for funeral directors' or embalmers' licenses is hereby created as follows: a representative of the Director of the Department of Health who shall be chairman, a funeral director and an embalmer. The two last-named shall be holders of City licenses and shall have had at least three years' experience in their work. They shall be appointed by the Executive Committee of the City, on the recommendation of the Director of the Department of Health, for a period not to exceed three years. These examiners shall be re-eligible and shall receive, for their services, the emoluments to be determined by said Committee.

This Board may set a program of preparatory studies and examinations and put it into effect with the authorization of the Director of the Department of Health.

The Board shall meet four times a year to examine those who made application therefor, in writing, at least three days previous to the day and hour set for the examination.

Whenever a candidate shall come up for examination, he shall pay to the Director of Finance of the City the sum of \$5, if he is qualifying as funeral director, and the sum of \$2, if as embalmer.

Funeral directors who hold a license from the City shall be notified, at least eight days prior to the holding of each examination, of the date, the time and the place designated by the Director of the Department of Health for this purpose.

#### **Licenses non-transferable.**

ARTICLE 11.—The licenses issued under this by-law shall be personal and non-transferable and shall be renewed each year during the first week of the month of May.

#### **Employees of the Department of Health.**

ARTICLE 12.—The employees of the Department of Health shall be admitted at all times, for inspection purposes, to all funeral directors' establishments and to any other place where a body is on view or to any place where embalming is done. They shall wear a badge, indicating their capacity, or shall carry with them a certificate signed by the Director of the Department of Health, which shall be produced at the outset of their visits and whenever requested to do so.

#### **Obligations of funeral directors.**

ARTICLE 13.—Holders of funeral directors' licenses shall:

- (a) prevent all nuisances;
- (b) post in a conspicuous place, without their establishment, the name, trade or incorporation name under which they obtained their license;
- (c) furnish the Department of Health, whenever requested to do so by it, with the name and address of every embalmer in their employ;
- (d) employ as embalmers only those who hold a license to that effect;
- (e) post in a conspicuous place in their establishment their funeral director's license, as well as the names and addresses of embalmers in their employ;

(f) notify the Department of Health of any change in location of their place of business or of their establishment or branches, or of their going out of business;

(g) furnish, at the request of the Department of Health, complete plans of their establishments.

#### **Refusal to issue permit.**

ARTICLE 14.—The issuing or renewal of a funeral director's or embalmer's license permit may be refused by the Director of the Department of Health if the person or party requesting it does not possess his identification card, has not conformed to any provision whatsoever of this by-law, or shall have been guilty of an infringement of any other by-law or law in his work, or shall have neglected his professional duties in a serious manner, or shall have made a false declaration in his application for such permit, or shall have neglected or refused to furnish, within a specified delay, the information requested by the said Department of Health, or shall have refused, at any time, to allow his establishment to be visited and inspected.

#### **Cancellation of licenses.**

ARTICLE 15.—All licenses for funeral directors or embalmers issued under this by-law, may be revoked and cancelled by the Executive Committee of the City, on recommendation of the Director of the Department of Health, following any infringement to any provision of this by-law, or in cases where the holder of such license shall have been guilty of infringing any other by-law or law, in his work, or shall have neglected his professional duties in a serious manner, or should refuse or neglect to conform to a notification of the Department of Health within the delay set therein.

### **Chapter III**

#### **SANITARY CONDITION OF FUNERAL DIRECTORS' ESTABLISHMENTS**

##### **Lighting and ventilation.**

ARTICLE 16.—All rooms used as a funeral director's establishment including workshops, offices, sample rooms, waiting rooms, mortuary parlors, embalming rooms etc., shall be lighted

and ventilated directly from outside, in conformity with the provisions of the provincial by-laws relating to dwellings in general. The Department of Health may also demand artificial ventilation over and above the requirements of the above mentioned by-laws.

### **Cleanliness.**

ARTICLE 17.—Walls, ceilings, furniture and other objects in these establishments shall constantly be kept in a state of cleanliness. The floors shall be carefully swept and washed daily.

### **Embalming room.**

ARTICLE 18.—Embalming in aforesaid establishments can only be done in a room of at least 80 square feet, exclusively reserved for this purpose, and of which the walls, woodwork, furnishings shall be of smooth material which can be easily washed. Floors shall be of waterproof material and shall be drained towards an outlet connected to the plumbing system. This room shall be cleaned with soap and running water immediately after each operation and this cleansing shall be followed by a second washing with an antiseptic solution. This room shall also contain a slop-sink or other approved plumbing fixture.

### **Plumbing, etc.**

ARTICLE 19.—Funeral directors' establishments shall be provided with at least one wash-basin, one sink or one slop-sink, all supplied with both cold and hot water, and one water-closet. Where there are 3 and more than 3 mortuary parlors, there shall be provided at least one water-closet and one wash-basin for the exclusive use of women, and one water-closet and one water-basin for the exclusive use of men. Moreover, the Department of Health may require one or more urinals for men, and a definite number of water-closets and wash-basins for men and women.

The entrance door of the women's toilet room shall bear the following bilingual inscription:—"Salle de toilette des femmes," "Women's toilet," or other equivalent inscription. Likewise, the entrance door of the men's toilet, shall bear the following bilingual inscription:—"Salle de toilette des hommes," "Men's toilet," or other equivalent inscription.



Toilet rooms in funeral directors' establishments shall be regularly supplied with toilet paper, soap (preferably powder or liquid) and individual towels. The establishments not provided with sanitary fountains, shall be supplied with individual drinking cups. Plumbing shall be installed in conformity with the provisions of By-law No. 1341 and its amendments.

## Chapter IV

### EMBALMERS AND EMBALMING

#### Precautionary measures.

ARTICLE 20.—The embalmer shall perform his work with all the attention and care required in order to prevent all danger of contamination for himself and for others, and to prevent any nuisance. He must also avoid mutilating the bodies and all unnecessary amputations. Whether this work is carried out in a funeral director's establishment or at the domicile of the deceased person, the following precautions must be taken by the embalmer:

(a) wear a gown and a covering for the head during his work. These articles of clothing must be washed and sterilized after each operation;

(b) wear rubber gloves from beginning to end of each operation;

(c) immerse for at least 15 minutes receptacles utilized in a 1% solution of chlorinated soda or in some other effective disinfecting solution;

(d) wash and disinfect instruments utilized in the above manner before using them a second time.

(e) gather the blood in receptacles which shall be emptied in a water-closet bowl or special slop-sink, flushing the former or letting water run into the latter for several minutes;

(f) burn linen or cloths which are used or leave them in boiling water for at least an hour; burn all solid objects or matter, if necessary, allowing them to drip into a water-closet bowl or

slop-sink. In this case, the precautions required by paragraph (e) of this article should be taken;

Solid objects or matter to be disposed of when embalming is done at the house of a deceased person, shall be taken to the funeral director's establishment in a water-tight receptacle provided with a cover which shall also be water-tight and of metal, to be burned there in a special oven, stove or incinerator. Nevertheless, should there be found at the person's domicile the above mentioned means of burning them, such solid objects or matter may be burned there. It is forbidden to throw any solid object or matter into a water-closet bowl, slop-sink or other plumbing fixture. It is also forbidden to deposit such objects or matter with household refuse which is left to be collected and taken away;

(g) lay out and prepare the body immediately following embalming and place it without delay in its coffin or casket.

### **Embalming at the domicile.**

ARTICLE 21.—If embalming is done at the domicile of a deceased person, the room used for such purpose shall be free of all useless furniture and bedding and only the embalmer and his assistants shall be admitted, besides the employees of the Department of Health.

## **Chapter V**

### **SPECIAL PROVISIONS**

#### **Funeral decorations.**

ARTICLE 22.—No drapes or hangings and no carpets or other funeral decorations of this kind may be used in a dwelling or in a mortuary parlor without having previously been cleaned and disinfected to the satisfaction of the Department of Health. It is forbidden to utilize such decorations in a house contaminated by contagious disease or in any other place which the Department of Health shall designate.

#### **Displaying funeral equipment, etc.**

ARTICLE 23.—It is forbidden for commercial, advertising or publicity purposes, to place on view or display before the public

any hearse, casket, funeral decorations or hangings, or any such thing, as well as any drawing, picture, photograph, sign etc., representing such funeral material.

### **Toleration.**

ARTICLE 24.—On the written request of a funeral director whose establishment was in existence before this by-law went into effect and is not in conformity with the provisions of Articles 16 and 18 or is not provided with the plumbing fixtures required by Article 19, or who does not possess the means of transportation required by Article 5 also of said by-law, the Director of the Department of Health may grant him a delay of one year in which to conform to said articles. This delay may be extended for a second and last year by the Executive Committee of the City, on the favorable report from the Director of the Department of Health.

### **Responsibility.**

ARTICLE 25.—Anyone contravening any of the provisions of this by-law shall be held responsible for such infringement and shall be amenable to prosecution to the same extent as license holders.

### **Repeal.**

ARTICLE 26.—By-law No. 603 and by-laws or parts of by-laws which are incompatible with this by-law are repealed.

## **Chapter VI**

### **PENALTY**

ARTICLE 27.—Anyone contravening one of the above provisions shall be liable to a fine with or without costs and, in default of immediate payment of said fine, with or without costs, as the case may be, to an imprisonment, the amount of said fine and the term of said imprisonment to be fixed by the Recorder's Court of the City of Montreal, at its discretion; but said fine shall not

exceed forty dollars and the imprisonment shall not be for a longer period than sixty days, the said imprisonment, however, to cease at any time before the expiry of the term fixed by the said Recorder's Court, upon payment of the said fine or fine and costs, as the case may be, and if the infringement of this by-law continues, the party contravening shall be liable to the fine and penalty above mentioned for each day during which the infringement is continued.

(Approved)

The Administrator Delegate of the Quebec Municipal Commission.

(Signed) HONORÉ PARENT.

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## THE BOARD OF HEALTH

This Board, appointed by the Council in conformity with By-law No. 1044, was made up, in 1940, of the following members:

Alderman J. M. Savignac, N.P., Chairman of the Executive Committee, ex-officio member;

Alderman Dr. Z. H. Lesage, M.D.;

Alderman Dr. J. Coupal, D.D.S.;

Alderman J. A. Edmison, Attorney;

Dr. Adélarde Groulx, M.D., M.P.H., Director of the Department of Health, ex-officio member;

Dr. B. G. Bourgeois, M.D., Professor of the Medical Faculty at Montreal University;

Dr. E. G. Asselin, M.D., Professor of the Medical Faculty at Montreal University;

Dr. A. Grant Fleming, M.D., Dean of the Medical Faculty and Director of the Division of Public Health and of Preventive Medicine at McGill University;

Dr. Frank G. Pedley, M.D., Assistant Professor of Industrial Hygiene at McGill University.

During the year the Board studied the following questions:

Organization of sanitary districts in Montreal.

Control of measles.

Sources of ice supply for Montreal.

Milk inspection, pasteurization, etc.

Ice cutting in certain city quarries.

Draft of by-law re Funeral Directors and Embalmers.

Request from Children's Memorial Hospital for additional beds needed for tuberculous children.

Draft of by-law re noxious weeds.

Report re home-made spruce beer.

Report re bacteriological analysis of samples taken in restaurants, eating houses, dining rooms, manufacturing plants, etc., as to sterilization of drinking glasses and utensils used.

Appointment of a superintendent of the municipal laboratory.

Work of municipal clinics re infant mortality.

Orthodontia clinic.

Petitions from Montreal and McGill Universities re difficulty in securing dead animals for their research laboratories.

Competition among Canadian cities re conservation of health.

Campaign against tuberculosis. Work of tuberculosis section and radiology clinic.

Sources of cream supply in Montreal.

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**Director's Office**

**Report of**

**LAW OFFICE**

**for the year 1940**

by

**GORDIEN MÉNARD**

Lawyer, Department of Health

Briefs submitted for study and report.....	137
Drawing up of complaints for writs of summation in the Recorder's Court.....	441
Actions pleaded.....	435
(a) maintained.....	380
(b) dismissed.....	9
(c) under advisement.....	46
Inquiries made.....	8
Drawing up and study of contracts.....	6
Preparation of affidavits.....	5
Legal questions submitted and information given.....	520
Legal advice to the Director and to the Superintendents of the various divisions of the Department of Health.....	198
Written reports.....	21
Drawing up of plans of By-laws.....	7
Drawing up of plans of amendments to the Charter.....	2

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Director's Office

Report of the  
SECTION OF PUBLIC HEALTH INSTRUCTION  
for the Year 1940

by

ADRIEN PLOUFFE  
Doctor of Public Health  
Assistant Director, Department of Health

Following the practice in vogue with the Department of Health, we have continued to give the greatest importance to health propaganda.

The public must be kept constantly informed of precautions to be taken to preserve their health and of the means to be taken to recover it when they have failed to make good use of preventive measures.

All public health authorities the world over attach the utmost importance to the spreading of healthful ideas to put the public on guard against prejudice caused by ignorance, negligence, indifference or carelessness.

We are aware in all countries that the public health official must not isolate himself in his office. He must leave his laboratory or his study to make contact with the public.

He must ceaselessly teach health ideas and those of preventive medicine so that everyone may become conscious of the value of those great principles which, when put into practice, will assure the good health of the people.

Our efforts must be directed towards that much desired era when all minds will be convinced of the effectiveness of preventive methods. We are already witnessing notable progress in this line but there is still a great deal of work to be done before the public reaches health-consciousness which is, after all, a practical understanding of life.



By dint of repeating health ideas; by spreading in the minds of our fellow-workers these most useful and necessary principles of prevention; by disseminating in a thousand-and-one ways the arguments showing the need for preventing disease or lessening its evils; by advising our population to have frequent recourse to the family doctor, who still remains one of the corner-stones of public health, we will succeed in bringing the public to an understanding of our efforts.

Public health and preventive medicine have unquestioned influence upon the preservation of health; this in turn plays an important part in assuring social welfare; the latter increases the potential happiness of mankind and it follows that teaching of the principles of prevention helps to make people happier. As individual happiness contributes towards the prosperity of a country, it need not be added that teachers of public health have a glorious work to perform.

Ignorance is becoming more old-fashioned day by day. We are trying to teach health notions to children in primary school; we spare no efforts to inform the public through the newspapers and the radio and we know that this is bringing results.

The rising generation will be far more conscious of the value of prevention than was the past generation. In 1940 inspecting physicians and visiting nurses, in their visits to schools, made it a duty to teach pupils elementary principles of health.

The Department of Health recognizes that childhood and youth should be surrounded by healthful ideas. It is encouraged by the good-will of the teaching staffs who are lending their co-operation. In all schools teachers are furthering our efforts and we are proud and happy to state that we are truly grateful to them. It is by working through the student minds that we will be able to create a generation which will tomorrow fully understand what public health and preventive medicine can do to promote happiness for humanity.

The program evolved in 1938 by Dr. Adélarde Groulx was followed out in its general lines during 1940.

The 1939 report was published, containing the report of the Director on the budget and the expenses of the Department of Health, papers on the demographic trend; comments on improve-

ments made, tuberculosis in Montreal, infant mortality, small-pox, diphtheria deaths and immunization, measles, milk inspection in the city, the new massage parlor by-law, the Board of Health and legal office; this 1939 report contained, after the comments of the Director, the reports of the various divisions. We have looked after the editing and revision of various publications from the divisions of Contagious Diseases, Child Hygiene, Food Inspection, Sanitation, etc.

The Health Bulletin was published every two months.

### **Radio**

Members of the staff have given, under the auspices of various associations and thanks to the generosity of the radio stations, addresses on the following questions: the fight against infant mortality, milk inspection, clean-up week, breast-feeding, etc., etc.

### **Press**

News items and press releases of a nature to interest the public were sent to the newspapers.

As was the case last year, in 1940 the Public Health Instruction section collaborated in a special manner with the newspapers and reviews, more than 600 articles and small news items of different kinds having been published under such headings as: "Health as Capital"; "To help your Health"; "A Health idea Daily"; "The Good-Health Bulletin"; etc.

It is apposite to thank our daily newspapers for the gracious welcome with which they always receive the items which are sent them. It is thanks to the support of the Press of Montreal that the Department of Health is enabled to give the population of the city all the information which it deems opportune. The newspaper is today the most powerful means of propaganda which there is, and the Department of Health would show bad form indeed if it sought to stint the praise and gratitude which it owes the Press which is so willing to spread ideas which are helpful to our population in maintaining its health.

### **Educational campaign against tuberculosis**

The section devoted to public health education organized, in 1940, 59 campaign nights against tuberculosis. These social evenings included:

- (a) monologues and sketches as a vehicle for propaganda;
- (b) a quarter-hour address by a speaker invited for the occasion or by a staff doctor;
- (c) showing of the film, "Health and Happiness," and of other educational films.

The public is a grown-up child and it must be entertained if we wish to capture its attention for the purpose of teaching useful lessons. We have adopted the system of a short address lasting a quarter of an hour, accompanied by a monologue, singing and a sketch with a propaganda objective.

These pieces were interpreted by pupils of Mrs. J. L. Audet. They carry health lessons which the public, through amusement, easily take to heart.

These propaganda entertainments are announced on Sundays by the pastors who ask their parishioners to attend them. The parish priest usually presides with the ward councillors.

The numerous attendance proves that the public is interested in the efforts which we are making to educate them.

Moreover, in 1940, there were 167 propaganda meetings held for school pupils. There is an address given by an inspecting physician and the film "Health and Happiness" is shown.

### **Exhibits and Expositions**

At each campaign meeting against tuberculosis, we exhibit several of our bilingual posters, "Fight against Tuberculosis." And we distribute pamphlets on tuberculosis. Moreover, on request, we place at the disposal of the schools or other organizations posters and circulars for propaganda purposes which are distributed or shown to the public.

### Talks to the staff

Talks are given to the medical staff either by department doctors or by outside physicians. Thus during the year 1940 various topics were treated: breast ailments; breast feeding; vitamins; buying (food and food values); procedure in cases of contagious disease; part played by the nurse in contagious cases; diagnosis of contagious diseases; report of biennial congress of Canadian Nurses; professional attitude towards mental hygiene; ideas on feeding infants, etc.

### Training of university students

The Department of Health co-operates with the official authorities teaching public health. It is in constant contact with the medical faculties of Montreal and McGill Universities. In 1940 medical students of both these universities visited various departmental divisions.

Public health students and nurses following the courses in public health in special faculties of these universities also spend some time in our department.

## DEPARTMENT OF HEALTH PUBLICATIONS

### Contagious Diseases Division

	Number distributed in 1940
Posters: "Fight tuberculosis".....	6,938
Circulars:	
No. 2 Diphtheria.....	4,000
No. 4 Whooping-cough.....	3,500
No. 6 Scarlet fever.....	4,000
No. 7 Typhoid fever.....	1,250
No. 8 Measles.....	4,000
No. 10 Poliomyelitis.....	2,000

	Number distributed in 1940
No. 11 Tuberculosis.....	85,000
No. 12 "When a case of poliomyelitis occurs".....	2,000
No. 16 Vaccination—By-law No. 324.....	1,750
No. 31 Rabies.....	.....
No. 36 Small-pox and vaccination.....	9,000
No. 37 Advice to parents (Contagious Diseases)....	10,500
No. 62 Tuberculin control of T.B.....	7,700
Placards: Whooping-cough, diphtheria, measles, scarlet- fever, cerebro-spinal meningitis and poliomyelitis....	6,200
Total.....	147,838

### Child hygiene division

#### Circulars (Bilingual):

No. 2 "Height and weight".....	11,500
No. 3 "Immunization against diphtheria".....	22,500
No. 6 "Cleaning diapers".....	8,000
No. 7 "Artificial nursing".....	11,000
No. 8 "Advice to parents concerning care of chil- dren after tooth extraction".....	2,000
No. 9 "Nursing mothers".....	10,750
No. 10 "Prevent blindness in your children".....	7,500
No. 11 "Child nutrition".....	89,200

#### Letters from the Director on the birth of a child—

French.....	11,800
English.....	1,700

#### Letters from the Director to mothers when the child reaches six months—

French.....	8,000
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#### Letters from the Director—Advice to mothers—

French.....	7,000
English.....	2,000

	Number distributed in 1940
Posters (bilingual):	
Health of Infants.....	100
Mothers, nurse your child.....	38
Booklets:	
No. 2 The Infant's Health.....	14,075
No. 2a Prenatal Hygiene.....	800
No. 4 Infants' Health League.....	454
	<hr/>
Total.....	201,217

### Division of Food Inspection

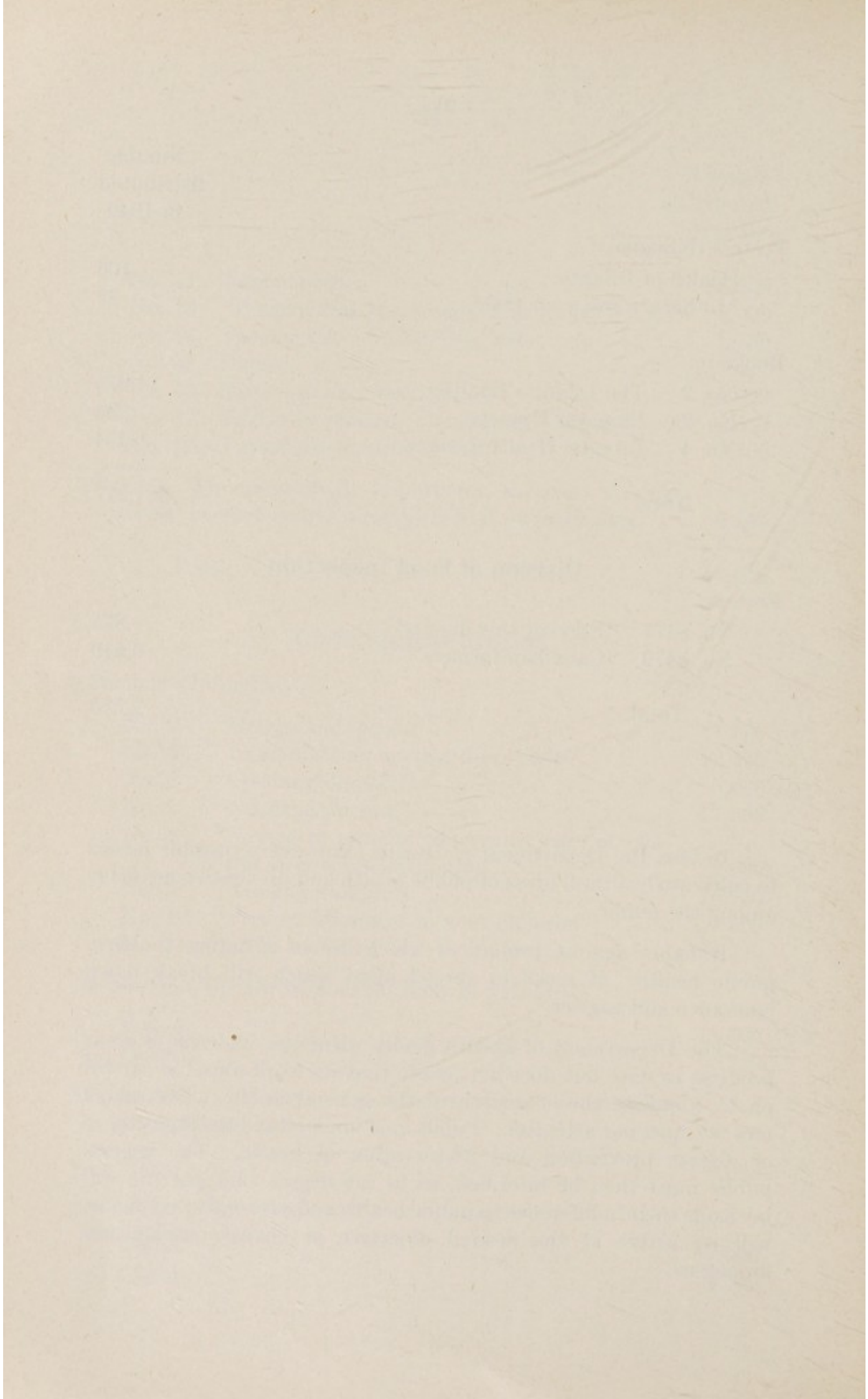
Posters:	
No. 8477 "Prevent this danger".....	875
No. 8479 "Canadian farmers".....	6,610
	<hr/>
Total.....	7,585

\* \* \*

In fine, the Department of Health takes every possible means to cultivate healthful ideas of public health and preventive medicine among the public.

It fights against prejudices which are of a nature to harm public health. It seeks to spread ideas which will break down ignorance and neglect.

The Department of Health gladly witnesses evidence of great progress to date but does not ignore that its work must be carried on to complete the education of the general public. The school now occupies our attention. Pupils must understand the importance of disease prevention and preservation of health. The general public must then be informed, as in the degree that parents will lay aside their indifference to public health and preventive medicine, will we arrive at the desired objective of health-consciousness among us.



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**Division of Communicable Diseases**

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**Report of the**  
**COMMUNICABLE DISEASE DIVISION**  
**for the year 1940**

by

Dr. J. H. GERVAIS, D.H.P.  
superintendent

The evolution of contagious diseases during 1940 has shown no particular character of importance.

The number of reported cases (16,877)—tuberculosis included—has been evidently inferior to the average of the last five years (22,237).

Apart from the 581 deaths from tuberculosis out of 1,453 registered cases in 1940, the general percentage of mortality from various other contagious diseases has been 1.7, whilst the average percentage for 1935-1939 numbered 2.

On the whole the movement of morbidity and mortality due to contagion in 1940 has not progressed and has kept within the limits of a normal evolution.

The predominating diseases, such as chicken-pox (5,165), whooping-cough (4,912) and scarlet fever (2,135) show a total number of 12,212 out of 15,424 cases, excluding registered reports attributable to tuberculosis.

All other diseases have had a rather low incidence, except for influenza which, during November and December, has shown an increase of short duration; nevertheless the latter disease has had an extremely mild evolution.

Concerning diphtheria the favourable difference between 1940 and 1939 is not considerable and the mortality rate by 100,000, which was 2.1 in 1939, has fallen to 1.2 in 1940. These results show the necessity of intensifying immunization against this disease, particularly among children under 5 years who are more susceptible. On this subject we are pleased to notice that the year

1940 has shown a notable progress in immunizations given by members of the medical profession in their private practice. A greater number of physicians have answered our call to collaboration, and it is our duty to express our appreciation to them.

Let us add that physicians may always obtain freely at the Health Department, for use in their practice, antidiphtheria serum, Ramon anatoxin for immunization against diphtheria and vaccine against smallpox; a call at the Communicable Disease Division, room 33, City Hall Annex, will insure prompt service.

Typhoid fever has had a lower trend in 1940; morbidity rate by 100,000 which was 11.33 in 1939, has fallen to 8.7 in 1940. If we take into account that, out of 79 registered cases 41% were strangers, the Health Department considers this situation as extremely satisfactory and as a proof of the efficacy of our activities concerning water, milk and food control.

The various control operations by the personnel of our Division and other Divisions are distributed as follows in a general summary.

### Summary

Cases reported and confirmed.....	16,877
Number of deaths.....	847
Cases hospitalized.....	4,582
Visits by physicians.....	6,093
Visits by nurses (tuberculosis included).....	22,747
Visits by the superintendent of nurses.....	231
Visits by disinfectors.....	4,619
Number of disinfections.....	3,822
Houses placarded.....	2,157

## Number of vaccinations against smallpox:

(a) by Division of Child Hygiene, performed in schools and industrial establishments.	11,706	
(b) by the Division of Medical Control.....	16,105	
(c) by private physicians.....	2,590	
(d) by other institutions.....	240	
		30,641

## Number of complete immunizations against diphtheria reported to our Division and given by:

Child Hygiene Division..... (to March 29th, 1941)	9,852	
Child Welfare Association.....	890	
Fédération des Oeuvres d'Hygiène infantile...	1,991	
Private physicians.....	434	
Other institutions.....	401	
		13,568

Number of dog bites reported to the Division of communicable diseases..... 200

Free distribution of anti-poliomyelitic serum..... 3

## Free distribution of scarlet-fever toxin:

## Number of vials:

(a) curative doses.....	44
(b) preventive doses.....	81

## Free distribution of antidiphtheria serum:

## Number of vials:

(a) curative doses.....	102
(b) preventive doses.....	165

Free distribution of Toxoid (Anatoxine Ramon) for immunization against diphtheria..... 3,756

Various analyses submitted to the Municipal Laboratory.. 2,076

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Following this outline, details of the various operations in the Division of communicable diseases for the year 1940 are stated.

Table I

Diseases	Cases reported	Deaths	Percentage of deaths
Diphtheria.....	134	11	8.2
Scarlet fever.....	2,135	8	0.37
Measles.....	1,483	2	0.13
German measles.....	125	.....	.....
Whooping-cough.....	4,912	72	1.46
Mumps (Parotitis).....	942	1	0.11
Chicken-pox.....	5,165	6	0.11
Smallpox.....	.....	.....	.....
Erysipelas.....	117	8	6.8
Typhoid fever.....	79	15	18.9
C.S. Meningitis.....	25	7	28.0
Poliomyelitis.....	5	.....	.....
Lethargic encephalitis.....	.....	.....	.....
Puerperal septicaemia.....	17	16	94.1
Purulent ophthalmia.....	34	.....	.....
Amoebic dysentery.....	4	2	50.0
Leprosy.....	.....	.....	.....
Undulant fever.....	1	.....	.....
Bacillary dysentery.....	11	2	18.1
Influenza.....	70	116*	.....
Scabies.....	165	.....	.....
Total.....	15,424	266	1.7
Pulmonary tuberculosis.....	1,335	510	38.2
Tuberculosis other forms.....	118	71	60.1
Grand total.....	16,877	847	5.2

P.S. (\*) Cases of influenza are not all reported to the Division of Communicable Diseases; it is more through death certificates that they are computed.

**Table II**  
**Typhoid Fever**

1940 Months	Repartition							
	Number of cases		Source of infection		Hospitalization		Deaths	
	Residents	Outside cases	In Montreal	Outside cases	Residents	Outside cases	Residents	Outside cases
January.....	2	2	2	2	1	2	...	...
February.....	3	1	3	1	2	1	1	1
March.....	5	6	4	7	5	6	1	1
April.....	2	3	2	3	2	3	...	2
May.....	7	...	7	...	7	...	1	...
June.....	3	...	3	...	3	...	...	...
July.....	2	...	2	...	1	...	...	...
August.....	6	4	2	8	6	4	4	1
September.....	12	2	7	7	8	2	...	...
October.....	7	5	4	8	6	5	...	1
November.....	1	...	...	1	1	...	...	...
December.....	6	...	4	2	6	...	2	...
<b>Total.....</b>	<b>56</b>	<b>23</b>	<b>40</b>	<b>39</b>	<b>48</b>	<b>23</b>	<b>9</b>	<b>6</b>

98

Percentage of deaths for residents..... 16.1%  
 Percentage of deaths for outsiders who numbered 23..... 26.1%

Table III

## Classification by ages

Diseases	Under 1 year	1 to 4 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 29 years	30 to 39 years	40 to 49 years	50 to 59 years	60 to 69 years	70 to 79 years	80 to 89 years	90 to 100 years	Total
Diphtheria.....	4	57	43	16	5	7	2	2	1	1	1	1	1	134
Scarlet fever.....	28	604	1,076	304	46	53	20	3	1	1	1	1	1	2,135
Measles.....	69	435	825	98	23	24	8	1	1	1	1	1	1	1,483
German measles.....	3	20	45	9	6	34	7	1	1	1	1	1	1	125
Whooping-cough.....	646	2,257	1,864	119	6	11	8	1	1	1	1	1	1	4,912
Mumps.....	10	123	633	130	16	14	9	5	1	1	1	1	1	942
Chicken-pox.....	349	1,462	2,899	366	49	25	12	3	1	1	1	1	1	5,165
Smallpox.....	5	2	5	6	2	15	18	20	17	15	8	3	1	117
Erysipelas.....	1	4	6	13	17	17	12	3	4	2	1	1	1	79
Typhoid fever.....	2	4	3	4	3	1	7	1	1	1	1	1	1	25
C.S. Meningitis.....	2	2	3	3	3	3	3	1	1	1	1	1	1	5
Poliomyelitis.....	2	2	3	3	3	3	3	1	1	1	1	1	1	17
Lethargic encephalitis.....	27	3	1	1	1	3	5	4	1	1	1	1	1	34
Puerperal septicaemia.....	27	3	1	1	1	3	5	4	1	1	1	1	1	4
Purulent ophthalmia.....	27	3	1	1	1	3	5	4	1	1	1	1	1	34
Amoebic dysentery.....	27	3	1	1	1	3	5	4	1	1	1	1	1	4
Leprosy.....	27	3	1	1	1	3	5	4	1	1	1	1	1	4
Undulant fever.....	1	4	4	2	2	2	2	1	1	1	1	1	1	11
Bacillary dysentery.....	1	4	4	2	2	2	2	1	1	1	1	1	1	70
Influenza.....	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	165
Scabies.....	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	Unclassified cases.	165
Total.....	1,145	4,977	7,408	1,068	1,76	208	106	42	25	20	8	5	1	15,424
Pulmonary tuberculosis.....	5	23	39	27	127	391	308	186	137	71	17	4	1	1,335
Tuberculosis other forms.....	1	11	9	13	19	31	11	9	9	4	1	1	1	118
Grand total.....	1,145	4,977	7,408	1,068	1,76	208	106	42	25	20	8	5	1	16,877

Table IV  
Classification by months

Diseases	January	February	March	April	May	June	July	August	September	October	November	December	Total	Total of deaths for 1940
Diphtheria.....	18	14	15	7	6	6	8	13	8	11	13	15	134	11
Scarlet fever.....	218	217	200	262	214	177	90	64	116	169	245	163	2,135	8
Measles.....	154	137	190	324	392	143	53	23	16	6	20	25	1,483	2
German measles.....	13	2	9	24	15	15	5	.....	3	4	7	28	125	.....
Whooping-cough.....	401	343	427	399	421	366	421	439	409	504	464	318	4,912	72
Mumps.....	80	112	161	135	83	104	25	13	15	20	63	131	942	1
Chicken-pox.....	638	461	652	747	671	377	148	50	56	218	608	539	5,165	6
Smallpox.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erysipelas.....	11	8	14	15	9	5	10	3	11	7	13	11	117	8
Typhoid fever.....	4	4	11	5	7	3	2	10	14	12	1	6	79	15
C.S. Meningitis.....	1	1	5	4	5	.....	1	3	1	1	1	2	25	7
Poliomyelitis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lethargic encephalitis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Puerperal septicaemia.....	1	2	3	2	1	.....	1	1	.....	1	.....	.....	.....	.....
Purulent ophthalmia.....	1	1	5	1	4	5	6	1	.....	3	4	1	34	.....
Amoebic dysentery.....	1	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Undulant fever.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bacillary dysentery.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Influenza.....	12	9	15	10	5	1	.....	1	4	3	.....	4	11	.....
Scabies.....	12	9	13	30	22	.....	4	1	22	23	21	8	165	.....
Total.....	1,565	1,322	1,720	1,965	1,856	1,202	775	624	679	984	1,465	1,267	15,424	266
Pulmonary tuberculosis.....	100	130	107	111	117	129	102	129	108	118	88	96	1,335	510
Tuberculosis other forms.....	9	12	5	12	10	8	13	15	13	8	7	6	118	71
Grand total.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16,877	847

Table V  
Classification by nationalities

Diseases	French Canadians	English Canadians	Jews	Other Nationalities	Total
Diphtheria.....	105	19	3	7	134
Scarlet fever.....	1,382	410	229	114	2,135
Measles.....	655	614	145	69	1,483
German measles.....	39	72	11	3	125
Whooping-cough.....	3,370	1,011	180	351	4,912
Mumps.....	662	191	31	58	942
Chicken-pox.....	3,171	1,396	265	333	5,165
Smallpox.....	.....	.....	.....	.....	.....
Erysipelas.....	76	33	4	4	117
Typhoid fever.....	57	12	6	4	79
C.S. Meningitis.....	12	8	.....	5	25
Poliomyelitis.....	2	3	.....	.....	5
Lethargic encephalitis.....	.....	.....	.....	.....	.....
Puerperal septicaemia.....	13	3	.....	1	17
Purulent ophthalmia.....	33	1	.....	.....	34
Amoebic dysentery.....	.....	3	1	.....	4
Leprosy.....	.....	.....	.....	.....	.....
Undulant fever.....	.....	1	.....	.....	1
Bacillary dysentery.....	11	.....	.....	.....	11
Influenza.....	Unclassified cases.	.....	.....	.....	70
Scabies.....	Unclassified cases.	.....	.....	.....	165
Total.....	9,588	3,777	875	949	15,424
Pulmonary tuberculosis.....	960	212	42	121	1,335
Tuberculosis other forms.....	92	17	.....	9	118
Grand total.....	.....	.....	.....	.....	16,877







## Control of Contagious Diseases

1940

Diseases	Control visits			
	Diagnosis	Super- vision of quaran- tined houses	Disinfec- tion	Placards
Diphtheria .....	8	610	207	23
Scarlet fever .....	263	3,552	1,772	631
Measles .....	309	1,558	185	471
German measles .....	12	117	17	.....
Whooping-cough .....	1,398	4,719	892	1,032
Mumps .....	413	821	15	.....
Chicken-pox .....	1,644	3,938	74	.....
Erysipelas .....	5	108	56	.....
Typhoid fever .....	84	104	22	.....
C.S. Meningitis .....	28	35	4	.....
Poliomyelitis .....	4	16	1	.....
Puerperal septicaemia .....	.....	12	.....	.....
Purulent ophthalmia .....	3	35	.....	.....
Amoebic dysentery .....	4	6	.....	.....
Lethargic encephalitis .....	.....	1	.....	.....
Influenza .....	2	7	1	.....
Scabies .....	58	114	1	.....
Undulant fever .....	2	.....	.....	.....
Tuberculosis .....	.....	3,523	558	.....
Skin disease .....	92	110	.....	.....
Vulvo-vaginitis .....	.....	9	.....	.....
Miscellaneous .....	.....	.....	12	.....
No infection .....	815	.....	5	.....
Under observation .....	225	.....	.....	.....
Miscellaneous visits .....	521	3,535	4,619	.....
Wrong addresses .....	196	.....	.....	.....
Leprosy .....	.....	.....	.....	.....
Trachoma .....	2	.....	.....	.....
Trichinosis .....	2	.....	.....	.....
Tetanus .....	1	.....	.....	.....
Vincent's angina .....	1	47	.....	.....
Bacillary dysentery .....	1	1	.....	.....
<b>Total .....</b>	<b>6,093</b>	<b>22,978</b>	<b>8,441</b>	<b>2,157</b>

Visiting nurses in their investigations in families have taken 1,470 cultures for laboratory analysis.

### PASTEUR HOSPITAL

Patients hospitalized.....	2,897
Number of days of hospitalization.....	101,277
Average sojourn for each patient.....	34.9
Maximum hospitalization by day.....	319
Minimum hospitalization by day.....	192
Average hospitalization by day.....	278
Deaths during the year 1940.....	91
Deaths during the first 48 hours.....	46
Number of deaths after the first 48 hours.....	45
Proportion of deaths during the first 48 hours to the total of deaths.....	50.5%
Ambulance calls.....	2,045
Microscopic examinations.....	2,798
Urinalyses.....	6,576

### Intubations and Results

Ages	Intuba- tions	Cures	Deaths
Under 1 year.....	1	1	....
1 to 2 years.....	4	2	2
2 to 3 years.....	3	3	....
3 to 4 years.....	6	5	1
4 to 5 years.....	6	4	1
5 to 6 years.....	3	2	....
6 to 7 years.....	2	1	1
7 to 8 years.....	....	....	....
8 to 9 years.....	....	....	....
9 to 10 years.....	....	....	....
Total.....	25	18	5

### Nationality and Religion of Patients

Nationalities	Total	Religion	Total
French-Canadians.....	2,546	Roman Catholics.....	2,597
English-Canadians.....	42	Protestants.....	47
Jews.....	6	Jews.....	6
Other nationalities.....	58	Other religions.....	2
<b>Total.....</b>	<b>2,652</b>		<b>2,652</b>

### Fluctuation of Patients and Death Rate

Diseases	In hospital January 1st, 1940	Ad- mitted	Total number patients	Cured	Dead	In hospital Decem- ber 31st, 1940
Diphtheria.....	15	109	124	91	12	21
Scarlet fever.....	122	1,023	1,145	1,033	3	109
Measles.....	9	108	117	115	....	2
Erysipelas.....	9	66	75	69	2	4
Chicken-pox.....	7	86	93	87	3	3
Whooping-cough.....	77	935	1,012	851	42	119
Mumps.....	....	6	6	6	....	....
Influenza.....	....	27	....	26	1	....
German measles.....	....	3	3	3	....	....
Poliomyelitis.....	....	1	1	1	....	....
Diffuse phlegmon.....	....	2	2	2	....	....
Miscellaneous.....	6	285	319	251	28	13
<b>Total.....</b>	<b>245</b>	<b>2,652</b>	<b>2,897</b>	<b>2,535</b>	<b>91</b>	<b>271</b>

## ALEXANDRA HOSPITAL

Patients hospitalized.....	1,685
Number of days of hospitalization.....	49,597
Average sojourn for each patient.....	29
Maximum hospitalization by day.....	171
Minimum hospitalization by day.....	87
Average hospitalization by day.....	129
Deaths during the year 1940.....	14
Deaths during the first 48 hours.....	5
Number of deaths after the first 48 hours.....	9
Proportion of deaths during the first 48 hours to the total of deaths.....	14%
Ambulance calls.....	1,343
Microscopic examinations.....	....
Urinalyses.....	10,000

## Intubations and Results

Ages	Intubations	Cures	Deaths
Under 1 year.....	..	..	..
1 to 2 years.....	..	..	..
2 to 3 years.....	3	3	..
3 to 4 years.....	1	1	..
4 to 5 years.....	1	1	..
5 to 6 years.....	..	..	..
6 to 7 years.....	..	..	..
7 to 8 years.....	..	..	..
8 to 9 years.....	..	..	..
9 to 10 years.....	..	..	..
Total.....	5	5	..

### Nationality and Religion of Patients

Nationalities	Total	Religion	Total
French-Canadians.....	390	Roman Catholics.....	695
English-Canadians.....	814	Protestants.....	742
Jews.....	241	Jews.....	241
Other nationalities.....	240	Other religions.....	7
Total.....	1,685		1,685

### Fluctuation of Patients and Death Rate

Diseases	In hospital January 1st, 1940	Admitted	Total number of patients	Cured	Deaths	In hospital December 31st, 1940
Diphtheria.....	6	36	42	40	2	10
Scarlet fever.....	56	670	726	724	2	82
Measles.....	10	124	134	133	1	4
Erysipelas.....	5	33	38	37	1	1
Chicken-pox.....	4	70	74	74	....	2
Whooping-cough.....	25	504	529	522	7	47
Mumps.....	2	50	52	52	....	4
Influenza.....	....	6	6	6	....	....
German measles.....	....	66	66	66	....	16
Poliomyelitis.....	....	....	....	....	....	....
Diffuse phlegmon.....	....	....	....	....	....	....
Miscellaneous.....	1	126	127	126	1	2
Total.....	110	1,685	1,795	1,795	14	168

**Communicable Disease Division**

**Report of**

**SECTION OF TUBERCULOSIS**

**for the year 1940**

by

**LEO LADOUCEUR, M.D.**

Chief of Section

The Section of Tuberculosis has terminated its second year. Apart from the work done by the personnel of this Section and related divisions (Child Hygiene, Medical Control, Food Inspection), the Health Department is gratified by the increased awakening of the medical profession to its social function in the control of tuberculosis.

Table No. 1 shows the work of Visiting Nurses.

HOME VISITS by nurses:	
New cases.....	1,608
Subsequent calls.....	1,876
Miscellaneous.....	952
Total.....	4,436

We made every effort to avoid useless subsequent calls. Our experience showed that recalcitrant families, which still refused examination after 2 or 3 visits, were also unco-operative after 6 or 7 visits. We decided to send a letter to these cases and results were more than encouraging. The City has been divided into districts, each with a special nurse. Consequently the nurse is acquainted with her families which in turn get used to considering her, not as a nuisance, but as a friend. Moreover we strove to prevent duplication of visits as in the case of patients already visited by Bruchesi or Royal Edward Institute. The central filing system has permitted the limiting of these useless calls.

**Central Filing System**

The Section of Tuberculosis keeps on file all tuberculosis cases reported in Montreal. Collaboration by physicians and general or



specialized institutions is necessary and, I am glad to say, more complete from day to day.

Table No. 2 shows total of reported cases in 1940.

Reports	Cases			Total
	Inc.	Mod. adv.	Much adv.	
Secondary tub. (adult).....	195	823	282	1,300
Pulmonary tub. (juvenile).....	13	6	14	33
Other forms tub.....	120	...	...	120
Total of reported cases.....	328	829	296	1,453

### X-ray clinic

In order to co-operate more closely with physicians, the Health Department opened, last February, an X-ray clinic at No. 305 Mt. Royal East, where an X-ray apparatus for pulmonary radiography has been put at the disposal of the medical profession for examination of their poor patients.

Every child under 15 years of age, referred by the physician, must first undergo, if this has not already been done, the tuberculin test. If result is negative, a notice is sent to his physician but no radiography is made except for very special reasons. Positive reactors are immediately X-rayed. For adolescents or adults, there is no tuberculin testing, but immediate radiography. No clinical examination is made; the report sent to the physician is based on an interpretation of the film substantiated, when possible, by sputum examinations.

The term "suspect," which seems vague to a few, does not indicate tuberculosis, but, on account of recent contact with a germ carrier, pronounced emaciation or slightly shaded pulmonary areas; we prefer to see these persons again after a three month period in order to avoid missing an incipient lesion.

Table No. 3 shows work done by X-ray clinic.

Referred cases	Positive					Neg.	Susp.	Total
	Inc.	Mod. adv.	Much adv.	A.F.	Total			
Physicians.....	26	84	6	17	133	792	590	1,515
Inf. contacts.....	16	50	3	1	70	1,165	1,269	2,504
Came by themselves.	...	4	...	1	5	55	30	90
Total.....	42	138	9	19	208	2,012	1,889	4,109

Table No. 4 shows more active co-operation by physicians. While at first cases referred by them were very few in number, they now comprise more than half of those who come either of their own accord or under advice of visiting nurses. This encouragement should continue and the Health Department highly congratulates physicians on this subject.

### Patients referred by

	Physicians	Visiting nurses	Came by themselves
February.....	25	83	6
March.....	19	89	19
April.....	97	189	19
May.....	138	205	6
June.....	117	191	2
July.....	141	250	16
August.....	160	219	5
September.....	174	284	5
October.....	222	402	3
November.....	202	273	6
December.....	220	319	3
Total.....	1,515	2,504	90

### Tuberculin Test: "Vollmer Patch Test"

Tuberculin Testing among children referred to the clinic and by physicians of Child Hygiene in all baby clinics is progressing.

Table No. 5 shows work performed. The more numerous the tests, the more it will be possible to derive accurate data.

Reactions:	Positive	Negative	Not returned	Total
X-ray clinic.....	143	346	1	490
Municipal clinic.....	861	6,663	64	7,588
San. dist. Maisonneuve.....	141	947	15	1,103
San. dist. St-Jacques.....	140	413	2	555
Total.....	1,285	8,369	82	9,736

I profit by this opportunity to thank the Bruchesi Institute, the Royal Edward Institute, the Sacré-Cœur Hospital, the Children's Memorial Hospital, the Grace Dart Home Hospital and all specialized institutions which, during 1940, have intimately collaborated with the Section of tuberculosis. My thanks also are extended to all physicians with whom the Health Department has enjoyed the most cordial relations. If they have helped the Health Department, the latter has tried to give them the same response.

Already the mortality percentage from tuberculosis shows a substantial decrease this year. This is only a beginning and inasmuch as the fight will be intensified, with a greater number of hospital beds for patients, it is possible to visualize the day when mortality by tuberculosis in Montreal may at last be compared favourably with other English and American cities.

Table No. 6 shows progress accomplished in the past twenty-five years or so in extra-pulmonary tuberculosis since detection has been intensified.

This Section has the ambition to advance further in this good direction. Supported by the specialized institutions, helped by the medical professional, it hopes to attain heights which have never yet been reached.

**Tuberculosis**  
**Deaths per 100,000 population**  
**Period 1915-1940**

Years	Popula- tion	Number of deaths			Rate per 100,000 population		
		Tuberculosis		Total	Tuberculosis		Total
		Pulmo- nary	Other forms		Pulmo- nary	Other forms	
1915 .....	516,000	829	233	1,062	160.7	45.1	205.8
1916 .....	528,980	863	174	1,037	163.1	32.9	196.0
1917 .....	537,970	879	210	1,089	163.4	39.0	202.4
1918 .....	579,440	1,021	212	1,233	176.0	36.6	212.6
1919 .....	593,440	927	211	1,138	156.2	35.6	191.8
Average....	551,260	904	208	1,112	164.0	39.9	203.9
1920 .....	607,470	919	185	1,104	151.3	30.4	181.7
1921 .....	618,506	741	179	920	119.8	28.9	148.7
1922 .....	637,600	761	179	940	119.3	28.1	147.4
1923 .....	655,700	813	167	980	124.0	25.5	149.5
1924 .....	674,300	807	171	978	119.6	25.4	145.0
Average....	638,715	808	177	985	126.5	26.1	152.6
1925 .....	693,500	805	131	936	116.2	18.8	135.0
1926 .....	713,200	796	158	954	111.6	22.2	133.8
1927 .....	733,460	763	123	886	104.0	16.8	120.8
1928 .....	754,300	801	137	938	106.2	18.2	124.4
1929 .....	775,800	823	190	1,013	106.1	24.5	130.6
Average....	734,052	798	148	946	108.7	20.1	128.8
1930 .....	796,800	806	177	983	101.2	22.2	123.4
1931 .....	818,577	766	121	887	93.6	14.7	108.8
1932 .....	833,000	722	112	834	86.7	13.4	100.1
1933 .....	847,000	670	141	811	79.1	16.7	95.8
1934 .....	855,000	600	113	713	70.2	13.2	83.4
Average....	830,075	713	133	846	85.9	16.0	101.9
1935 .....	863,000	546	101	647	63.3	11.7	75.0
1936 .....	875,000	627	119	746	71.7	13.6	85.3
1937 .....	885,000	615	111	726	69.5	12.5	82.0
1938 .....	893,000	585	83	668	65.5	9.3	74.8
1939 .....	900,000	542	89	631	60.2	9.9	70.1
Average....	883,200	583	101	684	66.0	11.4	77.4
1940 .....	907,000	510	71	581	56.2	7.8	64.0

## Mortality from Tuberculosis (other forms)

## Milk Pasteurized

## Period 1915 to 1940

Years	Population	Deaths	Rate per 100,000 of population	Milk supply	
				% tuber- culinized cows	% pas- teurized milk
1915.....	516,000	233	45.1	.....	30.86%
1916.....	528,980	174	32.9	.....	42.21%
1917.....	537,970	210	39.0	2.35%	44.70%
1918.....	579,910	212	36.6	1.48%	50.50%
1919.....	593,440	211	35.5	1.54%	56.15%
Average.....	551,260	208	39.9	1.79%	44.88%
1920.....	607,470	185	30.4	2.05%	60.00%
1921.....	618,506	179	28.9	2.06%	60.50%
1922.....	637,600	179	28.1	3.75%	60.70%
1923.....	655,700	167	25.5	5.03%	64.50%
1924.....	674,300	171	25.4	8.17%	67.17%
Average.....	638,715	177	26.1	4.21%	62.57%
1925.....	693,500	131	18.8	26.19%	68.10%
1926.....	713,200	158	22.2	63.90%	94.33%
1927.....	733,460	123	16.8	82.41%	95.51%
1928.....	754,300	137	18.2	94.94%	(1)
1929.....	775,800	190	24.5	85.06%	(1)
Average.....	734,052	148	20.1	70.50%	85.98%
1930.....	796,800	177	22.2	93.43%	(1)
1931.....	818,577	121	14.7	91.57%	(1)
1932.....	833,000	112	13.4	100.00%	(1)
1933.....	847,000	141	16.7	100.00%	95.60%
1934.....	855,000	113	13.2	100.00%	94.87%
Average.....	830,075	133	16.0	97.00%	.....
1935.....	863,000	101	11.7	100.00%	91.31%
1936.....	875,000	119	13.6	100.00%	94.59%
1937.....	885,000	111	12.5	100.00%	94.48%
1938.....	893,000	83	9.3	100.00%	94.39%
1939.....	900,000	89	9.9	100.00%	95.61%
Average.....	883,200	101	11.4	100.00%	94.88%
1940.....	907,000	71	7.8	100.00%	95.56%

(1) Figures not available from 1928 to 1932.

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## Division of Child Hygiene

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**Report of the  
DIVISION OF CHILD HYGIENE  
for the year 1940**

by

Dr. J. N. LAPORTE, D.P.H.  
superintendent

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The report of the work of the division of Child Hygiene for the year 1940 is divided into two principal parts:

**FIRST PART**

**Section I—MATERNAL, INFANT and PRESCHOOL  
HYGIENE:**

**I. Maternal hygiene:**

5 prenatal clinics.

**II. Infant hygiene (0-1 year) and preschool hygiene (1-6 years):**

- a) 47 Well-baby and preschool clinics;
- b) 2 Open-air clinics;
- c) Inspection of private boarding-houses for children and private hospitals and maternities;
- d) Child hygiene league.

**Section II—SCHOOL HYGIENE and MEDICAL INSPEC-  
TION OF SCHOOLS:**

- I. Medical examination of pupils;
- II. Hearing tests with audiometer;
- III. Mental hygiene and Binet-Simon tests;
- IV. Medical examination of teachers;
- V. Vacation schools;
- VI. Summer camps.

## SECOND PART

- I. Immunization against diphtheria;
- II. Vaccination against smallpox;
- III. Tuberculin tests;
- IV. Distribution of literature.

## THIRD PART

- I. Report of the dental hygiene section;
- II. Report of Maisonneuve District Health Centre.

## FIRST PART

I.—MATERNAL HYGIENE  
PRENATAL CLINICS

In the course of the year 1940 a new prenatal clinic was opened, Baril, making a total to date of five prenatal clinics.

The following table indicates the results obtained in 1940.

Table I

Number of	municipal clinics		5
	conferences		172
	prenatal cases registered	carried over cases	132
		new cases	309
	consultations with doctor		1,087
	blood pressures		1,009
	Wasserman's tests		18
	urinalysis		952
	notices to family physicians		31
Home visits	recruitment		379
	to registered mothers		310
	post-partum		137
	Total		826



The following table indicates the number of prenatal cases registered at "L'Assistance Maternelle" and in the prenatal clinics of Montreal's hospitals.

**Table II**

	Prenatal cases registered
"L'Assistance Maternelle".....	2,603
<b>Hospitals:</b>	
Notre-Dame.....	834
Ste-Jeanne-d'Arc.....	241
Ste-Justine.....	640
St-Luc.....	311
Catherine Booth.....	321
Homoeopathic.....	157
Jewish General.....	182
Royal Victoria.....	1,428
St. Mary's.....	354
	————— 4,468
	—————
Total.....	7,071

## Maternity Cases in Montreal

Table III

Number of births in 1940: 18,713

Rate per 1,000 population: 20.63

Number of beds and prenatal cases  
in Montreal's Hospitals.

1. Hospitals	Number of beds				Number of cases			
	Private	Semi-private	Public	Total	Private	Semi-private	Public	Total
Miséricorde.....	30	36	175	241	1,057	....	595	1,652
Notre-Dame.....	12	18	10	40	402	354	428	1,184
Ste-Jeanne-d'Arc.....	9	11	6	26	211	....	326	537
Ste-Justine.....	20	...	20	40	349	233	564	1,146
St-Luc.....	10	18	12	40	150	...	479	629
Catherine Booth.....	25	...	25	50	41	264	296	601
Homoeopathic.....	9	8	5	22	429	...	150	579
Jewish General.....	23	...	18	41	122	491	229	842
Royal Victoria.....	23	13	52	88	436	436	1,293	2,165
St. Mary's.....	9	6	10	25	180	480	403	1,063
Bethany House.....	...	...	12	12	...	...	17	17
L'Aide à la femme.....	...	...	15	15	...	...	65	65
<b>Private Hospitals</b>								
Beaulac.....	12	...	...	12	109	...	...	109
Dr. G.-E. Millette.....	10	...	...	10	8	...	...	8
Pinard.....	15	...	...	15	270	...	...	270
Ste-Anne.....	10	...	...	10	57	...	...	57
Ste-Marguerite.....	12	...	...	12	51	...	...	51
Ste-Thérèse.....	13	...	...	13	146	...	...	146
Mount-Royal.....	8	...	...	8	4	...	...	4
Mrs. L. Martel.....	3	...	...	3	15	...	...	15
Belvédère.....	5	...	...	5	72	...	...	72
Bellevue.....	10	...	...	10	50	...	...	50
Total.....	268	110	360	738	4,159	2,258	4,845	11,262
2. Home cases by private physicians.....	...	...	...	...	2,725	...	...	2,725
3. Number of indigent cases attended in the homes by private physicians and paid by:								
a) Unemployment Relief Commission.....	...	...	...	...	...	...	1,981	...
b) L'Assistance Maternelle.....	...	...	...	...	...	...	2,745	4,726
Grand total.....	268	110	360	738	6,884	2,258	9,571	18,713

**II.—INFANT HYGIENE (0-1 year)**  
**and PRESCHOOL HYGIENE (1-6 years)**  
**WELL-BABY AND PRESCHOOL CLINICS**

In the course of the year 1940, a new clinic was opened in Christ-Roi parish, making a total of 47 municipal well-baby clinics. Besides, 28 independent clinics of which 19 French directed by "La Fédération d'Hygiène Infantile" and 9 English directed by the "Child Welfare Association," continued operating in the city limits of Montreal. An annual subsidy of \$8,500.00 was granted to them by the City.

**Table IV**

**This table indicates the general results of the work  
done in the clinics during the year 1940**

	Health Department		Child Welfare Association		"Fédération d'Hygiène Infantile"		
	Infant	Pre-school	Infant	Pre-school	Infant	Pre-school	
Number of clinics.....	47	47	9	9	19	19	
Number of children registered..	9,361	11,012	2,973	1,505	5,071	4,832	
Number of deaths (0-1 year) among registered babies.....	29	....	9	....	13	....	
Percentage of deaths compared to the number of children registered.....	0.3	....	0.3	....	0.4	....	
Number of children attending clinics.....	54,656	26,616	6,591	6,856	70,242	18,079	
Average number of consultations per child.....	5.8	2.4	1.1	4.5	13.8	3.7	
Home visits	nurses.....	19,330	9,019	3,349	6,698	6,900	7,747
	assistant-nurses.....	....	....	....	....	18,658	18,929

## OPEN-AIR CLINICS

Two open-air Well-baby clinics were opened during the months of July and August; one in Lafontaine Park and the other in St. Helen's Island. A doctor was in attendance every day at the Lafontaine Park and on pic-nic days only at St. Helen's Island.

Table V

Camps open for a period of.....	2 months
Weighings.....	166
Dressings.....	387
Vaccinations.....	1,268
Revaccinations.....	28
Certificates.....	1,026
Examination of children entering school in September.....	24

## CHILD HYGIENE LEAGUE

Several groups of the Child Hygiene League were formed in 1940 by the personnel of the Division of Child Hygiene among young girls attending the following schools: Baril, Boucher-de-la-Bruère, Holy Cross, Madeleine-de-Verchères, Marie-Immaculée, Notre-Dame-de-la-Défense, Notre-Dame-des-Victoires, Notre-Dame-du-Très-St. Rosaire, St. Aloysius, St. Ambroise, Ste. Cécile, Ste. Clotilde, St. Edouard, St. Etienne, St. Gabriel-Lalemant, St. Jean-de-la-Croix, St. Marc, Ste. Marie, St. Nom-de-Jésus, St. Nom-de-Marie.

Another group has been organized by a nurse of the Child Welfare Association.

The number of groups organized in 1940 was 7 and the number of members 318.

### Inspection of Children's Boarding Houses and Private Hospitals and Maternities for the year 1940

The supervision of children's boarding-houses and private hospitals and maternities, has been carried out as indicated in the table which follows.

#### Table VI

#### Children's boarding-houses.

Number of	Boarding- houses	With license (of which 2 were cancelled during the year)		11
		Women's Directory		30
		Protestant Foster Home Centre (Children's Bureau)		64
		Catholic Welfare Bureau		23
		Institution ("L'aide à la femme")		1
		Without license (where there is only one child)		47
		Total		176
	Children	Registered	Legitimate	232
Illegitimate			605	
Total			837	
Deceased		Legitimate	...	
		Illegitimate	8	
		Total	8	

Table VI (Continued)

## Private hospitals and maternities.

Number of	Private Hospitals and Maternities—with license			12	
	Patients	Maternity cases	Married	500	
			Unmarried	414	
			Total	914	
		Medicine and surgery	1,228		
	Total			2,142	
	Births	Legitimate		423	
		Illegitimate		326	
		Total		749	
	Deaths	Babies	At full term	Legitimate	14
				Illegitimate	8
			Premature	Legitimate	6
				Illegitimate	5
Total			33		
Adults	Maternity and hospital cases		23		

## Work of the nurses.

	Number of	
	Visits	Investigations
a) Boarding houses	852	371
b) Private hospitals and maternities	541	566
Special	470	402
Total	1,863	1,339
Appearance in Court as witnesses		1

## SCHOOL HYGIENE AND MEDICAL INSPECTION OF SCHOOLS

### I.—MEDICAL EXAMINATION OF PUPILS

The work of "Medical Inspection of Schools," primary and Junior High, Catholic and Protestant, French and English, and in a certain number of independent or private schools, was accomplished in the course of the school year 1939-40 as is indicated in the following tables.

**Table VII**

**Number of schools, classes and pupils and average number  
of schools and pupils for each medical inspector and  
visiting nurse  
1939-1940**

		Catholic	Protes- tant	Independ- ent	Total
Number of	schools	222	48	27	297
	classes	3,620	841	169	4,630
	pupils	116,636	29,807	4,346	150,789
Average per				Schools	Pupils
	medical inspector			14.1	7,180.4
	school nurse			3.10	2,010.5

**Table VIII**  
**General Report**  
**1939-1940**

I—Work of Medical Inspectors:					
Number of			July and August (1)	School year	Total
	Visits to schools	Routine			2,753
Regular			5,356	5,356	
Total			8,109	8,109	
Exami- nations	Routine (2)			26,187	26,187
	Periodic-physical (3)		1,201	67,760	68,961 (4)
	Parents invited for the medical examination of their child in school			8,089	8,089
	Parents present for the medical examination of their child in school			4,017	4,017
	Parents present for the medical examination of their child in the Well-baby clinic		710		710
	Notices to parents		208	15,730	15,938
II—Work of School-nurses:					
Number of	Visits	to schools			30,037
		to homes			38,442
	Examinations			803,022 (5)	
Number of	Pupils	excluded as suspected cases of contagious diseases			1,660
		taken to dispensaries			230
	Interviews with parents in school			2,200	
	Various treatments			32,949	

- (1) This report indicates the total examinations made during July and August 1939 of all children who entered school for the first time at the beginning of September.
- (2) These examinations comprise the special cases referred or kept under observation.
- (3) The periodic physical examination consists of a complete physical examination of each pupil which is made at definite periods, that is every two or three years.
- (4) This total (68,961) shows that 45.73% of all pupils in the schools have received a complete physical examination.
- (5) This total shows that each pupil has been examined by a nurse on an average of 5.3 times during the school year for uncleanliness, pediculosis, skin diseases, etc.



Table IX

**Results of Physical and Routine Examinations  
1939-1940**

I—Periodic physical examination:				
	July and August	School-year	Total	% (1)
Number of pupils examined	1,201	67,760	68,961	
a) Normal	591	32,460	33,051	47.93
b) Sick or presenting one or several defects	610	35,300	35,910	52.07
Number of defects found:				
Vision	2	6,941	6,943	10.1
Eye disease	41	1,788	1,829	2.7
Hearing	3	632	635	0.9
Ear disease	9	1,127	1,136	1.6
Nasal obstruction	164	5,953	6,117	8.9
Tonsils	276	12,096	12,372	17.9
Lymphatic system	232	11,436	11,668	16.9
Goitre	3	245	248	0.4
Skin	11	2,280	2,291	3.3
Lungs	11	2,017	2,028	2.9
Heart	12	2,123	2,135	3.1
Digestive system	4	178	182	0.3
Genito-urinary system	16	417	433	0.6
Orthopedic	21	1,805	1,826	2.6
Nervous system	19	1,159	1,178	1.7
Mental condition	2	265	267	0.4
Malnutrition	242	8,674	8,916	12.9
Total number of defects	1,068	59,136	60,204	

(1) Percentage based on the number of children examined.

Table IX—(Continued)

## Results of Physical and Routine Examinations

1939-1940—(Continued)

II—Routine examination (during school year 1939-1940):			
Number of cases discovered among school children (at school or home):		Total	% (2)
a) Contagious diseases	1. Diphtheria	43	0.03
	2. Scarlet fever	991	0.66
	3. Measles	707	0.47
	4. Chicken-pox	2,102	1.39
	5. German measles	45	0.03
	6. Mumps	499	0.33
	7. Whooping cough	955	0.63
b) Parasitic diseases	1. Pediculosis	7,983	5.29
	2. Scabies	335	0.22
c) Various skin diseases		6,590	4.37
d) Uncleanliness		3,662	2.43

(2) Percentage based on the number of pupils attending school.

**CONTROL EXAMINATION AND CORRECTION OF  
PHYSICAL DEFECTS**

**School year 1939-1940**

The control examination or re-examination is made by the medical inspectors and the nurses to discover among the pupils who were given a "Notice to parents" (form No. 13), those whose defects were corrected.

This re-examination is made by the nurses each month, and those treated are shown to the medical inspector who examines the degree of correction of the defects. At the end of the school year a general re-examination is made in order to estimate the complete results obtained in the course of the school year.

Those pupils who had a notice No. 13 undergo re-examinations if the notice was not annulled by the correction of the indicated defects, or if the pupils had not in turn undergone a new periodic physical examination.

The results of these re-examinations, showing the correction of physical defects obtained in the course of the school year 1939-1940, are to be found in table X which follows.

Table X

Table showing the number of corrections of physical defects obtained and established by re-examinations made in the course of the school year 1939-1940

I — Number of pupils treated and cured.....	9,623
II — Number of pupils under treatment.....	2,374
III — Physical defects corrected:	
Vision.....	3,395
Eye disease.....	358
Hearing.....	198
Ear disease.....	252
Nasal obstruction.....	2,242
Tonsils.....	3,289
Lymphatic system.....	2,049
Goitre.....	46
Skin.....	344
Lungs.....	358
Heart.....	230
Digestive system.....	32
Orthopedic.....	61
Genito-urinary system.....	100
Nervous system.....	169
Malnutrition.....	1,485
Total.....	14,608
Teeth.....	*5,078

IV — Number of special corrections:

Enlarged tonsils (operations).....	2,392
Adenoids (operations).....	1,692
Defective vision (glasses).....	2,850

\*The figure 5,078 represents only the number of children who, after receiving a notice at the medical examination, were treated by their dentist or in a clinic.

We must add that 17,198 children were treated in municipal clinics in 1940.

**II—HEARING TEST**  
**BY MEANS OF**  
**THE AUDIOMETER No. 4-A**  
**1939-1940**

Two audiometers are used and placed in charge of two nurses specially trained to make the examination of hearing of pupils in the schools.

This inspection is made among the pupils of the 2nd and 3rd grades, seeing that it is important to ascertain the state of hearing of these pupils at the beginning of their school career.

The results of the hearing examination by means of the audiometer for the school year 1939-1940 are shown in the table XI which follows.

Table XI

## Hearing tests by means of audiometer No. 4-A

		Catholic	Protes- tant	Total	
Number of	Schools visited	62	12	74	
	Pupils	examined	10,824	3,828	14,652
		a) normal	10,223	3,679	13,902
		b) defective	601	149	750

## CLASSIFICATION OF DEFECTS

Number of defective pupils	with both ears	122	32	154
	with right ear only	263	56	319
	with left ear only	238	61	299

## OTHER NOTED DETAILS

Number of pupils who had	running ears	2,201	520	2,721
	previous abscesses	295	139	434
	been previously operated upon	502	189	691

## III—MENTAL HYGIENE SECTION

The following table shows the results of the work done by four psychiatrists and four psychologist-nurses in the schools for the school year 1939-1940, and at the Laurier clinic during 1940.

**Table XII**  
**Report of the psychometric tests**

		In schools Year 1939-1940	Laurier Clinic 1940	
Number of schools visited		83		
Number of pupils	examined	3,177	264	
	normal	a) I.Q. 90-110	478	6
		b) I.Q. 80-90 slow-minded	731	7
		Total	1,209	13
	abnormal	a) unsteady	16	22
		b) backward	95	110
		c) unsteady and backward	1,857	119
		Total	1,968	251

**Classification of backward cases**

Backward cases	Total		1,952	229	Recom- mendations
	1. Borderline		1,003	44	Auxiliary classes
	2. Mental debility	superior	740	61	
		inferior	170	76	Technical teaching (sensorial)
	3. Feeble minded		39	37	
4. Idiocy			11	Baie St-Paul Asylum	
Number of visits and investiga- tions by the psychologist- nurses		to schools		67	
		to homes	149	156	

**Children placed in the special schools**

Emmélie-Tavernier school (St-Jean-de-Dieu Hospital)	102
Victor-Doré school	2
Public schools (auxiliary classes)	57
Referred to the dispensaries	58
Baie St-Paul Asylum	4

#### IV—MEDICAL EXAMINATION OF TEACHERS

During the school year 1939-1940, the lay teachers and employees (janitors and others) connected with the Catholic School Commission, were submitted to a periodic medical examination, conforming to an agreement on this subject between the Catholic School Commission and the Department of Health. Also submitted to this periodic medical examination were the religious teachers—"Clerics St. Viator" of the following schools: François de Laval, Hippolyte Lafontaine, Jean Talon, Philippe Aubert de Gaspé, St. Jean Baptiste, St. Jean de la Croix, St. Louis, St. Nicolas and St. Viateur High School.

The Division of Child Hygiene, the staff of which was charged with this work, expresses its gratitude to the religious personnel of the above mentioned schools, to all the principals, lay teachers and employees of the Catholic schools who have undergone this examination.

The number of lay teachers and employees (janitors, etc.) including religious, who were examined during the course of the school year 1939-40, was 2,301, of whom 341 were examined by their family physicians and 1,960 by the school medical inspectors.

The results of the observations obtained are indicated in the table as follows: (1) in the column "First examination," form No. 95, are the results of the examination of new employees, and, (2) in the column "Annual," form No. 96, are the results of the examination of those who, having undergone the first examination the previous year, were submitted to the annual examination according to form No. 96.



TABLE XIII

**Medical examination of teachers and employees of the  
Catholic School Commission**

**School year 1939-40**

		"First" Form No. 95	"Annual" Form No. 96	Total
<b>Personnel examined</b>	Principals, directors and ass'ts.	2	109	111
	Special professors	2	30	32
	Male teachers	71	929	1,000
	Female teachers	26	896	922
	Janitors and other employees	27	209	236
	<b>Total</b>	<b>128</b>	<b>2,173</b>	<b>2,301</b>
<b>Examined by</b>	school medical inspectors	110	1,850	1,960
	family physicians	18	323	341
	<b>Total</b>	<b>128</b>	<b>2,173</b>	<b>2,301</b>

Table XIII—(Continued)

Control of vaccination against smallpox:				"First" Form No. 95	"Annual" Form No. 96	Total
Number of employees	non-vaccinated			3	112	115
	vaccinated within	more than	25 years	15	948	963
			15 years	52	820	872
			7 years	46	224	270
		less than 7 years	12	69	81	
Defects	Lungs (other than tuberculosis)			1	43	44
	Heart			2	108	110
	Liver			3	20	23
	Digestive system			7	125	132
	TEETH:—caries			30	244	274
	pyorrhoea			4	58	62
	VISUAL ACUITY:—					
	with glasses			11	135	146
	without glasses			6	119	125
	equivocal answers			16	230	246
	HEARING ACUITY:—					
	equivocal answers			2	48	50
			3	26	29	
Nervous system			4	30	34	
KIDNEYS:—urinalysis:						
a) albumen			8	59	67	
b) sugar				33	33	
TUBERCULOSIS:—(history, personal or family)				13	13	
Employees deceased						12

The notes which show the defects encountered are based on the answers of the personnel to the questions submitted and on the physical examination made by the physicians. He satisfies himself with the discovery that an organ is not normal and he does not endeavour to make a precise diagnosis of an existing disease. He makes no comment nor does he draw any conclusion or suggest any recommendation, except when he is concerned with one of the contagious diseases included in the group of those which are governed by provincial by-laws.

Following the agreement made, the School Commission alone decides the measures to be taken in each separate case, after receiving advice from the proper medical advisers.

It is necessary to remark that the note written "tuberculosis" does not only indicate that such a number of professors thus concerned are suffering from tuberculosis at present or have lately suffered from this disease, but the figures really indicate all those who have had a past history, personal or family, immediate or far removed, of the disease. Those cases are all given in order to draw special attention to them so that when they have an opportunity they will not delay adopting necessary measures.

#### V—VACATION SCHOOLS

During the months of July and August 1940, for a period of six weeks, an organization called "Vacation Schools" opened in five Protestant schools, a certain number of classes where children received special training such as manual training, singing, etc.

Three doctors and four nurses of the Division of Child Hygiene have been put in charge of the medical examination of these classes and they have also made visits to the homes of children suffering from any physical defect. The purpose of this examination is to control any contagious disease.

**Table XIV**

Number of schools visited.....	5
Number of routine examinations.....	225
Number of children examined.....	63
Number of children unvaccinated.....	85

## VI—SUMMER CAMPS

In the latter part of the month of June and during July and August, the medical inspectors and nurses of the Division of Child Hygiene made a medical examination of 2,695 children before departure for various summer camps.

The medical examination consists particularly in detecting contagious diseases, skin diseases, parasites, etc., and in eliminating all suspected cases. Each child must show evidence of successful vaccination, if not is refused permission to depart for camp.

Height and weight calculations are taken for each child and recorded on the admission card. This information will allow the different organizations to note the good effects on these children, following their stay in the country.

The number of children examined for the different summer camps is as follows:

Table XV

Summer Camps	Children examined
1. "Les Grèves" (boys).....	1,627
2. "Le Grillon" (boys and girls).....	280
3. "Jeanne-d'Arc" (girls).....	391
4. "Association des Guides" (boys and girls) Scouts	397
Total.....	<hr/> 2,695

## SECOND PART

**I. IMMUNIZATION AGAINST DIPHTHERIA  
in the schools and in the municipal Well-baby clinics  
1928-1940**

During the year 1940, immunization against diphtheria was successfully continued in the municipal preschool and well-baby clinics and in the schools.

It should be noted that 10,705 children received their first dose of Anatoxin-Ramon (toxoid) in 1940 and, of this number, on December 31st, 9,871 had received two doses and 8,425 had received the three doses; this number will be completed in the course of the first six months of the year 1941.

Table XVI

**Showing the general results of diphtheria immunization  
in the municipal clinics and in the schools by the  
personnel of the division of Child Hygiene, from  
September 1928 to December 31st, 1940**

		1928-1939	(1) 1939	(2) 1940 (Dec. 31st)	Total
I—Anterior Schicks		27,200	51	53	27,304
II— Number of children	registered for immunization	143,685	10,557	10,705	164,947
	1—received 3 doses	135,494	10,112	8,425	154,031
	2—received only 2 doses	4,183	191	1,446	5,820
	3—received only 1 dose	4,008	254	834	5,096
III—Posterior Schicks		28,816			28,816
IV—Supplementary injections (4th dose)		172			172

- (1) The number of those who received the three injections was completed during the year 1940.  
 (2) The number of those who received the three injections will be completed during the year 1941.

**Note.**—On May 3rd, 1941, the number of children registered for immunization in 1940 and who received the three doses of Anatoxin-Ramon (toxoid) is **10,032**.

## II. VACCINATION AGAINST SMALLPOX

The following table indicates the number of vaccinations given by the medical inspectors during 1940 in the municipal Well-baby clinics and at Lafontaine Park.

Table XVII

	Well-baby clinics	Lafontaine Park	Total
Number of vaccinations.....	10,085	1,621	11,706
Number of revaccinations.....	385	31	416
Number of certificates "A".....	6,623	1,405	10,028
Number of certificates "B".....	25	....	25
Number of certificates "C".....	297	7	304
Number of those who did not come back for their certificate.....	1,140	209	1,349

## III. TUBERCULIN TESTING

Detection of tuberculosis among children by tuberculin test was continued in Well-baby clinics. In 1940 we abandoned the Mantoux test and adopted the Volmer patch test. This new method, easier in its application, is well accepted by the public.

On December 31st, 1940, this test was made in forty-six municipal clinics, it was also made in a certain number of schools.

The Child Hygiene Division, in co-operation with the Tuberculosis Section, holds propaganda meetings in different schools and parishes of the city. These meetings will be continued in 1941. Large numbers of interested people attend these meetings.

## Table XVIII

## Tuberculin Testing

Number of conferences.....	1,713
Number of tuberculin tests.....	9,216
Number of positive reactions.....	1,142
Number of negative reactions.....	8,014
Number of cases who did not return for reading..	79

## IV. DISTRIBUTION OF LITERATURE

A certain number of publications, circulars and posters, a list of which is published in the Section of Public Health instruction, have been distributed by the Division of Child Hygiene.

**Scholarships**

A scholarship at the School of Hygiene, University of Toronto, Ontario, granted by the city of Montreal to assure the efficiency of the Department of Health, has been awarded to a medical inspector of the Division of Child Hygiene, Dr. E. Chabot.

Two scholarships at the Applied Social Hygiene School, University of Montreal, were granted by the city of Montreal in 1940 to two nurses, Miss Thérèse Cardin, district supervisor-nurse, and Miss F. Guyon, school-nurse.

During the course of the year 1940, the doctors and nurses gave their efficient aid to the divisions of Contagious Diseases and Medical Control.

I am pleased to stress the fine spirit which reigned among the members of the personnel. Allow me to felicitate and thank them for the devotion which they showed in the accomplishment of their duties.

**Division of Child Hygiene****Report of the  
SECTION OF DENTAL HYGIENE  
for the year 1940**

by

**Doctor R. R. LALONDE, L.D.S.**  
chief of the section

The activities of the section of dental hygiene consist of:

- I. Dental inspection in the schools;
- II. Municipal dental clinics;
- III. The orthodontia clinic.

The personnel consists of a chief in charge of the dental section; of six dentists, whose duties are operative work in the clinics and dental inspection of pupils in the schools at certain hours; of a specialist in orthodontia, who is engaged at half-time work. They are assisted in their work by nurses and assistants to nurses.

**I. DENTAL INSPECTION IN THE SCHOOLS**

During the year 1939-40, an English speaking dentist examined and lectured pupils of the Protestant and English-speaking Catholic schools. Some of the lectures were illustrated with motion picture projections.

The following table indicates the results of the dental inspection in the schools of the Protestant Board, of the Catholic School Commission and of schools of independent classification. The dental inspection shows that the percentage of pupils suffering from dental caries was 76.04%.



**Table XIX**

Schools visited.....	89
Pupils registered in these schools.....	38,721
Visits to these schools.....	350
Conferences given to the pupils.....	327
Pupils present at the conferences.....	10,539

**Examinations**

Pupils examined.....	11,584
Pupils having a dental defect requiring treatment:	
(a) caries.....	8,800
(b) prophylaxis.....	8,348
Notices to parents.....	896

Since the month of October 1940, the Department of Health has recommenced examination of pupils and lecturing to pupils, in the schools of the Catholic School Commission.

The programme of visits to the schools is prepared in advance by the chief of the section of Dental Hygiene.

The dentist in charge of a district of the Municipal Dental Clinic visits a school, notes the dental defects and gives a lecture on the treatment and care that the pupils should receive, and if necessary, he gives to each pupil a notice to be remitted to the parents.

**II. THE MUNICIPAL DENTAL CLINICS**

The number of dental clinics is five. The work done at the municipal dental clinics consists of prophylaxis, the extraction and filling of teeth. Only indigent or under-privileged children of pre-school or school age are treated. This year when the child is examined at the clinic, the parent who is present at the examination, is given the proper advice as to condition and care of the teeth. This has resulted in more co-operation and has given better results.

Table XX

## Report of the Municipal dental clinics

Number of children treated.....	17,198
Treatments: extraction.....	9,964
prophylaxis.....	6,000
filling.....	2,409
others.....	4,103
Total.....	<u>22,336</u>
Number of teeth extracted.....	30,763
Number of teeth filled.....	1,972
Number of cases completed.....	650

It should be noted that the "Red Cross" and the "Junior League," which sponsors the dental clinic of the "Griffintown Club," in collaboration with the Department of Health, have treated dentally pupils of a number of schools of the Protestant Board and that a French-speaking dentist of the "Red Cross" has cared for several pupils of the French-Catholic schools of Montreal.

## III. ORTHODONTIA CLINIC

An important improvement to be noted is the organization of an orthodontic dental clinic. The Director of the Department of Health and the administrators of the city wishing to see a development of Hygiene in Montreal have established this clinic. Due to an understanding between the dental faculty of the University of Montreal and the Director of the Department of Health, this clinic was opened at the school of Dentistry, which is situated at 1570 St. Hubert St., on February 12th, 1940. The clinic is

under the direction of Dr. Paul Geoffrion, professor of Orthodontia in the Faculty of Dentistry, who was engaged on a part time basis by the city, as the chief of this clinic. He is assisted in his work by a technician in Orthodontia.

The object of this clinic is to aid parents, who cannot afford the cost of the treatment of their children, who are suffering from malocclusion or any other facial deformities and also to prevent the development of these defects, before it is too late. After several months of operation, 110 children wearing orthodontia appliances are visiting the orthodontia clinic, many will have to attend at least three years. The demand of applicants for treatment is so great that we have, in our registers, appointments for September 1942.

### Table XXI

#### Report showing the work done at the Orthodontia clinic for the year 1940

Number of children undergoing treatment.....	110
Photographs (anthropometric).....	96
Radiographs.....	460
Ablation of the frenum.....	2
Impressions.....	170
Diagnoses and plans.....	200
Putting on appliances.....	112
Adjustments.....	404
Other treatments.....	6,971
Total number of treatments.....	8,421

## Child Hygiene Division

**Report of**  
**MAISONNEUVE DISTRICT HEALTH CENTRE**  
**for the year 1940**

by

Doctor J. A. LANDREVILLE, M.P.H.  
 district health officer

The Maisonneuve district was organized during the year 1939. We submit for the year 1940, the annual report of that sanitary district, the first of its kind to be established in Montreal.

The estimated population at July 1st, 1940, is 102,100. That district represents 11.25% of the Montreal population, and 10.10% of reported cases of communicable diseases. The district area is equal to 21% of the total area of the whole city.

**Table I**

The statistics of births and deaths in this district for 1940 show the following facts:

1940	Maisonneuve District	Whole City	Maisonneuve 1939
Number of births.....	2,321	18,713	2,087
Birth rate per 1,000 population.....	22.93	20.63	20.6
Number of deaths.....	908	9,296	924
General mortality rate per 1,000 pop.	9.97	10.24	9.13
Maternal mortality (per 1,000 births)	3.45	3.74	1.44
Infant mortality (per 1,000 live- births).....	51.70	59.32	76.66
Mortality from first age diseases (0-1 year).....	18.96	24.64	30.66
Mortality from diarrhoea (0-2 years).	12.84	14.11	11.55
Mortality from tuberc. per 100,000 population:			
(a) pulmonary.....	71.11	56.23	76.17
(b) other forms.....	9.87	7.83	12.84
Total.....	80.98	64.06	79.91

Table II

The number of deaths for certain age groups is indicated thus:

Age group	Deaths	Percentage		
		1940		1939
		District	Whole City	District
0- 1 year.....	120	11.9	12.2	17.2
1- 4 years.....	20	2.6	2.5	3.8
5-14 years.....	26	2.6	1.7	3.0

Table III

In the following table are shown deaths from certain causes in the four wards of the sanitary district, as well as the rates per 100,000 of population for each malady, for 1940.

Causes	Wards				Total	Rate per 100,000 population		Rate for the City 1940
	Hoche-laga	Prefon-taine	Maison-neuve	Mer-cier		1939	1940	
Typhoid.....	1	1	..	..	2	1.97	1.96	1.65
Measles.....	..	..	..	1	1	5.92	0.98	0.22
Scarlet-fever.....	..	..	1	..	1	..	0.98	0.88
Whooping-cough.....	1	3	1	2	7	4.95	6.86	7.94
Diphtheria.....	1	..	..	1	2	1.97	1.96	1.21
Pulmonary T.B.....	19	17	25	11	72	67.17	71.11	56.23
T.B. (other forms).....	2	4	..	4	10	12.84	9.87	7.83
Enteritis (0 to 2 years).....	1	4	6	2	13	23.71	12.75	14.11
Puerperal septicaemia.....	1	1	5	1	8	2.96	7.84	7.72
First age diseases.....	9	12	15	8	44	63.22	43.13	50.82
Total.....	35	42	53	30	160	184.71	156.86	148.62
Other forms.....	213	139	269	127	748	727.97	733.34	876.26
Grand total.....	248	181	322	157	908	912.68	890.20	1024.88

The preceding table explaining the principal causes of deaths in the Maisonneuve district shows the following facts:

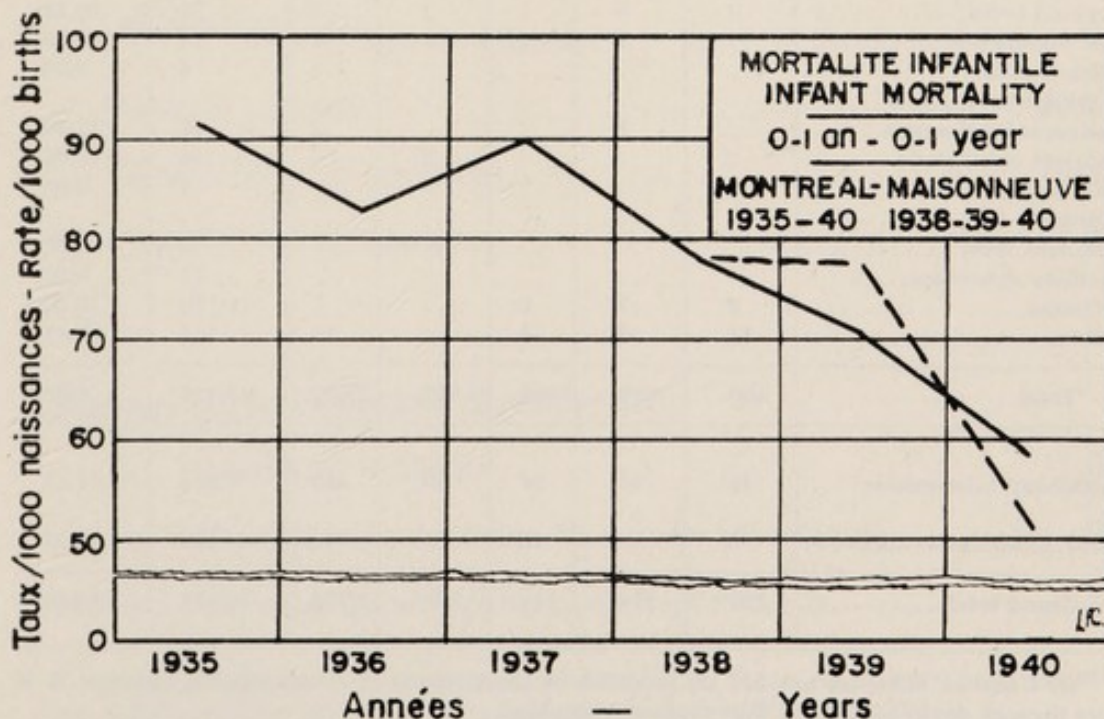
There is no very apparent decrease in the mortality by tuberculosis: 79.91 per 100,000 in 1939, and 80.98 in 1940.

The death rate from measles is greatly decreased: from 5.92 per 100,000 in 1939, it is now 0.98 in 1940. On the other hand, the death rate from whooping-cough is increased: from 4.95 in 1939 to 6.86 in 1940; still it is slightly lower than the general death rate of the whole city.

The death rate from diphtheria: 1.97 per 100,000 persons is quite the same; yet it is slightly higher than the Montreal death rate which is 1.21.

It is particularly interesting to realize a decrease in infantile mortality. From 76.66 per 1,000 births in 1939, the death rate for babies (0-1 year) is 51.70 in 1940; which decrease is equivalent to 32%; the whole city having a death rate of 59.32.

The death rate from the early age diseases per 100,000, decreased from 63.32 in 1939 to 43.13 in 1940. The general death rate for the city being 50.82. The death rate from gastro-enteritis (0-2 years) from 23.71 in 1939 per 100,000 has fallen down to 12.75 in 1940, which shows a decrease of 45%; Montreal having a general death rate of 14.11.



The continuous line of the preceding graph shows the rate of infant mortality in Montreal since the year 1935. The dotted line indicates the rate of the Maisonneuve district since the year 1938. From 1939 to 1940 that mortality has registered a decrease of 32%, which is figured at 76.66 for 1,000 births in 1939 and 51.70 in 1940. The general infant death rate of the whole city of Montreal being 59.32.

### Control of contagious diseases

The following table shows the number of cases of contagious diseases reported in 1940 per ward, for the Maisonneuve District and for the whole city.

Table IV

Diseases	Reported cases					Total for City	% of cases in the district
	Hoche-laga	Maison-neuve	Mer-cier	Prefon-taine	Total		
Diphtheria.....	5	3	5	..	13	134	9.70
Scarlet-fever.....	38	70	48	61	217	2,135	10.16
Measles.....	23	14	5	9	51	1,483	3.44
German measles.....	..	1	6	2	9	125	7.20
Whooping-cough.....	105	159	180	167	611	4,912	12.44
Mumps.....	3	6	2	20	31	943	3.29
Chicken-pox.....	81	236	137	60	514	5,165	9.25
Small-pox.....	..	..	..	..	..	..	..
Erysipelas.....	4	3	4	3	14	117	11.96
Typhoid fever.....	3	3	1	1	8	79	10.12
C.S. Meningitis.....	..	1	1	..	2	25	8.00
Poliomyelitis.....	..	..	..	..	..	5	0.00
Lethargic encephalitis.....	..	..	..	..	..	..	..
Puerperal septicaemia.....	..	2	..	..	2	17	11.76
Purulent ophthalmia.....	4	..	..	2	6	34	17.64
Amoebic dysentery.....	..	..	..	..	..	4	0.00
Leprosy.....	..	..	..	..	..	..	..
Undulant fever.....	..	..	..	..	..	1	0.00
Bacillary dysentery.....	..	..	..	..	..	11	0.00
Influenza.....	2	3	2	..	7	(1) 70	10.00
Scabies.....	12	28	6	..	46	165	27.87
<b>Total.....</b>	<b>280</b>	<b>529</b>	<b>397</b>	<b>325</b>	<b>1,531</b>	<b>15,424</b>	<b>9.92</b>
Pulmonary tuberculosis.....	44	45	27	40	156	1,335	11.67
Tuberculosis (other forms) ..	5	..	10	3	18	118	15.25
<b>Grand total.....</b>	<b>329</b>	<b>574</b>	<b>434</b>	<b>368</b>	<b>1,705</b>	<b>16,877</b>	<b>10.10</b>

(1) Cases of influenza are not all reported to the Division of communicable diseases; it is more through death certificates that they are computed.

**Brief summary of work concerning the prevention and  
the control of contagious diseases**

**Table V**

Cases reported.....	1,705
Number of deaths.....	114
Cases hospitalized.....	274
Home visits by physicians.....	575
Home visits by nurses.....	1,464

**Tuberculosis section:**

Number of tuberculin tests.....	1,180
Positive cases.....	151
Percentage.....	12.96

**Campaign against tuberculosis:**

Propaganda	{	(a) in parishes.....	12
gatherings		(b) in schools.....	45
Persons present.....			26,624
Distribution of circulars.....			19,849
Distribution of posters.....			630

**Immunization against diphtheria:**

(a) Registered children.....	1,606
(b) Children who received the three injections.....	(1) 991
Number of vaccinations against small-pox.....	1,321

(1) The number of those who received the three injections on December 31st, 1940, will be increased and completed during the year 1941.



## Summary of work carried out in clinics and in schools

### I — Maternal hygiene:

There are in the district two maternal clinics: Baril and Maisonneuve. The work done is indicated as follows:

**Table VI**

Number of (a) registered mothers.....	129
(b) consultations given.....	389
(c) home visits by nurses.....	98

Since October 1940, the B.W. blood tests are made to the Maisonneuve clinic.

### II — Well-baby and preschool clinics:

The Maisonneuve district includes eleven well-baby and preschool clinics of which seven depend on the department of Health; three are directed by "La fédération d'hygiène infantile" and one by the "Child Welfare Association."

The following table indicates the general results of the work accomplished in clinics during the year 1940.

**Table VII**

	Department of Health		Child Welfare Association		Federation d'hygiène infantile		Total	
	0-1 yr.	1-6 yrs.	0-1 yr.	1-6 yrs.	0-1 yr.	1-6 yrs.	0-1 yr.	1-6 yrs.
Children registered.	1,197	1,312	392	216	715	639	2,304	2,167
Consultations given	7,685	3,706	862	993	8,733	2,068	17,280	6,767
Home visits by nurses.....	2,880	1,251	331	857	1,056	1,480	4,267	3,588
Home visits by aids	...	...	...	...	1,869	2,884	1,869	2,884

The inspection of children's boarding houses carried out by the Child Hygiene division required 90 visits. In this district there are more than 20 "Foster Homes" under the supervision of the "Health department" and the "Federated charities."

### Child Hygiene League:

A group of the Child Hygiene League was formed during June and July 1940, among young girls attending the following schools: Baril, Boucher-de-la-Bruere, Notre-Dame des Victoires, Ste. Marie, St. Nom de Jesus and St. Nom de Marie. The number of members qualified for examinations was 62.

### III — Medical Inspection of schools:

The work of medical inspection of schools during the school year 1939-1940 is briefly indicated in the following table:

Table VIII

	Catholic	Protestant	Independent	Total	%
Number of schools	30	6	3	39	
Number of pupils	17,316	1,784	630	19,730	
<b>1. Periodic physical examinations:</b>					
Number of pupils examined by medical inspectors . . . . .				8,650	43.8
Pupils presenting one or several defects . . . . .				4,761	55.04
<b>Some physical defects found:</b>					
Vision . . . . .				1,072	12.39
Nasal obstruction . . . . .				1,110	12.83
Tonsils . . . . .				1,607	18.58
Lymphatic system . . . . .				1,372	15.84
Malnutrition . . . . .				1,621	18.70
Pupils with defects treated or under treatment . . . . .				1,532	
<b>Some physical defects corrected:</b>					
Vision . . . . .				509	
Nasal obstruction . . . . .				321	
Tonsils . . . . .				504	
Lymphatic system . . . . .				313	
Malnutrition . . . . .				144	
<b>2. Routine examinations:</b>					
(a) by medical inspectors . . . . .				2,270	
(b) by nurses . . . . .				114,299 (1)	
<b>3. Minor treatments . . . . .</b>					
				2,742	
<b>4. Psychometric tests (Binet-Simon) . . . . .</b>					
				791	
<b>5. Hearing tests by means of audiometer No. 4A . . . . .</b>					
Number of defective pupils . . . . .				571	
				47	
<b>6. Number of male and female teachers examined . . . . .</b>					
				259	
<b>7. Home visits by nurses . . . . .</b>					
				5,524	
<b>IV — Dental Hygiene:</b>					
Number of pupils examined by dentist in schools . . . . .				481	
Number of pupils with dental defects . . . . .				409	
<b>Dental Clinic: Number of pupils treated . . . . .</b>				5,329	

(1) This total shows that each pupil has been examined by a nurse on an average of 5.3 times during the school year for uncleanliness, pediculosis, skin disease, etc.

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## **Division of Sanitation**

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**Report of the  
DIVISION OF SANITATION**

**for the year 1940**

by

Mr. AIMÉ COUSINEAU, C.E.,  
Superintendent and Sanitary Engineer

The statistics of the operations of the Division of Sanitation for the year 1940 have been summarized in this report under the following classification:

- I.—Examination of plans and specifications of new or modified buildings.
- II.—Sanitary records of dwellings.
- III.—Sanitary inspection including:
  - (a) investigation of complaints;
  - (b) regular inspections of various industrial, commercial and educational establishments, institutions, night refuges, theatres, movies, public halls, garages, public lavatories, etc.;
  - (c) inspection of lanes, yards, vacant lots, sheds, stables, etc.;
  - (d) inspection of privies, cesspools, etc.;
  - (e) investigation of flood claims;
  - (f) control of quality of water (collection of samples).
- IV.—Plumbing and drainage in new or modified buildings.
- V.—The work of the Board of Examiners of Plumbers.
- VI.—License-permits of various categories.
- VII.—Notifications and prosecutions.

VIII.—Inspections relating to the enforcement of the following special by-laws:—

- (a) By-law No. 1006: concerning barber-shops, hairdressing parlors, etc.;
- (b) By-law No. 1009: concerning laundries;
- (c) By-law No. 1089: concerning mattresses and other stuffed articles of bedding, etc.;
- (d) By-law No. 1203: concerning the water supply of establishments located in the City of Montreal;
- (e) By-law No. 1252: concerning public baths and bathing;
- (f) By-law No. 1267: concerning dry cleaning establishments (ventilation tests);
- (g) By-law No. 1275: concerning the use of fumigants for the destruction or control of vermin;
- (h) By-law No. 1341: concerning plumbing;
- (i) By-law No. 1573: concerning massage establishments and masseurs;
- (j) By-law No. 1622: concerning noxious weeds;
- (k) By-law No. 1631: concerning funeral directors and embalmers.

IX.—Supervision of the Inspectors' work.

— I —

EXAMINATION OF PLANS AND APPLICATION  
FOR PERMITS

(a) New constructions.....	1,255
(b) Modified constructions.....	2,143
(c) Plumbing.....	2,293
	5,691

— II —

SANITARY RECORDS OF DWELLINGS

The work carried on, from year to year since 1921, has given the following results at the end of 1940:—

	Re-survey (1940)	Survey and re-survey (1921-1940)
(a) <b>Inspections</b> .....	15,566	378,456
(b) <b>Findings:</b>		
1.—Occupied dark rooms.....	58	11,032
2.—Unoccupied dark rooms.....	3	1,893
3.—Insanitary dwellings (inhabited cellars, etc.).....	18	1,333
4.—Overcrowded.....	14	14
(c) <b>Notifications:</b>		
1.—Dark rooms.....	58	5,552
2.—Insanitary dwellings (inhabited cellars, etc.).....	18	1,288
(d) <b>Execution:</b>		
1.—Corrected dark rooms.....	—	7,721
2.—Placarded dark rooms.....	—	4,158
3.—Insanitary dwellings (inhabited cellars, etc.) vacated.....	15	553

(a) The number 378,456 includes 141,877 dwellings visited during the period 1921-1929, and 236,579 during the period 1930-1940.

(b) This inspection has allowed us to locate dwellings containing rooms not lighted directly from the outside; 11,032 such rooms have been recorded of which 7,721 have been corrected at the end of 1940.—4,158 rooms have, moreover, been placarded. Due to the numerous corrections made in previous years, we found less defects in existing buildings and seldom in dwellings built since 1921.

(c) The building and plumbing defects found and the cases of uncleanliness are included in table No. III (b).

## — III —

## SANITARY INSPECTIONS

## (a) Investigation of complaints:

Total number.....	8,778
Founded.....	5,634
Unfounded.....	3,144

The measures ordered and executed after investigation have been classified as follows:—

Plumbing and drainage.....	1,357
Structural insalubrity (owners).....	628
Insalubrity of dwellings (tenants).....	1,421
Insalubrity of yards and out-houses (tenants).....	2,228

Total number of complaints founded.....	5,634
Water leakage.....	1,760

## (b) Routine inspections:

The following table gives the total number of inspections in each class of buildings and the defects found therein:

	Inspections (a)	Defects (b)	Unclean
Dwellings.....	30,413	3,394	667
Boarding houses for children, clinics, hospitals (c)	9	.....	.....
Public buildings, stores and other establishments.	4,880	188	111
Theatres, movies, public halls, etc.....	493	11	49
Industrial establishments.....	977	28	109
Educational establishments (d).....	251	1	9
Laundries (By-law 1009).....	1,013	60	73
Barber-shops, hairdressing parlors, etc. (By-law 1006).....	1,718	27	129
Establishments: Manufacturing of mattresses, filling materials, etc. (By-law 1089).....	106	3	.....
Public baths (By-law 1252).....	570	.....	.....
Fumigation (By-law 1275).....	950	.....	.....
Massage establishments (By-law 1573).....	267	.....	.....
Funeral directors' establishments (By-law 1631).	103	.....	.....

(a) These figures include the number of dwellings visited in 1940, exclusive of second visits. 15,566 records of dwellings have been filled, revised and indexed.

(b) In many places defects were found after a smoke test or an oil-of-mint test, which was necessary in 126 cases.

(c) The supervision of this work is under the jurisdiction of the Division of Child Hygiene, with which we co-operate.

(d) General inspections of all schools are made in the course of the school year. The medical inspection of schools has been placed under the direction of the Division of Child Hygiene.



**(c) Inspection of yards, lanes, cellars and out-houses:**

This work can be summarized as follows:

	Inspections
Lanes.....	6,532
Yards.....	11,386
Vacant lots.....	1,055
Sheds.....	20,216
Manure boxes (nuisance).....	38
Stables.....	232
Noxious weeds (By-law 1622).....	11,885

**(d) Privy vaults and cesspools:**

At the end of 1940 there were 595 privy vaults and cesspools in the city of Montreal, nearly all of which were located in the outlying wards of the City.

**(e) Claims:**

75 investigations have been made by our inspectors during 1940, following claims made at the claim office of the Legal Department. A written report and a sketch have been made in each case.

## — IV —

**PLUMBING AND DRAINAGE**  
**(New or modified buildings)**

	Inspections
1.—Drains.....	2,267
2.—Piping (before installation of fixtures).....	4,159
3.—Piping (after installation of fixtures).....	4,728
4.—Water tests.....	2,476
5.—Work completed and accepted.....	2,365
6.—Calls for inspections.....	6,507
7.—Inspections (new constructions).....	19,177
8.—Inspections (existing constructions).....	40,538
9.—Total number of fixtures installed.....	19,122
10.—Special investigations.....	205
11.—Plumbing inspection certificates granted.....	119

**BOARD OF EXAMINERS FOR PLUMBERS**

(a) Number of sittings.....	20
(b) Number of candidates.....	67
(c) Certificates of competency granted.....	76
(d) Number of examinations.....	149

**LICENSES**

(a) Master plumbers (by-law 1341).....	456
(b) Journeymen-plumbers (by-law 1341).....	713
(c) Barber shops (by-law 1006).....	1,550
(d) Laundries (by-law 1009).....	336
(e) Establishments: Manufacturing of mattresses, filling materials, etc. (by-law 1089).....	103
(f) Public baths (by-law 1252).....	7
(g) Master fumigators (by-law 1275).....	4
(h) Fumigators (by-law 1275).....	4
(i) Journeymen fumigators (by-law 1275).....	6
(j) Undertakers (by-law 1631).....	68
(k) Embalmers (by-law 1631).....	37
(l) Massage establishments (by-law 1573).....	53
(m) Masseurs (by-law 1573).....	117

**NOTIFICATIONS AND PROSECUTIONS**

Notifications by inspectors.....	9,840
Official notices served.....	4,365
Second notices.....	481
Final notices.....	179
Actions (Recorder's Court).....	53
Actions maintained.....	50
Actions in abeyance.....	3

### ENFORCEMENT OF SPECIAL BY-LAWS

The statistics relating to the enforcement of by-laws concerning barber-shops (No. 1006), laundries (No. 1009), mattresses and other stuffed articles, etc. (No. 1089) and plumbing installations in buildings (piping, appliances, etc.) (No. 1341), are contained in the table relating to routine inspections: III (b).

**(a) By-law No. 1203, concerning the water supply of establishments located in the City of Montreal:**

This by-law is enforced jointly with the Public Works Department.

The following data summarize the work accomplished:

**I — Establishments drawing water from a source other than the City system:**

(a) Total number of cases studied (1933-40) in....	121	establish.
(b) New cases (1940).....	4	“
(c) One or more cross-connections removed in....	5	“
(d) Work under way at the end of 1940 in.....	10	“
(e) Inspections.....	32	“

**NOTE.**—32 samples of water have been collected in connection with the above work.

**II — Establishments surveyed in which there were hazards as to the contamination of the City water system:**

(a) Number of cases studied (1933-40) in.....	152	establish.
(b) New cases (1940).....	61	“
(c) Modifications to the plumbing system.....	59	“
(d) Modifications under way in.....	52	“
(e) Inspections.....	187	“

**(b) By-law No. 1252 concerning public baths and bathing:**

Swimming pools within City limits may be classified as follows at the end of 1940:—

	Municipal baths	Semi- public baths	Total
(a) Filters and automatic chlorination.....	5	3	8
(b) Filters and intermittent disinfection.....	12	6	18
(c) Intermittent disinfection only.	1	1	2
(d) Beaches and open air pools....	17	5	22
Total.....	35	15	50

The control of pool water required 634 inspections and the collection of 385 water samples. 270 tests for residual chlorine have been made and it has been found to vary in 226 cases or 84% between .2 and .5 p.p.m.

The number of admissions in 1940 in municipal and semi-public baths, except beaches, etc., amounted to 1,312,042.

(c) **By-law No. 1275, concerning the use of fumigants  
for the destruction or control of vermin:**

(a) Number of master fumigators.....	4
(b) " " fumigators.....	4
(c) " " journeymen-fumigators.....	6
(d) " " fumigations.....	138
(e) " " fumigations cancelled.....	10
(f) " " dwellings fumigated.....	561
(g) " " rooms fumigated.....	3,146
(h) Inspections regarding the above work.....	950
(i) Infiltrations of fumigant in dangerous zones.....	77
(j) Dwellings affected.....	249
(k) Contraventions (by-law No. 1275).....	31
(l) Notifications.....	31
(m) Actions in the Recorder's Court.....	0

— IX —

**SUPERVISION OF INSPECTORS' WORK**

Number of inspections.....	1,722
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## **Division of Food Inspection**

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**Report of the**  
**DIVISION OF FOOD INSPECTION**  
**for the year 1940**

by

Doctor A. J. G. HOOD, D.M.V.  
Superintendent

**SECTION No. 1—MILK INSPECTION**

**Table I**

**Summary of the work performed in this section in 1940**

Total number of establishments.....	12,118
Total number of inspections.....	27,636
Total number of cows examined.....	81,153
Total number of samples of milk, cream and ice-cream collected for chemical and bacteriological analysis..	14,480
Total number of various examinations of milk, cream and ice-cream.....	133,278
Total number of gallons of milk examined.....	763,224
Total number of gallons of milk confiscated.....	19,545
Total number of quarts of cream confiscated.....	891
Complaints.....	60
Actions taken.....	232
Condemnations.....	222
Written notices.....	15,833
Actions dismissed.....	10

**I — SUB-SECTION OF INSPECTION OF MILK  
IN THE COUNTRY**

**Table II**

**Inspection of milk producers**

<b>INSPECTIONS:</b>	
Dairy score cards.....	4,036
Special.....	5,052
At railway stations.....	65
	9,153
<b>COWS:</b>	
Number examined.....	65,680
Clean.....	60,297
Tuberculin tested within the year.....	65,674
Tuberculin test overdue.....	6
<b>STABLES:</b>	
Number.....	4,036
Clean.....	3,939
With concrete floor.....	3,812
With 400 cubic feet of air space per animal.....	3,758
With 1 foot of light area per animal.....	3,944
Whitewashed entirely.....	3,931
<b>DAIRIES:</b>	
Number.....	4,020
Clean.....	3,961
Unfinished or unsuitable.....	16
<b>REFRIGERATION:</b>	
With ice.....	3,829
With spring water.....	0
Producers not having satisfactory cooling systems..	52
Producers having electrical refrigeration.....	155
<b>MISCELLANEOUS:</b>	
Written notices.....	3,002
Written notices by letter from the office.....	630
Producers interdicted.....	245



## COWS EXAMINED RE MASTITIS:

Number of herds.....	96
Number of cows examined.....	2,047
Number of cows condemned.....	67

## Table III

## Inspection of cream producers

## INSPECTIONS:

Dairy score cards.....	943
Special.....	690
At railway stations.....	2
Total.....	1,635

## COWS:

Number examined.....	15,473
Clean.....	14,361
Tuberculin tested within the year.....	15,473
Tuberculin test overdue.....	0

## STABLES:

Number.....	943
Clean.....	887
With concrete floor.....	857
With 400 cubic feet of air space per animal.....	906
With one foot of light area per animal.....	918
Whitewashed entirely.....	902

## DAIRIES:

Number.....	938
Clean.....	901
Unfinished or unsuitable.....	5

## REFRIGERATION:

With ice.....	895
With spring water.....	0
Producers not having satisfactory refrigeration.....	35
Producers having electrical refrigeration.....	13

## MISCELLANEOUS:

Written notices.....	618
Written notices by letter from the office.....	134
Producers interdicted.....	203

Table IV  
**OBSERVATIONS AND IMPROVEMENTS IN THE INSPECTION OF DAIRY FARMS**  
**1936 - 1940**

	1936	1937	1938	1939	1940
Number of producers visited.....	4,498	4,644	4,213	4,139	4,979
Cows examined.....	71,197	74,285	66,296	66,862	81,153
Cows found clean.....	64,865	67,998	61,501	60,395	74,658
Stables with a cement floor.....	4,068	4,207	3,845	3,860	4,669
Stables with 400 cubic feet of air per animal.....	4,164	4,355	3,953	4,055	4,664
Stables with one square foot of glass per animal..	4,328	4,523	4,108	4,050	4,862
Whitewashed stables.....	4,429	4,543	4,152	3,837	4,833
Clean stables.....	4,315	4,486	4,094	3,996	4,826
Producers having a dairy.....	4,471	4,611	4,191	4,024	4,958
Producers whose dairy was not found satisfactory..	27	33	22	15	96
Producers whose dairy is maintained in a clean condition.....	4,394	4,502	4,138	4,038	4,862
Producers having ice.....	4,337	4,501	4,106	4,001	4,724
Producers cooling milk in spring water or wells...	151	2	36	26	0
Producers not having satisfactory cooling systems..	10	141	71	70	87
Producers having electrical refrigeration.....	.....	.....	.....	42	168
Notices in writing.....	2,409	3,255	2,927	2,811	3,620
Notices (letter from the office).....	522	424	687	620	764
Producers interdicted.....	472	315	428	329	448

**Table V**  
**PROGRESS IN THE METHODS AND EQUIPMENT OF MILK PRODUCERS**  
**1936 - 1940**

	1936	1937	1938	1939	1940
<b>COWS:</b>					
Clean.....	91.10%	91.53%	92.76%	89.92%	92%
<b>STABLES:</b>					
Whitewashed.....	98.47%	97.82%	98.50%	96.41%	97.07%
Clean.....	95.93%	96.59%	97.18%	95.42%	96.92%
With concrete floor.....	90.44%	90.59%	91.27%	91.74%	93.77%
<b>MILK-ROOMS:</b>					
Number.....	99.40%	99.28%	99.48%	98.79%	99.57%
Clean.....	98.28%	97.63%	98.74%	96%	97.65%
<b>REFRIGERATION:</b>					
With ice.....	96.42%	96.92%	97.46%	95.21%	94.88%
With spring water or wells.....	3.36%	.....	0.85%	0.75%	0.00%

Table VI  
 DETECTION OF MASTITIS CASES IN MILCH COWS  
 Special milk (or cream) "By-law No. 891"  
 1940

Number of herds and cows examined		Classification by group						
Number of herds.	Total number of cows in herds.	Number of cows examined.	Number of untested cows (dry or recently freshened).	No. 1 Healthy cows.	No. 2a Suspected cows.	No. 2b Slightly affected cows.	No. 3 Positively affected cows.	No. 4 Severely affected cows.
96	2,671	2,047	624	408	825	660	87	67

Table VII  
 CLASSIFICATION OF DAIRY COWS FROM THE POINT OF VIEW OF THE EXISTENCE  
 OF MASTITIS IN THE HERD

1940

GROUP	EXAMINATION	RESULT	Instructions which must be complied with.	
			COWS	MILK
No. 1—Healthy cows.	1. Strip cup test. 2. Chemical test. 3. Physical examination	Negative. Negative. Negative.	No restriction.	No restriction.
No. 2	1. Strip cup test. 2. Chemical test. 3. Physical examination. 4. Bacteriological examination.	Absence of pus, flakes or stringy milk. Negative or slight reaction. Few nodules, not painful. Negative (streptococci and staphylococci).	No restriction.	No restriction.
	1. Strip cup test. 2. Chemical test. 3. Physical examination. 4. Bacteriological examination.	Absence of pus, flakes or stringy milk. Slight or doubtful reaction. Fibrous nodules, painful. Absence of streptococci and staphylococci.	Must be placed in one end of stable.	May be sold for human consumption.

<p>No. 3—Positively affected cows.</p>	<ol style="list-style-type: none"> <li>1. Strip cup test.</li> <li>2. Chemical test.</li> <li>3. Physical examination.</li> <li>4. Bacteriological examination.</li> </ol>	<p>Absence of pus but presence of flakes or stringy milk.</p> <p>Positive reaction in one or more quarters.</p> <p>Fibrous nodules, painful.</p> <p>Atrophy of one or more quarters.</p> <p>Presence of streptococci or staphylococci or both.</p>	<p>Must all be isolated immediately from the balance of the herd. We recommend the sale of these animals for slaughter.</p> <p>Permission to keep these animals can only be granted for the current year.</p>	<p>Must not be sold for human consumption unless pasteurized.</p> <p>May be used for young animals on the farm.</p>
<p>No. 4—Severely affected cows.</p>	<ol style="list-style-type: none"> <li>1. Strip cup test.</li> <li>2. Chemical test.</li> <li>3. Physical examination.</li> <li>4. Bacteriological examination.</li> </ol>	<p>Presence of pus.</p> <p>Marked reaction.</p> <p>Marked fibrosis, painful nodules with or without swelling; open abscesses.</p> <p>One or more quarters atrophied or dry.</p> <p>Presence of streptococci or staphylococci or both.</p>	<p>Must all be isolated immediately from the balance of herd and sold for slaughter.</p> <p>If pure bred animals and during the gestation period, permission may be granted to breeders to keep these animals on condition that they are not giving milk and shall be kept in a separate stable.</p>	<p>Must not be sold for human consumption or used for young animals.</p>

REMARKS:—The classification of the herd is only temporary and will be changed according to results obtained upon subsequent tests.

Bacteriological examinations will only be made when deemed necessary by the Department.

One positive result obtained upon examination is sufficient to indicate in which group each cow is to be classed.

Examinations are only made one month after calving and not less than one month before.

## II—SUB-SECTION OF MILK INSPECTION IN THE CITY

**Group A: from its entry into the city up to delivery:**

**Table VIII**

### Number of places to be visited and number of inspections 1940

Number of places to be visited.....	7,075
Number of waggons and trucks.....	1,518
Inspections.....	11,578

#### **Details of inspections:**

At the railway stations.....	220
In dairies.....	973
In groceries.....	2,586
In restaurants.....	2,932
In dining-rooms.....	918
In markets.....	285
In stables.....	87
In private houses.....	26
In various places.....	2,488
Special.....	1,063

#### **Results:**

Empty cans examined.....	40,945
Empty cans confiscated.....	1,009
Can tops (lids) confiscated.....	468
Notices for poor milk.....	231
Written notices (various).....	11,218
Actions taken.....	232
Condemnations.....	222
Actions dismissed.....	10

Table IX

## Examinations of milk and cream—1940

Acidity tests.....	528
Sediments tests.....	21,282
Temperatures taken.....	38,656
Babcock tests.....	301
Physical examination (color, taste and smell).....	32,069
Other examinations.....	2,868
	<hr/>
Total of examinations.....	95,704
Number of gallons examined.....	763,224
<b>Confiscations:</b>	
Milk.....	19,545
Cream.....	891
	<hr/>
Total.....	20,436

## Group B: of pasteurization and special milk establishments

Table X

Number of pasteurization establishments.....	39
(a) milk.....	29
(b) cream.....	10
Number of special milk establishments (raw).....	36
Number of inspections.....	5,270
(a) in pasteurized milk establishments.....	3,032
(b) in special milk establishments.....	719
(c) in other institutions, etc.....	1,519



Table XI

## Milk consumed in Montreal (daily) in 1940

## 1—Pasteurized milk and by-products:

Number of gallons of milk.....	71,868
Number of gallons of cream.....	4,383
Number of gallons of ice cream.....	4,169
	<hr/>
Total.....	80,420

## 2—Special milk (raw):

Number of gallons of milk.....	3,318
Number of gallons of cream.....	13
	<hr/>
Total.....	3,331
	<hr/>
Grand total.....	83,751

Table XII

**Collection of samples for laboratory analysis  
1940**

1—For bacteriological analysis:	
Milk.....	7,245
Cream.....	1,022
Chocolate flavored dairy drink.....	258
Ice-cream mix.....	184
Ice-cream.....	474
Sterilization test for dairy utensils.....	833
Drinking water.....	402
River water for ice cutting.....	102
Water from wells and springs.....	131
	10,651
2—For chemical analysis:	
1—Milk: on the street.....	867
in hotels.....	98
in groceries.....	456
in dairies.....	335
in various places.....	1,399
submitted by citizens.....	28
	3,173
2—Cream: on the markets.....	619
submitted by citizens.....	37
	656
	3,829

## SECTION No. 2—MEAT INSPECTION—1940

Table XIII

## Summary of the work of this section for 1940

1	Total number of establishments.....	1,976
2	Total number of inspections.....	28,473
3	Total number of carcasses confiscated.....	486
4	Total number of carcasses inspected.....	171,220
5	Foodstuffs and meats condemned (lbs.).....	146,088
6	Actions taken.....	29
7	Convictions.....	28
8	Case dismissed.....	1
9	Complaints.....	129
10	Samples collected for analysis.....	614
11	Samples submitted for analysis by citizens.....	49
12	Dogs having bitten someone.....	216
13	Examinations of dogs having bitten someone.....	745
14	Written notices.....	1,390
15	Researches re: Negri bodies (all negative).....	5
16	Country abattoirs interdicted during year.....	46
17	Eggs candled (1st year).....	120,246
18	Eggs condemned (1st year).....	517

Table XIV

**Number of establishments visited and  
number of inspections made:**

	Establish- ments	Inspec- tions
Markets.....	7	578
Butcher stalls.....	1,111	20,177
Fish stalls.....	31	568
Poultry dealers.....	56	1,468
Packing houses.....	11	203
Grocers.....	6	118
Cooked meat dealers.....	35	630
Cold storages.....	5	93
Sundry manufacturers.....	20	281
Abattoirs.....	249	1,071
Ice dealers.....	375	1,086
Specials.....	..	2,096
Provisions.....	70	104
	<hr/>	<hr/>
Total.....	1,976	28,473
 <b>Other work:</b>		
Written notices.....		1,390
Actions taken.....		29
Convictions.....		28
Conviction postponed.....		1
Complaints.....		129
Samples collected for analysis.....		614
Samples submitted for analysis by citizens.....		49
Dogs having bitten someone.....		216
Examinations of dogs having bitten someone.....		745
Research re: Negri bodies.....		5
Country abattoirs interdicted during year.....		46
Eggs candled (1st year).....		120,246
Eggs condemned (1st year).....		517

Table XV

## Inspection and confiscation of carcasses in 1940

	Inspections	Confiscations
<b>1. At the private abattoir:</b>		
Cattle.....	2	
Calves.....	35	
Carcasses of mutton.....	54	
Hogs.....	53	
	<hr/>	
Total.....	144	
 <b>2. At the inspection stations:</b>		
Calves.....	23,164	104
Carcasses of mutton.....	1,368	1
Hogs.....	34,971	25
	<hr/>	<hr/>
Total.....	59,503	130
 <b>3. At the commission stores:</b>		
Cattle.....	.....	1
Calves.....	34,674	205
Carcasses of mutton.....	3,520	15
Hogs.....	73,379	135
	<hr/>	<hr/>
Total.....	111,573	356
Total number of carcasses inspected... ..	171,220	
Total number of carcasses confiscated..		486

**N.B.**—The inspection at the public abattoirs is performed by the Federal Government.

**Table XVI**  
**Number of pounds of meat and other foodstuffs**  
**confiscated in 1940**

	Private abattoirs	Inspection stations	Commis- sion stores	Markets, butchers, etc.	Total
Beef.....	.....	.....	313	4,979	5,292
Veal.....	.....	4,443	4,258	2,314	11,015
Mutton.....	.....	211	249	92	552
Pork.....	12	2,871	32,752	4,799	40,434
Poultry.....	.....	386	3,473	4,094	7,953
Fish.....	.....	.....	7	15,443	15,430
Sundry meats.....	.....	1,389	.....	26,354	27,743
Sundry foodstuffs...	.....	.....	.....	37,649	37,649
<b>Total.....</b>	<b>12</b>	<b>9,300</b>	<b>41,052</b>	<b>95,724</b>	<b>146,088</b>

**N.B.**—The above foodstuffs have been condemned for the following reasons: spoiled, mouldy, slimy, sour, dirty or affected with diseases, and calves too young.

## Section No. 3

1940

Inspection of restaurants, dining-rooms,  
grocery-stores, etc.

Table XVII

1. Kind of establishment:	Establishments	Visits
Candy stores.....	2,929	6,269
Restaurants.....	1,095	11,275
Dining-rooms.....	756	7,289
Grocery-stores.....	2,156	11,359
Confectioneries.....	74	827
Pastry-shops.....	122	1,626
Fruit and vegetable stores.....	246	2,207
Beverage manufacturers.....	44	460
Sundry manufacturers.....	151	1,090
Special inspections in above mentioned establishments.....	.....	5,625
Total.....	<u>7,573</u>	<u>48,027</u>
Vehicles used for the conveyance of foods.	1,592	1,234

## Section No. 3—(Continued)

## 2. Samples collected for analysis:

Chemical.....	364
Bacteriological.....	615
Total.....	<u>979</u>

## 3. Confiscations:

Utensils.....	544
Fruits (in pounds).....	7,928
Vegetables (in pounds).....	1,563
Various foodstuffs (in pounds).....	71,221
Total.....	<u>80,712</u>

## 4. Sundries:

Complaints.....	87
Written notices.....	6,590
Actions in court on January 1st, 1940.....	4
Actions taken.....	123
Actions withdrawn.....	7
Actions dismissed.....	..
Convictions.....	106
Actions in court on December 31st, 1940.....	10



Table XVIII  
**COMPARATIVE TABLE OF THE WORK TO BE DONE AND THE WORK DONE  
 FOR THE YEARS 1937 TO 1940**

Establishments	1937		1938		1939		1940	
	To be visited	Visited	To be visited	Visited	To be visited	Visited	To be visited	Visited
Hotels.....	51	238	58	100	3,782	Included in dining-rooms 2,513	2,929	6,269
Candy stores.....		Included in restaurants			967	11,825	1,095	11,275
Restaurants.....	5,130	21,686	5,337	16,373	794	7,426	756	7,289
Dining-rooms.....	710	9,144	757	8,119	1,549	8,452	2,156	11,359
Grocery-stores.....		Inspected by section 2	1,057	5,654	70	1,012	74	827
Confectioneries.....	68	1,330	77	1,304	101	1,310	122	1,626
Pastry-shops.....	104	2,089	88	1,606	247	1,986	246	2,207
Fruit and vegetable stores.....	223	2,247	216	2,007	47	495	44	460
Beverage manufacturing estab.....	49	985	50	696	157	1,124	151	1,090
Various manufacturing estab.....	172	1,928	152	1,397		Included in dining-rooms		
Taverns.....	72	138	66	95		Included in dining-rooms		
Institutions.....	176	110	159	40		Included in dining-rooms		
Special inspection.....		3,494		3,847		4,123		5,625
<b>Total.....</b>	<b>6,755</b>	<b>44,389</b>	<b>8,017</b>	<b>41,238</b>	<b>7,714</b>	<b>40,266</b>	<b>7,573</b>	<b>48,027</b>
<b>Vehicles.....</b>	<b>1,674</b>	<b>2,027</b>	<b>1,420</b>	<b>1,662</b>	<b>1,541</b>	<b>1,033</b>	<b>1,592</b>	<b>1,234</b>

Table XIX

Comparative table of the work done for the years  
1937 to 1940—(Continued)

	1937	1938	1939	1940
<b>Samples collected for analysis:</b>				
Chemical.....	51	59	152	364
Bacteriological.....	647	629	690	615
Total.....	698	688	842	979
<b>Confiscations:</b>				
Utensils.....	8	55	216	544
Fruits (in pounds).....	3,872	34,248	15,910	7,928
Vegetables (in pounds).....	104,856	162,316	46,272	1,563
Various foodstuffs (in pounds).....	35,813	95,258	192,064	71,221
Total.....	134,541	291,822	254,246	80,712
<b>Sundries:</b>				
Complaints.....	50	70	99	87
Written notices.....	3,100	3,866	4,181	6,590
Actions in Court on January 1st.....	.....	2	2	4
Actions taken.....	39	47	79	123
Actions withdrawn.....	.....	.....	.....	.....
Actions thrown out.....	.....	.....	.....	.....
Convictions.....	37	47	77	106
Actions in Court on Decem- ber 31st.....	2	2	4	10

## SUB-SECTION (INSPECTION OF BAKERIES)

Table XX

## Weight of bread during the year 1940

	Inspections	Loaves weighed	Loaves confiscated	Notices sent	Actions taken
In bakeries.....	1,998	142,648	4,350	140	6
In grocery-stores....	4	45	.....	.....	.....
In pastry-shops.....	253	16,509	4	.....	.....
In restaurants.....	.....	.....	.....	.....	.....
In vehicles.....	10	.....	.....	.....	.....
Total.....	2,265	159,202	4,354	140	6

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## **Division of Laboratories**

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**Report of the  
DIVISION OF LABORATORIES  
for the year 1940**

by

Doctor R. BÉRARD  
Superintendent

Dr. A. Bolduc, physician, bacteriologist and superintendent of the Division of the Laboratories, died April 13th, 1940, at the age of 42 years.

Dr. A. Bolduc, who was superintendent of the Division since 1927, had always devoted his activities to the organization and improvement of the technical methods employed in the Division.

To complete the organization of the Division of Laboratories, the work was divided into three sections:

- (a) The bacteriological and serology section.
- (b) The bacteriological control of milk, cream and water.
- (c) The chemistry section.

The total number of analyses made during the year was 59,493, divided among the different Divisions of the Department of Health, the Police Department and the private practitioners of Montreal.

A brief statement of the work performed by the Division under my supervision will be found in the following tables:

**A. Specimens analyzed for the Department of Health.  
Division of Food Inspection:**

**I—Solid Foods**

1. Natural:	
Bacteriological examination.....	125
Chemical examination.....	39
Physical examination.....	243
2. Canned:	
Bacteriological examination.....	72
Physical examination.....	2
3. Prepared:	
Chopped meat (re: adulterations).....	56
Sausage (re: adulterations).....	465

**II—Liquid Foods:**

Milk and cream:

## 1. Natural:

(a) Samples brought by our inspectors:

Bacteriological examination:

Plate count.....	7,712
B. coli-test.....	7,712

Chemical analysis:

Acidity test.....	21
Completed (1).....	321
Summary (2).....	3,744
Phosphatase test.....	786
Research of colostrum, blood, streptococcus.	6
Preservative test.....	3,600

(b) Samples brought by citizens:

Summary chemical analysis plus preservative test	354
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## 2. By-products:

Chocolate drink (plate count).....	223
Chocolate drink (B. coli test).....	223
Chocolate drink (chemical analysis).....	130
Ice cream (plate count).....	520
Ice cream (B. coli test).....	520
Ice cream (chemical analysis).....	259
Ice cream (re: preservative test).....	17

**III—Miscellaneous:**

Custard (chemical examination).....	2
Carbonated beverages (bacteriological examination).....	12
Carbonated beverages (chemical examination)...	10
Controls in nurseries, hospitals (milk, water) (bacteriological examination).....	2,024
Castor-oil (chemical examination).....	1
Sulphur ointment (chemical examination).....	1

(1) Completed chemical analysis comprises specific gravity, butter fat, dry extract, defatted extract, water.

(2) Summary chemical analysis comprises specific gravity by "QUEVENNE" lacto-densimeter, butter fat by "BABCOCK" test, preservative test.

**III—Miscellaneous—(Continued)**

Sausage powders (chemical analysis).....	2
Wash test (apparatus and recipients).....	1,084
Wash water (dining room) (bacteriological examination).....	1,168
Wash water (chemical analysis).....	3
Wash powders (chemical analysis).....	2
Water from the Montreal Aqueduct (bacteriological examination).....	756
Water from various sources (bacteriological examination).....	596

**IV—Biological examinations: (3)**

Blood: agglutination test re: B. Typhosum and B. Paratyphosum A and B.....	627
Stools: re: B. Typhosum and B. Paratyphosum A and B.....	1,203
Urines: re: B. Typhosum and B. Paratyphosum A and B.....	1,196

**V—Special examinations:**

Thermometers (checking).....	10
Total.....	35,847

**Division of Sanitation:**

Javel water (chemical analysis).....	2
Water from sewers (chemical examination).....	6
Water from public swimming pools (bacteriological examination).....	714
Water from public swimming pools (chemical examination).....	357
Water from various sources (bacteriological examination).....	76
	<hr/>
	1,155

(3) These tests are carried out for the detection of typhoid "germ carriers" among the employees of dairies and other food handlers.

**Division of Contagious Diseases:**

Rabies: research of Negri bodies.....	5
Stools: re: B. Typhosum and B. Paratyphosum A and B.....	69
Throat swabs: re: diphtheria.....	1,686
re: streptococcus hemolyticus....	5
Urines: re: B. Typhosum and B. Paratyphosum A and B.....	62

**Tuberculosis Section:**

Sputum: re: tubercle bacilli.....	249
	<hr/>
	2,076

**Division of Child Hygiene:**

Urines: chemical and microscopic examination..	1,616
	<hr/>
	1,616

**Division of Medical Control:**

Sputum: re: tubercle bacilli.....	2
Urethral and vaginal swabs.....	486
Urines: chemical and microscopic examination..	378
	<hr/>
	866

**B. Specimens analyzed for the Police Department:**

Narcotic drugs.....	57
Urethral and vaginal swabs (prostitutes).....	2,146
	<hr/>
	2,203



## C. Specimens analyzed for Physicians:

Arthritis fluid.....	4
{ re: B. Aertrycke.....	5
{ re: Brucella abortus.....	334
{ re: B. dysenteriae Flexner.....	5
{ re: B. dysenteriae Shiga.....	5
{ re: B. dysenteriae Sonne.....	5
{ re: B. enteritidis Gaertner.....	5
{ re: B. Paratyphosum A.....	334
{ re: B. Paratyphosum B.....	334
{ re: B. Paratyphosum C.....	5
{ re: B. Proteus X19.....	7
{ re: B. Typhosum.....	334
{ re: Salmonella group.....	6
{ re: Salmonella Newport.....	5
Blood: bleeding time.....	1
coagulation time.....	4
culture.....	44
re: determination of cholesterol.....	28
of creatinine.....	23
of hemoglobin.....	87
of sugar.....	769
of urea.....	447
of uric acid.....	5
differential blood count.....	63
red and white cells count.....	87
parasites.....	1
Cerebro-spinal fluid.....	3
Hair (re: tinea).....	3
Mother's milk.....	1
Pleural fluid.....	5
Renal calculus (identification).....	1
Sperm.....	1
Sputum: re: tubercle bacilli.....	2,280
Stools: bacteriological examination (blood, protozoa, tubercle bacilli, worms, etc.).....	69
re: B. dysenteriae.....	9
re: B. Typhosum and B. Paratyphosum A and B.....	140
re: entamoeba histolytica.....	126

Throat swabs: re: diphtheria.....	75
re: streptococcus hemolyticus....	8
re: Vincent's angina.....	275
Urethral and vaginal swabs.....	245
Urines: bacteriological examination (B. Coli, gonococcus, tubercle bacilli).....	134
chemical and microscopic examinations.	9,276
re: B. Typhosum and B. Paratyphosum A and B.....	76
Worms (identification).....	2
Wounds pus.....	24
	<hr/>
	15,700
	<hr/>
Total.....	59,463

## CONTAGIOUS DISEASES

YEAR 1940

DEPARTMENT OF HEALTH  
DIVISION OF LABORATORIES

Diseases	Number of specimens	Positive	Negative	Suspicious	Unsatisfactory	Percentage			
						Positive	Negative	Suspicious	Unsatisfactory
Diphtheria.....	1,761	169	1,591	0	1	9.50	90.45	0.0	0.05
Rabies.....	5	0	5	0	0	0.00	100.00	0.0	0.0
Tuberculosis.....	2,547	256	2,291	0	0	10.00	90.00	0.0	0.0
Typhoid fever: Physicians of the City.....	667	59	608	0	0	8.80	91.20	0.0	0.0
Detection of "germ carriers" (food handlers).....	2,991	(a) 1	3,090	0	0	0.03	99.97	0.0	0.0
Gonorrhea: Physicians of the City.....	245	63	245	0	0	25.70	74.30	0.0	0.0
Food handlers.....	486	27	459	0	0	5.55	94.45	0.0	0.0
Prostitutes (*).....	2,146	399	1,747	0	0	18.59	81.41	0.0	0.0
Amoebic dysentery.....	126	15	111	0	0	11.90	88.10	0.0	0.0

(a) This positive result comes from a sample of blood (positive Widal).

(\*) Women arrested in disorderly houses.

**Bacteriological analysis of milk, cream, ice-cream,  
water, etc.**

**A. Quantitative analysis** (Standard Plate Count):

**Division of Food Inspection:**

Pasteurized milk (delivered to consumers).....	2,934
Special milk (delivered to consumers).....	1,825
Chocolate drink.....	223
Cream.....	792
Ice-cream.....	520
Controls in pasteurizing plants and special milk establishments.....	2,161
Controls in nurseries, hospitals.....	1,012
Tests on washing of utensils (dairies).....	542
Water from various sources, eggs, oysters, etc....	298
Water from the Montreal Aqueduct.....	378
Wash water (dining room).....	584
Carbonated beverages.....	6
	11,275

**Division of Sanitation:**

Water from public swimming pools.....	357
Water from various sources.....	38
	395

**B. Qualitative analysis** (fermentation test for the detection of bacteria of the B. Coli group in the above samples)..... 11,670

Total..... 23,340

Research of phosphatase..... 785

Grand total..... 24,125

**BACTERIOLOGICAL ANALYSIS OF THE WATER FROM  
THE MONTREAL AQUEDUCT, YEAR 1940**

Month	Number of samples	Number of colonies	B. Coli 10 c.c. portions
January.....	37	6,123	10-185
February.....	28	4,668	0-140
March.....	24	1,171	0-120
April.....	33	3,298	0-165
May.....	32	1,537	0-160
June.....	29	2,316	0-145
July.....	36	3,131	6-180
August.....	30	8,359	9-150
September.....	36	5,764	5-180
October.....	32	536	5-160
November.....	32	1,753	0-160
December.....	26	1,299	0-130
Total.....	375	39,955	35-1,875
Mean.....	...	106	1.97%

**BACTERIOLOGICAL ANALYSES, 1940**  
**Pasteurized milk—Plate count**

Number of samples	Numeration					Percentage				
	Less than 10,000 colonies per c.c.	From 10,000 to 50,000 colonies per c.c.	From 50,000 to 100,000 colonies per c.c.	More than 100,000 colonies per c.c.	Samples void	Less than 10,000 colonies per c.c.	From 10,000 to 50,000 colonies per c.c.	From 50,000 to 100,000 colonies per c.c.	More than 100,000 colonies per c.c.	Samples void
From January to May inclusive:— 1,332	526	594	134	78	0	39.5	44.5	10.1	5.9	0.0
From June to September inclusive:— 864	349	410	56	49	0	40.4	47.4	6.5	5.7	0.0
From October to December inclusive:— 738	360	313	52	13	0	48.8	42.4	7.1	1.7	0.0
For the year:— 2,934	1,235	1,317	242	140	0	42.1	44.9	8.3	4.7	0.0



**BACTERIOLOGICAL ANALYSES, 1940—(Continued)**  
**Special milk—Plate count**

Number of samples	Numeration			Percentage		
	Less than 25,000 colonies per c.c.	More than 25,000 colonies per c.c.	Samples void	Less than 25,000 colonies per c.c.	More than 25,000 colonies per c.c.	Samples void
From January to May inclusive:— 796	752	44	0	94.4	5.6	0.0
From June to September inclusive:— 556	510 (a)	46 (b)	0	91.7	8.3	0.0
From October to December inclusive:— 473	429	44	0	90.7	9.3	0.0
For the year:— 1,825	1,691	134	0	92.7	7.3	0.0

(a) Less than 50,000.      (b) More than 50,000.



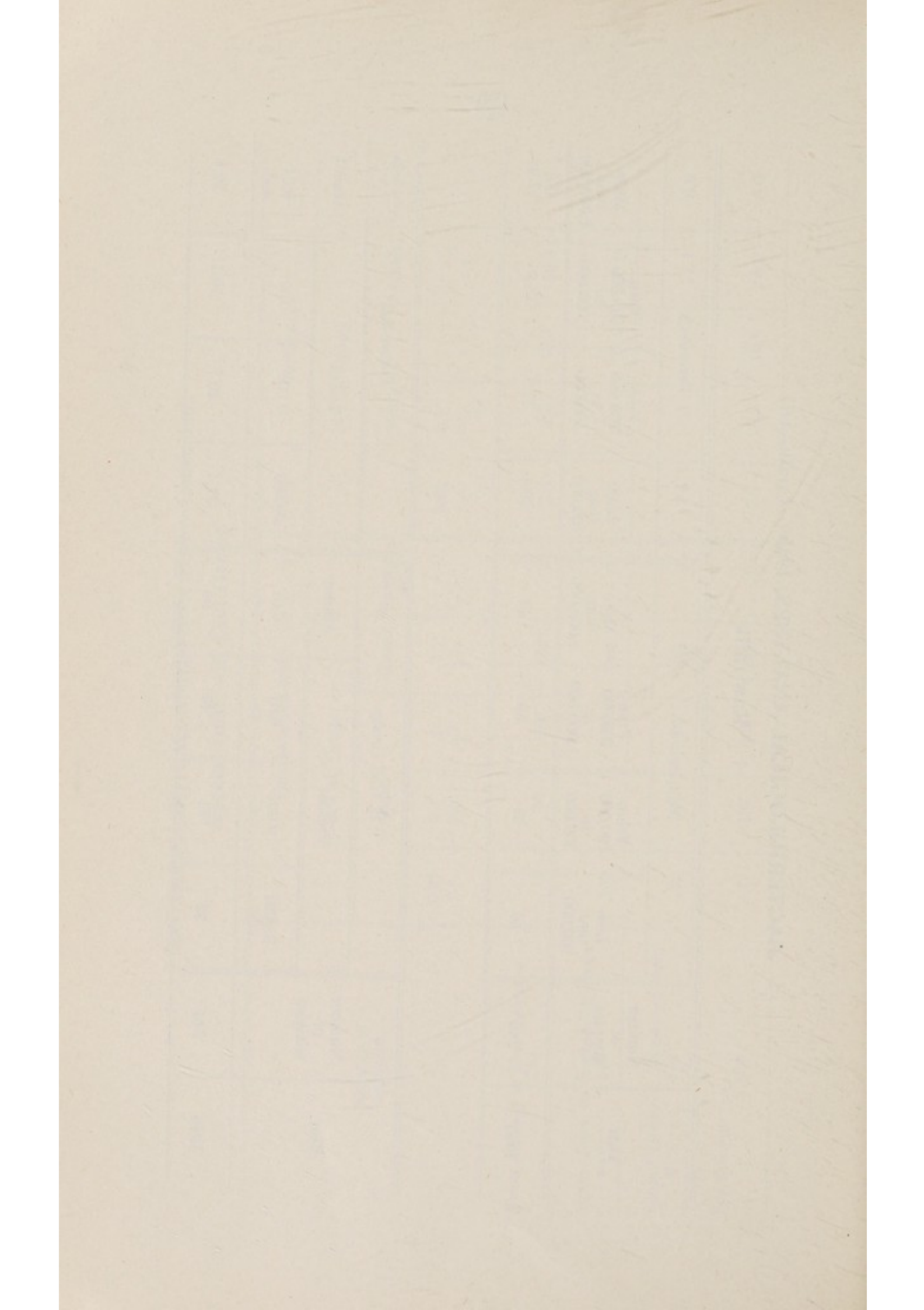


## BACTERIOLOGICAL ANALYSES, 1940—(Continued)

## Raw milk

Year	Number of samples	Numeration			Percentage				
		Less than 100,000	From 100,000 to 500,000	From 500,000 to 1,000,000	More than 1,000,000	Less than 100,000	From 100,000 to 500,000	From 500,000 to 1,000,000	More than 1,000,000
1940	246	50	93	59	44	20.4	37.8	23.9	17.9

Year	Number of samples	B. Coli Group		Percentage					
		Present	Absent	Present	Absent				
1940	246	92	51	47	56	37.4	20.7	19.1	22.8



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**Division of Medical Control**

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**Report of the  
DIVISION OF MEDICAL CONTROL  
for the year 1940**

by

Doctor J. A. CHARRON  
Superintendent

The report of the division of Medical Control is divided into four parts, as follows:

- I MEDICAL EXAMINATIONS
- II HEALTH CARDS
- III VACCINATION AGAINST SMALL-POX
- IV MEDICO-LEGAL OFFICE

**I—MEDICAL EXAMINATIONS**

This first part includes medical examination of and visits made to employees who are absent through illness, and the medical examination of those seeking employment.

The work of this section of the division of Medical Control for the year 1940, may be summed up as follows:—

**Examinations of employees:**

1. New employees.....	112
2. Employees absent through illness.....	3,358
3. Special examinations, re: State of health.....	52
Total.....	3,522

A physician of the division of Medical Control gives a half-time contribution to the division of Municipal Assistance. With the physician of this last division, he looks after the examination of the refugees at Meurling Refuge. He replaces him when absent and then does the whole work of the division.

During 1940, the physicians of Child Hygiene and those of Contagious Diseases Divisions gave us their devoted co-operation, for which they are to be most earnestly thanked.

## II—HEALTH CARDS

In conformity with city By-law No. 926, concerning food establishments and restaurants, and with By-law No. 1394, concerning barber shops, hairdressing parlors, etc., employees working in these places must procure a health card which is issued to them by this division, after complete medical examination supplemented by laboratory tests. The number of these establishments in Montreal is around 5,000.

### Medical inspection of food handlers

#### 1. Food handlers:

Number of examinations:

(a) at the office

(b) in plants

Total..... 41,780

During the year 1940, a greater number of food handlers acted in conformity with By-law 926, that is to say 10,315.

### Medical inspection of barbers, hairdressers, etc.

#### 2. Barbers, hairdressers, etc.:

Number of examinations:

(a) at the office

(b) in shops

Total..... 3,650

During the year which just elapsed, a greater number of barbers, hairdressers, etc., acted in conformity with By-law No. 1394. 3,650 have secured their health card, that is to say 898 more than in 1939.

## III—VACCINATION AGAINST SMALL-POX

The health by-laws demand that employees who work in food establishments, in barber shops, hairdressing parlors, etc.,

must produce a certificate of vaccination showing that they have been successfully vaccinated within less than seven years.

Following is a summary of the work of this section:

**Vaccination against small-pox:**

**1. Food handlers vaccinated:**

(a) at the office.....	11,873
(b) at plants.....	2,539
Total.....	14,412

**2. Barbers, hairdressers, etc.:**

(a) at the office.....	378
(b) in shops.....	42
Total.....	420

**3. Other vaccinations..... 1,273**

Total.....	16,105
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**CLASSIFICATION OF HEALTH CARDS—1940**

**I—Food establishments:**

Number of cards issued.....	41,780
Number of cards refused.....	322
Reasons: Pyorrhea.....	30
Tuberculosis.....	3
Skin diseases.....	41
Venereal diseases.....	101
Uncleanliness.....	147

**II—Barber shops, hairdressing parlors, etc.:**

Number of cards issued.....	3,650
Number of cards refused.....	26

**Vaccinations and Verifications:**

Number of vaccinations.....	16,105
Number of verifications.....	14,602

#### IV—MEDICO-LEGAL OFFICE

Following is the report of the medico-legal counsel for the year 1940:—

##### Workmen injured:

Examinations at the Medico-Legal office.....	1,291
Examinations at home.....	42
First reports.....	416
Subsequent reports.....	301

##### Expert reports for the Legal Department:

Examinations at the Medico-Legal office.....	124
Examinations at home.....	625
First reports.....	448
Subsequent reports.....	302

##### Examinations on account of pension fund—

(Employees and constables):

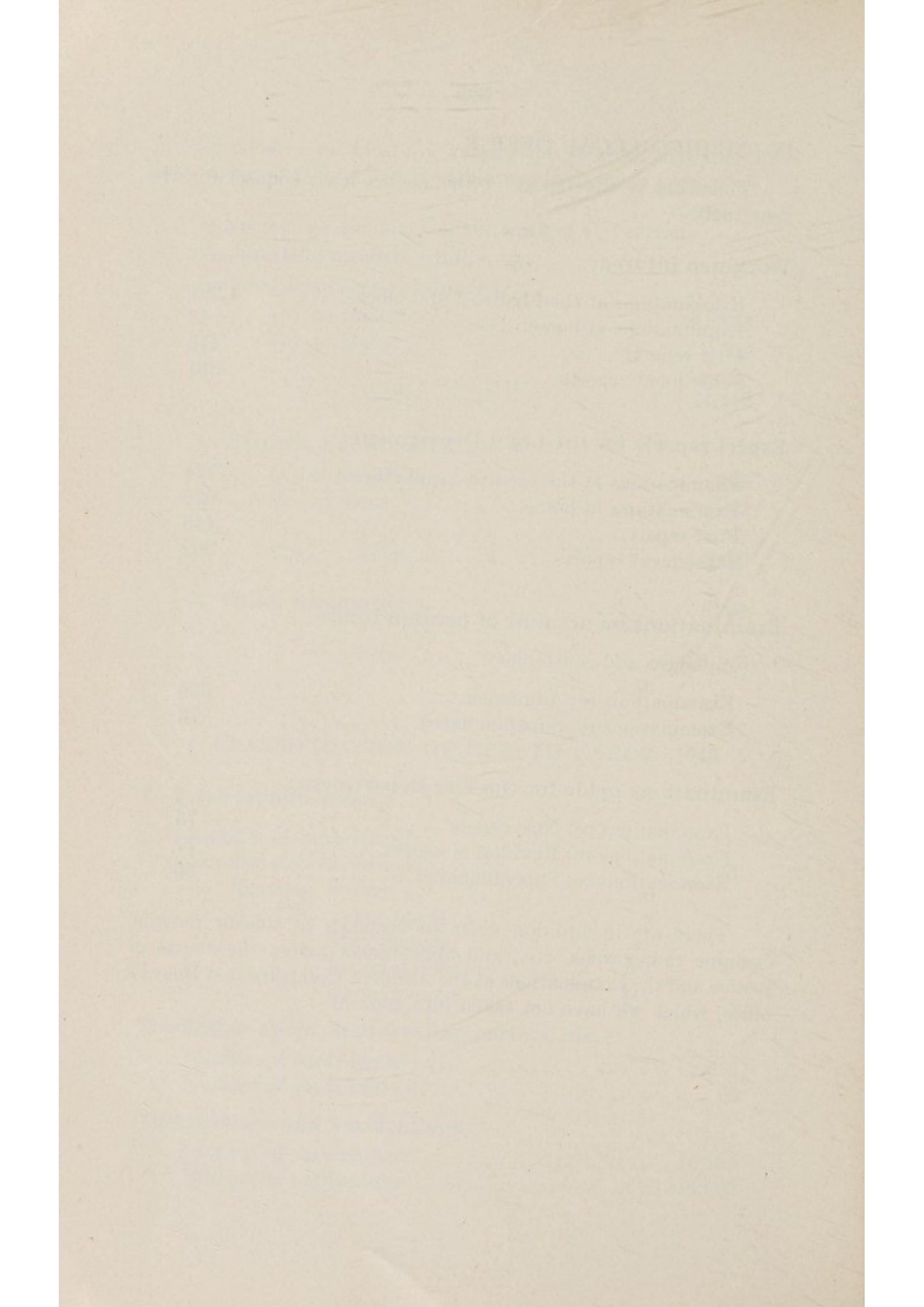
Examinations re: Admission.....	226
Examinations re: Superannuated.....	73

##### Examinations made for the Fire Department:

Examinations re: New cadets.....	73
Examinations re: Revision of cadets.....	77
Examinations re: Superannuated.....	55

There are in addition visits to hospitals to consult records, examine radiographs, etc., and appearances before the courts of justice and the examinations at the Accident Compensation Board's office, which we have not taken into account.





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## **Division of Municipal Assistance**

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**Report of the  
DIVISION OF MUNICIPAL ASSISTANCE**

**for the year 1940**

by

Mr. ALBERT CHEVALIER  
Superintendent

**STATEMENT OF THE ACTIVITIES OF THE MUNICIPAL  
ASSISTANCE DIVISION FOR THE YEAR 1940**

Items	Hospitalized	Investiga- tions	Cases
Neglected children.....	540	1,201	1,211
Juvenile delinquents and Juvenile Court.....	370	309	370
Insane.....	919	1,356	1,396
Incurable patients and others.....	294	374	381
Tuberculous.....	221	285	286
Assistance to the poor.....	.....	164	164
Street vendors.....	.....	68	68
Special cases.....	.....	449	449
Burial of paupers.....	.....	1,097	1,100
Deportation of immigrants.....	.....	11	11
Repatriation of strangers.....	.....	234	234
Charitable institutions having regis- tered (By-law 1447).....	.....	214	214
Persons authorized to collect gifts for said institutions.....	.....	60	60
Tag-days and charities entertain- ments, etc.....	.....	320	320
Quebec Public Charities Act.....	44,032	44,482	51,255
Social Service Exchange (Unemploy- ment cases).....	.....	456	456
<b>Total.....</b>	<b>46,376</b>	<b>51,080</b>	<b>57,975</b>

## PLACING OF NEGLECTED CHILDREN IN SCHOOLS OF INDUSTRY

1,211 applications for placing or discharging neglected children had to be settled during 1940. These applications necessitated 1,201 investigations; 10 of which remained in abeyance on the 31st of December 1940.

The result of said investigations was as follows:—

Accepted cases.....	644
Refused cases.....	196
Procedures discontinued.....	107
Applications for release granted.....	156
Special cases.....	98
Total.....	<hr style="width: 100%; border: 0.5px solid black; margin-bottom: 5px;"/> 1,201

Children were placed or recommitted as follows:—

Children in schools of Industry on the 1st of January 1940.....	1,190
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Admitting during the year:—

At Maison Ste-Domitille.....	209
At Orphelinat de Liesse.....	148
At Orphelinat d'Huberdeau.....	183
Total.....	<hr style="width: 100%; border: 0.5px solid black; margin-bottom: 5px;"/> 540
Total.....	<hr style="width: 100%; border: 0.5px solid black; margin-bottom: 5px;"/> 1,730

Discharged.....	542
On the 31st of December 1940.....	1,188

Distributed as follows:—

Maison Ste-Domitille, Laval-des-Rapides.....	516
Orphelinat de Liesse.....	384
Orphelinat d'Huberdeau.....	288

All these are placed at joint expense with the Provincial Government.

### JUVENILE DELINQUENTS

370 cases of juvenile delinquents were reported in the following institutions' monthly reports:—

Mont St-Antoine.....	207
Bon-Pasteur.....	68
Shawbridge.....	45
Girls' Cottage.....	50

309 investigations were completed during the year with the following results:—

Investigations closed.....	269
Objections to payment.....	15
Parents having to reimburse.....	25

On the 31st of December 1940, there were, in the reform schools, at the City's expense 645 juvenile delinquents, as follows:—

At Mont St-Antoine.....	278
At Maison Lorette.....	168
At Shawbridge.....	129
At Girls' Cottage.....	49

### INSANE

There were in the Asylums for the insane, at the City's expense, on the first of January 1940, 4,704 patients. During the year, 919 of these patients were admitted to St-Jean-de-Dieu; 703 to Verdun; 131 to l'Hospice Ste-Anne-de-la-Baie-St-Paul; 15 to l'Asile de Bordeaux (for the criminal insane) 68; and to St-Michel Archange, 2. 1,549 of these patients were either discharged from these Asylums or died during the year; consequently, there were left 4,976 patients on the 31st of December 1940, distributed as follows:—

St-Jean-de-Dieu.....	3,537
Verdun.....	737
St-Anne de la Baie-St-Paul.....	346
Bordeaux (criminal insane).....	270
Ecole LaJemmerais.....	4
Beauport (St-Michel Archange and Hospice Du- frost).....	27
St-Ferdinand d'Halifax.....	55

There was a decrease of 29 admissions in the year 1940 over the year 1939.

Mental cases in 1940 required 1,356 investigations, the results of which have been as follows:—

Investigations closed.....	852
Parents having to reimburse the City.....	184
Special investigations for the Quebec Government.....	137
Objections to payment.....	54
Procedures discontinued.....	125
Insane persons deported.....	1
Insane persons repatriated.....	3

On the 31st of December 1940, there remained 40 investigations to be made. 829 commitment papers were prepared in 1940 by our Division.

### INCURABLE PATIENTS AND OTHERS

Applications for the hospitalization of incurable patients and others during the year 1940 amounted to 381. Investigations have given the following results:—

Recommendable cases.....	230
Cases not recommendable, etc.....	75
Parents having to refund cost of maintenance to the City.....	69
Under investigation on December 31st, 1940.....	7
Hospitalized during the year 1940.....	294
Present on December 31st, 1940.....	256

As follows:—

At l'hôpital du Sacré-Cœur.....	106	55
At the Grey Nuns', St-Mathieu St.....	16	40
At St. Luke's Hospital.....	52	9
At Refuge Notre-Dame-de-la-Merci....	69	75
At l'Hospice St-Henri.....	11	44
At Notre-Dame de Lourdes.....	24	33

On the 31st of December 1940, there were 17 vacant places in the above mentioned institutions; no patient was waiting admission on the same date.

## TUBERCULOUS

There were 286 applications for hospitalization of indigent tuberculous during the year 1940. The investigations have given the following results:—

Recommendable cases.....	243
Cases not recommendable.....	29
Parents having to refund costs of maintenance..	13
Under investigation on the 31st of December 1940	1

The number of tuberculous patients hospitalized or rehospitalized during the year was 221.

102 tuberculous patients were at the Sacred Heart Hospital on the 31st of December 1940, at the City's expense; there were 8 vacant places and 13 were waiting for admission on the same date.

## ASSISTANCE TO THE INDIGENTS

During the year 1940, 164 applications for relief of various kinds were filled with our Division. Most of these cases were referred to the Charitable Institutions.

## MENDICANTS AND STREET VENDORS

68 applications for street vendor licences were made at our Office in the course of the year. These applications have been investigated with the following results:—

Applications recommended upon payment of the \$10.00 licence fee.....	6
Applications recommended free of charge.....	24
Applications not recommended or discontinued..	38

Since September 1940, no more permits are issued to street vendor.

## SPECIAL CASES

449 requests for research or information were made through this Division during the year 1940. These researches being of a particular nature and we are pleased to state that they were attended to satisfactorily.

## BURIAL OF INDIGENTS

1,100 requests for burial of poor persons at the City's expense were made in 1940. These have necessitated 1,097 investigations with the following results:—

Persons buried at the City's expense.....	1,054
Responsible parties having been called upon for reimbursement of whole or part of expenses incurred.....	15
Requests refused or discontinued.....	28
Under investigation on the 31st of December 1940	3

## DEPORTATION

The cases of deportation of immigrants numbered 11 in 1940. After investigation these cases were disposed of as follows:—

Immigrants deported.....	3
Proceedings discontinued or refused.....	6
Under investigation at Ottawa on the 31st of December 1940.....	2

## REPATRIATION

234 requests for repatriation came before this office in 1940. The above mentioned requests were disposed of as follows:—

Persons repatriated at the City's expense.....	151
Requests refused or discontinued after investigation.....	83



## REGISTRATION OF CHARITABLE INSTITUTIONS AND OF PERSONS AUTHORIZED TO SOLICIT GIFTS OR ALMS ON BEHALF OF SAID INSTITUTIONS

In conformity with the Municipal By-Law No. 1447, 214 institutions soliciting or collecting gifts or alms have registered in 1940 (in 1939: 215) and 60 persons were authorized to solicit such gifts or alms (in 1939: 62).

During the year 1940, 320 applications for permission to hold tag-days ("guignolées") or charitable entertainments were received in compliance with the above mentioned By-law. These requests after investigation were:—

Granted.....	291
Refused.....	29

With respect to tag-days, it is to be noted that the 30 tag-days which have been held during 1940, have brought in the sum of \$96,224.52. The expenditures amounted to \$16,679.75, that is to say 17.33%. The interested institutions have then made a benefit of \$79,544.77.

Procedures were taken before the Recorder's Court against one individual or Institution for having neglected to comply with said By-Law.

### PUBLIC CHARITIES ACT

The number of requests for hospitalization under the Quebec Public Charities Act, sent to our Division during 1940, were as follows:—

Applications for hospitalization in Hospitals, Sanatoriums, Homes and Orphanages.....	37,415
Cases reconsidered.....	3,309
Under investigation on the 1st of January 1940..	1,518
Transferred to other Institutions.....	3,513
Total.....	45,755

Investigations made during the year.....	44,482
Under investigation on the 31st of December 1940.	1,273

The result of these investigations has been as follows:—

Accepted cases.....	38,532
Refused cases.....	5,950

To these 38,532 cases accepted after investigation, we must include or add 5,500 cases accepted in the Maternities, Creches, Day Nurseries, and School for Crippled Children, making a total of 44,032 hospitalized persons and 51,255 cases.

Appeals were heard before the district magistrate according to Article 22a of the Quebec Public Charities Act, in 71 rejected cases, with the following result: 44 cases, our decisions were maintained; 26 cases were rejected and 1 was under consideration on the 31st of December 1940.

### SOCIAL SERVICE RECORD

The number of record-cards of the Social Service Record on December 31st 1940, was 351,246; 298,640 individual cards and 52,606 address-cards, not counting the cards of patients treated under the Quebec Public Charity Act in the various hospitals for a great number of years.

During 1940, we brought to the attention of the Unemployment Relief Commission 456 cases requiring a reduction or a discontinuation of relief granted under the Unemployment Act.

The grant has been discontinued.....	308
Unchanged.....	77
Not getting relief or not located.....	71
	<hr/>
Total.....	456

The weekly saving thus realized by this decreased allocation was \$600.65.

### MEURLING MUNICIPAL REFUGE

During the year 1940, there were 195,999 entries for lodging accommodation in the Meurling Refuge. Of this number 66 individuals were refused admission for good cause; so that the real number of lodgings given was 195,933. The lodgings were given to 3,161 individuals or an average of 62.1 times each in-

dividual, representing 32 nationalities, and 432 were refused for lack of places.

The number of day's work supplied by the refugees amounted to 17,289; the average age of the persons lodged was 48.4 years.

The number of trades represented was 38. The total number of treatments given by our physicians was 37,232.

The number of free meals given during the year 1940 was 408,061.

Number of diseases, 12. Sent to hospitals, 12.

### LAUNDRY OF THE REFUGE

705,688 pieces of linen were washed at the Laundry of the Refuge. Of this number, 8,636 pieces belonged to different departments of the City Hall; 13,073 to the refugees; 683,960 to the Refuge and 17 for soldiers.

29,815 pieces were fumigated for the Militia Department, No. 4 District and the Canadian Red Cross.

### CO-OPERATION WITH THE POLICE DEPARTMENT

During the year 1940 the Department of Police, through its representatives connected with our office, looked after the following cases:—

Cases reported before the Recorder's Court and the Police Court were as follows:—

Prisoners remanded for mental examination.....	239
Insane committed after examination.....	131
Declared responsible and disposed of by the Courts.....	90
Died at Bordeaux Hospital (under examination).	2
Patients escorted.....	14
Persons conducted for repatriation:—	
Persons and children escorted and handed over to their parents.....	4
To different railway stations.....	151
Repatriated under escort.....	8
Repatriation cases refused after investigation...	64
Cases of deportation submitted to the Depart- ment of Immigration during the year.....	7
Number of investigations or visits.....	994

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## Division of Demography

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## DIVISION OF DEMOGRAPHY

for the year 1940

by

Dr. EUG. GAGNON

Superintendent

### COMMENTS OF THE DEMOGRAPHER

#### I—BASIS OF CALCULATION ADOPTED FOR THIS REPORT

In vital statistics the most important rates are calculated in connection with population. In Canada, census reports give for each municipality the number of people who have their usual residence therein. It follows obviously that in establishing birth and mortality rates, the basis of calculation be the usual residence of the parents in the case of births and that of the deceased in the case of deaths.

This practice has always been observed in Montreal. The rates published in this report, in the absence of any specific mention to the contrary, have been calculated after the outward and inward transfers for residence were made. But such a practice is not generally followed neither by the Dominion Bureau of Statistics nor by the provinces where such rates are calculated according to the place where births and deaths occur. For this reason, I deem it opportune to indicate at the very beginning of these comments the variations in mortality rates ensuing for the year 1940 from these two different practices. They are as follows:—

Number of deceased in Montreal (residents and non residents).....	9,976
Rate per 1,000 population.....	11.0
from the above: Non residents....	1,306
Residents.....	8,670
Residents deceased elsewhere.....	626
Total residents' deaths.....	9,296
Rate per 1,000 population.....	10.25
Difference between the two rates obtained.....	0.75

## II—POPULATION

The natural increase of the population, which is the difference between births and deaths, was 9,417 in 1940. It will be noted, however, that in estimating the increase of the population for the same year, only 7,000 has been added to the figures for the previous year.

In our report for 1939, page 220, a comparison was made of the increase of the population in Montreal and Toronto since the last census, showing that our estimates seem to be somewhat too high.

To make even an approximate evaluation of the migrations of population determined by the financial crisis, the building of new industries outside the metropolitan district, the recruiting of a great number of young men for the army, the navy and the royal air force, is quite impossible. An increase of the population has been calculated for each year since the 1931 census, while in Toronto, the municipal census showed a decrease for both years 1932 and 1933. There is nothing to prove that conditions have been similar in both cities. But if they have, our estimates would be too high by about 25,000 and the birth and death rates would be slightly higher than those shown in this report. We therefore think that until the next census, our estimates of the population, to be on the safe side, must be kept below the natural increase.

## III—MAIN FACTS IN 1940

In the following table are shown differences of various statistical facts in 1940 as compared to the previous year.

	1939	1940	Increase or decrease in 1940
1. Population (estimated).....	900,000	907,000	+ 7,000
2. Births.....	17,116	18,713	+ 1,597
Rate per 1,000 population.....	19.02	20.63	+ 1.61
3. Marriages.....	10,650	12,326	+ 1,676
Rate per 1,000 population.....	11.83	13.59	+ 1.76
4. Deaths.....	9,191	9,296	+ 105
Rate per 1,000 population.....	10.21	10.25	+ 0.04
5. Influenza.....	170	116	- 54
Rate per 1,000 population.....	0.19	0.13	- 0.06
6. Tuberculosis (all forms).....	631	581	- 50
Rate per 1,000 population.....	0.70	0.64	- 0.06
7. Infectious and parasitic diseases (T.B. excepted).....	203	276	+ 73
Rate per 1,000 population.....	0.23	0.30	+ 0.07
8. Pneumonia and Broncho-pneu- monia.....	579	449	- 130
Rate per 1,000 population.....	0.64	0.49	- 0.15
9. Cancer.....	1,141	1,249	+ 108
Rate per 1,000 population.....	1.27	1.38	+ 0.11
10. Deaths from violence.....	376	365	- 11
Rate per 1,000 population.....	0.42	0.40	- 0.02
11. Deaths under 1 year.....	1,223	1,110	- 113
Rate per 1,000 births.....	71.5	59.3	- 12.2
12. Malformations and diseases of early infancy.....	537	603	+ 66
Rate per 1,000 births.....	31.4	32.2	+ 0.8
13. Diarrhoea under 1 year.....	238	116	- 122
Rate per 1,000 births.....	13.9	6.7	- 7.2

As outlined above, this table shows an increase of population; it also shows a very large increase in the rates of marriages and births and a smaller one for general mortality, infectious and parasitic diseases, cancer and diseases of early infancy. On the other hand, infantile mortality, deaths by diarrhoea under 1 year, are showing an important decrease, while all the other causes of deaths are slightly decreasing.

In the following table, the causes of deaths for the last three years are divided into various groups of diseases making it easier to find the tendency of each group either to increase or to diminish.

## DEATHS BY VARIOUS GROUPS OF DISEASES

Causes	Years			Per 1,000 population		
	1938	1939	1940	1938	1939	1940
I—Epidemic diseases:						
Typhoid.....	17	9	15	0.02	0.01	0.02
Diphtheria.....	27	19	11	0.03	0.02	0.01
Influenza.....	133	170	116	0.15	0.19	0.13
Tuberculosis (pulmonary).....	585	542	510	0.66	0.60	0.56
Other infectious diseases.....	262	264	321	0.29	0.29	0.35
Total.....	1,024	1,004	973	1.15	1.11	1.07
II to V—General diseases:						
Cancer.....	1,099	1,141	1,249	1.23	1.27	1.38
Other general diseases.....	548	468	464	0.61	0.52	0.51
Total.....	1,647	1,609	1,713	1.84	1.79	1.89
VI—Diseases of nervous system.....	412	474	417	0.46	0.53	0.46
VII—Diseases of circulatory system.....	2,144	2,344	2,595	2.40	2.60	2.86
VIII—Diseases of respiratory system.....	783	678	568	0.88	0.75	0.62
IX—Diseases of the digestive organs:						
Diarrhoea, 0 to 2 years.....	208	256	128	0.23	0.28	0.14
Other dis. of the digestive sys....	566	530	494	0.63	0.59	0.54
Total.....	774	786	622	0.86	0.87	0.68
X—Diseases of genito-urinary system....	1,126	1,232	1,283	1.26	1.37	1.41
XI—Puerperal state.....	77	54	70	0.09	0.06	0.08
XII—Diseases of the skin.....	29	34	22	0.03	0.04	0.02
XIII—Diseases of the bones.....	15	12	14	0.02	0.01	0.01
XIV—Congenital malformations.....	120	114	142	0.13	0.13	0.16
XV—Diseases of early infancy:						
Debility, etc. (158-160-161).....	200	248	187	0.22	0.28	0.21
Premature birth (159).....	291	175	274	0.33	0.19	0.30
Total.....	491	423	461	0.55	0.47	0.51
XVI—Senility.....	38	45	45	0.04	0.05	0.05
XVII—Violent or accidental deaths:						
Suicides.....	52	59	60	0.06	0.07	0.07
Homicides.....	15	9	12	0.02	0.01	0.01
Other violent deaths.....	364	308	293	0.41	0.34	0.32
Total.....	431	376	365	0.49	0.42	0.40
XVIII—Cause of death not determined.....	14	6	6	0.01	0.01	0.01
Grand total.....	9,125	9,191	9,296	10.21	10.21	10.25

Comments on this table are quite unnecessary. Cancer, diseases of the circulatory and genito-urinary systems are the only ones showing a notable increase. This is explained by the gradual aging of the population and the increase in the number of deaths over 50 years of age.



#### IV—PERCENTAGE OF DEATHS AT VARIOUS AGE GROUPS

When deaths are divided into three age groups as in the following table, we find that the proportion entering in the second one remains about the same each year while the increase in the third group is compensated by a decrease in the first one.

Years	0 to 4 years	5 to 49 years	50 years and over	Total
1914.....	50.14	25.39	24.47	100.0
1919.....	44.10	27.51	28.39	100.0
1924.....	40.86	25.31	33.83	100.0
1925.....	37.01	26.53	36.46	100.0
1926.....	34.86	26.76	38.38	100.0
1927.....	32.72	30.35	36.93	100.0
1928.....	35.32	26.22	38.46	100.0
1929.....	33.37	26.77	39.86	100.0
1930.....	32.14	26.67	41.19	100.0
1931.....	30.27	26.94	42.79	100.0
1932.....	26.34	26.88	46.78	100.0
1933.....	24.72	26.01	49.27	100.0
1934.....	23.71	25.47	50.82	100.0
1935.....	22.30	25.18	52.52	100.0
1936.....	19.60	26.14	54.26	100.0
1937.....	20.52	25.86	53.62	100.0
1938.....	17.69	24.94	57.37	100.0
1939.....	16.23	23.18	60.59	100.0
1940.....	14.40	22.38	63.22	100.0
Average.....	29.29	26.03	44.68	100.0

It is to be noted that in 1914, out of every 100 deaths, there were over 50 amongst children under 5 years of age, while in 1940, a quarter of a century later, this proportion is reduced to less than 15 per cent. On the other hand, the proportion of those over 50 years of age has increased from 24 to 63 per cent.

The increase of the mean age of the population is due to two main factors, viz: a marked decrease for the past few years of the number of births which is not compensated for by a corresponding decrease of infant mortality on the one part, and on the other, a lessening of migration from the rural parts to the city, of young people who have found it more difficult to obtain lucrative employment.

However, in 1940, notwithstanding a marked increase in the number of births, the number of deaths under one year of age was the lowest we recorded and the natural increase of the population having been 9,417, exceeds by 412 the mean number for the last ten years. But the constant decrease of the number of births in the course of the previous ten year period shows its influence upon the number of children at the school age period, which has a marked tendency to diminish. It is possible to show this tendency by calculating for a number of years the number of children born within 15 years, the number of those deceased during the same period of time and the number surviving.

In the following table, the figures show such calculations for the last fifteen years, the survivors at the end of each being divided in groups of five years.

End of year	In the last 15 years		Number of children surviving			
	Births	Deaths under 15 years	0 to 4 years	5 to 9 years	10 to 14 years	5 to 14 years
1	2	3	4	5	6	7
1926	310,567	70,310	88,222	78,923	73,112	152,035
1927	311,200	68,438	89,251	79,507	74,004	153,511
1928	311,017	66,686	89,059	80,804	74,468	155,272
1929	310,046	64,910	88,540	82,849	73,747	156,596
1930	310,347	62,663	87,798	85,083	74,803	159,886
1931	311,287	60,584	87,694	85,965	77,044	163,009
1932	311,620	58,113	87,700	87,079	78,728	165,807
1933	309,678	55,240	87,287	87,145	80,006	167,151
1934	308,152	52,875	86,548	86,600	82,129	168,729
1935	304,333	49,607	84,074	86,261	84,391	170,652
1936	299,997	47,051	81,275	86,347	85,324	171,671
1937	296,382	44,704	78,770	86,447	86,461	172,908
1938	292,917	42,322	78,015	86,092	86,488	172,580
1939	288,533	39,620	77,267	85,404	86,242	171,646
1940	285,224	37,290	79,193	83,086	85,655	168,741

This table clearly shows the way in which the three age groups are evolving. The first one (0 to 4 years, column 4) decreased since 1928. The difference, at first very slight, increased year after year to a point where, for 1937 there were in this group 2,505 fewer children than in the previous year. However in 1938, the decrease was only 755 and 748 in 1939. But if 1939 is compared to 1926, the decrease reaches 10,955. However, we find for 1940 a large increase of the survivors in this group, which permits to hope that in four or five years from now the number of new pupils in the schools will again start to increase.

In the second group (5 to 9 years, column 5), the lowering trend starts after the year 1933 with a difference of 4,059 for the last seven years. The third group (10 to 14 years, column 6) reached the summit in 1938 and decreased by 833 in the course of the last two years.

If the last two groups (5 to 14 years, column 7) are now put together, we find that the mean increase was 1,618 for the three years 1926-28; 2,579 (a peak) for the next three years; 1,907 between 1932 and 1934 and 1,505 for the next three years. In 1938, the number of children between 5 and 14 years was lowered by 328. In 1940, the decrease compared to the year 1937 was as high as 4,167.

Of the aforesaid, one may conclude that the number of the new pupils entering schools must have decreased unless the age at admission has been lowered; the number of pupils must also be less in all classes below the seventh and perhaps the eighth grades. As regards the pupils in the high school grades, they are as a rule older than 15 years and do not enter into the above calculations. I may add that, unless a greater proportion of the pupils continue their studies beyond the elementary grades, the school population must have already started to diminish in a marked way.

It is important to remember those facts not only when planning a programme of school medical inspection, but also in view of solving the problem of pupils' accommodation in the schools.

The above remarks also show that the age of the population of a city or a country is a very unstable matter and that perturbations in birth rates are followed by deep variations in the composition of age groups and also in the death rates, because such rates are not the same at all ages. It follows that few cities or countries have the same age grouping of their population, and this fact must always be kept in mind when comparisons are made.

## V—STANDARDIZATION OF MORTALITY RATES

For a number of years, statisticians have endeavored to solve this problem and they are reaching that aim by adjusting the gross death rate of a given population to a population in which the age distribution is considered as normal or standard, and the comparison is made with one million of such a population.

Properly speaking, a standard distribution of population according to ages does not exist. Therefore when trying to adjust mortality rates, we are forced to make use, for our calculations, of a more or less arbitrary basis.

It is the population of England and Wales enumerated at the census of 1901 that is generally taken as a basis of comparison. It is the one we have adopted to standardize the mortality rate of this city in our previous reports and in this report for the year 1940.

It was seen last year, page 229 of our report, that nearly the same results can be obtained by taking as a basis of standardization the population of the Dominion of Canada in 1911, but we have not made up this calculation for the present report.

We said before that the gross rate of general mortality for 1940 is 10.25; the standardized rate being 11.09, gives an increase of 0.89.

It must also be noted that the calculation of the population of Montreal for the various age groups was based on the results of the 1931 census. As a rule the variations in the age grouping are not very great between two censuses; such variations however constitute a factor of error which must be kept in mind when reading the results.

## VI—DEATHS BY MONTHS

The number of deaths in 1940 was 9,296 which is an increase of 105 compared to the previous year and 66 compared to the mean number of the preceding five years.

## NUMBER OF DEATHS PER MONTH FROM 1935 TO 1940

## Comparison of 1940 with the five previous years

Months	1935	1936	1937	1938	1939	Mean 5 years	1940
January.....	784	825	868	795	785	811	762
February.....	802	754	946	758	879	828	761
March.....	951	798	883	863	1,021	903	819
April.....	840	758	876	876	821	834	782
May.....	934	784	925	829	833	861	778
June.....	682	722	750	734	663	710	730
July.....	626	669	738	653	731	684	760
August.....	664	654	748	679	616	672	659
September.....	636	695	754	701	680	693	698
October.....	682	741	727	730	714	719	750
November.....	734	756	676	746	657	714	773
December.....	827	778	847	761	791	801	1,024
Total.....	9,162	8,934	9,738	9,125	9,191	9,230	9,296
Mean.....	763.5	744.5	811.5	760.4	765.9	769.2	774.7
Per 1,000 population.....	10.6	10.2	11.0	10.2	10.2	10.4	10.2

The highest average daily incidence of deaths was in the month of December, with 33.0, while the daily average for the whole year was only 25.4. It can also be seen that, compared to the mean of the previous five years, the number of deaths in 1940 was higher for the months of June, July, September, October, November and December, and lower for the other months. One must also keep in mind that the average daily incidence of deaths was distributed over 366 days.

## VII—BIRTH REGISTRATION

In the report of the Health Department for the year 1933, page 278, we extensively explained the procedure to be followed to register a birth and the procedure adopted to collect statistics of births; I refer to that report for this information.

I have great pleasure in acknowledging the fact that nearly all the ministers of the churches continued faithfully, in 1940, to send to this office reports of the births they registered and I take this opportunity to offer them my most sincere and cordial thanks.

The number of births reported by the ministers of the churches in 1940 was 18,246. I must state however that a small number of them made no reports; in some other instances, the reports were incomplete and when checking each report received with the entries made in the registry books deposited at the Prothonotary's Office, we found that 467 births registered had not been reported to us, which is 2.5 per cent of all births registered during the year. This is the lowest percentage ever obtained and shows better co-operation from the clergy.

In the following table, churches are grouped according to religious denominations and the number of births reported to this office together with the number actually registered is given.

### BIRTH REGISTRATION

Religious Denominations	Births reported	Births registered	Difference	Percent of total
1. Roman Catholic churches:				
(a) French.....	13,775	13,899	124	0.89
(b) English.....	935	1,010	75	7.43
(c) Others.....	418	467	49	10.49
2. Anglican churches.....	729	860	131	15.23
3. United churches.....	588	644	56	8.70
4. Presbyterian churches...	242	248	6	2.42
5. Baptist churches.....	50	50	0	0.00
6. Other Protestant churches.....	156	157	1	0.64
7. Synagogues.....	668	689	21	3.05
8. Greek Orthodox churches.....	111	115	4	3.48
9. Municipal regist.....	574	574	0	0.00
Total.....	18,246	18,713	467	2.50

In the following table, the births are classified according to legitimacy, religious denominations of the parents, sex and racial origin.



LEGITIMATE AND  
Classified according to  
Legitimacy

Religious Denominations	Grand total	TOTAL		Sex	French
		Male	Female		
Roman Catholics:					
French.....	13,035	6,657	6,378	M F	6,401 6,172
English.....	971	494	477	M F	72 47
Others.....	459	225	234	M F	1 2
Anglicans.....	839	431	408	M F	19 20
Baptists.....	49	24	25	M F	3 3
Presbyterians.....	243	120	123	M F	3 3
United.....	618	305	313	M F	21 13
Other Protestants.....	139	59	80	M F	6 3
Synagogues.....	689	426	263	M F	.. ..
Greek Orthodox.....	115	57	58	M F	.. ..
Municipal.....	511	202	309	M F	28 27
Total—Legitimate.....	17,668	9,000	8,668	M F	6,554 6,290

## LEGITIMATE BIRTHS

ion, sex and racial origin

ns

	Scotch	Irish	Other British	Jews	Italian	Ruthenian Polish	Tzecho Slovak	Other races	Race unknown
9	19	41	..	1	65	8	2	61	..
8	12	41	..	..	60	2	2	41	..
5	44	214	1	..	6	2	1	19	..
1	55	213	1	1	11	4	1	13	..
.	1	1	..	..	113	17	11	81	..
1	..	1	..	..	130	22	8	70	..
1	37	50	7	1	3	..	..	13	..
9	38	33	7	2	5	1	..	13	..
3	4	3	..	..	1	..	..	..	..
6	3	2	..	..	..	..	..	1	..
7	46	16	2	..	4	..	1	1	..
9	36	7	..	1	2	1	..	4	..
4	58	16	5	1	1	3	1	45	..
8	67	11	4	..	4	4	3	39	..
8	5	5	1	..	3	4	3	24	..
2	6	5	1	..	4	2	1	26	..
.	..	..	..	426	..	..	..	..	..
.	..	..	..	263	..	..	..	..	..
.	..	..	..	..	..	..	..	57	..
.	..	..	..	..	..	..	..	58	..
9	29	10	1	16	3	1	2	13	..
3	11	12	..	141	3	4	3	15	..
6	243	356	17	445	199	35	21	314	..
7	228	325	13	408	229	40	18	280	..

## LEGITIMATE AND

Classified according to

Illegitimacy

Religious Denominations	Grand total	TOTAL		Sex	French
		Male	Female		
Roman Catholics:					
French.....	864	462	402	M F	42 37
English.....	39	19	20	M F	
Others.....	8	3	5	M F	
Anglicans.....	21	10	11	M F	
Baptists.....	1	..	1	M F	
Presbyterians.....	5	3	2	M F	
United.....	26	11	15	M F	
Other Protestants.....	18	6	12	M F	
Synagogues.....	..	..	..	M F	..
Greek Orthodox.....	..	..	..	M F	..
Municipal.....	63	25	38	M F	4 7
Total—Illegitimate.....	1,045	539	506	M F	436 391
Grand total.....	18,713	9,539	9,174	M F	6,990 6,681

## LEGITIMATE BIRTHS

by race, sex and racial origin

Males

	Scotch	Irish	Other British	Jews	Italian	Ruthenian Polish	Tzecho Slovak	Other races	Race unknown
3	4	11	..	..	5	..	..	4	..
9	1	9	..	..	2	1	1	5	..
5	4	5	..	..	..	..	..	..	..
3	3	6	..	..	..	1	..	2	..
..	..	..	..	..	1	1	..	..	..
..	..	..	..	..	..	..	..	3	..
7	..	..	1	..	..	..	..	1	..
0	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	..	..	1	..
..	1	..	1	..	..	..	..	..	..
6	..	1	..	1	..	..	..	3	..
7	2	..	..	..	..	..	..	4	..
3	..	1	..	..	..	..	..	2	..
8	1	..	..	..	..	..	1	1	..
..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..
3	3	2	..	1	..	..	1	1	..
0	..	2	1	4	1	..	..	3	..
8	12	20	1	2	6	1	1	12	..
8	8	17	2	4	3	2	2	19	..
4	255	376	18	447	205	36	22	326	..
5	236	342	15	412	232	42	20	299	..

Before concluding, I am glad to state that the staff of the Division of Demography worked faithfully and efficiently throughout the year.

The tables published as an appendix are arranged to show various aspects of statistical data; they are the same as those published for many years. I must say once more that all figures and rates, unless specifically stated otherwise, refer to the resident population only.

## DIVISION OF STATISTICS

### TABLE I

Nationalities	Sex		Total	Proportion per 100
	M	F		
French-Canadians . . . .	281,151	298,422	579,573	63.90%
British-Canadians . . . .	96,292	101,434	197,726	21.80%
Jews . . . . .	26,929	27,038	53,967	5.95%
Other nationalities . . . .	45,372	30,362	75,734	8.35%
TOTAL . . . . .	449,744	457,256	907,000	100.00%

### TABLE II

#### BIRTHS

Nationalities	Sex		Total	Proportion per 1,000 population
	M	F		
French-Canadians . . . .	6,990	6,681	13,671	23.58%
British-Canadians . . . .	1,513	1,488	3,001	15.18%
Jews . . . . .	447	412	859	15.92%
Other nationalities . . . .	589	593	1,182	15.61%
TOTAL . . . . .	9,539	9,174	18,713	20.63%

TABLE III

## DEATHS

(Still-births not included)

Nationalities	Sex		Total	Proportion per 1,000 population
	M	F		
French-Canadians . . . .	3,306	3,006	6,312	10.89%
British-Canadians . . . .	1,087	961	2,048	10.36%
Jews . . . . .	212	163	375	6.95%
Other nationalities and race unknown . . . .	365	196	561	7.41%
TOTAL . . . . .	4,970	4,326	9,296	10.25%

TABLE IV

## MARRIAGES

Nationalities	Total	Proportion per 1,000 population
French-Canadians . . . . .	8,049	13.9%
British-Canadians . . . . .	2,883	14.6%
Jews . . . . .	884	16.4%
Other nationalities . . . . .	510	6.7%
TOTAL . . . . .	12,326	13.6%

TABLE V

## BIRTHS AND MARRIAGES

(By place of registration)

	Births		Total	Marriages
	M	F		
Catholic Churches:				
French-Canadians. . . . .	7,119	6,780	13,899	7,783
Irish-Canadians. . . . .	513	497	1,010	947
Others. . . . .	228	239	467	347
TOTAL. . . . .	7,860	7,516	15,376	9,077
Protestant Churches:				
Anglicans. . . . .	441	419	860	809
Presbyterians. . . . .	123	125	248	314
United Churches. . . . .	316	328	644	932
Other protestants. . . . .	89	118	207	224
TOTAL. . . . .	969	990	1,959	2,279
Other denominations:				
Synagogues. . . . .	426	263	689	884
Orthodox Churches. . . . .	57	58	115	86
Births registered at the City Hall. . . . .	227	347	574	...
TOTAL. . . . .	710	668	1,378	970
GRAND TOTAL	9,539	9,174	18,713	12,326

TABLE VI  
DEATHS BY CIVIL STATUS AND NATIONALITIES, YEAR 1940

Civil status	French-Canadians		British-Canadians		Jews		Other nationalities and unknown nationalities		Total		Grand total	%
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
	Married.....	1,436 43.44	1,104 36.72	568 52.25	355 36.95	144 67.92	68 41.72	200 54.79	103 52.55	2,348 47.25		
Single.....	546 16.52	481 16.00	212 19.50	176 18.31	19 8.96	8 4.91	79 21.64	26 13.27	856 17.22	691 15.97	1,547 16.64	16.64
Widowers and widows....	603 18.23	881 29.32	213 19.60	368 38.29	34 16.04	75 46.01	42 11.51	37 18.87	892 17.95	1,361 31.46	2,253 24.24	24.24
Unknown.....	8 0.24	.....	9 0.83	.....	.....	.....	10 2.74	.....	27 0.54	.....	27 0.29	0.29
Children under 15 years.....	713 21.57	540 17.96	85 7.87	62 6.45	15 7.08	12 7.36	34 9.32	15.30 31	847 17.04	644 14.89	1,491 16.04	16.04
Total.....	3,306 100.00	3,006 100.00	1,087 100.00	961 100.00	212 100.00	163 100.00	365 100.00	196 100.00	4,970 100.00	4,326 100.00	9,296 100.00	100.00



TABLE VII

## COMPARATIVE TABLE OF BIRTHS AND DEATHS

Nationalities	Births	Deaths	Excess of births over deaths	Natural increase per 1,000 of population
French-Canadians . . . .	13,671	6,312	7,359	12.7%
British-Canadians . . . .	3,001	2,048	593	4.8%
Jews . . . . .	859	375	484	8.9%
Other nationalities . . . .	1,182	561	621	8.2%
TOTAL . . . . .	18,713	9,296	9,417	10.4%

TABLE VIII

## DEATHS OF CHILDREN UNDER 1 YEAR

Nationalities	Births	Deaths	Proportion per 1,000 Births
French-Canadians . . . . .	13,671	934	68.3%
British-Canadians . . . . .	3,001	111	37.0%
Jews . . . . .	859	19	22.1%
Other nationalities and race un- known . . . . .	1,182	46	38.9%
TOTAL . . . . .	18,713	1,110	59.3%

TABLE IX  
BIRTHS, MARRIAGES AND DEATHS  
From 1872 to 1940 inclusive

Years	Population	Deaths	Proportion per 1,000	Births	Proportion per 1,000	Marriages	Proportion per 1,000
Average from:							
1872 to 1883.....	134,505	4,131	30.71	6,057	45.29	1,327	9.88
1884 to 1888.....	180,951	5,589	30.88	7,653	42.29	1,826	10.09
1889 to 1893.....	219,802	5,527	25.14	9,292	42.27	2,143	9.75
1894 to 1898.....	244,794	6,010	24.55	9,796	40.05	2,033	8.30
1899 to 1903.....	272,603	6,873	25.21	9,925	36.41	2,483	9.11
1904 to 1908.....	339,158	7,782	22.94	12,481	36.80	3,503	10.33
1909 to 1913.....	459,281	9,937	21.63	17,705	38.50	4,930	10.73
1914 to 1918.....	533,501	11,103	20.81	20,373	38.18	6,128	9.61
1919 to 1923.....	618,561	10,477	16.96	20,704	33.48	6,864	10.12
1924 to 1928.....	690,300	9,983	14.46	21,124	30.60	6,287	9.11
1929 to 1933.....	809,000	10,269	12.69	20,107	24.85	6,383	7.89
1934 to 1938.....	874,200	9,183	10.51	17,952	20.53	7,623	8.72
1939.....	900,000	9,191	10.21	17,116	19.02	10,650	11.83
1940.....	907,000	9,296	10.25	18,713	20.63	12,326	13.59

TABLE  
DEATHS FROM

Month	January			February			March			April			May		
	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total
Whooping cough.....		2	2		2	2	2	2	4	3	3	6	2	2	
Tuberculosis.....				1	1	2									
Syphilis.....	1		1		1	1							1		
Influenza.....	2		2	2	1	3	4		4	1		1		3	
Measles.....											1	1		1	
Other epidemic diseases				1		1		1	1	2		2		2	
General diseases (Nos. 45 to 79).....	2	1	3	1	1	2		1	1	1		1	1		
Meningitis.....	2		2	1		1							1		
Convulsions.....				1		1	1		1		1	1			
Other diseases of the nervous system.....	6	3	9	1	3	4	1	3	4	3	4	7		1	
Diseases of the circulatory system.....	1		1	1		1									
Bronchitis.....											1	1			
Broncho-pneumonia.....	10	3	13	9	3	12	19	7	26	14	10	24	10	3	13
Pneumonia.....		1	1	3	1	4	1	2	3	2	1	3	1	1	
Other diseases of the respir- atory system.....	1		1	2	2	4	1		1	2	1	3			
Diseases of the stomach.....														1	
Diarrhœa.....	9	1	10	6	2	8	8	4	12	6	1	7	6	3	
Other diseases of the diges- tive system.....		1	1		1	1					1	1			
Diseases of the genito-uri- nary system.....		1	1	1		1								1	
Diseases of the skin, etc. (Nos. 151 to 156).....													2		
Malformations.....	6		6	7	1	8	12		12	11	4	15	10	1	11
Congenital debility.....	4		4	6		6	8		8	8		8	6		6
Premature birth.....	28		28	23		23	20		20	26		26	21		21
Result of confinement.....	6		6	6		6	5		5	4		4	5		5
Other diseases peculiar to early infancy.....	3	1	4	6		6	8		8	6		6	5		5
External causes.....							1		1	1		1			
Ill-defined causes.....										1		1			
Total.....	81	14	95	78	19	97	91	20	111	91	28	119	71	19	90

1 YEAR, 1940

Date	July			August			September			October			November			December			Grand Total			
	Total	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total			
3	3	7	1	6	5	2	7	3	3	6	2	1	3	3	6	9	2	...	2	29	27	56
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
1	2	2	...	2	1	...	1	2	...	2	1	...	1	1	...	1	1	...	1	11	2	13
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	14
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2
1	1	...	...	...	...	...	...	1	1	...	...	...	1	1	...	1	1	...	1	5	5	10
1	1	...	...	1	...	1	...	...	...	2	1	3	1	...	1	1	1	2	10	6	16	
1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	4	2	6	
...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	1	4	
1	1	...	1	1	1	2	3	2	1	3	2	...	2	3	2	5	8	2	10	27	23	50
...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	3
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
3	9	7	...	7	5	2	7	7	...	7	6	...	6	10	1	11	13	4	17	116	36	152
1	1	2	1	3	2	...	2	...	...	...	3	1	4	3	2	5	3	2	5	20	13	33
...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	3	11
1	2	...	1	1	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	2	3	5
1	6	7	6	13	7	6	13	8	8	16	5	2	7	3	...	3	10	2	12	80	36	116
...	...	...	...	...	...	...	...	...	...	...	2	1	3	...	...	...	1	...	1	3	4	7
1	1	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	1	...	1	3	3	6
...	...	...	...	1	...	1	1	1	...	1	1	...	1	...	...	...	...	...	...	5	...	5
1	15	7	1	8	11	...	11	9	1	10	9	...	9	12	2	14	10	1	11	118	12	130
...	12	4	...	4	3	...	3	4	...	4	2	...	2	3	...	3	11	...	11	71	...	71
...	17	21	...	21	23	...	23	22	...	22	33	...	33	23	...	23	17	...	17	274	...	274
...	3	5	...	5	2	...	2	5	...	5	3	...	3	5	...	5	3	...	3	52	...	52
...	5	7	...	7	6	...	6	1	...	1	9	...	9	5	...	5	2	...	2	63	1	64
1	1	...	1	1	...	...	...	...	...	...	...	...	...	1	1	2	...	...	...	3	3	6
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
17	81	73	12	85	68	12	80	65	14	79	81	6	87	74	14	88	84	14	98	921	189	1110

TABLE  
DEATHS OF ILLEGITIMATES

Place of death	Crèche de la Miséricorde					Crèche St. Paul					L'Aide à la Femme				
	0 to 3 mos.	3 to 6 mos.	6 to 1 year	Over 1 year	Total	0 to 3 mos.	3 to 6 mos.	6 to 1 year	Over 1 year	Total	0 to 3 mos.	3 to 6 mos.	6 to 1 year	Over 1 year	Total
Whooping-cough.....															
Diphtheria.....															
Tuberculosis.....									2	2					
Syphilis.....	4			1	5			1	1	2	1			1	
Grippe.....															
Measles.....															
Meningitis.....			1		1										
Bronchitis.....				1	1										
Broncho-pneumonia...	7	3	2	1	13	1				1	2	2			
Pneumonia.....	3	1			4			1	1	2					
Diarrhoea.....	14	10	2		26		1		2	3		1			
Malformations.....	8				8										
Premature birth.....	28				28						1				
Congenital debility...	29	2			31	1				1					
Other diseases of early infancy.....	12		1		13										
Infanticide.....															
Other causes.....	7	1	2	3	13									1	
Total.....	112	17	8	6	143	2	1	2	6	11	4	3	2		
Per cent (%).....	78.3	11.9	5.6	4.2	100.0	18.2	9.1	18.2	54.5	100.0	44.5	33.3	22.2		100.0

Number of births at "Misericordia"..... 571  
 Number of deaths at "Misericordia" and "St. Paul"..... 142  
 Proportion per 1,000 births..... 248.7

CHILDREN IN 1940

Protestant Institutions				Private boarding houses and maternities					Other places					Grand Total				
3 nos. to 6 nos.	6 mos. to 1 year	Over 1 year	Total	0 to 3 mos.	3 mos. to 6 mos.	6 mos. to 1 year	Over 1 year	Total	0 to 3 mos.	3 mos. to 6 mos.	6 mos. to 1 year	Over 1 year	Total	0 to 3 mos.	3 mos. to 6 mos.	6 mos. to 1 year	Over 1 year	Total
												1	1				1	1
																	2	2
										1			1	5	1	2	2	10
																	1	1
																	1	1
1			1						1		1		2	11	6	3	1	21
			1									1	1	4	1	1	2	8
									2				2	16	12	2	2	32
														8				8
			2	5				5	12				12	48				48
														30	2			32
				1				1	1				1	14		1		15
									4	2	2		8	11	3	5	3	22
1			4	6				6	20	3	4	1	28	147	25	16	13	201
25.0			100.0					100.0	71.4	10.7	14.3	3.6	100.0	73.1	12.4	8.0	6.5	100.0

**TABLE XII**  
**TOTAL OF DEATHS FROM 0 TO 1 YEAR,**  
**1939 AND 1940**

**From different causes**

Causes	1939			1940		
	0 to 6 mos.	6 to 12 mos.	Total	0 to 6 mos.	6 to 12 mos.	Total
Whooping cough.....	12	8	20	29	27	56
Tuberculosis.....	1	3	4	1	1	2
Syphilis.....	28	5	33	11	2	13
Influenza.....	24	17	41	9	5	14
Measles.....	4	17	21	..	2	2
Other epidemic diseases.....	7	2	9	5	5	10
General diseases (Nos. 45 to 77)..	7	2	9	10	6	16
Meningitis.....	7	4	11	4	2	6
Convulsions.....	6	2	8	3	1	4
Other diseases of the nervous system.....	22	22	44	27	23	50
Diseases of the circulatory system..	3	1	4	3	..	3
Bronchitis.....	4	..	4	..	1	1
Broncho-pneumonia.....	124	52	176	116	36	152
Pneumonia.....	14	11	25	20	13	33
Other diseases of the respiratory system.....	15	..	15	8	3	11
Diseases of the stomach.....	1	4	5	2	3	5
Diarrhœa.....	180	59	239	80	36	116
Other diseases of the digestive system.....	4	2	6	3	4	7
Diseases of the genito-urinary system.....	1	2	3	3	3	6
Diseases of the skin (Nos. 151 to 156).....	10	2	12	5	..	5
Malformations.....	96	6	102	118	12	130
Debility, icterus, etc. (Nos. 158 to 161).....	111	..	111	134	1	135
Premature birth.....	248	..	248	274	..	274
Result of confinement (No. 160)..	64	..	64	52	..	52
External causes.....	9	..	9	3	3	6
Ill-defined causes.....	..	..	..	1	..	1
Total.....	1,002	221	1,223	921	189	1,110

TABLE XIIa

## DEATHS FROM 0 TO 1 YEAR

## Legitimate and illegitimate children

## Rate per 1,000 births, 1914-1940

Years	Number of births		Number of deaths 0 to 1 year		Rate per 1,000 births		Total Mortality per 1,000 births	(*)
	Legitimate	Illegitimate	Legitimate	Illegitimate	Legitimate	Illegitimate		
1	2	3	4	5	6	7	8	9
1914.....	20,637	749	3,660	541	177.3	722.3	196.4	4.1
1915.....	19,945	747	3,233	546	162.1	730.9	182.6	4.5
1916.....	19,084	675	3,134	538	164.2	797.0	185.8	4.9
1917.....	19,038	626	2,872	616	150.8	984.0	177.4	6.5
1918.....	19,654	719	3,256	646	165.7	898.4	191.5	5.4
Average.....	19,672	703	3,231	577	164.2	820.8	185.1	5.0
1919.....	19,159	800	2,945	598	153.7	747.5	177.5	5.7
1920.....	20,305	875	3,375	697	166.3	796.6	192.2	4.8
1921.....	20,221	925	2,599	690	128.5	745.9	155.6	5.8
1922.....	19,663	1,057	2,538	766	129.1	724.7	159.4	5.6
1923.....	19,435	1,092	2,238	819	115.2	750.0	148.9	6.5
Average.....	19,757	950	2,739	714	138.6	751.6	166.8	5.6
1924.....	20,386	1,114	2,273	878	111.5	788.1	146.5	7.1
1925.....	20,805	1,171	2,221	469	106.8	400.8	122.4	3.8
1926.....	19,986	1,112	2,088	433	104.5	389.4	119.5	5.7
1927.....	19,893	847	2,031	394	102.1	465.2	116.9	4.6
1928.....	19,374	933	2,488	431	128.4	461.9	143.7	3.6
Average.....	20,089	1,035	2,220	521	110.5	503.4	129.8	4.6
1929.....	19,417	998	2,239	462	115.3	462.9	132.3	4.0
1930.....	19,974	1,019	2,162	458	108.3	449.4	124.8	4.1
1931.....	19,634	1,065	1,824	521	92.9	489.2	113.3	5.3
1932.....	18,965	1,032	1,525	454	80.4	439.9	98.9	5.4
1933.....	17,388	1,043	1,316	501	75.7	480.3	98.6	6.3
Average.....	19,076	1,031	1,813	479	95.0	484.6	113.9	4.9
Average 20 years.....	19,648	930	2,501	573	127.3	621.5	149.6	4.9
1934.....	17,495	938	1,375	299	78.6	318.8	90.8	4.1
1935.....	16,288	1,073	1,268	334	77.8	311.3	92.3	4.0
1936.....	15,761	964	1,053	351	66.8	364.1	83.9	5.4
1937.....	16,072	1,108	1,226	321	76.3	289.7	90.0	3.8
1938.....	16,075	987	1,057	263	65.8	266.5	77.4	4.1
Average.....	16,338	1,014	1,196	314	73.2	309.7	87.0	4.2
1939.....	16,050	1,066	916	307	57.1	288.0	71.5	5.0
1940.....	17,668	1,045	921	189	52.2	179.9	59.3	3.4

(\*) Quotient obtained by dividing the figures of column 7 by those of column 6.



TABLE XIII

Stillbirths, legitimate and illegitimate in 1940, causes of deaths, period of gestation and sex

Causes of mortality	6½ months			7 months			8 months			At full term			Grand total		
	M.	F.	Tot.	M.	F.	Tot.	M.	F.	Tot.	M.	F.	Tot.	M.	F.	Tot.
	I—Caused by disease in, or accident to, the mother:														
1—Chronic disease in the mother															
(a) Syphilis.....	1	1	2	..	..	..	2	..	2	2	2	4	4	3	7
(b) Other (tuberculosis, chronic nephritis, chronic heart disease, diabetes mellitus, chronic poisoning, etc.).....	1	..	1	1	..	1	2	..	2	2	..	2	6	..	6
2—Acute disease in, or accident to, the mother.....	3	4	7	10	3	13	20	20	40	15	5	20	48	32	80
(a) Toxemia during pregnancy.....	4	6	10	3	6	9	6	11	17	9	11	20	22	34	56
(b) Other (retroplacental hemorrhage, detachment of normally inserted placenta).....	2	2	4	4	3	7	3	3	6	3	1	4	7	3	10
3—Over-exertion.....	5	2	7	7	3	10	11	5	16	4	2	6	27	12	39
4—External violence.....	..	3	3	3	3	6	3	3	6	1	..	1	4	3	7
5—Others.....	..	1	1	1	1	2	1	1	2	1	1	2	2	2	4
6—Anomalies of the fetus, placenta, or cord.....	..	3	3	3	3	6	3	3	6	7	15	22	19	37	56
7—Congenital malformations incompatible with life.....	..	1	1	1	1	2	1	1	2	3	4	7	7	7	14
8—Vicious insertion of placenta.....	..	..	..	..	..	..	..	..	..	4	3	7	12	12	24
9—Other anomalies of the placenta and cord.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10—Death of the fetus by injury or other causes:	2	..	2	1	1	2	3	3	6	7	15	22	21	11	32
9—Abnormal presentation of the fetus.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10—Malformations of pelvis.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11—Prolapse of the cord.....	1	..	1	..	..	..	2	1	3	3	3	6	5	1	6
12—Prolonged labor or uterine inertia.....	1	..	1	1	1	2	4	1	5	13	7	20	18	8	26
13—Obstetrical operations.....	..	..	..	..	..	..	11	5	16	33	23	56	46	28	74
14—Other causes (malformations of the genital organs, pelvic tumors, ruptured uterus, etc.).....	..	..	..	..	1	1	5	1	6	8	5	13	13	7	20
IV—Stillbirth due to other causes:	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15—Other and unspecified causes.....	1	1	2	3	2	5	8	4	12	14	11	25	26	18	44
Total.....	20	20	40	37	29	66	94	75	169	143	95	238	294	219	513

TABLE XIIIa

**Premature, born under six and a half months gestation and not included  
in stillbirths statistics, year 1940**

Causes of mortality	Under 4 months			4 months			5 and 6 months			Grand total			
	M.	F.	Un.	M.	F.	Tot.	M.	F.	Tot.	M.	F.	Un.	Tot.
I—Caused by disease in, or accident to, the mother:													
1—Chronic disease in the mother:													
(a) Syphilis.....	3	..	..	1	..	1	2	1	3	6	1	..	7
(b) Other (tuberculosis, chronic nephritis, chronic heart disease, diabetes mellitus, chronic poisoning, etc.).....	4	1	2	4	..	4	6	6	12	14	7	2	23
2—Acute disease in, or accident to, the mother:													
(a) Toxemia during pregnancy.....	..	2	1	..	8	9	13	18	31	23	21	1	45
(b) Other (retroplacental hemorrhage, detachment of normally inserted placenta).....	11	1	3	15	9	14	23	11	34	43	17	3	63
3—Over-exertion.....	3	..	..	3	3	6	1	4	5	7	7	..	14
4—External violence.....	6	2	1	9	5	13	15	6	21	26	16	1	43
5—Others.....	15	6	8	29	11	21	32	27	59	58	43	8	109
II—Anomalies of the fetus, placenta, or cord:													
6—Congenital malformations incompatible with life.....	..	1	..	..	..	..	1	3	4	1	4	..	5
7—Vicious insertion of placenta.....	2	..	..	2	1	3	12	5	17	16	6	..	22
8—Other anomalies of the placenta and cord.....	..	..	..	..	1	1	6	..	6	7	..	..	7
III—Death of the fetus by injury or other causes:													
9—Abnormal presentation of the fetus.....	..	..	..	..	..	..	1	1	2	1	1	..	2
10—Malformations of pelvis.....	..	..	..	..	..	..	..	..	..	..	..	..	..
11—Prolapse of the cord.....	..	..	..	..	..	..	1	1	2	1	1	..	2
12—Prolonged labor or uterine inertia.....	..	..	..	..	..	..	..	..	..	..	..	..	..
13—Obstetrical operations.....	..	..	..	..	..	..	..	..	..	..	..	..	..
14—Other causes (malformations of the genital organs, pelvic tumors, ruptured uterus, etc.).....	..	..	..	..	..	..	..	..	..	..	..	..	..
IV—Stillbirth due to other causes:													
15—Other and unspecified causes.....	3	1	3	7	6	1	8	9	17	17	11	3	31
Total.....	49	14	18	81	50	29	79	94	215	220	137	18	375

TABLE  
DEATHS BY AGES

AGES		Legitimates					Total
		French-Canadians	British-Canadians	Jews	Other nationalities	Unknown	
Premature children.....	M	102	15	1	8	.....	126
	F	78	14	3	5	1	101
From 0 to 1 month.....	M	110	20	5	6	1	142
	F	77	15	4	8	1	105
From 1 month to 6 months.....	M	134	20	4	6	.....	164
	F	100	7	.....	4	.....	111
From 6 months to 1 year.....	M	92	3	.....	3	.....	98
	F	69	4	2	.....	.....	75
Total under 1 year.....	M	438	58	10	23	1	530
	F	324	40	9	17	2	392
From 1 year to 2 years.....	M	40	6	2	3	.....	51
	F	27	3	1	5	.....	36
From 2 years to 3 years.....	M	20	4	.....	2	.....	26
	F	22	3	1	1	.....	27
From 3 years to 4 years.....	M	22	1	.....	.....	.....	23
	F	16	.....	.....	1	.....	17
From 4 years to 5 years.....	M	15	1	.....	1	.....	17
	F	15	3	.....	1	.....	19
Total under 5 years.....	M	535	70	12	29	1	647
	F	404	49	11	25	2	491
From 5 years to 9 years.....	M	36	3	2	3	.....	44
	F	28	4	.....	1	.....	33
From 10 years to 14 years.....	M	32	5	1	.....	.....	38
	F	33	3	1	.....	.....	37
From 15 years to 19 years.....	M	48	9	2	6	.....	65
	F	56	7	.....	9	.....	72
From 20 years to 24 years.....	M	68	11	1	5	.....	85
	F	75	10	2	6	.....	93
From 25 years to 29 years.....	M	80	13	2	7	.....	102
	F	93	17	3	8	.....	121
From 30 years to 34 years.....	M	72	14	6	5	.....	97
	F	83	29	2	8	.....	122
From 35 years to 39 years.....	M	95	34	6	21	.....	156
	F	101	27	3	10	.....	141
From 40 years to 44 years.....	M	128	43	7	23	1	202
	F	136	31	6	17	.....	190
From 45 years to 49 years.....	M	166	60	10	44	1	281
	F	145	39	6	11	.....	201
From 50 years to 54 years.....	M	207	90	20	40	.....	357
	F	157	64	8	16	.....	245
From 55 years to 59 years.....	M	243	125	32	56	.....	456
	F	180	71	14	29	.....	294
From 60 years to 64 years.....	M	285	130	40	43	.....	498
	F	212	70	26	16	.....	324
From 65 years to 69 years.....	M	328	137	22	34	.....	521
	F	224	92	31	11	1	359
From 70 years to 79 years.....	M	585	225	32	35	.....	877
	F	615	267	36	13	.....	931
From 80 years to 89 years.....	M	262	96	15	10	.....	383
	F	346	147	11	11	.....	515
90 years and over.....	M	26	15	2	.....	.....	43
	F	43	28	3	.....	.....	74
Total over 5 years.....	M	2,661	1,010	200	332	2	4,205
	F	2,527	906	152	166	1	3,752
Grand total.....	M	3,196	1,080	212	361	3	4,852
	F	2,931	955	163	191	3	4,243

AR 1940

	Illegitimates				Total	Sex		Grand total	Percentage of total deaths
	British-Canadians	Jews	Other nationalities	Unknown		Male	Female		
55	2	.....	.....	.....	27				
7	2	.....	1	.....	20	153	121	274	2.95
55	1	.....	.....	.....	26				
5	3	.....	.....	.....	18	168	123	291	3.13
8	4	.....	1	.....	43				
66	1	.....	1	.....	38	207	149	356	3.83
3	.....	.....	.....	.....	13				
3	.....	.....	.....	.....	3	111	78	189	2.03
01	7	.....	1	.....	109				
71	6	.....	2	.....	79	639	471	1,110	11.94
6	.....	.....	.....	.....	6				
2	.....	.....	.....	.....	2	57	38	95	1.02
2	.....	.....	.....	.....	2	28	29	57	0.61
2	.....	.....	.....	.....	2	23	17	40	0.43
1	.....	.....	.....	.....	1	18	19	37	0.40
10	7	.....	1	.....	118				
75	6	.....	2	.....	83	765	574	1,339	14.40
..	.....	.....	.....	.....	.....	44	33	77	0.83
..	.....	.....	.....	.....	.....	38	37	75	0.81
..	.....	.....	.....	.....	.....	65	72	137	1.48
..	.....	.....	.....	.....	.....	85	93	178	1.91
..	.....	.....	.....	.....	.....	102	121	223	2.40
..	.....	.....	.....	.....	.....	97	122	219	2.36
..	.....	.....	.....	.....	.....	156	141	297	3.19
..	.....	.....	.....	.....	.....	202	190	392	4.22
..	.....	.....	.....	.....	.....	281	201	482	5.18
..	.....	.....	.....	.....	.....	357	245	602	6.47
..	.....	.....	.....	.....	.....	456	294	750	8.07
..	.....	.....	.....	.....	.....	498	324	822	8.84
..	.....	.....	.....	.....	.....	521	359	880	9.47
..	.....	.....	.....	.....	.....	877	931	1,808	19.45
..	.....	.....	.....	.....	.....	383	515	898	9.66
..	.....	.....	.....	.....	.....	43	74	117	1.26
..	.....	.....	.....	.....	.....	4,205	3,752	7,957	85.60
10	7	.....	1	.....	118				
75	6	.....	2	.....	83	4,970	4,326	9,296	100.00

**TABLE XV**  
**DEATHS BY AGES, NATIONALITIES AND MONTHS, FOR 1940**

Nationalities:	French-Canadians		British-Canadians		Jews		Other nationalities		Unknown		Grand total	
	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%
January:												
Under 5 years.....	98	19.10	7	3.80	2	6.90	3	8.33	.....	.....	110	14.44
Over 5 years.....	415	80.90	177	96.20	27	93.10	33	91.67	.....	.....	652	85.56
Total.....	513	100.00	184	100.00	29	100.00	36	100.00	.....	.....	762	100.00
February:												
Under 5 years.....	105	21.17	16	8.56	1	3.12	4	8.70	.....	.....	126	16.56
Over 5 years.....	391	78.83	171	91.44	31	96.88	42	91.30	.....	.....	635	83.44
Total.....	496	100.00	187	100.00	32	100.00	46	100.00	.....	.....	761	100.00
March:												
Under 5 years.....	97	17.45	17	10.06	3	6.98	7	14.29	.....	50.00	125	15.26
Over 5 years.....	459	82.55	152	89.94	40	93.02	42	85.71	.....	50.00	694	84.74
Total.....	556	100.00	169	100.00	43	100.00	49	100.00	.....	100.00	819	100.00
April:												
Under 5 years.....	108	20.04	14	8.75	3	10.71	4	7.41	.....	100.00	130	16.62
Over 5 years.....	431	79.96	146	91.25	25	89.29	50	92.59	.....	.....	652	83.38
Total.....	539	100.00	160	100.00	28	100.00	54	100.00	.....	100.00	782	100.00
May:												
Under 5 years.....	96	17.30	9	6.04	.....	.....	4	9.52	.....	100.00	110	14.14
Over 5 years.....	459	82.70	140	93.96	31	100.00	38	90.48	.....	.....	668	85.86
Total.....	555	100.00	149	100.00	31	100.00	42	100.00	.....	100.00	778	100.00
June:												
Under 5 years.....	86	17.17	8	4.97	2	6.67	3	8.11	.....	.....	99	13.56
Over 5 years.....	415	82.83	153	95.03	28	93.33	34	91.89	.....	100.00	631	86.44
Total.....	501	100.00	161	100.00	30	100.00	37	100.00	.....	100.00	730	100.00
July:												
Under 5 years.....	92	18.07	8	4.68	3	8.82	2	4.35	.....	.....	105	13.82
Over 5 years.....	417	81.93	163	95.32	31	91.18	44	95.65	.....	.....	655	86.18
Total.....	509	100.00	171	100.00	34	100.00	46	100.00	.....	.....	760	100.00

TABLE XV—(Continued)

## DEATHS BY AGES, NATIONALITIES AND MONTHS, FOR 1940

Nationalities:	French-Canadians		British-Canadians		Jews		Other nationalities		Unknown		Grand total	
	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%
August:												
Under 5 years.....	75	16.63	12	8.82	25	100.00	7	15.22	1	100.00	94	14.26
Over 5 years.....	376	83.37	124	91.18			39	84.78			565	85.74
Total.....	451	100.00	136	100.00	25	100.00	46	100.00	1	100.00	659	100.00
September:												
Under 5 years.....	86	18.49	8	5.16	2	8.00	10	18.87			106	15.19
Over 5 years.....	379	81.51	147	94.84	23	92.00	43	81.13			592	84.81
Total.....	465	100.00	155	100.00	25	100.00	53	100.00			698	100.00
October:												
Under 5 years.....	89	17.38	13	7.93	2	6.06	5	12.20			109	14.53
Over 5 years.....	423	82.62	151	92.07	31	93.94	36	87.80			641	85.47
Total.....	512	100.00	164	100.00	33	100.00	41	100.00			750	100.00
November:												
Under 5 years.....	83	16.27	12	6.35	3	8.57	4	10.26			102	13.20
Over 5 years.....	427	83.73	177	93.65	32	91.43	35	89.74			671	86.80
Total.....	510	100.00	189	100.00	35	100.00	39	100.00			773	100.00
December:												
Under 5 years.....	109	15.46	8	3.59	2	6.67	4	6.06			123	12.01
Over 5 years.....	596	84.54	215	96.41	28	93.33	62	93.94			901	87.99
Total.....	705	100.00	223	100.00	30	100.00	66	100.00			1,024	100.00
Total:												
Under 5 years.....	1,124	17.81	132	6.45	23	6.13	57	10.27	3	50.00	1,339	14.40
Over 5 years.....	5,188	82.19	1,916	93.55	352	93.87	498	89.73	3	50.00	7,957	85.60
Grand Total.....	6,312	100.00	2,048	100.00	375	100.00	555	100.00	6	100.00	9,296	100.00

TABLE  
DEATHS BY CIVIL STATUS

WARDS	0 to 6 months	6 months to 1 year	1 year to 4 years	5 years to 14 years	15 to 49 years			
					Married	Widowed	Single	Unknown
Ahuntsic-Bordeaux.....	13	1	2	1	17	...	13	..
Bourget.....	35	7	12	4	42	3	31	..
Crémazie.....	13	8	5	2	39	5	33	..
Delorimier.....	44	5	6	5	68	...	34	..
Hochelaga.....	19	7	10	6	32	1	26	..
Lafontaine.....	5	2	1	3	10	...	14	..
Laurier.....	16	4	2	3	28	...	23	..
Maisonneuve.....	34	9	5	7	46	4	33	..
Mercier.....	16	1	6	6	23	...	17	..
Montcalm.....	19	6	5	2	22	...	11	..
Mount Royal.....	9	1	4	...	19	...	6	..
Notre Dame de Grace.....	18	2	7	2	48	1	23	..
Papineau.....	28	7	9	8	21	...	21	..
Préfontaine.....	24	11	5	6	24	1	15	..
Rosemount.....	43	5	12	6	54	4	23	..
St. Andrew.....	7	...	...	2	19	...	16	..
St. Ann.....	21	2	5	1	23	2	19	..
Ste. Cunégonde.....	27	5	10	8	27	...	17	..
St. Denis.....	17	3	7	9	30	1	14	..
St. Edward.....	26	7	8	5	36	1	36	..
St. Eusèbe.....	24	8	4	2	34	1	13	..
St. Gabriel.....	25	4	9	...	26	1	21	..
St. George.....	8	2	...	...	12	2	20	..
St. Henry.....	42	11	14	11	42	2	27	..
St. James.....	31	7	6	4	40	3	18	..
St. John.....	30	8	5	6	28	...	23	..
St. Jean Baptiste.....	17	6	6	3	37	4	20	..
St. Joseph.....	12	...	3	4	18	1	12	1
St. Lawrence.....	15	3	3	3	34	2	31	1
St. Louis.....	15	3	2	3	25	1	16	..
St. Mary.....	17	8	5	7	24	1	13	..
St. Michael.....	11	1	3	1	25	1	14	..
St. Paul.....	29	8	10	3	35	1	25	..
Villemarie.....	8	...	7	1	11	1	14	..
Villeray.....	55	14	17	14	64	2	31	..
Unknown.....	3	...	...	...	...	...	1	2
Institutions.....	145	13	14	4	12	3	55	..
Total.....	921	189	229	152	1,095	49	779	4

## BY WARDS, IN 1940

50 to 69 years			70 years and over				Total				Grand total
Widowed	Single	Unknown	Married	Widowed	Single	Unknown	Married	Widowed	Single	Unknown	
8	3	..	23	25	4	..	81	33	37	..	151
22	7	..	41	43	6	..	144	68	102	..	314
19	32	1	11	30	6	..	89	54	99	1	243
33	10	..	56	69	13	..	224	102	117	..	443
22	9	..	23	45	6	..	96	68	83	..	247
9	3	..	16	21	3	..	52	30	31	..	113
15	8	..	17	31	6	..	93	46	62	..	201
28	6	..	30	55	4	..	137	87	98	..	322
6	3	..	22	22	1	..	79	28	50	..	157
19	2	..	14	18	2	1	84	37	47	1	169
11	1	..	7	18	2	..	60	29	23	..	112
43	19	..	60	91	12	..	250	135	83	..	468
19	7	..	18	45	5	..	83	64	85	..	232
12	5	..	18	28	..	..	74	41	66	..	181
24	6	..	39	57	6	..	181	85	101	..	367
24	23	..	30	61	26	..	109	85	74	..	268
10	13	..	27	23	9	..	85	35	70	..	190
18	5	..	15	30	5	..	85	48	77	..	210
17	9	..	30	37	6	..	111	55	65	..	231
20	8	1	34	48	7	..	144	69	97	1	311
8	6	..	19	36	2	..	89	45	59	..	193
15	6	..	18	28	3	1	100	44	68	1	213
13	22	1	15	31	23	2	63	46	75	3	187
16	12	..	37	47	6	..	150	65	123	..	338
36	17	..	30	57	12	..	125	96	95	..	316
23	4	..	28	18	3	..	113	41	79	..	233
29	10	1	36	55	5	..	142	88	67	1	298
6	17	3	9	13	5	..	54	20	53	4	131
23	29	2	17	38	16	..	105	63	100	3	271
22	8	..	17	21	2	..	82	44	49	..	175
6	9	..	20	28	2	..	78	35	61	..	174
23	7	..	36	48	4	..	121	72	41	..	234
19	3	..	42	43	1	..	135	63	79	..	277
3	12	..	13	29	9	1	44	33	51	1	129
26	10	..	54	96	12	..	244	124	153	..	521
...	2	2	...	...	1	..	1	...	7	4	12
25	78	4	24	147	102	3	71	175	411	7	664
672	431	15	946	1,532	337	8	3,978	2,253	3,038	27	9,296



## DEATHS OF CHILDREN UNDER FIVE YEARS

By sex and

WARDS	DEATHS							
	Grand total	0 to 1 year			Per-centage of total deaths	1 to 5 years		
		M	F	Total		M	F	Total
Ahuntsic.....	151	11	3	14	9.3	2	...	...
Bourget.....	314	23	19	42	13.4	7	5	1
Crémazie.....	243	13	8	21	8.6	3	2	...
Delorimier.....	443	32	17	49	11.1	3	3	...
Hochelaga.....	247	15	11	26	10.5	7	3	1
Lafontaine.....	113	2	5	7	6.2	1	...	...
Laurier.....	201	8	12	20	9.9	1	1	...
Maisonneuve.....	322	27	16	43	13.3	4	1	...
Mercier.....	157	12	5	17	10.8	4	2	...
Montcalm.....	169	18	7	25	14.8	3	2	...
Mount Royal.....	112	6	4	10	8.9	...	4	...
Notre Dame de Grace.....	468	8	12	20	4.3	3	4	...
Papineau.....	232	16	19	35	15.1	4	5	...
Préfontaine.....	181	21	14	35	19.3	2	3	...
Rosemount.....	367	28	20	48	13.1	4	8	12
St. Andrew.....	268	4	3	7	2.6	...	...	...
St. Ann.....	190	18	5	23	12.1	4	1	...
Ste. Cunégonde.....	210	16	16	32	15.2	4	6	10
St. Denis.....	231	11	9	20	8.7	4	3	7
St. Edward.....	311	18	15	33	10.6	5	3	8
St. Eusèbe.....	193	20	12	32	16.6	4	...	4
St. Gabriel.....	213	16	13	29	13.6	6	3	9
St. George.....	187	4	6	10	5.3	...	...	...
St. Henry.....	338	26	27	53	15.7	5	9	14
St. James.....	316	22	16	38	12.0	4	2	6
St. John.....	233	16	22	38	16.3	3	2	5
St. Jean Baptiste.....	298	11	12	23	7.7	4	2	6
St. Joseph.....	131	9	3	12	9.2	2	1	3
St. Lawrence.....	271	9	9	18	6.6	...	3	3
St. Louis.....	175	12	6	18	10.3	1	1	2
St. Mary.....	174	13	12	25	14.4	4	1	5
St. Michael.....	234	9	3	12	5.1	3	...	3
St. Paul.....	277	25	12	37	13.4	3	7	10
Villemarie.....	129	2	6	8	6.2	5	2	7
Villeray.....	521	38	31	69	13.2	8	9	17
Unknown.....	12	1	2	3	25.0	...	...	...
Institutions.....	664	99	59	158	23.8	9	5	14
Total.....	9,296	639	471	1,110	11.9	126	103	229

II

## COMPARED TO THE TOTAL OF DEATHS

Deaths, in 1940

DEATHS								
Percentage of total deaths	0 to 5 years			Percentage of total deaths	Over 5 years			Percentage of total deaths
	M	F	Total		M	F	Total	
1.3	13	3	16	10.6	70	65	135	89.4
1.8	30	24	54	17.2	130	130	260	82.8
2.1	16	10	26	10.7	145	72	217	89.3
2.4	35	20	55	12.5	186	202	388	87.5
3.0	22	14	36	14.5	109	102	211	85.5
3.9	3	5	8	7.1	48	57	105	92.9
4.0	9	13	22	10.9	82	97	179	89.1
4.6	31	17	48	14.9	141	133	274	85.1
4.8	16	7	23	14.6	82	52	134	85.4
5.0	21	9	30	17.8	73	66	139	82.2
5.6	6	8	14	12.5	52	46	98	87.5
5.5	11	16	27	5.8	220	221	441	94.2
5.9	20	24	44	19.0	104	84	188	81.0
6.2	23	17	40	22.1	73	68	141	77.9
6.3	32	28	60	16.4	156	151	307	83.7
6.4	4	3	7	2.6	124	137	261	97.4
6.6	22	6	28	14.7	103	59	162	85.3
6.8	20	22	42	20.0	90	78	168	80.0
7.0	15	12	27	11.7	105	99	204	88.3
7.6	23	18	41	13.2	137	133	270	86.8
7.7	24	12	36	18.7	70	87	157	81.3
7.8	22	16	38	17.8	103	72	175	82.2
7.9	4	6	10	5.3	115	62	177	94.7
8.1	31	36	67	19.8	136	135	271	80.2
8.1	26	18	44	13.9	148	124	272	86.1
8.1	19	24	43	18.4	102	88	190	81.6
8.2	15	14	29	9.7	137	132	269	90.3
8.3	11	4	15	11.5	78	38	116	88.5
8.4	9	12	21	7.7	149	101	250	92.3
8.4	13	7	20	11.7	83	72	155	88.3
8.5	17	13	30	17.2	77	67	144	82.8
8.6	12	3	15	6.4	128	91	219	93.6
8.7	28	19	47	17.0	126	104	230	83.0
8.8	7	8	15	11.6	78	36	114	88.4
8.9	46	40	86	16.5	215	220	435	83.5
9.0	1	2	3	25.0	9	...	9	75.0
9.1	108	64	172	25.9	221	271	492	74.1
9.2	765	574	1,339	14.4	4,205	3,752	7,957	85.6

TABLE  
DEATHS BY CERTAIN

WARDS	Typhoid fever	Scarlet fever	Whooping cough	Diphtheria	Tuberculosis, pulmonary	Tuberculosis, other forms	Influenza	Measles	Other contagious diseases	Cancer
	1	2	3	4	5	6	7	8	9	10
1—Ahuntsic.....	...	1	...	...	7	...	2	...	2	...
2—Bourget.....	...	...	3	...	22	3	2	...	7	...
3—Crémazie.....	...	...	4	1	25	1	1	...	9	...
4—Delorimier.....	2	...	4	...	20	4	8	...	10	...
5—Hochelaga.....	1	...	1	1	19	2	5	...	6	...
6—Lafontaine.....	1	...	1	...	5	1	1	...	3	...
7—Laurier.....	...	...	1	...	7	1	4	...	1	...
8—Maisonneuve.....	...	1	1	...	25	...	3	...	3	...
9—Mercier.....	...	...	2	1	11	4	2	...	1	...
10—Montealm.....	...	...	...	...	8	1	4	...	2	...
11—Mount Royal.....	...	...	1	...	4	1	...	...	1	...
12—Notre Dame de Grace.....	...	...	...	...	14	3	5	...	6	...
13—Papineau.....	...	1	3	1	18	2	4	...	3	...
14—Préfontaine.....	1	...	3	...	17	4	...	...	4	...
15—Rosemount.....	...	1	4	...	16	3	4	...	4	...
16—St. Andrew.....	1	1	...	...	8	3	3	...	5	...
17—St. Ann.....	...	...	1	1	9	2	4	...	4	...
18—St. Cunégonde.....	1	...	3	2	13	4	2	...	2	...
19—St. Denis.....	...	1	5	...	6	...	4	...	6	...
20—St. Edward.....	...	...	1	...	20	2	7	...	3	...
21—St. Eusèbe.....	...	...	2	...	10	...	1	...	3	...
22—St. Gabriel.....	1	...	3	...	8	1	2	...	5	...
23—St. George.....	...	...	...	...	11	...	...	...	2	...
24—St. Henry.....	1	1	2	...	14	2	6	1	7	...
25—St. James.....	2	...	5	...	16	1	3	...	3	...
26—St. John.....	1	...	1	1	11	6	5	...	2	...
27—St. Jean Baptiste.....	...	...	1	...	19	4	5	1	6	...
28—St. Joseph.....	1	1	2	1	6	...	1	...	3	...
29—St. Lawrence.....	...	...	...	...	26	1	4	...	10	...
30—St. Louis.....	...	...	...	...	10	...	3	...	4	...
31—St. Mary.....	...	...	4	...	9	2	5	...	2	...
32—St. Michael.....	...	...	1	...	9	...	3	...	1	...
33—St. Paul.....	1	...	5	2	21	4	3	...	3	...
34—Villemarie.....	...	...	3	...	11	...	...	...	1	...
35—Villeray.....	1	...	4	...	23	4	6	...	10	...
36—Unknown.....	...	...	...	...	1	1	...	...	...	...
37—Institutions.....	...	...	1	...	31	4	4	...	24	5
Total.....	15	8	72	11	510	71	116	2	168	1,24

## III

## DISEASES, BY WARDS, IN 1940

Cerebral hemorrhage	Endocarditis and myocarditis	Pneumonia	Enteritis	Nephritis	Puerperal state	Diseases of early infancy	Violence			Others	Total
							Suicide	Homicide	Accidents		
12	13	14	15	16	17	18	19	20	21	22	23
2	21	3	2	23	1	8	1	...	4	38	151
5	38	6	9	53	2	17	...	...	13	89	314
4	34	6	2	27	1	9	1	1	7	71	243
7	80	2	6	61	5	21	2	...	11	125	443
3	22	5	1	36	1	9	...	...	6	93	247
1	13	1	...	23	...	3	...	...	3	35	113
2	29	4	...	25	...	9	3	...	3	70	201
9	39	11	6	45	5	15	1	...	12	94	322
3	21	...	2	20	1	8	1	1	10	46	157
3	19	2	3	17	3	11	1	...	5	64	169
2	13	6	...	4	2	5	1	...	6	47	112
12	47	5	...	38	1	12	6	...	11	224	468
1	30	2	10	30	1	13	...	...	9	69	232
3	14	7	4	28	1	12	...	...	6	57	181
9	41	12	6	42	5	16	1	1	7	125	367
2	26	8	1	19	1	3	5	...	10	130	268
4	18	6	...	18	1	10	3	2	7	64	190
1	25	4	1	28	...	12	...	...	9	72	210
6	25	5	2	38	2	8	2	...	7	79	231
1	32	5	2	52	1	13	...	1	10	106	311
1	27	3	5	24	5	8	1	...	7	69	193
5	30	6	2	19	1	6	1	1	11	80	213
3	25	2	...	10	3	6	5	...	9	75	187
6	58	5	5	46	4	21	...	...	15	88	338
8	35	6	5	50	2	14	5	1	8	96	316
4	27	4	2	30	2	15	1	1	15	80	233
4	35	6	...	45	2	8	4	...	4	108	298
2	12	3	...	17	1	4	3	...	8	50	131
4	30	6	3	20	3	10	5	2	11	95	271
5	19	4	3	10	...	9	4	...	9	60	175
3	26	3	3	24	3	12	1	...	5	42	174
5	26	7	...	17	1	3	1	...	4	110	234
3	27	6	6	45	2	17	...	...	9	76	277
4	22	4	2	22	1	2	...	...	3	40	129
6	77	11	6	83	6	31	...	...	11	164	521
...	1	...	...	...	...	2	...	1	3	3	12
14	99	17	29	64	...	79	1	...	4	229	664
157	1,163	193	128	1,153	70	461	60	12	292	3,163	9,296

TABLE XIX  
DEATHS BY AGES, QUARTERS OR SEASONS, IN 1940

AGES	1st quarter (Winter)				2nd quarter (Spring)				3rd quarter (Summer)				4th quarter (Autumn)				Grand total for year Total
	January	February	March	Total 1st quarter	April	May	June	Total 2nd quarter	July	August	September	Total 3rd quarter	October	November	December	Total 4th quarter	
From 0 to 1 month.....	45	48	51	144	51	48	43	142	45	47	42	134	57	48	40	145	565
From 1 to 6 months.....	36	30	40	106	40	23	21	84	28	21	23	72	24	26	44	94	356
From 6 months to 1 year....	14	19	20	53	28	19	17	64	12	12	14	38	6	14	14	34	189
From 1 to 2 years.....	3	9	9	21	4	8	8	20	10	4	10	24	13	8	9	30	95
From 2 to 3 years.....	8	6	2	16	4	5	4	13	5	3	12	20	2	2	4	8	57
From 3 to 4 years.....	4	5	2	11	1	4	1	6	3	5	4	12	4	1	6	11	40
From 4 to 5 years.....	..	9	1	10	2	3	5	10	2	2	1	5	3	3	6	12	37
Total under 5 years.....	110	126	125	361	130	110	99	339	105	94	106	305	109	102	123	334	1,339
Over 5 years.....	652	635	694	1,981	652	668	631	1,951	655	565	592	1,812	641	671	901	2,213	7,957
GRAND TOTAL.....	762	761	819	2,342	782	778	730	2,290	760	659	698	2,117	750	773	1,024	2,547	9,296
GRAND TOTAL in 1939.....	785	879	1,021	2,695	821	833	663	2,317	731	616	680	2,027	714	657	791	2,162	9,191
" " in 1938.....	795	758	863	2,416	876	829	734	2,439	653	679	701	2,033	730	746	761	2,237	9,125
" " in 1937.....	868	946	883	2,697	876	925	750	2,551	738	748	754	2,240	727	676	847	2,250	9,738
" " in 1936.....	825	754	798	2,377	758	784	722	2,264	669	654	695	2,018	741	756	778	2,275	8,934
" " in 1935.....	784	802	951	2,537	840	934	682	2,456	626	664	636	1,926	682	734	827	2,243	9,162

TABLE XX  
DEATHS FROM CERTAIN CONTAGIOUS DISEASES  
AND ENTERITIS BY MONTHS, YEAR 1940

Causes of death	January	February	March	April	May	June	July	August	September	October	November	December	Total
Typhoid fever.....	..	..	2	1	1	..	..	4	2	1	..	4	15
Scarlet fever.....	..	2	2	..	..	..	..	1	..	1	..	1	8
Whooping cough.....	2	2	5	8	7	3	8	9	8	7	11	2	72
Diphtheria.....	1	1	1	..	..	1	2	2	..	..	2	1	11
Influenza.....	11	9	13	3	6	1	1	2	4	1	2	63	116
Measles.....	..	..	..	1	1	..	..	..	..	..	..	..	2
Erysipelas.....	..	1	2	..	2	1	..	..	..	..	1	1	8
Poliomyelitis.....	..	..	..	..	..	..	..	..	..	..	..	..	..
Meningitis C.S.....	..	1	..	2	1	..	1	1	..	..	..	1	7
Pulmonary tuberculosis.....	45	37	40	44	46	48	60	41	31	36	38	44	510
Tuberculosis, other forms.....	2	6	10	10	9	7	6	8	5	1	4	3	71
Acrodynia.....	..	..	..	..	..	..	..	..	..	..	..	..	..
Mumps.....	1	..	..	..	..	..	..	..	..	..	..	..	1
German measles.....	..	..	..	..	..	..	..	..	..	..	..	..	..
Varicella.....	..	1	..	1	2	1	..	..	..	..	1	..	6
Others.....	7	14	7	9	15	14	14	14	15	10	12	15	146
Total.....	69	74	82	79	90	76	92	82	65	57	72	135	973
Enteritis.....	10	9	13	7	9	7	14	13	18	10	5	13	128
Grand total.....	79	83	95	86	99	83	106	95	83	67	77	148	1,101

**TABLE XXI**  
**DEATHS FROM CERTAIN DISEASES**  
 Average number and proportion per 100,000 population

Periods of years	(*)	Typhoid	Smallpox	Measles	Whooping cough	Scarlet fever	Diphtheria	Tuberculosis		Cancer	Diarrhoea	Bright's disease
								Pulmonary	Other forms			
1881-1885	No.	95	634	42	38	38	214	434	..	58	523	..
	Rate	61.9	413.1	27.4	24.7	24.7	139.4	282.7	..	40.7	340.7	..
1886-1890	No.	82	15	59	46	15	304	513	..	84	699	..
	Rate	41.0	7.5	29.5	23.0	7.5	151.9	256.3	..	42.4	349.3	..
1891-1895	No.	50	..	40	67	155	114	547	..	106	806	..
	Rate	21.8	..	17.4	28.8	67.6	49.7	238.5	..	46.2	351.4	..
1896-1900	No.	68	5	47	87	62	182	680	..	163	663	..
	Rate	26.6	1.9	18.4	31.7	24.3	71.3	266.3	..	63.5	359.6	..
1901-1905	No.	91	3	68	77	70	89	616	168	181	1070	126
	Rate	31.7	1.0	23.7	26.4	24.4	31.0	214.7	57.0	63.1	373.0	42.7
1906-1910	No.	156	..	85	97	67	114	683	186	247	1822	232
	Rate	40.0	..	21.8	24.9	17.2	29.3	175.3	47.7	63.4	467.6	59.5
1911-1915	No.	108	1	66	90	90	157	969	183	341	2249	402
	Rate	21.9	0.2	13.4	18.2	18.2	31.8	176.2	37.1	69.1	455.9	81.5
1916-1920	No.	89	1	63	109	69	174	929	194	422	1844	509
	Rate	16.1	0.2	11.4	19.1	12.5	31.5	168.4	35.2	76.5	334.3	92.2
1921-1925	No.	55	..	45	95	78	134	785	165	532	1382	612
	Rate	8.4	..	6.9	14.5	11.9	20.4	119.6	25.2	81.1	210.7	93.3
1926-1930	No.	139	..	37	87	46	143	798	157	681	1028	726
	Rate	18.4	..	4.9	11.5	6.1	18.9	105.7	20.8	90.2	136.2	96.2
1931-1935	No.	28	..	33	74	31	39	661	118	919	632	845
	Rate	3.3	..	3.9	8.8	3.7	4.6	78.4	13.9	108.9	74.8	100.2
1936	No.	8	..	40	40	20	18	627	119	990	231	1003
	Rate	0.9	..	4.6	4.6	2.3	2.1	71.7	13.6	113.2	26.4	114.6
1937	No.	16	..	84	99	17	26	615	111	1031	376	994
	Rate	1.8	..	9.5	11.2	1.9	2.9	69.5	12.5	116.5	42.5	112.3
1938	No.	17	..	38	41	17	26	585	83	1099	208	975
	Rate	1.9	..	4.3	4.6	1.9	2.9	65.2	9.3	123.1	23.3	109.2
1939	No.	9	..	42	30	8	19	542	89	1141	256	1104
	Rate	1.0	..	4.7	3.3	0.9	2.1	60.2	9.9	126.8	28.4	122.7
1940	No.	15	..	2	72	8	11	510	71	1249	128	1153
	Rate	1.7	..	0.2	7.9	0.9	1.2	56.2	7.8	137.7	14.1	127.1

(\*) In this column, "No." indicates the average number and "Rate" the proportion per 100,000 of population for each of the diseases.

TABLE XXII  
DEATHS FROM CERTAIN DISEASES BY NATIONALITIES, IN 1940

Causes of death	579,573		197,726		53,966		75,735		907,000	
	63.90		21.80		5.95		8.35		100.00	
	French-Canadians		English-Canadians		Jews		Other nationalities or unknown		Total	
Typhoid.....	13	86.6	1	6.7	.....	.....	1	6.7	15	100.0
Scarlet fever.....	6	75.0	1	12.5	.....	.....	1	12.5	8	100.0
Whooping cough.....	69	95.8	1	1.4	.....	.....	2	2.8	72	100.0
Diphtheria.....	8	72.7	1	9.1	.....	.....	2	18.2	11	100.0
Tuberculosis, pulmonary.....	355	69.6	86	16.8	7	1.4	62	12.2	510	100.0
Tuberculosis, other forms.....	59	83.1	7	9.9	.....	.....	5	7.0	71	100.0
Influenza.....	97	83.6	14	12.1	1	0.9	4	3.4	116	100.0
Measles.....	2	100.0	.....	.....	.....	.....	.....	.....	2	100.0
Other contagious diseases.....	115	68.4	30	17.9	7	4.2	16	9.5	168	100.0
Cancer.....	789	63.2	323	25.9	68	5.4	69	5.5	1,249	100.0
Diabetes.....	150	68.2	42	19.1	18	8.2	10	4.5	220	100.0
Cerebral hemorrhage embolism.....	129	61.4	61	29.1	7	3.3	13	6.2	210	100.0
Diseases of the heart.....	1,269	62.6	520	25.6	128	6.3	111	5.5	2,028	100.0
Pneumonia.....	302	67.3	101	22.5	17	3.8	29	6.4	449	100.0
Enteritis.....	143	89.9	6	3.8	.....	.....	10	6.3	159	100.0
Nephritis.....	907	78.6	181	15.7	10	0.9	55	4.8	1,153	100.0
Diseases of early infancy.....	476	78.9	81	13.4	16	2.7	30	5.0	603	100.0
Violent deaths and accidental.....	208	57.1	98	26.9	18	5.0	40	11.0	364	100.0
Total.....	5,097	68.8	1,554	21.0	297	4.0	460	6.2	7,408	100.0
Other causes of death.....	1,214	64.3	495	26.2	78	4.1	101	5.4	1,888	100.0
Grand Total.....	6,311	67.9	2,049	22.1	375	4.0	561	6.0	9,296	100.0



## CLASSIFICATION OF DEATHS BY CAUSE

Causes of death	French-Canadians						British-Canadians					
	0 to 1 year		1 to 5 years		Over 5 years		0 to 1 year		1 to 5 years		Over 5 years	
	M	F	M	F	M	F	M	F	M	F	M	F
Typhoid and paratyphoid fevers.	...	...	...	...	9	4	...	...	...	...	...	...
Scarlet fever.....	...	1	2	1	2	...	...	...	...	1	...	...
Whooping-cough.....	36	18	7	8	...	...	1	...	...	...	...	...
Diphtheria.....	...	...	2	4	1	1	...	...	...	...	...	...
Tuberculosis, all forms.....	2	...	7	5	209	191	...	...	1	...	61	3
Syphilis.....	8	5	2	2	53	18	...	...	...	...	16	...
Grippe or influenza.....	11	3	4	3	24	52	...	...	1	...	3	1
Measles.....	1	1	...	...	...	...	...	...	...	...	...	...
Other infectious and parasitic diseases.....	4	5	2	2	8	6	...	...	...	1	3	...
Cancer and malignant tumors..	...	...	1	...	375	413	...	...	...	...	158	16
Diabetes.....	...	...	...	...	55	95	...	...	...	...	21	2
Other tumors and other general diseases.....	6	5	11	4	70	74	1	2	...	...	22	2
Diseases of the nervous system.	31	26	15	8	100	103	1	...	...	3	45	4
Diseases of the circulatory system.....	1	2	...	1	880	681	...	...	...	...	397	33
Diseases of the respiratory system.....	91	77	15	20	99	79	14	4	5	2	52	5
Diseases of the digestive system.	69	47	16	15	189	137	4	4	1	...	49	3
Diseases of the genito-urinary system.....	4	2	4	...	422	561	...	...	...	...	99	11
The puerperal state.....	...	...	...	...	...	57	...	...	...	...	...	...
Diseases of the skin and cellular tissue.....	2	1	1	2	11	5	...	2	...	...	3	...
Congenital malformation and early infancy.....	269	200	2	1	4	...	44	34	1	1	...	...
Old age.....	...	...	...	...	3	13	...	...	...	...	13	1
Violent and accidental deaths..	3	2	15	8	144	36	...	...	3	2	67	2
Ill-defined causes of deaths....	1	...	...	...	3	1	...	...	...	...	...	...
Total.....	539	395	106	84	2,661	2,527	65	46	12	9	1,010	906

## XIIa

## AGES, SEX AND NATIONALITIES, IN 1940

Jews						Other nationalities or unknown						Total		
0 to 1 year		1 to 5 years		Over 5 years		0 to 1 year		1 to 5 years		Over 5 years		M	F	Grand total
M	F	M	F	M	F	M	F	M	F	M	F			
...	...	...	...	...	...	...	...	...	...	...	1	9	6	15
...	...	...	...	...	...	...	...	...	...	1	...	6	2	8
...	...	...	...	...	...	...	1	...	1	...	...	44	28	72
...	...	...	...	...	...	...	...	1	...	1	...	3	8	11
...	...	...	...	5	2	...	...	1	...	44	22	330	251	581
...	...	...	...	3	1	...	...	...	...	14	1	96	29	125
...	...	1	...	...	...	...	...	...	...	3	1	47	69	116
...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
...	...	...	...	3	...	...	...	1	...	...	...	21	22	43
...	...	...	...	37	31	...	...	...	...	50	19	621	628	1,249
...	...	...	...	5	13	...	...	...	...	1	9	82	138	220
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	1	...	...	2	3	...	...	...	...	10	4	123	121	244
...	1	...	1	7	7	1	...	1	...	14	7	215	202	417
...	...	...	...	95	68	...	...	...	...	88	43	1,461	1,134	2,595
...	1	...	...	11	11	6	4	...	3	19	5	312	256	568
...	...	...	...	6	4	4	...	2	3	23	10	363	259	622
...	...	...	...	13	5	...	...	...	...	32	30	574	709	1,283
...	...	...	...	...	1	...	...	...	...	...	3	...	70	70
...	...	...	...	...	...	...	...	...	...	4	...	21	15	36
9	6	...	1	...	...	13	16	...	...	...	1	342	261	603
...	...	...	...	1	1	...	...	...	...	1	2	18	27	45
...	...	1	...	12	5	1	...	1	...	30	8	277	87	364
...	...	...	...	...	...	...	...	...	...	...	...	4	3	7
10	9	2	2	200	152	25	21	6	8	334	167	4,970	4,326	9,296

TABLE  
DEATHS OF NON-RESIDENTS  
Classification by causes

Causes of death	French-Canadians						British-Canadians					
	0 to 1 year		1 to 5 years		Over 5 years		0 to 1 year		1 to 5 years		Over 5 years	
	M	F	M	F	M	F	M	F	M	F	M	F
I—Infectious and parasitic diseases:												
Tuberculosis of the lungs 13.....	...	...	...	...	41	29	...	...	...	...	10	9
Tuberculosis, other forms 14-22.....	...	...	...	3	5	9	1	...	2	...	...	3
Other infectious and parasitic diseases 1-14	3	...	...	3	20	8	...	...	1	1	5	1
II—Cancers and other tumors 45-57.....	...	...	...	2	72	40	...	...	1	...	61	48
III—Rheumatismal diseases, etc. 58-71.....	...	...	...	...	12	19	...	...	...	...	2	11
IV—Diseases of the blood, etc. 72-76.....	...	...	...	1	12	4	...	...	...	1	7	...
V—Chronic poisoning, etc. 77-79.....	...	...	...	...	...	...	...	...	...	...	1	...
VI—Diseases of the nervous system, etc. 80-89.....	2	2	4	...	24	6	1	...	...	...	8	5
VII—Diseases of the circulatory system 90-103...	...	1	...	...	58	35	...	1	...	...	77	36
VIII—Diseases of the respiratory system 104-114...	3	9	6	2	18	9	4	2	1	...	18	5
IX—Diseases of the digestive system 115-129...	7	1	2	2	41	26	1	...	1	...	23	22
X—Diseases of the genito-urinary system 130-139.	...	...	1	...	67	36	...	...	...	...	28	9
XI—The puerperal state 140-150.....	...	...	...	...	...	...	...	...	...	...	...	8
XII—Diseases of the skin, etc. 151-153.....	...	...	...	...	6	17	...	...	...	...	...	...
XIII—Diseases of the bones 154-156.....	...	...	...	...	...	...	...	...	...	...	...	...
XIV—Congenital malformation 157.....	12	3	3	...	...	1	3	4	...	...	...	1
XV—Diseases of early infancy 158-161.....	20	8	...	...	...	...	14	5	...	...	...	...
XVI—Old age 162.....	...	...	...	...	...	...	...	...	...	...	...	11
XVII—Violent and accidental deaths 163-198.....	...	...	1	...	39	4	1	...	...	...	20	7
XVIII—Ill-defined causes of deaths 199-200.....	...	...	...	...	...	...	...	...	...	...	...	...
Total.....	47	24	17	13	415	244	25	12	6	2	260	166

III  
MONTREAL, IN 1940  
Nationalities and ages

Jews					Other nationalities or unknown						Total		
0 to year	1 to 5 years		Over 5 years		0 to 1 year		1 to 5 years		Over 5 years		M	F	Grand total
	F	M	F	M	F	M	F	M	F	M			
...	...	...	...	...	...	...	...	...	1	...	52	38	90
...	...	...	...	...	...	...	...	...	2	...	10	15	25
...	...	...	...	...	...	...	...	...	1	...	30	13	43
...	...	...	1	6	...	...	...	...	3	3	138	99	237
...	...	...	2	2	...	...	...	...	3	1	19	33	52
...	...	...	1	1	...	...	...	...	...	...	20	7	27
...	...	...	...	...	...	...	...	...	...	...	1	...	1
1	...	...	1	...	...	...	...	...	4	1	44	15	59
...	...	...	9	1	...	...	...	...	6	3	150	77	227
...	...	...	1	1	...	...	...	...	...	1	51	29	80
...	...	...	2	...	...	...	...	...	2	...	79	51	130
...	...	...	1	...	...	...	...	...	1	1	98	46	144
...	...	...	...	...	...	...	...	...	...	...	...	25	25
...	...	...	...	...	...	...	...	...	...	...	6	1	7
...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	19	9	28
2	...	...	...	...	1	1	...	...	...	...	36	16	52
...	...	...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	2	...	...	...	...	...	4	...	67	11	78
...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	20	11	1	1	...	...	27	10	820	486	1,306

**TABLE XXIV**  
**DEATHS IN MONTREAL, CLASSIFIED ACCORDING**  
**TO THE PLACE OF DEATH**  
**(domiciles, hospitals, homes, etc.)**  
**RESIDENTS AND NON-RESIDENTS**

Place of death	Residents		Non-residents		Total		Grand Total
	Male	Fem.	Male	Fem.	Male	Fem.	
Domiciles.....	2,149	2,198	37	32	2,186	2,230	4,416
<b>GENERAL HOSPITALS:</b>							
1—Notre Dame Hospital.....	274	195	89	41	363	236	599
2—St. Luc Hospital.....	244	140	40	22	284	162	446
3—Pasteur Hospital.....	48	38	2	4	50	42	92
4—Hotel Dieu Hospital.....	150	116	95	39	245	155	400
5—Du Sacre Coeur Hospital.....	195	161	64	45	259	206	465
6—Ste. Jeanne d'Arc Hospital.....	75	88	32	18	107	106	213
7—Ste. Justine Hospital.....	180	165	49	31	229	196	425
8—Misericorde Hospital.....	11	20	6	9	17	29	46
9—Montreal General Hospital.....	158	83	73	43	231	126	357
10—Montreal General Hospital West...	66	27	33	28	99	55	154
11—Royal Victoria General Hospital...	192	107	121	58	313	165	478
12—Royal Victoria Maternity.....	22	16	4	2	26	18	44
13—Children's Memorial Hospital.....	31	18	13	3	44	21	65
14—Montreal Children's Hospital.....	18	6	1	1	19	7	26
15—Homoeopathic Hospital.....	28	30	15	16	43	46	89
16—Catherine Booth Hospital.....	2	3	3	2	5	5	10
17—St. Mary's Hospital.....	57	44	15	24	72	68	140
18—Alexandra Hospital.....	7	6	1	..	8	6	14
19—Jewish General Hospital.....	64	42	15	11	79	53	132
20—Private Hospitals & Maternities...	18	13	4	7	22	20	42
21—Others.....	46	160	16	25	62	185	247
Total General Hospitals.....	1,886	1,478	691	429	2,577	1,907	4,484
<b>INFANT HOMES:</b>							
1—Misericorde.....	89	52	..	..	89	52	141
2—St. Paul.....	8	3	..	..	8	3	11
3—Aide à la Femme.....	6	3	..	1	6	4	10
4—Boarding Homes.....	..	1	..	..	..	1	1
Total.....	103	59	..	1	103	60	163

**TABLE XXIV**  
**DEATHS IN MONTREAL, CLASSIFIED ACCORDING**  
**TO THE PLACE OF DEATH**  
 (domiciles, hospitals, homes, etc.)  
**RESIDENTS AND NON-RESIDENTS—(Continued)**

Place of death	Residents		Non-residents		Total		Grand total
	Male	Fem.	Male	Fem.	Male	Fem.	
<b>OTHER HOMES:</b>							
1—Notre Dame de la Merci.....	199	1	39	..	238	1	239
2—Aide à la Femme.....	..	6	..	2	..	8	8
3—Convalescent Homes.....	8	7	3	3	11	10	21
4—Others.....	142	205	15	16	157	221	378
Total.....	349	219	57	21	406	240	646
<b>MISCELLANEOUS:</b>							
1—Religious communities.....	4	63	..	..	4	63	67
2—Public places.....	121	17	27	2	148	19	167
Total.....	125	80	27	2	152	82	234
<b>PENAL ESTABLISHMENTS:</b>							
1—Bordeaux Hospital.....	24	..	8	1	32	1	33
2—Others.....	..	..	..	..	..	..	..
Total.....	24	..	8	1	32	1	33
<b>MONTREAL RESIDENTS DECEASED ELSEWHERE:</b>							
1—St. Jean de Dieu Asylum.....	106	95	..	..	106	95	201
2—Verdun Insane Asylum.....	17	22	..	..	17	22	39
3—T. B. C. Sanatoria.....	8	5	..	..	8	5	13
4—Other hospitals.....	90	134	..	..	90	134	224
5—Other places.....	113	36	..	..	113	36	149
Total.....	334	292	..	..	334	292	626

### RÉCAPITULATION

Domiciles.....	2,149	2,198	37	32	2,186	2,230	4,416
General Hospitals.....	1,886	1,478	691	429	2,577	1,907	4,484
Infant homes.....	103	59	..	1	103	60	163
Other homes.....	349	219	57	21	406	210	646
Miscellaneous.....	149	80	35	3	184	83	267
Total deaths in Montreal.....	4,636	4,034	819	486	5,456	4,520	9,976
Montreal residents deceased elsewhere..	334	292	..	..	334	292	626
<b>GRAND TOTAL.....</b>	<b>4,970</b>	<b>4,326</b>	<b>819</b>	<b>486</b>	<b>5,790</b>	<b>4,812</b>	<b>10,602</b>

TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex and

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
		<b>I.—Infective and Parasitic Diseases.</b>															
1	1	DUE TO BACTERIA: Typhoid fever (Abdominal typhus)...	15	9	6												1
2	2	Paratyphoid fevers (Paratyphus).....															
14	3	Plague															
		a) Bubonic, septicaemic and secondary pulmonary plague.....															
		b) Primary pneumonic plague.....															
		c) Unspecified plague.....															
12	4	Cholera.....															
5	5	Undulant fever (Brucellosis)															
		a) Infection by <i>Brucella melitensis</i> (Melitococcus)...															
		b) Infection by <i>Brucella Abortus Bang</i> .....															
		c) Unspecified.....															
18	6	Cerebral-spinal meningococcal meningitis.....	7	4	3	2	1			1							
20	7	Malignant pustule and anthrax ( <i>Bacillus anthracis</i> )															
		a) Malignant pustule.....															
		b) Septicaemic and visceral anthrax.....															
		c) Unspecified anthrax.....															
8	8	Scarlet fever.....	8	6	2												
9	9	Whooping-cough.....	72	44	28	17	12	20	7	2	1	4					
10	10	Diphtheria.....	11	3	8					2	5	1	3				
15	11	Erysipelas.....	8	5	3												
22	12	Tetanus.....															
23	13	Tuberculosis of the respiratory system															
		a) With mention of occupational disease of lung..	1	1													
		b) Without mention of occupational disease of lung..	506	299	207			1		4	3	2	1		2	16	2
		c) Tuberculosis of unspecified site.....	3	1	2												
24	14	Tuberculosis of the meninges and central nervous system															
		a) Meninges.....	31	14	17	1				5	2	2	1	1	3		
		b) Other sites.....															
25	15	Tuberculosis of the intestines and peritoneum (including mesenteric and retroperitoneal glands)															
		a) Intestines.....	8		8												
		b) Other sites.....	8	3	5										3		
26	16	Tuberculosis of the vertebral column.....	6	3	3												2
27	17	Tuberculosis of the bones and joints (excluding vertebral column)															
		a) Bones (except vertebral column).....	2	2													
		b) Joints.....															
28	18	Tuberculosis of the skin and subcutaneous cellular tissue.....	1		1												
		Carried forward.....	687	394	293	20	13	21	8	21	20	9	5	1	8	19	29

V

THE INTERNATIONAL NOMENCLATURE

s, year 1940

rs	25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939
	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	
	2	4				1	2					1		1											1
																									2
																									3
																									a)
																									b)
																									c)
																									4
																									5
																									a)
																									b)
																									c)
							1														1				6
																									7
																									a)
																									b)
																									c)
																									8
																									9
																									10
							2										1	1	1	1	1	1	1		11
																									12
																									13
													1												a)
	39	33	29	20	27	46	22	24	15	27	11	25	10	33	4	20	4	8	8	7	9	1	2		b)
	1	1													1										e)
	4		1			1	2			1		1						1							14
																									a)
																									b)
																									15
																									a)
	1	1	1		1					2								1							b)
																									16
																									17
																									a)
																									b)
	1																								18
48	40	31	20	28	52	27	24	18	28	11	26	12	35	6	21	5	9	10	8	11	2	3			



TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex and

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
		Brought forward.....	687	394	293	20	13	21	8	21	20	9	5	1	8	19	1
29	19	Tuberculosis of lymphatic system (excluding mediastinal mesenteric, retroperitoneal glands)	2		2												
30	20	Tuberculosis of the genito-urinary system.....	2	2													
31	21	Tuberculosis of other organs															
		a) Addison's disease specified as tuberculous.....															
		b) Others.....	2	2													
32	22	Disseminated tuberculosis															
		a) Acute generalized miliary tuberculosis.....	3	1	2												
		b) Chronic gen. tuberculosis.....	5	1	4												
		c) Unspecified.....	1	1													
33	23	Leprosy.....															
36	24	Purulent infection and septicaemia (non puerperal)															
		a) Septicaemia.....	6	1	5					1							
		b) Pyaemia.....	1	1													
		c) Gas gangrene.....															
		d) Generalized infection by Bacillus coli.....															
35	25	Gonococcal infections (all sites)	1		1												
nil	26	Other bacterial diseases															
		a) Glanders.....															
		b) Tularaemia.....															
		c) Others.....															
13	27	Dysentery															
		a) Bacillary dysentery.....	2		2			1		1							
		b) Amoebic dysentery.....	2		2												
		c) Other protozoal dysentery.....															
		d) Other or unspecified forms of dysentery.....															
38	28	DUE TO PROTOZOA:															
		Malaria.....															
39	29	Other diseases due to parasitic protozoa (except spirochaetes)															
34	30	DUE TO SPIROCHAETES:															
		Syphilis															
		a) Locomotor ataxia (tabes dorsalis).....	10	8	2												1
		b) General paralysis of the insane.....	26	19	7												
		c) Aneurysm of the aorta.....	19	15	4								1				
		d) Other forms of syphilis															
		da) Congenital syphilis.....	16	9	7	6	5	2		1	2						
		db) Syphilis of nervous system (except tabes and general paralysis of the insane).....	9	8	1												
		dc) Syphilis of the circulatory system (except aneurysm of the aorta).....	29	23	6												
		dd) Other or unspecified forms of syphilis.....	16	14	2				1								
4	31	Relapsing fever.....															
nil	32	Other diseases (spirochaetes)															
		a) Spirochaetosis ictero-haemorrhagica (Weil's dis.).....															
		b) Others.....															
		Carried forward.....	839	499	340	26	18	23	9	23	24	9	5	2	8	20	36

## THE INTERNATIONAL NOMENCLATURE

, year 1940—(Continued)

	25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
8	40	31	20	28	52	27	24	18	28	11	26	12	35	6	21	5	9	10	8	11	2	3	...	...	
										1				1											19
							1					1													20
																									21
	1																								a)
																									b)
		1			1					1															22
2		1																							a)
		1																							b)
													1												c)
																									23
2	1									1				1											24
					1																				a)
																									b)
																									c)
																									d)
1																									25
																									26
																									a)
																									b)
																									c)
																									27
		1												1											a)
																									b)
																									c)
																									d)
																									28
																									29
		1										1	2		2		2		1						30
																									(a
			2	1	1		4	2	5	1	2		2		2	1	1	1		1				(b	
					1		2	1	2		3				4	1	2			2				(c	
																									(d
																									(da
									1		1		2		1	1	2		1						db)
				1	1		4	1	5	1	4	1	5	1	1		1		1	1	1			dc)	
								5		1		1	2	3		1		1		1		1		dd)	
																									31
																									32
																									a)
																									b)
3	42	35	22	30	57	27	35	22	46	16	38	14	48	12	34	8	18	11	12	15	4	3	...	...	

TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex and

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years
						M	F	M	F	M	F	M	F	M	F	M
		Brought forward . . . . .	839	499	340	26	18	23	9	23	24	9	5	2	8	20
11	33	DUE TO VIRUSES: Influenza														
		a) With respiratory complications specified . . . . .	97	41	56	6	2	4	1	5	2	2	2	1	1	
		b) Without respiratory complications specified . . . . .	19	6	13	1				1	1	1	1	1	1	
6	34	Smallpox														
		a) Variola major . . . . .														
		b) Variola minor (alastrim) . . . . .														
		c) Unspecified . . . . .														
7	35	Measles . . . . .	2	1	1			1	1							
16	36	Acute poliomyelitis and poliomyelitis and polioencephalitis . . . . .														
17	37	Acute infectious encephalitis (lethargic or epidemic)														
		a) Acute lethargic (or epidemic) encephalitis . . . . .														
		b) Sequelae of encephalitis lethargica (Parkinsonism) . . . . .														
		c) Unspecified encephalitis lethargica . . . . .														
nil	38	Other diseases due or attributed to viruses	1	1												
37		a) Yellow fever . . . . .														
21		b) Rabies . . . . .														
		c) Herpes zoster (Zona) . . . . .														
		d) German measles . . . . .														
		e) Varicella (chicken pox) . . . . .	6	2	4		2	2	1		1					
		f) Others . . . . .														
3	39	DUE TO RICKETTSIA: Typhus and typhus-like diseases (Rickettsioses)														
		a) Louse-borne exanthematic typhus . . . . .														
		b) Typhus-like diseases transmitted by other vectors . . . . .														
		c) Other and unspecified typhus-like diseases . . . . .														
40	40	DUE TO HELMINTHS: Ankylostomiasis . . . . .														
41	41	Hydatid disease														
		a) Hydatid disease of liver . . . . .														
		b) Hydatid disease of other and unspecified organs . . . . .														
42	42	Other diseases due to helminths . . . . .														
43	43	DUE TO FUNGI: Mycoses . . . . .	3	3						1						
44	44	Other infective or parasitic diseases														
		a) Venereal diseases (other than syphilis and gonorrhoea) . . . . .														
		b) Pernicious lymphogranulomatosis (Hodgkin's disease) . . . . .	5	3	2											
		c) Mumps . . . . .	1	1					1							
		d) Other infective or parasitic diseases . . . . .														
		Total . . . . .	973	557	416	33	22	30	12	31	28	10	7	3	10	20

THE INTERNATIONAL NOMENCLATURE

, year 1940—(Continued)

25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
42	35	22	30	57	27	35	22	46	16	38	14	48	12	34	8	18	11	12	15	4	3	...	...	
...	2	...	1	...	3	...	3	4	2	1	4	3	2	3	4	5	3	4	11	4	10	1	3	33 a)
...	...	1	1	...	1	1	1	...	...	...	...	2	...	...	...	...	2	...	3	...	1	...	...	b)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34 a)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	b)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	c)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	35
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37 a)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	b)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	c)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38 a)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	b)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	c)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	d)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39 a)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	b)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	c)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	a)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	b)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	42
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	43
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	44
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	a)
...	...	...	...	...	1	...	...	...	...	1	1	...	...	1	1	...	...	...	...	...	...	...	...	b)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	c)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	d)
42	37	23	32	59	31	36	26	50	18	40	19	51	16	38	13	23	14	17	28	9	16	1	4	

TABLE

CLASSIFICATION OF DEATHS ACCORDING TO CAUSE

By causes, sex and duration of illness

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 years and over
						M	F	M	F	M	F	M	F	M	F	M
		<b>II.—Cancer and other Tumours.</b>														
45	45	Cancer and other malignant tumours of the buccal cavity and pharynx														
		a) Lips.....	10	9	1											
		b) Tongue.....	18	17	1											
		c) Other and unspecified sites.....	58	50	8											
46	46	Cancer and other malignant tumours of the digestive organs and peritoneum														
		a) Oesophagus.....	31	20	11											
		b) Stomach and duodenum..	206	137	69											
		c) Intestines.....	176	74	102											2
		d) Rectum.....	72	41	31											
		e) Liver and biliary passages.	79	35	44											
		f) Pancreas.....	35	21	14											
		g) Peritoneum.....	6	1	5											
		h) Other organs.....	3	2	1											
47	47	Cancer and other malignant tumours of the respiratory system														
		a) Larynx and trachea.....	26	24	2											
		b) Bronchi, lungs and pleura.	62	50	12											
		c) Other organs.....	2	1	1											
48	48	Cancer and other malignant tumours of the uterus														
		a) Cervix uteri.....	47		47											
		b) Other or unspecified sites.	91		91											
49	49	Cancer and malignant tumours of other female genital organs	24		24											
50	50	Cancer and malignant tumours of the breast.....	115	1	114											
51	51	Cancer and malignant tumours of the male genital organs														
		a) Scrotum.....	4	4												
		b) Prostate.....	58	58												
		c) Other or unspecified male genital organs.....	7	7												
nil	52	Cancer and other malignant tumours of the male and female urinary organs.....	54	29	25				1							
52	53	Cancer and other malignant tumours of the skin (scrotum excepted).....	10	8	2											
nil	54	Cancer and malignant tumours of the brain and other parts of the nervous system														
		a) Glioma (not specified as benign).....	3		3											
		b) Sarcoma.....	2	1	1											
		c) Other and unspecified malignant tumours.....	6	3	3											1
nil	55	Cancer and other malignant tumours of other or unspecified organs														
		a) Adrenal glands.....														
		b) Bones.....	14	8	6											
		c) Thyroid gland.....	5	2	3											
		d) Other and unspecified.....	25	18	7											
		Carried forward.....	1249	621	628				1							3

IV

THE INTERNATIONAL NOMENCLATURE

s, year 1940—(Continued)

s	25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939	
	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		F
																									45	
											2		1	1			2		3			1			a)	
											1		2	1		6		4			3				b)	
	1		1						3		4		14		4	2	7	1	13	1	4	2		1	c)	
								1		2	5			1	6		4	2	4	2	1	2		1	46	
			2		4	2	6	1	9	2	14	8	15	10	23	4	24	7	34	26	5	8		1	a)	
			2	1	2	1	3	5	12	5	3	7	11	14	10	16	9	11	14	29	6	13			b)	
		1	1	2	1	1	2	3	6	3	2	3	7	3	6	2	6	4	9	6	1	3			c)	
					1					2	1	5	4	3	7	6	13	8	11	6	4				d)	
							1			1	2	3	3	1	5	2	5	1	1	5	2	1	2			e)
												2	1	1		1				1						f)
															1				1	1						g)
																			1	1						h)
							1					1	3		5		8		6		1	1			47	
		1		1		2		3		1		9	3	13	4	11	2	3	1	6	1	1			a)	
				1										1											b)	
																									c)	
	1				2		6		8		3		8		6		3		5		4		2		48	
		1			3		3		6		17		12		12		13		7		11		5		a)	
																									b)	
			1				1		4		1		2		2		2		3		6		1	1	49	
		1		3		8		10		14		21		11		12		9	1	19		5		1	50	
			1				1								1				1						51	
									2		1		7		8		10		25		5				a)	
											2						1		4						b)	
																									c)	
					1	1	2	2	2		1	3	5	2	6	3	3	4	7	9	1	1			52	
													1			1	1		3	1	1		2		53	
														1		1		1							54	
	1																								a)	
																									b)	
					1					1						1	1	1							c)	
			1	1			1	1	2		1	2		1	1							1			55	
					1						1							1	1	1					a)	
																		1	1	1					b)	
						1	1				3	1	1	1	4		3	1	5	2					c)	
																									d)	
1	2	7	9	13	12	24	22	42	37	51	52	82	87	75	101	71	99	71	150	137	38	49	4	5		

TABLE  
CLASSIFICATION OF DEATHS ACCORDING  
By causes, sex and

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years
						M	F	M	F	M	F	M	F	M	F	M
		Brought forward.....	1249	621	628					1						3
54	56	Non-malignant tumours (including dermoid cysts)														
		a) Ovaries.....	14		14											
		b) Uterus.....	11		11											
		c) Other female genital organs.....														
		d) Brain and other parts of the nervous system.....	9	5	4			1								
55	57	e) Other and unspecified.....	27	22	5					1						
		Tumours of undetermined nature														
		a) Ovaries.....														
		b) Uterus.....	1		1											
		c) Other female genital organs.....														
		d) Brain and other parts of the nervous system.....	14	8	6									1		1
		e) Other and unspecified.....	3	3												
		Total.....	1328	659	669			1	2					1		4
		<b>III.—Rheumatism, Diseases of Nutrition and of the Endocrine Glands, other General Diseases and Vitamin Deficiency Diseases.</b>														
56	58	Rheumatic fever														
		a) Acute rheumatic pericarditis.....	2	2								1				
		b) Acute rheumatic endocarditis.....	4	3	1											
		c) Acute rheumatic myocarditis.....	3	2	1					1	1					
		d) Other forms.....	5	5						1				1		
57	59	Chronic rheumatism and other rheumatic diseases														
		a) Rheumatoid arthritis														
		aa) Chronic rheumatic polyarthritis.....	5	3	2											
		ab) Arthritis deformans.....	1	1												
		ac) Others.....														
		b) Other forms of chronic articular rheumatism.....	3	2	1											
		c) Other forms of chronic rheumatism.....	6	4	2											
58	60	Gout.....														
59	61	Diabetes mellitus														
		a) Simple or with mention of coma.....	73	25	48											
		b) With mention of cardiovascular complications.....	112	48	64											
		c) With mention of renal complications.....	37	9	28											
65	62	Diseases of the pituitary gland.....														
		Carried forward.....	251	104	147					1	1	2		1		

V

THE INTERNATIONAL NOMENCLATURE

s, year 1940—(Continued)

No.	25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
1	2	7	9	13	12	24	22	42	37	51	52	82	87	75	101	71	99	71	150	137	38	49	4	5		
		1		1		1		3		1		2		1				1		2					56	
						2		4		3		1												1	a)	
																									b)	
																									c)	
	1		1				1				1	2				1							1		d)	
					1	1		1		1					2	1	6		11		1				e)	
																									57	
								1																	a)	
																									b)	
																									c)	
		1	2		1			1	1	2				1		1			1						d)	
	1								1										1						e)	
1	4	9	12	14	14	28	23	52	39	58	53	87	87	77	103	74	105	72	163	139	39	49	5	6		
																										58
			1																						a)	
	1			1										1					1						b)	
																									c)	
									1					2											d)	
																									59	
																									a)	
												1				1	1		2						aa)	
																	1								ab)	
																									ac)	
									1											1	1				b)	
								1												2	1	2			c)	
																									60	
																									61	
					1		1	4		4	1	2	1	5	6	9	4	4	9	13	2	6			a)	
				1			1	2	1	3	5	3	4	8	6	6	12	21	16	16	3	4			b)	
						1		1				6	1	4		6		5	5	3	1	4			c)	
																									62	
	1		1	2	1		3	7	4	7	6	12	9	17	12	22	18	30	36	34	8	14				



TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex and

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
		Brought forward.....	251	104	147					1	1	2		1			
66	63	Diseases of the thyroid and parathyroid glands															
		a) Simple goitre.....															
		b) Exophthalmic goitre.....	20	4	16												
		c) Myxoedema and cretinism.....															
		d) Other diseases of the thyroid gland.....	2	2					1		1						
		e) Diseases of the parathyroid glands.....															
67	64	Diseases of the thymus.....	14	8	6	5	3	1	3	2							
68	65	Diseases of the adrenal glands (not described as tuberculous)															
		a) Addison's disease, not specified as tuberculous.....	1		1												
		b) Others.....															
69	66	Other general diseases															
		a) Osteomalacia.....	2	1	1												
		b) Other general diseases.....	1		1												
60	67	VITAMIN DEFICIENCY:															
		a) Infantile scurvy (Barlow's disease).....															
		b) Other forms.....															
61	68	Beri-beri.....															
69	69	Pellagra.....															
63	70	Rickets.....	1		1							1					
nil	71	Other vitamin-deficiency dis.....															
		Total.....	292	119	173	5	3	1	3	4	1	3	1	1			
		<b>IV.—Diseases of the Blood and Blood-Forming Organs.</b>															
70	72	Haemorrhagic conditions															
		a) Primary purpura.....	4	1	3				1								
		b) Haemophilia.....	1		1												
		c) Other and unspecified.....															
71	73	Anaemias (excluding splenic anaemia)															
		a) Pernicious anaemia.....	33	16	17	1			1	1							
		b) Other hyperchromic anaemias.....	3		3					1							
		c) Hypochromic anaemias.....															
		d) Other and unspecified anaemias.....	1	1					1								
72	74	Leukaemias and aleukaemias															
		a) Leukaemia.....	27	14	13	1			4			1	1	1			
		b) Aleukaemia.....	4	3	1												1
73	75	Diseases of the spleen															
		a) Splenic anaemia.....	1	1													1
		b) Banti's disease.....	4	1	3										1		
		c) Other diseases of the spleen.....															
74	76	Other diseases of the blood and blood-forming organs															
		a) Agranulocytosis.....	5	2	3					1							
		b) Erythrocytosis.....															
		c) Hæmoglobinaemia.....															
		d) Other diseases.....															
		Total.....	83	39	44	2		1	6	3		1	1	2	2		

KV  
 THE INTERNATIONAL NOMENCLATURE

es, year 1940—(Continued)

	25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939
	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	
...	1	...	1	2	1	...	3	7	4	7	6	12	9	17	12	22	18	30	36	34	8	14	...	...	63
...			1					2		2		2	1	2	1	2		1	2	3		1			a)
...																									b)
...																									c)
...																									d)
...																									e)
...																									64
...																									65
...										1															a)
...																									b)
...																1			1						66
...						1																			a)
...																									b)
...																									67
...																									a)
...																									b)
...																									68
...																									69
...																									70
...																									71
...	1	1	1	2	1	1	3	9	4	10	6	14	10	19	13	25	18	31	39	37	8	15	...	...	
...				2				1																	72
...				1																					a)
...																									b)
...																									c)
...			1	2	1						2	3	3	1	2	3	3		1	5		1			73
...								2																	a)
...																									b)
...																									c)
...																									d)
...	1					1	1	1		1	1	1		1	4				1	2		1			74
...																1		1							a)
...																									b)
...																									75
...							1					1								1					a)
...																									b)
...																									c)
...								1				1				1		1							76
...																									a)
...																									b)
...																									c)
...																									d)
...	1			1	5	1	1	3	4		1	3	6	3	2	8	3	5		2	8		2		

TABLE  
**CLASSIFICATION OF DEATHS ACCORDING**  
**By causes, sex and**

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years			
						M	F	M	F	M	F	M	F	M	F	M	F	M	F
		<b>V.—Chronic Poisoning and Intoxication.</b>																	
75	77	Chronic or acute alcoholism (ethylism)																	
		a) Acute alcoholism	8	7	1														
		b) Chronic alcoholism	1	1															
		c) Unspecified alcoholism																	
76	78	Lead poisoning																	
		a) Specified as occupational																	
		b) Not occupational																	
77	79	Chronic poisoning by other mineral and organic substances																	
		a) Occupational poisoning	1	1															
		b) Poisoning by narcotic and soporific drugs																	
		ba) Narcotics																	
		bb) Soporifics																	
		c) Other non-occupational																	
		d) Unspecified poisoning																	
		Total	10	9	1														
		<b>VI.—Diseases of the Nervous System and Sense Organs.</b>																	
78	80	Encephalitis (non-epidemic)																	
		a) Intra-cranial abscess	2	1	1				1										
		b) Other forms	5	1	4			2	1	2									
79	81	Meningitis (non-meningococcal)																	
		a) Simple meningitis	18	13	5	4	1	1	5	1					1	1			
		b) Acute cerebro-spinal meningitis (not due to meningococcus)	6	4	2				1								1		
80	82	Diseases of the medulla	13	7	6														
81	83	Intra-cranial lesions of vascular origin																	
		a) Cerebral haemorrhage	157	81	76											1			
		b) Cerebral embolism and thrombosis	17	5	12												1		
		c) Softening of the brain	9	8	1														
		d) Hemiplegia and other paralyses	27	11	16														
		e) Other effusions																	
nil	84	Mental disorders and deficiency																	
		a) Mental deficiency	2	1	1														
		b) Schizophrenia	1	1															
		c) Manic-depressive psychosis	6	2	4														
		d) Other mental disorders	3	2	1														
85	85	Epilepsy	26	12	14														
86	86	Convulsions in children under 5 years of age	6	4	2	2	1	1		1	1								
87	87	Other diseases of the nervous system																	
		a) Chorea																	
		b) Neuritis (non-rheumatic)	2		2														
		c) Paralysis agitans (Parkinson's disease)	24	15	9														
		d) Disseminated sclerosis	19	9	10														
		e) Others	6	2	4			1											
		Carried forward	349	179	170	6	2	2	3	9	4		1		2	3			

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**THE INTERNATIONAL NOMENCLATURE**  
**s, year 1940—(Continued)**

s	25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939	
	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		F
77							1				5		1		1										a)	
															1										b)	
																									c)	
78																									a)	
																									b)	
79						1																			a)	
																									b)	
																									ba)	
																									bb)	
																									c)	
						1		1			5		1		1	1									d)	
80								1																	a)	
																									b)	
			2			1											1								a)	
					1		1						1				1								b)	
	2			1				1			1	1	1			1	1		1	2			1		82	
		2	1	1	1		1	2	5	5	7	12	6	9	7	13	9	16	7	14	21	7	8		2	83
					1						1	1	1		2	2	1			1	3		3			a)
										2		1				1			3		1	1				b)
												2	1	1	3		1		3	8	3	5				c)
																										d)
	1													1												e)
																				1						a)
																										b)
		2				2				2																c)
											1															d)
			1	1	2	1	2	1	2	1	1	1	1		1	2		3			1	1				e)
																										85
																										86
																										87
			1																1							a)
																										b)
		1					1	1			1				1	2		4	2	5	4	1	1			c)
			1	1		1	3	1		1	1			2	1		2		1	1		1				d)
											1	2	1				1									e)
1	7	6	4	7	3	8	5	11	9	10	19	13	14	14	24	13	29	10	29	40	13	20			2	

TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex and

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
		Brought forward.....	349	179	170	6	2	2	3	9	4	1	1	2	3		
88	88	Diseases of the organs of vision..															
89	89	Diseases of the ear and of the mastoid process															
		a) Otitis and other diseases of the ear.....	36	21	15	8	7	8	2	4	6						
		b) Diseases of the mastoid process.....	32	15	17	5	6	4	7	3	2						
		Total.....	417	215	202	19	15	14	12	16	12	1	1	2	3		
		<b>VII.—Diseases of the Circulatory System.</b>															
90	90	Pericarditis															
		a) Chronic pericarditis specified as rheumatic.....															
		b) Others.....	2	1	1												
91	91	Acute endocarditis excluding rheumatic endocarditis															
		a) Acute bacterial endocarditis.....	20	7	13		1					1		3	1		
		b) Sub-acute bacterial endocarditis.....	8	3	5							1					
		c) Other forms.....															
92	92	Chronic affections of the valves and endocardium															
		a) Aortic valvular disease without mitral lesion..	12	8	4												
		b) Other specified valvular diseases of rheumatic origin.....	86	41	45							1	1	2	2	4	
		c) Unspecified valvular lesions or endocarditis...	338	152	186		1					1	2	1	3	1	
93	93	Diseases of the myocardium, including aneurism of heart															
		a) Acute myocarditis.....	16	9	7	1						1					
		b) Chronic myocarditis specified as rheumatic.....	34	15	19										1		
		c) Myocardial degeneration, sclerosis and non-rheumatic myocarditis.....	646	360	286												
		d) Other and non-specified..	3	2	1												
94	94	Diseases of the coronary arteries and angina pectoris															
		a) Diseases of the coronary arteries.....	405	283	122												
		b) Angina pectoris.....	163	120	43												
95	95	Other diseases of the heart															
		a) Functional heart disease without mention of organic lesion.....	44	22	22								1				
		b) Heart diseases specified as rheumatic.....	28	11	17									1			
		c) Other and unspecified....	223	116	107								1				
96	96	Aneurism, except of heart.....	2	2													
97	97	Arteriosclerosis, excluding diseases of the coronary arteries.	481	258	223												
		Carried forward.....	2511	1410	1101	1	2					3	7	4	9	6	

IV

THE INTERNATIONAL NOMENCLATURE

es, year 1940—(Continued)

rs	25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939	
	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		F
1	7	6	4	7	3	8	5	11	9	10	19	13	14	14	24	13	29	10	29	40	13	20	...	2	88	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	89
...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	a)
...	...	1	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	b)
1	8	7	4	7	3	8	6	11	9	10	21	13	14	14	24	13	29	10	29	41	13	20	...	2	90	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	a)
...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	b)
2	...	...	...	...	1	1	1	...	...	...	2	1	...	...	...	1	...	1	1	1	...	...	...	...	...	a)
...	2	...	...	1	...	3	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	b)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	c)
...	...	...	1	...	...	1	...	...	1	...	1	...	1	...	...	3	...	...	2	...	1	...	...	...	...	a)
1	3	2	3	3	4	2	3	6	5	3	...	1	2	2	3	3	5	4	3	9	...	4	...	...	...	b)
6	2	6	5	6	5	14	8	5	10	9	11	8	12	21	14	16	20	11	41	41	18	31	2	3	c)	
...	...	1	...	1	2	...	...	...	1	...	...	...	1	...	1	...	...	...	1	3	1	2	...	...	...	93
...	...	1	...	...	1	...	...	...	2	2	1	...	2	2	3	2	1	5	3	6	2	...	...	...	...	a)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	b)
2	1	...	1	1	3	3	9	4	18	7	27	19	31	27	58	19	49	29	99	96	51	66	13	11	c)	
...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	d)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	94
...	1	...	3	3	3	...	19	...	34	4	40	7	56	11	34	15	38	17	40	45	13	18	2	2	a)	
...	...	...	...	3	1	5	2	14	3	17	2	19	1	12	5	21	6	23	19	6	4	...	...	...	...	b)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	95
...	...	...	...	...	1	2	...	...	1	1	1	3	2	1	2	1	4	8	7	4	3	2	...	...	...	a)
2	1	...	2	...	1	...	2	2	...	...	2	...	2	...	2	...	1	1	1	1	6	1	1	...	...	b)
...	1	1	1	...	2	1	5	3	5	6	13	8	18	12	12	17	17	16	31	20	10	19	...	2	c)	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	e)
...	...	...	...	...	...	3	2	2	3	15	4	22	6	32	15	30	25	93	88	56	67	5	13	...	...	96
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	97
13	11	11	17	16	26	26	58	24	91	38	126	54	170	86	171	96	187	118	344	344	163	216	24	31		

TABLE

CLASSIFICATION OF DEATHS ACCORDING TO

By causes, sex and age

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years
						M	F	M	F	M	F	M	F	M	F	M
		Brought forward.....	2511	1410	1101	1	2					3	7	4	9	6
98	98	Gangrene														
		a) Senile.....	40	24	16											
		b) Others.....	4	3	1											
99	99	Other diseases of the arteries...	25	18	7											
100	100	Diseases of the veins: varices, haemorrhoids, phlebitis, etc.														
		a) Varices.....	6	2	4											
		b) Other diseases of the veins.	4	2	2											
101	101	Diseases of the lymphatic system, lymphangitis, etc.....	3	1	2					1						
102	102	High blood pressure (idiopathic).....	2	1	1											
103	103	Other diseases of the circulatory system.....														
		Total.....	2595	1461	1134	1	2			1	3	7	4	9	6	
		<b>VIII.—Diseases of the Respiratory System.</b>														
104	104	Diseases of the nasal fossae and annexa														
		a) Diseases of the nasal fossae.	3	1	2		2			1						
		b) Others, including sinusitis.	2	2												
105	105	Diseases of the larynx.....	5	3	2				1	3	1					
106	106	Bronchitis:														
		a) Acute.....	5	2	3				1	1	2					
		b) Chronic.....	7	5	2											
		c) Unspecified.....	2	2						1						
107	107	Bronchopneumonia (including capillary bronchitis).....	256	136	120	63	53	22	14	10	10	1	1		1	1
108	108	Lobar pneumonia (pneumococcal).....	144	75	69	4	3	3	2	4	5				2	2
109	109	Pneumonia (unspecified) including acute congestion of the lung.....	49	27	22	9	4	6	2		4		1			
110	110	Pleurisy														
		a) Empyema.....	12	4	8	1	1	1	1		3				1	
		b) Other or unspecified forms of pleurisy.....	2	1	1											
111	111	Congestion, oedema, embolism, haemorrhagic infarction and thrombosis of the lungs														
		a) Haemorrhagic infarction of the lung.....	8	3	5											1
		b) Acute oedema of the lung.	13	7	6	1	1									
		c) Chronic or unspecified congestion of the lung.....	3	2	1	1										
112	112	Asthma.....	28	14	14		1									
113	113	Pulmonary emphysema.....	3	3												
114	114	Other diseases of the respiratory system, except tuberculosis														
		a) Silicosis.....	3	3												
		b) Other occupational respiratory diseases.....	1	1												
		c) Gangrene of the lung.....	4	4												
		d) Abscess of the lung.....	16	15	1											
		e) Other diseases of the respiratory system.....	2	2												
		Total.....	568	312	256	79	65	32	21	20	25	1	2		4	4

LXV

TO THE INTERNATIONAL NOMENCLATURE

ges, year 1940—(Continued)

20 to 24 years		25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
8	13	11	11	17	16	26	26	58	24	91	38	126	54	170	86	171	96	187	118	344	344	163	216	24	31	98	
																2	1	2	...	11	6	9	8	...	1	a)	
														1	1	...	...	2	...	...	...	...	...	...	...	b)	
		1	...			1	...			1	1	1	...	5	1	3	1	2	1	2	3	2	...	...	...	99	
									1		1	1	...				2	...		1	...	...	...	...	...	100	
			1											1					1	1	...	...	...	...	...	a)	
										1																b)	
										1				1	1			1	...							101	
														1	1											102	
																										103	
8	13	12	12	17	16	27	26	58	25	93	40	128	54	178	89	176	101	193	119	359	354	174	224	24	32		
																											104
		1	...											1	...											b)	
																										105	
				1	...																					106	
										1	...										1	1	2	...	...	a)	
											1					1	...	1	...	1	1	2	...	...	...	b)	
																				1	...					c)	
1	...	1	1	...	...	4	3	...	...	4	1	3	1	5	2	1	5	3	5	9	7	8	11	...	3	107	
2	...	1	4	1	1	4	1	9	4	6	5	7	1	5	3	8	5	6	5	11	18	1	7	1	3	108	
								1	2	...	1	1	...			1	3	3	1	6	...	...	4	...	...	109	
1	...	1	1	...	...				1	...																a)	
			1	...	...														1	...						b)	
																										111	
				1	1	...	...	1	...	1	...				1	...	1	...					1	...	...	a)	
				1	...				2	1	1	1	1	...						2	1	1	...	...	...	b)	
								1	...															1	...	c)	
				1	1	2	...		1	2	3	3	...			2	1	1	2	1	4	2	1	...	...	112	
												1	...			1	...			1	...				...	113	
								1	...			1	...	1	...											114	
												1	...													a)	
												1	...													b)	
		1	1	1	...	2	...	1	...	1	...	3	...	3	...	1	...	1	...	1	...				...	c)	
																										d)	
														2	...											e)	
4	...	5	8	6	3	12	4	14	11	15	12	21	3	18	6	15	15	17	13	34	31	14	25	1	6		



TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex and

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
		<b>IX.—Diseases of the Digestive System.</b>															
115	115	Diseases of the buccal cavity and annexe and of the pharynx and tonsils (including adenoid vegetations)															
		a) Diseases of the teeth and gums.....	6	3	3												
		b) Septic sore throat.....	2	1	1							1					
		c) Other diseases of the pharynx and tonsils.....	12	9	3	1	2	1	1	1	2					1	
		d) Diseases of other and unspecified sites.....															
116	116	Diseases of the oesophagus.....															
117	117	Ulcer of the stomach or duodenum															
		a) Stomach.....	52	40	12		1										
		b) Duodenum.....	19	16	3												
118	118	Other diseases of the stomach (except cancer and other malignant tumours).....	26	14	12			1	1	1		1				1	
119	119	Diarrhoea, enteritis (under 2 years of age).....	128	76	52	48	32	22	14	6	6						
120	120	Diarrhoea, enteritis and ulceration of the intestines (2 years of age and over)															
		a) Diarrhoea and enteritis....	26	10	16					6	5	1	1		1		
		b) Ulceration of the intestines.....	5	2	3						1						
121	121	Appendicitis.....	91	58	33			1	5	2	6	3	8	3	6	3	
122	122	Hernia, intestinal obstruction															
		a) Hernia.....	45	26	19			1									
		b) Intestinal obstruction....	40	15	25	1		2		1				1		1	
123	123	Other diseases of the intestines (including intestinal infection by B. coli)															
		a) Diverticulitis.....	4	2	2												
		b) Other diseases of the intestines.....	5	2	3	1											
124	124	Cirrhosis of the liver															
		a) With mention of alcoholism.....	6	5	1												
		b) Without mention of alcoholism.....	66	51	15												
125	125	Other diseases of the liver															
		a) Acute yellow atrophy (not associated with pregnancy or the puerperium)....	2	1	1							1					
		b) Other diseases of the liver.....	13	5	8											1	
126	126	Biliary calculi.....	36	10	26												
127	127	Other diseases of the gall-bladder and bile ducts															
		a) Cholecystitis without record of biliary calculi....	21	8	13												
		b) Others.....	4	4													
128	128	Diseases of the pancreas.....	7	4	3												
129	129	Peritonitis without stated cause.....	6	1	5		1				2						
		Total.....	622	363	259	51	34	26	17	19	18	8	9	8	5	9	4

XV

OF THE INTERNATIONAL NOMENCLATURE

ages, year 1940—(Continued)

20 to 24 years		25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
																										115
	1				1				1	1		1								1						a)
																1										b)
					1									1	1							1				c)
																										d)
																										116
		1		3	1	2	2	4	1	7	1	5		2		6	1	7		2	4	1	1			117
1		1		1	1	3		1				3	1		1			1		4				1		a)
																										b)
			1			2	1	1		1		2			1	2	1	1		1	3	2	1		1	118
																										119
					1				1		1				1				2	1		2	2		1	120
									1		1						2									a)
3	3	3	4	2	3	1	2	6	4	4	2	1	1	5		2	3	3		2						b)
																										121
			1	1				3	1	2	1	4	2	4	5	3	2	3		2	6	3	1			122
			2	1	1	2		2		1				3	2	4	3	1	1	2	4	1	2		2	a)
																										b)
							1	1							1							1				123
																										a)
					1	1					1													1		b)
																										124
											1	1		2				2								a)
																										b)
				3		2	1	4	1	7	1	4	1	6		10	3	5	1	8	7	2				125
																										a)
															1											b)
															1	1		2		1	2	1		1		126
																										a)
																										b)
																										127
																										a)
																										b)
																										128
																										129
4	4	6	9	12	11	14	9	23	14	24	21	23	8	26	18	34	20	29	9	31	36	14	9	2	4	

TABLE I

CLASSIFICATION OF DEATHS ACCORDING TO

By causes, sex and duration

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
		<b>X.—Diseases of the Urinary and Genital Systems.</b>															
130	130	Acute nephritis.....	28	17	11	1	1	2	2	1	1	1	1	2			
131	131	Chronic nephritis															
		a) Secondary to acute nephritis.....	968	395	573						1			1	5		
		b) Arteriosclerotic kidney....	153	79	74												
		c) Chronic nephritis not otherwise specified.....	4	2	2												
132	132	Nephritis not stated to be acute or chronic.....															
133	133	Other diseases of the kidneys and ureters (not connected with pregnancy)															
		a) Pyelitis, pyelonephritis and pyelocystitis.....	32	18	14	1		1	1	1							1
		b) Others.....	5		5									1			1
134	134	Calculi of the urinary passages															
		a) Calculi of the kidneys and ureters.....	9	5	4												
		b) Calculi of the bladder....	2	1	1												
		c) Calculi of unstated site....	1	1													
135	135	Diseases of the bladder (except tumours)															
		a) Cystitis.....	8	5	3												
		b) Other diseases of the bladder.....	2	2													
136	136	Diseases of the urethra, urinary abscess, etc.															
		a) Stricture of the urethra....	3	3													
		b) Others.....	1	1													
137	137	Diseases of the prostate															
		a) Hypertrophy of the prostate.....	38	38													
		b) Others.....	3	3													
138	138	Diseases of other male genital organs (not specified as venereal).....	4	4		1		1									
139	139	Diseases of the female genital organs (not specified as venereal, or connected with pregnancy or the puerperal state)															
		a) Diseases of the ovaries, fallopian tubes and parametria.....	11		11												
		b) Diseases of the uterus....	10		10												
		c) Diseases of the breast....	1		1												
		d) Other diseases of the female genital organs....															
		Total.....	1283	574	709	3	1	2	4	2	1	2	1	2	1	9	

## XV

## O THE INTERNATIONAL NOMENCLATURE

ages, year 1940—(Continued)

20 to 24 years		25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1	2			3		2		1		2		1		1	1		1		1	1					1	130
1	3	6	3	5	7	6	9	7	19	20	17	24	31	35	42	47	48	59	64	125	204	54	107	5	13	a)
						1		1	1	2		3	4	4	4	6	1	7	11	29	27	24	24	2	2	b)
												1			1							1	1			c)
																										132
																										133
	1		1	1				1		2		2		1		2	1	2	3	4	5		2			a)
												1							2							b)
																			2							134
							1	2						2				1			2		1			a)
											1									1						b)
																						1				c)
							1				1					2				2	1	1				135
														1		1										a)
															1						1					b)
																										136
																										a)
																										b)
																										137
										1						4		11		14		8				a)
																						3				b)
																				1		1				138
																										139
				1		3		3		1		2				1										a)
		1		1		2		1		1		3		1				1		1						b)
							1																			c)
																										d)
2	6	6	6	9	12	9	15	12	22	27	24	31	37	45	49	63	52	82	82	178	239	92	135	7	16	





**TABLE**  
**CLASSIFICATION OF DEATHS ACCORDING**  
**By causes, sex and**

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
...	146	Brought forward.....	24		24												
		Haemorrhage of childbirth and the puerperium															
		a) Placenta proevia.....	2		2												
		b) Premature separation of placenta.....	2		2												
		c) Other haemorrhages during childbirth.....	2		2												
		d) Other haemorrhages after childbirth.....	3		3												
nil	147	Infection during childbirth and the puerperium															
		a) General or local puerperal infections (including tetanus with pyelitis....)	11		11												
		b) Ditto, without pyelitis....															
		c) Thrombophlebitis.....	1		1												
		d) Embolism and sudden death.....	3		3												
nil	148	Puerperal toxæmias															
		a) Puerperal eclampsia.....	3		3												
		b) Albuminuria and nephritis	1		1												
		c) Acute yellow atrophy of liver.....															
		d) Other puerperal toxæmias.....															
149	149	Other accidents of childbirth															
		a) Laceration, rupture or other trauma (without haemorrhage).....	1		1												
		b) Cesarean section.....	11		11												
		c) Other accidents of childbirth.....	6		6												
150	150	Other or unspecified diseases of childbirth and the puerperium															
		a) Mastitis during the puerperium and lactation....															
		b) Puerperal psychoses.....															
		c) Other diseases.....															
		Total.....	70		70												
		<b>XII.—Diseases of the Skin and Cellular Tissue.</b>															
151	151	Carbuncle, boils.....	3	1	2		1										
152	152	Cellulitis, acute abscess.....	15	8	7	2	2			1							1
153	153	Other diseases of the skin and annæxa, and of the cellular tissue.....	4	1	3					1							
		Total.....	22	10	12	2	3			1	1						1
		<b>XIII.—Diseases of the bones and Organs of Movement.</b>															
154	154	Osteomyelitis and periostitis															
		a) Acute.....	5	4	1					1	2						
		b) Chronic.....															
		c) Unspecified.....	2	2													1
155	155	Other diseases of the bones, except tuberculosis.....	4	3	1									1			
156	156	Diseases of the joints and other organs of movement															
		a) Joints (except tuberculosis and rheumatism).....	1	1													
		b) Diseases of other organs of movement.....	2	1	1						1						
		Total.....	14	11	3					1	3		1				1

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## TO THE INTERNATIONAL NOMENCLATURE

ages, year 1940—(Continued)

20 to 24 years		25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
			5		10		4		4																		
			1				1																				146
			1						1																		a)
			1								1																b)
			1		1																						c)
			1				1		1																		d)
																											147
			3		3						3																a)
																											b)
	1																										c)
	2								1																		d)
	1		1						1																		148
									1																		a)
									1																		b)
																											c)
																											d)
																											149
			1																								a)
	1		4		1				4					1													b)
			3						3																		c)
																											150
																											a)
																											b)
																											c)
	5		21		15		16		9		1																
																	1										151
			1		2		1				1					2		1		1							152
																				1		1					153
			1		2		1				1					3		1	1	1	1			2			
																											154
															1				1								a)
															1												b)
																											c)
											1						1						1				155
																											156
																											a)
			1																								b)
			1																								
			1								1						2		1	2					1		







**TABLE**

**CLASSIFICATION OF DEATHS ACCORDING**

**By causes, sex and**

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
		<b>XVI.—Senility, Old Age.</b>															
162	162	Senility, old age															
		a) Old age.....	10	4	6												
		b) Senility with mention of senile dementia.....	8	4	4												
		c) Senility without mention of senile dementia.....	27	10	17												
		Total.....	45	18	27												
		<b>XVII.—Violent or Accidental Deaths.</b>															
163	163	Suicide by poisoning															
		a) Solid or liquid toxic or corrosive substances...	2	2													
		aa) By corrosive sub.....	4	1	3												1
		ab) By analgesic and narcotic drugs.....															
		ac) By soporific drugs (not liquid anaesthetics).....															
		ad) By other substances...	1	1													
		b) Suicide by poisonous gas															
		ba) By coal-gas.....	13	7	6												
		bb) By motor exhaust gases.....	3	3													
		bc) By other gases.....															
171	164	Other forms of suicide															
		a) By hanging or strangulation.....	18	13	5												1
		b) By drowning.....	6	5	1												
		c) By fire-arms and explosives	5	4	1												
		d) Suicide by cutting or piercing instruments.....	2	2													
		e) Suicide by jumping from high places.....	6	3	3												
		f) Suicide by crushing															
		fa) Suicide on railways...															
		fb) Other suicide by crushing.....															
		g) Other or unspecified.....															
172	165	Infanticide (infants under 1 year).....	1	1		1											
173	166	Homicide by fire-arms (ages 1 year and over).....	1		1												
174	167	Homicide by cutting or piercing instruments (ages 1 year and over).....	5	1	4												
175	168	Homicide by other or unspecified means (ages 1 year and over).....	5	5									1				
nil	169	Accidents on railways and tramways.....	13	11	2								1				
...	170	Automobile accidents															
		a) Collisions with trains.....	1	1													1
		b) Collisions with trams.....	1	1													
		c) Other auto. accidents.....	112	82	30		1	5	6	9	4	5	1	4	2		
		Carried forward.....	199	143	56	1	1	5	6	9	4	7	1	6	3		

LXV

## TO THE INTERNATIONAL NOMENCLATURE

ages, year 1940—(Continued)

20 to 24 years		25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
																											162
																				2	5	1	...	1	1		a)
																			1	2	1	2	2	...	...		b)
																			2	4	6	11	2	2			c)
																			1	6	10	9	13	3	3		
																											163
2																											a)
	1							1													1						aa)
																											ab)
							1																				ac)
																											ad)
																											b)
1						1		1	2		1	1	1	1	1		1	1									ba)
									1				2														bb)
																											bc)
																											164
																											a)
																											b)
																											c)
																											d)
																											e)
																											f)
																											fa)
																											fb)
																											g)
																											165
																											166
																											167
																											168
																											169
																											170
																											a)
																											b)
5	4	6	1	4	...	4	...	4	1	1	...	5	2	5	2	5	2	8	4	6	1	5	...	...	...	c)	
8	5	7	6	7	2	6	1	16	4	14	4	14	3	10	3	8	3	10	5	9	4	5	1	...	1		

TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex and

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
						Brought forward.....	199	143	56	1	...	1	...	5	6	9	4
...	171	Other transport accidents															
		a) Tramway accidents on roads.....															
		b) Other accidents.....	3	3								1					
...	172	Water transport accidents.....															
...	173	Air transport accidents.....	2	2													
...	174	Accidents in mines and quarries.....															
...	175	Agricultural and forestry accidents															
		a) Accidents from farm machinery.....															
		b) Injuries by animals in farming, etc.															
		ba) By venomous animals.....															
		bb) By other animals.....															
...	176	c) Other accidents.....															
		Accidents caused by machinery, excluding accidents due to transport, agricultural or forestry machinery, or in mines or quarries.....	4	4					1								
177	177	Food poisoning.....															
178	178	Accidental absorption of poisonous gases.....	7	5	2												
179	179	Other acute accidental poisoning (not by gas).....	5	2	3					3							
180	180	Conflagration.....	6	3	3			1			1						
181	181	Accidental burns (conflagration excepted).....	19	11	8				1	6	1						
182	182	Accidental mechanical suffocation.....	4	3	1	1	1			2							
183	183	Accidental drowning.....	34	31	3					1		2		1	1	4	
184	184	Accidental injury by fire-arms (except war injuries).....	8	8									5		2		
185	185	Accidental injury by cutting or piercing instruments (except war injuries).....															
186	186	Accidental injury by fall, crushing, landslide, etc.....	67	57	10					5			2	1	2	1	
187	187	Cataclysm (all deaths, whatever their cause).....															
188	188	Injury by animals.....															
189	189	Hunger and thirst.....															
190	190	Excessive cold.....															
191	191	Excessive heat.....															
192	192	Lightning.....															
193	193	Other accidents due to electric currents.....	1	1													
176	194	Attack by venomous animals.....															
		Carried forward.....	359	273	86	2	1	2	1	20	10	12	4	16	3	14	4

CXV

TO THE INTERNATIONAL NOMENCLATURE

ges, year 1940—(Continued)

20 to 24 years		25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
8	5	7	6	7	2	6	1	16	4	14	4	14	3	10	3	8	3	10	5	9	4	5	1	...	1	171	
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4	7	17	9	11	2	14	1	23	6	19	6	25	4	20	4	19	5	17	6	18	7	10	5	...	1		

TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex and

No. of 1929	No. of 1939	International Classification	Total	M	F	0 to 5 months		6 m. to 1 year		1 to 4 years		5 to 9 years		10 to 14 years		15 to 19 years	
						M	F	M	F	M	F	M	F	M	F	M	F
		Brought forward.....	359	273	86	2	1	2	1	20	10	12	4	16	3	14	4
194	195	Other accidents															
		a) Vaccinia and other sequelae of vaccination against smallpox.....															
		b) Other accidents due to medical or surgical intervention															
		ba) Anaesthetic accidents.	3	2	1												
		bb) Other accidents.....															
		c) Lack of care of the newborn.....															
nil	196	d) Other accidents.....	2	2									2				
		Deaths of persons in military service during operations of war															
		a) From poison gas.....															
		b) From wounds.....															
		c) From other causes.....															
nil	197	Deaths of civilians due to operations of war															
		a) From poison gas.....															
		b) From wounds.....															
		c) From other causes.....															
198	198	Legal executions.....	1	1													
		Total.....	365	278	87	2	1	2	1	20	10	12	4	18	3	14	4
		<b>XVIII.—Ill-defined Causes of Death.</b>															
199	199	Sudden death.....	5	3	2												
200	200	Causes of death unstated or ill-defined															
		a) Ill-defined cause.....															
		b) Found dead, cause unknown.....	1	1		1											
		c) Other deaths from unknown causes.....															
		Total.....	6	4	2												
		Total M.....		4971		528		111		126		44		38		65	
		Total F.....			4325		393		78		103		33		37		72
		Grand total.....	9296			921		189		229		77		75		137	

## XV

## O THE INTERNATIONAL NOMENCLATURE

ages, year 1940—(Concluded)

20 to 24 years		25 to 29 years		30 to 34 years		35 to 39 years		40 to 44 years		45 to 49 years		50 to 54 years		55 to 59 years		60 to 64 years		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1939	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
4	7	17	9	11	2	14	1	23	6	19	6	25	4	20	4	19	5	17	6	18	7	10	5	...	1	195	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	a)
1	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	b) ba) bb)
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	196
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	a) b) c)
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	a) b) c)
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5	7	18	9	12	2	14	2	23	6	19	6	25	4	20	4	19	5	17	6	18	7	10	5	...	1	199	
...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1	1	...	1	...	...	...	...	...	...	200
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	c)
...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1	1	...	1	...	...	...	...	...	...	...	...
6	...	102	...	97	...	156	...	202	...	281	...	357	...	456	...	498	...	521	...	877	...	383	...	43	...	...	
...	93	...	121	...	121	...	141	...	190	...	201	...	245	...	294	...	324	...	359	...	931	...	515	...	74	...	
179	...	223	...	218	...	297	...	392	...	482	...	602	...	750	...	822	...	880	...	1808	...	898	...	117	...	...	



**METEOROLOGICAL SERVICE OF**  
**Observations made at McGill University, Montreal,**  
**Height above**

Month	Thermometer					*Barometer			
	†Mean	(a) Deviation from 66 years means	Maximum	Minimum	Mean daily range	†Mean	Maximum	Minimum	Mean daily range
January.....	10.69	-2.92	36.0	-14.1	11.36	29.983	30.52	29.42	.206
February.....	17.44	+2.16	35.0	- 2.3	13.70	30.014	30.51	29.16	.291
March.....	23.69	-2.30	51.3	- 1.2	13.41	29.911	30.59	29.40	.242
April.....	39.87	-1.12	73.6	18.3	13.66	29.948	30.46	29.41	.259
May.....	56.37	+1.35	78.9	34.6	17.37	29.929	30.23	29.53	.159
June.....	63.70	-0.97	8.50	42.8	16.33	29.838	30.22	29.39	.214
July.....	70.15	+0.81	87.0	51.7	16.07	30.000	30.33	29.67	.132
August.....	68.26	+1.40	88.1	47.2	16.07	30.098	30.42	29.54	.138
September.....	59.85	+1.11	76.1	34.8	14.38	30.010	30.47	29.38	.167
October.....	45.42	-1.33	69.8	25.0	13.66	30.061	30.42	29.56	.239
November.....	33.34	-0.04	57.6	5.1	9.86	30.048	30.60	29.51	.344
December.....	21.20	+1.58	40.4	-10.0	13.32	30.093	30.59	29.44	.332
Sums for 1940.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means for 1940.....	42.50	+0.14	.....	.....	14.20	29.994	.....	.....	.227
Means for 66 years ending December 31st, 1940....	42.52	.....	.....	.....	15.27	29.982	.....	.....	.235

\* Barometer readings reduced to sea level and 32° F. †The monthly Thermometer and Barometer means are from bi-hourly readings from self-recording instruments. (a) "+" indicates that the temperature has been higher, "-" that it has been lower than the average for 66 years. ‡ Humidity relative, saturation being 100. Means of readings every four hours from recording hygrometer. § For 59 years only. The anemometer and wind vane are exposed at the summit of Mount Royal, 54 feet above the ground and 807 feet above sea level.

The greatest heat was 88.1 (Fah.) above zero, on August 18, the greatest cold was 14.1 below zero on January 17th. The extreme range of temperature was therefore 102.2 degrees. The greatest temperature

## CANADA, ABSTRACT FOR YEAR 1940

Canada.—Latitude 45° 30' N.—Longitude 75° 35' W.

Sea level 187'

‡Mean relative humidity	Wind		§Percent possible sunshine	Precipitation						
	Resultant direction	Mean velocity, M.P.H.		Inches rain	No. of days on which rain or sleet fell	Inches, snow	Inches of rain and melted snow	No. of days on which snow fell	No. of days on which rain and snow fell	No. of days on which rain or snow fell
72.7	.....	.....	37.6	0.05	1	16.5	1.58	19	1	19
70.5	.....	.....	38.3	0.00	0	18.6	1.86	11	0	11
74.8	.....	.....	34.1	0.03	2	32.0	4.38	14	0	16
67.8	.....	.....	33.2	3.01	12	3.3	3.33	3	1	14
67.3	.....	.....	39.0	1.75	14	.....	1.75	0	0	14
72.6	.....	.....	47.6	2.80	16	.....	2.80	.....	.....	16
71.3	.....	.....	54.8	7.03	12	.....	7.03	.....	.....	12
73.9	.....	.....	63.1	1.43	8	.....	1.43	.....	.....	8
76.0	.....	.....	48.3	2.18	11	.....	2.18	.....	.....	11
74.0	.....	.....	44.9	1.97	9	0.4	2.06	1	0	10
80.2	.....	.....	23.6	3.21	11	18.4	5.36	9	0	20
81.4	.....	.....	21.4	2.66	8	16.1	4.35	11	1	18
.....	.....	.....	.....	26.12	104	105.3	38.11	68	3	169
73.5	.....	.....	40.2	.....	.....	.....	.....	.....	.....	.....
73.9	.....	.....	43.3	29.87	108	113.6	41.76	76	15	169

range in one day was 33.1 on January 16; the least range was 1.3 on December 28. The warmest day was August 18 when the mean temperature was 79.0 above zero. The coldest day was January 17 when the mean temperature was 9.9 below zero. Hail on 0 day. Fog on 7 day. Thunderstorms on 15 days. Auroras observed on 2 nights. Lunar halos on 3 nights. Solar halos on 1 day. First trace of snow on October 18. First appreciable snowfall on October 20. First freezing weather on December 3. The greatest rainfall in one day was 3.53 inches on July 16. The heaviest snowfall was on February 10-11, when 8.3 inches fell in 19 hours.

Note:—Yearly means are averages of Monthly means.

