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The Royal Sanitary Institute



Library.

CITY OF MONTREAL

Report of the Department of Health

OF

MONTREAL

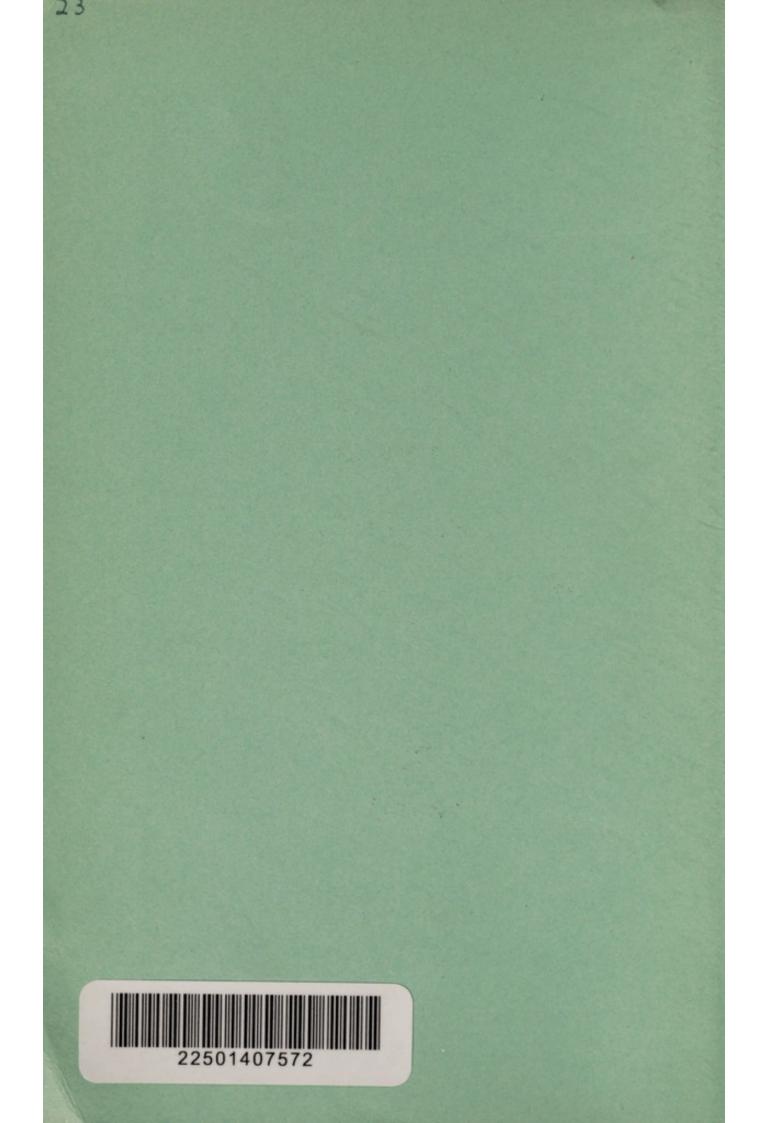
1931

By DOCTOR S. BOUCHER, D.P.H., Director of the Department.



MONTREAL

1932



With the compliments of the

Director of the Department of Health.

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CITY OF MONTREAL

Report of the Department of Health

OF

MONTREAL

1931

By DOCTOR S. BOUCHER, D.P.H., Director of the Department.



MONTREAL

1 9 3 2

CITY OF MONTREAL

MAYOR :

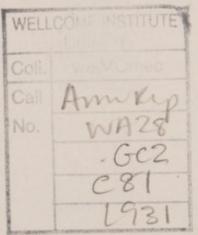
His Worship CAMILLIEN HOUDE.

EXECUTIVE COMMITTEE :

Alderman J. ALLAN BRAY,* President; Alderman W. S. WEL-DON, J. M. SAVIGNAC, TANCREDE FORTIN, ALF. MA THIEU, Members.

HEALTH DEPARTMENT :

S. BOUCHER, M.D., D.P.H., Director. T. A. REEB, Secretary.



* Mr. Bray resigned in September: he has been replaced as Member of the Executive Committee by Mr. Ovide Taillefer, and as President by Mr. Tancrède Fortin.

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STAFF OF THE DEPARTMENT OF HEALTH.

DIRECTOR'S OFFICE :

Dr. S. BOUCHER, Director. Mr. T. A. REEB, Secretary.* Mr. LEO DELONGCHAMPS, Archivist. Mr. GEORGES ROCHON, Accountant. Miss H. SAINT-CYR, Senior stenographer clerk. 1 Messenger.

DIVISION OF CONTAGIOUS DISEASES :

Dr. J. H. GERVAIS, Superintendent.

- 2 Senior clerks.
- 3 Junior typists.
- 3 Epidemiologists.
- 1 Epidemiologist (temporary).
- 1 Nurse (supervisor).
- 9 Nurses (one acting as temporary superintendent of Smallpox hospital).
- 2 Nurses (temporary).
- 4 Distinfectors.
- 1 Janitor (Smallpox hospital).
- 1 Cook (Smallpox hospital).

DIVISION OF CHILD HYGIENE :

- Dr. AD. GROULX, Superintendent.
- 1 Senior stenographer clerk.
- 5 Junior clerks.
- 1 Messenger.
- Dr. C. A. BOURDON, chief inspector for Medical Inspection of schools.
- 1 Medical inspector (supervisor).
- 21 Medical inspectors of schools.
- 4 Dental inspectors of schools.
- 1 Head nurse.
- 5 Nurses supervisors.
- 87 Visiting school nurses.
- 2 Nurses inspecting boarding houses for children.
- 2 Nurses (temporary) in baby clinics.
- 6 Asst.-nurses.
- 4 Psychiatrists.
- 4 Nurses (psychologists).
- 1 Nurse test of hearing.

^{*} Died in February, 1932.

DIVISION OF SANITATION :

Mr. AIME COUSINEAU, C.E., Sanitary engineer and superintendent.

- 1 Secretary.
- 1 Plan examiner.
- 2 Clerks.
- 1 Senior typist clerk.
- 1 Junior typist clerk.
- 1 Chief inspector.
- 1 Supervisor of plumbing inspectors.
- 11 Plumbing inspectors.
- 1 Inspector of gas connections and appliances.
- 1 Supervisor of Sanitary inspectors.
- 25 Sanitary inspectors (one for inspection of boarding houses for children, private maternities, etc.).
- 2 Laundries inspectors.
- 2 Inspectors for barber shops, etc.

DIVISION OF FOOD INSPECTION :

Dr. A. J. G. HOOD, M.V., Superintendent. 1 Chief clerk.

Section No. 1 - Milk inspection.

- 1 Supervisor.
- 2 Typist clerks.
- 10 Country inspectors.
- 7 City inspectors.

Pasteurization inspection.

- 1 Supervisor.
- 7 Inspectors.

Section No. 2 - Meat inspection.

- 1 Supervisor.
- 1 Clerk.
- 1 Typist clerk.
- 1 Inspector of abattoirs in suburbs, and ice.
- 8 District inspectors.
- 6 Veterinary surgeons, meat inspection stations.
- 2 Asst.-inspectors, meat inspection stations.
- 1 Inspector, private abattoirs.

Section No. 3 - Inspection of dining-rooms, restaurants, etc.

- 1 Supervisor
- 1 Clerk.
- 1 Typist-clerk.
- 7 Inspectors.

Section No. 4 - Inspection of bakeries:

1 Supervisor.

2 Inspectors.

DIVISION OF MEDICAL CONTROL :

Dr. J. A. BRIEN, Superintendent.

3 Visiting physicians.

2 Clerks.

DIVISION OF LABORATORIES:

Dr. A. BOLDUC, Superintendent and bacteriologist.

Dr. R. BERARD, Bacteriologist.

Mr. E. GIGUERE, Chemist.

1 Chief analyst, milk section.

1 Asst.-analyst, milk section.

1 Technician.

2 Laboratory helpers.

1 Junior typist clerk.

DIVISION OF STATISTICS :

Dr. EUG. GAGNON, Superintendent.Dr. J. A. LABROSSE, Statistician.2 Clerks.1 Typist clerk.

DIVISION OF MUNICIPAL ASSISTANCE :

Mr. A. CHEVALIER, Superintendent.

Mr. C. J. GAUTHIER, Joint-superintendent.

1 Chief clerk.

1 Stenographer clerk.

6 Clerks.

1 Chief investigator.

7 Investigators.

1 Clerk in charge, Social Service Exchange.

2 Clerks, Social Service Exchange.

2 Clerks, Social Service Exchange.

Mr. J. DESROCHERS, Supervisor, Meurling Refuge.

1 Senior clerk.

2 Furnacemen.

1 Head laundryman.

1 Head cook.

5 Guards.

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			CITY OF M				
				IONTINEAL		BOARD OF HEALTH	(Advising Board)
			EXECUTIVE DEPARTMENT	COMMITTEE	The Dil Three A	arman of the Encodine Commi- rector of the Department of the tembers of the City Council, bers of the tacity of Photoine of the bers of the tacatty of Photoine of the	lealth (Ex.alticio) University of Montreal
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STATISTICS	LABORATORIES	FOOD INSPECTION	SAMITATION	CONTAGIOUS DISEASES	CHILD HYGIENE	NUNICIPAL ASSISTANCE	MEDICAL CONTROL
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ANNUAL REPORT

1931

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 1931.

Expenses.

The total expenditure for 1931 in the Department of Health amounted ot \$2,508,127.33, distributed as follows:

Hygiene	\$ 535,706.54
Municipal Assistance	1,717,932.49
Pensions and annuities (Pen-	
sioners)	234,488.30
Allocations to Universities	20,000.00
Official time (McGill University).	150.00

It should be noted that payment of allocations to Universities, of Pensions and Annuities to pensioned employees, and payment for the Official Time should preferably come under another Service than the Health Department.

The City's population for 1931 having been estimated at 813,000, the expenditure for the section of Hygiene is distributed at the rate of \$0.659 per capita of population; the rate for the Municipal Assistance being \$2.113; the increase of expenditure over the year 1930 was for Hygiene properly speaking, \$0.04.5 cents per head of population.

The following list shows the detail of expenditure during the year.

Hygiene.

GENERAL ADMINISTRATION EXPENSES :

Library: Books and reviews	\$ 288.00	
Lectures to the public, to officials and campaign		
against tuberculosis and infant mortality through		
various means Auto service (Director's of-	148.50	
fice)	\$ 436	5.4
		.00

DIRECTOR'S OFFICE :

Salaries	. \$ 13,700.00
Employees' transportation	n
allocation	. 360.75
Supplies	. 221.14
Congress	. 543.61
Casual	

\$ 15,004.91

SANITATION :

Salaries	\$ 80,017.59
Employees' transportation	
allocation	5,141.34
Supplies for plumbing tests,	
etc	114.97
Supplies for plumbers' ex-	
aminations	55.19
Fees: plumbers' examiners.	400.00
Uniforms	3,431.72
Supplies	232.16
Casual	178.87

89,571.84

\$

CONTAGIOUS DISEASES :

Salaries	\$ 34,943.06
Employees' transportation	
allocation	3,123.96
Disinfectants	198.66
Supplies	404.78
Scholarship	600.00
Vaccine	1,600.00
Maintenance of small-pox	
hospital	1,456.85
Transportation of patients.	
Houses quarantined	
Uniforms	840.55
Casual	185.00

\$ 43,352.86

CHILD HYGIENE :

Salaries	\$172,206.74
Employees' transportation allocation	1,688.04
Municipal baby clinics and	
maternal clinics	31,465.52
Baby camps	123.15
Supplies	3,928.18
Diphtheria immunization	5,508.63
Measuring scales	3,537.05
Uniforms	5,331.05
Scholarship	600.00
Purchase of serum re: Po-	
liomyelitis	2,168.00
Illustrated publications	3,650.53
Casual	183.85

\$ 230,390.74

FOOD INSPECTION :

Salaries \$	94,277.69	
Employees' transportation		
allocation	4,805.70	
Special inspections	30.32	
Samples of food		
Supplies	1,479.30	
Auto service (superintendent)	178.23	
Travelling expenses (milk		
inspectors in the country)	15,034.45	•
Medical examination of dairy		
employees	104.15	
Rental of butchers' stalls		
Nos. 51 and 53, Bonse-		
cours Market	976.24	
Casual	193.60	
		de.

\$ 117,079.68

MEDICAL CONTROL :

Salaries	\$ 12,556.37
Employees' transportation	
allocation	463.51
Supplies, casual, interpreter	147.26
	0

\$ 13,167.14

STATISTICS :

Salaries .		 	 	\$ 8,940.00
Supplies	 	 	 	124.80
Congress	 	 	 	206.53
Casual	 	 	 	169.40

9,440.73

\$

LABORATORIES :

Salaries	\$	15,096.17		
Material, apparatus, instru-				
ments		676.50		
Supplies		647.40		
Milk analysis.		763.75		
Employees' transportation		100.10		
allocation		1.50		
Casual		76.76		
Casual		10.10	\$	17,262.08
			Ψ	11,202.00
Total			\$	535,706.54
10(4)	• •		۰p	555,100.51
Municipal As	sis	stance.		
Salaries	æ	27,298.97		
	•P	21,290.91		
Employees' transportation		1 010 09		
allocation		1,616.82	¢	99 015 70
	-		\$	28,915.79
ADMINISTRATION :				
Supplies	\$	34.45		
Casual		182.76		
	-		\$	217.21
SOCIAL SERVICE EXCHANGE	\$	250.00		250.00
ASSISTANCE :				
Burial of poor and unknown				
people	\$	4,370.00		
Repatriation of strangers		1,622.69		
	-		\$	5,993.59
SUBSIDIES .				
SUBSIDIES :				
Institutions of charity	\$	116,200.00		
Baby clinics (independent)	φ.	8,500.00		
Daby chines (independent)		0,000.00	æ	194 700 00
			\$	124,700.00

CONTRACTS, STATUTORY OBLIGATIONS AND OTHERS :

Maintenance of insane	. \$324,456.92
Destitute children in Indus	;-
trial schools	. 86,755.83
Juvenile Court	. 6,500.00
Maintenance of children i	n
Reform schools	. 34,739.01
Hospitalization of incur	-
ables	. 59,628.80
Hospitalization of tuber	-
culous	. 73,000.00
Grey Nuns (Home)	. 14,600.00
Oeuvres de Notre-Dame de	e
la Merci (Home)	. 30,420.00
St. Luke Hospital (vaga	-
bonds), etc	. 10,950.00
Hospitalization of indigent	S
(Quebec Public Charitie	S
Act): Paid to institution	s 118,452.38
Government's account	. 771,236.28

- \$1,530,739.22

MEURLING REFUGE :

Salaries	\$ 14,551.25	
Food	6,476.48	
Maintenance	4,349.00	
Linen	1,739.95	
		2

27,116.68

Total \$1,717,932.49

^{*} This item is subject to revision, the Government's accounts having been transmitted too late to permit checking before publication of this report.

DEMOGRAPHIC MOVEMENT.

Population.

The population of Montreal is evaluated by the Superintendent of the division of Statistics of the Department of Health, at 813,000 inhabitants, on the first of July, 1931.

The preliminary report of the Federal Census taken on the first of June, 1931, gives to the City of Montreal a population of 810,925 inhabitants; however, as all the figures of the Statistical services are based on the evaluation of the population at the middle of the year, it was necessary to make an adjustment and establish the population to the first of July, 1931, by adding to the figures of the Federal Census, 2075 inhabitants, or a total of 813,000 inhabitants.

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

Birth rate.

The number of births in 1931 amounted to 20,699; in 1930 it had been 20,993, which shows a decrease of 294.

Comparing it with the year 1929, when there were 20,415 births, shows an increase of 284.

The proportion of births per 1,000 inhabitants, based on the valuation of the population at 813,000 is 25.46, being 2.70 per thousand below the average for the five years from 1926 to 1930, and of 4.91 below the average for the ten preceding years.

The birth rate has shown a slight decrease of 1.11% in 1931, over the year 1930.

Table I compares the number and the rate of births for the year 1931 with the ten preceding years, taken separately and in groups of five and of ten years.

TABLE I

BIRTHS

Period 1921-1925 (5 years)

		Number	Proportion
Years	Population	of	per 1000
		births	inhabitants
1921	618,506	21,136	34.17
1922	630,800	20,720	32.84
1923	642,650	20,527	31.94
1924	655,800	21,500	32.78
1925	669,800	21,976	32.81
Average	643,510	21,172	32.90
Period	1926-1930 (5 years)	
1926	684,500	21,098	30.82
1927	699,500	20,740	29.65
1928	742,000	20,307	27.37
1929	762,000	20,415	26.79
1930	790,000	20,993	26.57
Average	735,600	20,711	28.16
Douted	1001 1000 (4	0	
reriod	1921-1930 (1	vears)	

ars

Average	689,555	20,941	30.37
•	Year 1931		
Year 1931	813,000	20,699	25.46

Marriage rate.

In 1931 there were 6,196 marriages, as against 6,643 in 1930, representing a decrease of 447 for the year 1931. The proportion per thousand of population is therefore 7.62, being 1.53 below the ten years average from 1921 to 1930.

Table II compares the rate and the number of marriages in 1931 with the preceding ten years taken separately and in groups of five and ten years.

TABLE II

MARRIAGES

Period 1921-1925 (5 years)

Years	Population	of	Proportion per 1000 inhabitants
1921	618,506	5,984	9.67
1922	630,800	5,589	8.86
1923	642,650	6,103	9.49
1924	655,800	6,058	9.24
1925	669,800	6,102	9.11
Average	643,510	5,967	9.27

Period 1926-1930 (5 years)

1926	684,500	6,133	8.95
1927	699,500	6,320	9.03
1928	742,000	6,825	9.20
1929	762,000	7,332	9.62
1930	790,000	6,643	8.41
Average	735,600	6,651	9.04

Period 1921-1930 (10 years)

Average	689,555	6,309	9.15
	Year 1931		
Year 1931	813,000	6,196	7.62

Death rate.

The number of deaths in 1931 rose to 9,886 as against 10,256 in 1930, showing in consequence a decrease of 370 deaths.

The proportion compared to the population is 12.16 per thousand as against 12.98 in 1930, or a decrease of 0.82 per thousand.

The 1931 death rate is 1.83 below the average for the five years from 1926 to 1930. It is 2.42 below the average of the ten preceding years.

Table III shows a statement of the mortality since 1921 for each year separately and by groups of five and ten years.

TABLE III

DEATHS

Period 1921-1925 (5 years)

Years	Population	Number of deaths	Proportion per 1000 inhabitants
1921	618,506	9,740	15.74
1922	630,800	9,945	15.76
1923	642,650	10,074	15.67
1924	655,800	9,752	14.87
1925	669,800	9,545	14.26
Average	643,510	9,811	15.24
Period	1926-1930 (5	years)	

1926	684,500	9,660	14.12
1927	699,500	9,991	14.28
1928	742,000	10,961	14.77
1929	762,000	10,604	13.92
1930	790,000	10,256	12.98
Average	735,600	10,294	13.99

Period 1921-1930 (10 years)

Average	689,555	10,052	14.58
	Year 1931		
Year 1931	813,000	9,886	12.16

Natural increase of the population.

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

In 1931 the excess of births over deaths was 10,813 while for the ten years from 1921 to 1930 it was 10,889 which shows a decrease of 76.

The natural increase of the population shows for the year 1931 a rate of 13.3 per thousand of population.

TABLE IV

NATURAL INCREASE OF THE POPULATION

Years	Births	Deaths	Excess of births over deaths
1921-1925	105,860	49,055	56,805
1926-1930	103,555	51,470	52,085
Average (10 years)	20,941	10,052	10,889
Year 1931	20,699	9,886	10,813

Infant mortality.

The registered number of deaths in 1931 of children under 1 year is 2,345 as against 2,620 in 1930, showing therefore a decrease of 275 in the total. The proportion per 1,000 births is 113.3 in 1931, as against 124.8 in 1930, representing a decrease of 11.5 per thousand.

Table V indicates the variations in infant mortality during the last ten years, for each year separately and in groups of five and of ten years.

TABLE V

DEATHS FROM 0 TO 1 YEAR PER 1,000 BIRTHS (Still-born not included)

Period 1921-1925 (5 years)

Years	Births	Deaths under one year	Proportion per 1,000 births
1921	21,136	3,289	155.6
1922	20,720	3,304	159.4
1923	20,527	3,057	148.9
1924	21,500	3,151	146.5
1925	21,976	2,690	122.4
Average	21,136	3,289	155.6
	926-1930 (5	ō years)	
1926	21,098	2,521	119.5
1927	20,740	2,424	116.9
1928	20,307	2,929	143.7
1929	20,415	2,701	132.3
1930	20,993	2,620	124.8
Average	20,711	2,639	127.4
Period 19	21-1930 (10) years)	
Average	20,941	2,868	137.0
	Year 1931		
Year 1931	20,699	2,345	113.3

Infant diarrhoea.

Table VI shows a statement of infant mortality from diarrhoea during the last ten years, of children from 0 to 1 year, as well as in periods of five years from 1921 and the averages for the five years and ten years periods.

The percentage of deaths from diarrhoea is 39.5 per thousand, in 1931, while the average for the ten years from 1921 to 1930 is 49.2, which indicates a decrease of 9.7 per thousand births, in favour of the year 1931.

TABLE VI

DEATHS FROM DIARRHOEA, FROM 0 TO 1 YEAR

Period 1921-1925 (5 years)

	Total	Deaths	Percentage	Per 1,000
Years	of deaths	by diarrhoe	a of deaths	births
	0 to 1	0 to 1	by diar-	
	year	year	rhoea	
1921	3,289	1,361	41.3	64.4
1922	3,304	1,380	41.8	66.6
1923	3,057	1,158	37.9	56.4
1924	3,151	1,086	34.5	50.5
1925	2,690	1,014	37.7	46.1
Average	3,098	1,199	38.7	56.6
	Period 1	926-1930 (5	years)	
1926	2,521	817	32.4	38.7
1927	2,424	799	32.9	38.5
1928	2,919	971	33.3	47.8
1929	2,701	865	32.0	42.4
1930	2,620	877	33.5	41.8
Average	2,637	866	32.8	41.8
	Period 19	921-1930 (10) years)	
Average	2,867	1,033	35.7	49.2
		Year 1931		
1931	2,345	817	34.8	39.5

Deaths from diarrhoea, from 0 to 2 years.

Table VII indicates the mortality from diarrhoea of children from 0 to 2 years. The percentage of deaths from these diseases in 1931 is 32.8, against 32.4 in 1930, which shows a slight increase of 0.4 per cent, but the average for the ten preceding years from 1921 to 1930 having been 33.4, indicates a decrease of 0.6% in favour of the year 1931.

TABLE VII

DEATHS FROM DIARRHOEA, FROM 0 TO 2 YEARS

renou	1921-1920 (years)	
Years	Total of deaths h 0 to 2 years	Deaths by diarrhoea 0 to 2 years	Percentage of deaths by diar- rhoea
1921	3,711	1,432	38.6
1922	3,831	1,482	38.7
1923	3,682	1,249	33.9
1924	3,615	1,172	32.4
1925	3,202	1,098	34.3
Average	3,608	1,287	35.7
Period	1926-1930 (5	o years)	
1926	2,952	877	29.7
1927	2,846	870	30.6
1928	3,434	1,061	30.9
1000		1,001	00.9

Period 1921-1925 (5 years)

Average	3,076	946	30.8
Perio	od 1921-1930 (1	0 years)	
Average	3,342	1,116	33.4
	Year 1931		
Year 1931	2,676	877	32 8

3,165

2,985

958

966

30.3

32.4

32.8

1930

Deaths from 0 to 1 year per 1,000 births and by periods of ten years.

Table VIII shows the average of deaths from 0 to 1 year, in periods of ten years since 1907 to 1930, and the mortality for the year 1931.

This table is certainly the one showing most obviously the constant decrease occurring in infant mortality.

Indeed, its perusal shows that for each period of ten years there has been a constant decrease from 1907 to 1931; it may perhaps be slight from one period to another, but the particularly interesting feature is that it has been constant and regular, the average of decrease being, for these 15 periods, of 5.6 per thousand births.

TABLE VIII

DEATHS FROM 0 TO 1 YEAR PER 1,000 BIRTHS, AND BY PERIODS OF TEN YEARS.

Years	Deaths Decrease
1907-1916	 221.1
1908-1917	 214.2 7.0
1909-1918	 208.3 5.9
1910-1919	 201.1 7.2
1911-1920	 196.9 4.2
1912-1921	 188.2 8.7
1913-1922	 183.4 4.8
1914-1923	 176.7 6.7
1915-1924	 171.7 5.0
1916-1925	 165.1 6.6
1917-1926	 158.6 6.5
1918-1927	 153.0 5.6
1919-1928	 148.2 4.8
1920-1929	 143.7 4.5
1921-1930	 137.0 6.7
1931	 113.3

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.

The proportion of deaths from 0 to 1 year compared to total of deaths was 23.72 in 1931; it is a decrease of 1.82 per cent on the figure for the year 1930, but a decrease of 1.44 per cent from the average for the five years from 1927 to 1931.

TABLE IX

PERCENTAGE OF DEATHS 0 TO 1 YEAR, COMPARED WITH THE TOTAL OF DEATHS.

Period 1922-1926 (5 years)

Years	Total deaths	Deaths from 0 to 1 year	Percentage
1922	9,945	3,304	33.32
1923	10,074	3,057	30.34
1924	9,752	3,151	32.31
1925	9,549	2,690	28.17
1926	9,660	2,521	26.10
Average (5 years)	9,796	2,944	30.05

Years 1927-1931 (5 ans)

1927	9,991	9 494	
		2,424	24.26
1928	10,961	2,919	26.63
1929	10,604	2,701	25.47
1930	10,256	2,620	25.54
1931	9,886	2,345	23.72
Average (5 years)	10,340	2,602	25.15

Percentage by periods, of deaths under 1 year, compared to the total of deaths from 0 to 1 year.

Table X allows to compare the percentage, by periods, of deaths under 1 year compared to the total of deaths from 0 to 1 year, since the year 1925.

This table shows, besides, the average for the five years 1926 to 1930, and the percentage for 1931.

In comparing the 1931 figures with the five years average from 1926 to 1930, this table shows there has been a notable decrease in deaths from the age of 3 months to the age of 12 months.

This would show that infant health notions are spreading and that the Baby Clinics have a considerable effect to obtain this result.

TABLE X

PERCENTAGE BY PERIODS, OF DEATHS UNDER 1 YEAR, COMPARED TO THE TOTAL OF DEATHS FROM 0 TO 1 YEAR.

Age	1926	1927	1928	1929	$\begin{array}{c} 1930 \hspace{0.1 cm} \mathrm{A} \\ 5 \end{array}$	verage years	1931
Under 24 hours 1 day to 1 week 1 week to 1 month 1 to 3 months 3 to 6 months 6 to 9 months 9 to 12 months	$\begin{array}{r} 12.74 \\ 16.89 \\ 19.67 \\ 15.20 \end{array}$	10.73 14.02 18.73 15.39 13.57	$11.10 \\ 11.41 \\ 17.20 \\ 19.39 \\ 13.05$	12.77 18.59 18.59	$11.3 \\ 14.7 \\ 20.6 \\ 18.3 \\ 11.6$	$11.2 \\ 13.1 \\ 18.4 \\ 18.3 \\ 13.0$	$14.0 \\ 21.0$

Total 100.00 100.00 100.00 100.00 100.0 100.0 100.0 100.0

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 show a slightly increase of 2.0% as compared to the average of the five years 1926 to 1930, and that they still cause the highest number of deaths from 0 to 1 year.

TABLE XI

PERCENTAGE OF DEATHS FROM CERTAIN CAUSES, COMPARED WITH THE TOTAL OF DEATHS FROM 0 TO 1 YEAR.

1926	1927	1928	1929	1930	Average	1931
					5 years	
3.73	2.89	2.67	2.18	3.09	2.91	2.39
9.28	8.41	9.25	8.63	8.78		10.28
1.51	2.19	2.33	0.07	0.31	1.28	0.77
32.41	32.95	33.27	32.02	33.47	32.83	34.84
3.89	2.93	2.50	3.78	4.66	3.55	5.41
7.77	9.32	15.79	16.92	17.25	13.41	18.08
19.20	21.07	16.24	17.55	14.20	17.65	13.05
2.58	2.14	2.19	3.78	2.25	2.59	1.15
1.31	1.44	1.06	1.37	2.44	1.52	1.79
8.60	7.51	6.61	6.22	6.22	7.03	4.99
9.72	9.15	8.09	7.48	7.33	8.36	7.25
	3.73 9.28 1.51 32.41 3.89 7.77 19.20 2.58 1.31 8.60	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Cases reported and deaths from certain contagious diseases.

Table XII shows the number of cases reported and of deaths from certain contagious diseases, in period of five years from 1922 to 1926, the average of these five years, and in period of five years from 1927 to 1931, as well as the average for these five years.

TABLE XIII

Year 1931 - Deaths from 0 to 1 year.

Table XIII indicates that deaths of nurslings have been more numerous:

 1° Amongst babies from 1 to 3 months and from 3 to 6 months.

2° During the months of August and September.

TABLE XII

CASES REPORTED AND DEATHS FROM CERTAIN CONTAGIOUS DISEASES.

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Years		Diph- theria	Scarlet fever	Meas- les	Whoo- ping cough	Erysi-	Chick- en-pox	Small- pox	Ty- phoid fever
1922	Cases Deaths	$1285 \\ 153$	2113 98	$2445 \\ 36$	390 75	101 25	483	_	271 63
1923	Cases Deaths	$ \begin{array}{r} 1195 \\ 160 \end{array} $	$2035 \\ 71$	$1995 \\ 55$	$599 \\ 142$	130 18	669 1		165 47
1924	Cases Deaths	$753 \\ 102$	3057 97	$1328 \\ 40$	538 87	$ \begin{array}{c} 103 \\ 12 \end{array} $	818 6	9	150 51
1925	Cases Deaths	788 100	$2371 \\ 58$	$3438 \\ 59$	620 93	$\begin{array}{c} 164 \\ 21 \end{array}$	896 1		$ \begin{array}{r} 140 \\ 52 \end{array} $
1926	Cases Deaths	$1219 \\ 139$	$\begin{array}{c}2119\\48\end{array}$	$\begin{array}{c}1302\\27\end{array}$	718 129	$ \begin{array}{r} 1641 \\ 31 \end{array} $	792 1	-	$ 105 \\ 34 $
Average (5 years)	Cases Deaths	$ \begin{array}{c} 1048 \\ 131 \end{array} $	$\begin{array}{c}2139\\74\end{array}$	$\begin{array}{c} 2102\\ 43 \end{array}$	$573 \\ 105$	$132 \\ 21$	732 2	2	$\begin{array}{c} 166 \\ 49 \end{array}$
1927	Cases Deaths	$ \begin{array}{r} 1854 \\ 219 \end{array} $	2058 38	$2636 \\ 47$	756 106	$ \begin{array}{c} 167 \\ 42 \end{array} $	669 3	10	5131 553
1928	Cases Deaths	$ \begin{array}{r} 1632 \\ 157 \end{array} $	$2291 \\ 39$	$\begin{array}{r}4347\\65\end{array}$	$275 \\ 37$	$201 \\ 35$	$\begin{array}{c}1246\\9\end{array}$	108	$\begin{array}{c}173\\39\end{array}$
1929	Cases Deaths	$1254 \\ 115$	$\substack{3135\\65}$	$\begin{array}{c} 2471 \\ 26 \end{array}$	1993 88	$223 \\ 26$	$\begin{array}{c}1835\\3\end{array}$	40	98 27
1930	Cases Deaths	930 83	$\begin{array}{c} 2364 \\ 41 \end{array}$	$2077 \\ 21$	$2014 \\ 76$	$206 \\ 35$	$\begin{array}{c} 2723 \\ 2\end{array}$	5	196 40
1931	Cases Deaths	750 71	$ \begin{array}{r} 1800 \\ 20 \end{array} $	$\begin{array}{r} 7352\\ 30 \end{array}$	966 29	179 20	$\begin{array}{c} 2517 \\ 5 \end{array}$		$128 \\ 34$
Average (5 years)	Cases Deaths	$ \begin{array}{r} 1284 \\ 129 \end{array} $	$\begin{array}{r}2170\\41\end{array}$	3777 38	$\begin{array}{c}1201\\67\end{array}$	195 32	$\frac{1798}{4}$	33	1145 139
Average (10 years)	Cases Deaths	$ \begin{array}{r} 1166 \\ 130 \end{array} $	$2153 \\ 58$	$2939 \\ 40$	887 86	$ \begin{array}{r} 163 \\ 26 \end{array} $	$1265 \\ 3$	18	645 94

* Epiden ic.

TABLE

YEAR 1931 - DEATHS FROM 0 TO 1 YEAR

Month	Under 24 hours		1 day to 1 week		1 week to 1 month			
	Sex	Total	Sex	Total	Sex	Total		
January	М	12	23	22	31	24	43	
vanuary	F	11	20	9		19		
Fahmann	М	19	28	13	20	18	26	
February	F	9	20	7		8		
March	М	21	20	16	00	16	28	
March	F	11	32	12	28	12		
Annell	М	25	00	21	32	17	39	
April	F	11	36	11		22		
Man	М	18		18	33	. 9	23	
May	F	7	25	15		14		
Iuna	М	15	22	14	28	9	13	
June	F	7		14		4		
Lula	М	20	27	11	22	8	23	
July	F	7		11		15		
	М	16	25	12	21	17	27	
August	F	9		9		10		
21	М	8		23	30	16	30	
September	F	9	17	7		14		
Ontohan	М	14		13	23	13	32	
October	F	10	24	10		19		
Name	М	9		7	19	10	19	
November	ŕ	11	20	12		9		
December	М	13		12	23	11	25	
December	F	8	21	11		14		
Total	М	190		182		168	328	
Total	F	110	10 300	128	310	* 160		
Average		2	25.0		25.8		27.3	
Per cent	12.8%		13.2%		14.0%			

XIII.

Classified by month, sex and age categories.

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
19 25	44	20 20	40	9 12	21	7 7	14	113 103	216
24 15	39	16 19	35	12 7	19	13 18	31	115 83	198
19 17	36	16 18	34	18 18	36	10 11	21	116 99	215
20 22	42	13 10	23	15 9	24	9 7	16	120 92	212
14 19	33	17 8	25	8 11	19	7 6	13	91 80	171
21 13	34	13 6	19	4 2	6	3 5	8	79 51	130
25 19	44	39 22	61	18 9	27	6 4	10	127 87	214
33 30	63	23 28	51	29 12	41	11 12	23	141 110	251
23 26	49	27 20	47	14 13	27	5 13	18	116 102	218
20 20	40	15 21	36	6 12	18	7 5	12	88 97	185
17 13	30	22 15	37	14 8	22	6 9	15	85 77	162
19 17	36	27 9	36	9 11	20	5 7	12	93 77	173
254 236	490	248 196	444	156 124	280	89 104	193	1287 1058	2345
40.7		37.0 18.9%		23.4 11.9%		16.0 8.2%		<u>195.2</u> 100.0%	

A few principal causes of mortality.

Table XIV shows the number of deaths from certain principal causes, from 1921 to 1925, the average for these five years; the number of deaths for 1926 to 1930 from the same causes and the average for these five years. It shows besides, the average of deaths from the same causes, for the 10 years 1921-1930, and deaths during the year 1931, from the same diseases.

TABLE XIV

A FEW PRINCIPAL CAUSES OF MORTALITY.

Deaths from 1921 to 1931

Period 1921-1925 (5 years)

		Organic								
			Bright's	dis-	Broncho-					
Years		Cancer	dis-	eases of	pneu-	Pneu-				
			ease	the heart	monia	monia				
1921		462	542	747	543	567				
1922		489	571	768	538	521				
1923		539	618	687	580	542				
1924		546	655	696	485	407				
1925	;	605	676	719	482	583				
Average	•••	528	612	723	526	524				
Period 1926-1930 (5 years)										
1926		609	738	727	507	454				
1927	• •	601	762	821	431	351				
1928	• •	641	674	867	666	500				
1929	••	749	794	1204	465	346				
1930	••	806	664	1235	540	500				
Average	• •	681	726	971	522	430				
Period 1921-1930 (10 years)										
Average	••	605	669	847	524	477				
			Year 19	31						
1931		808	741	1322	452	328				

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 1921 to 1925 and from 1926 to 1930 and average for the 10 years from 1921 to 1930, from the diseases mentioned in table XIV, compared to the total of deaths, and deaths from the same diseases for the year 1931.

This table indicates an increase in 1931 of 0.3% in the proportion of deaths from cancer, an increase of 1.0%in deaths from Bright's disease and an increase of 1.4%in deaths from organic diseases of the heart, over the preceding year.

There was also an increase of 0.3% in the proportion of deaths from broncho-pneumonia, but a decrease of 0.1% in the proportion of deaths from pneumonia.

TABLE XV

PROPORTION OF DEATHS FROM DISEASES MEN-TIONED IN TABLE XIV COMPARED TO THE TOTAL OF DEATHS

Period 1921-1925 (5 years)

Years	Total of deaths	Cancer	Bright's disease	Organic diseases of the heart		Pneu- monia
1921	9,740	4.7%	5.6%	7.7%	5.6%	5.8%
1922	9,945	4.9%	5.7%	7.7%	5.4%	5.2%
1923	10,074	5.3%	6.1%	6.8%	5.7%	5.4%
1924	9,752	5.6%	6.7%	7.1%	5.0%	4.2%
1925	9,549	6.3%	7.1%	7.5%	5.0%	6.1%
Average	9,812	5.4%	6.2%	7.4%	5.4%	5.3%

Period 1926-1930 (5 years)

1926	 9,660	6.3%	7.6%	7.5%	5.2%	4.7%
1927	 9,991	6.0%	7.6%	8.2%	4.3%	3.5%
1928						
1929						
1930						
Average						

Period 1921-1930 (10 years)

Average .. 10,052 6.0% 6.6% 8.4% 5.2% 4.6%

Year 1931

Year 1931. 9,886 8.2% 7.5% 13.5% 4.6% 3.3%

Deaths per 100,000 population, from diseases mentioned in table XIV from 1921 to 1931.

Table XVI indicates the proportion of deaths per 100,000 population, from diseases mentioned in table XIV for the years 1921 to 1930, in periods of 5 years, the average for five years, from 1921 to 1925 and for five years from 1926 to 1930, and the average for ten years from 1921 to 1930, as well as the average of deaths for the year 1931.

A study of this table shows that in 1931 the proportion of deaths from cancer is 2.64 lower than in 1930; it is 17.45 higher than the average for the five years 1921-1925, and 7.06 higher than the average for the five years 1926-1930, and 12.26 higher than the average for the ten years 1921-1930; consequently, the death rate from cancer is constantly increasing and corresponds with the observations gathered in a great number of countries. Deaths from Bright's disease which were 664 in 1930 have increased to 741 in 1931. If we consider these deaths compared with the population, we arrive at an average of 95.02 per 100,000 inhabitants for the period of 1921 to 1925; an average of 99.16 for the five following years; of 97.09 for the 10 years and 91.14 for 1931. It is quite an amelioration in regards to the average of the last ten years.

Deaths from organic diseases of the heart have still increased considerably in 1931; not only for the average of the last ten years, but also for over the year 1930.

On the other hand, broncho-pneumonia and pneumonia are decreasing to quite an extent.

TABLE XVI

DEATHS PER 100,000 POPULATION, FROM DISEASES MENTIONED IN TABLE XIV FROM 1921 TO 1931

Period 1921-1925 (5 years)

Years	Cancer		Organic diseases of the heart	Brocho Pneu- monia	Pneu- monia
1921	 74.69	87.63	120.77	87.77	91.67
1922	 77.52	90.52	121.75	85.29	82.59
1923	 83.87	96.16	106.90	90.25	84.34
1924	 83.26	99.88	106.13	73.95	62.06
1925	 90.32	100.92	107.34	71.96	87.04
Average	 81.93	95.02	112.58	81.84	81.54

Period 1926-1930 (5 years)

1926	 88.97	107.81	106.21	74.07	66.32
1927					
1928					
1929	 98.29	104.20	158.00	61.02	45.41
1930				55.32	
Average				68.36	54.65

Period 1921-1930 (10 years)

Average 87.12 97.09 121.76 75.10 68.10

Year 1931.

Year 1931 ... 99.38 91.14 162.61 55.60 40.35

Mortality from tuberculosis.

The number of deaths from tuberculosis, in all its form, was 887 in 1931, having been 983 during previous year; it shows consequently a decrease of 96 on the whole number. The proportion per 100,000 population which in 1930 was 124.4, is of 109.1 for 1930, showing a decrease of 15.3 and the average of the ten preceding years which was 138.8 shows a decrease of 29.7 in favour of the current year.

Table XVII shows the number of deaths since ten years, pulmonary and other forms separately, the general total, as well as the proportion per 100,000 of population; it is divided in two parts and indicates the average of deaths in periods of five years, the average for ten years and also the number of deaths for the year 1931.

TABLE XVII

DEATHS FROM TUBERCULOSIS

Period 1921-1925 (5 years)

				F	Proportion
					per
Years	Popula-	Pulmo-	Other	Total	100,000
	tion	nary	forms	ir	nhabitants
1921	618,506	741	179	920	148.7
1922	630,800	761	179	940	149.0
1923	642,650	813	167	980	152.5
1924	655,800	807	171	978	149.0
1925	669,800	805	131	936	139.7
Average	$643,\!510$	785	165	950	147.7

Period 1926-1930 (5 years)

1926	684,500	796	158	954	139.4
1927	699,500	763	123	886	126.6
1928	742,000	801	137	938	126.4
1929	762,000	823	190	1,013	132.9
1930	790,000	806	177	983	124.4
Average	735,600	798	157	955	129.9

Period 1921-1930 (10 years)

Average.			689,555	791	161	952	138.8
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Year 1931

Year 1931 813,000 766 121 887 109.1



Comments

THE POLIOMYELITIS.

The poliomyelitis epidemic which has preceded that of 1931, occurred in 1916. Since then, there were a few cases reported every year, but Montreal has been fortunately spared, although this disease frequently appeared, in some intensive form, in many cities of North America.

The Table below shows the number of cases reported with the deaths from 1920 to 1930.

Year	Cases Deaths	Year	Cases Deaths
1920	10 5	1926	4 3
1921	10 3	1927	4 3
1922	7 2	1928	22 2
1923	10 .5	1929	37 6
1924	4 3	1930	10 3
1925	9 5		

In 1931, the epidemic was rather prevalent: the total of cases reported and confirmed was of 744. The deaths came to 74, exactly 10% of the cases.

For the complete report of the 1931 epidemic we advise the reader to turn to page 102 under section of Contagious Diseases; however, I take this present opportunity to make a few remarks.

In 1916, after some rare cases, the disease became intensified in August, even more so in September, reaching its highest mark in October. Declining quickly in November, the epidemic receeded to such an extent that only one case was reported in December.

From January to July, 1931, there were only two cases, then the disease took its regular development during July. August and September, to attain its highest point during the week from September 27 to October 3rd, and then to suddenly decline during October and continuing to diminish with but a few cases weekly, to the end of the year.

The following Table indicates the progress and decline of this epidemic:

	Number	Number
Onset	of cases	of deaths
In May	1	1
In June	1	0
In July	12	1
From 1st to 8th Aug	21	0
From 9th to 15th Aug	18	2
From 16th to 22nd Aug	31	0
From 23rd to 29th Aug	53	4
From 30th Aug. to 5th Sept	54	2
From 6th to 12th Sept	58	7
From 13th to 19th Sept	54	7
From 20th to 26th Sept	87	12
From 27th Sept. to 3rd Oct	107	7
From 4th to 10th Oct	84	12
From 11th to 17th Oct	68	7
From 18th to 24th Oct	30	4
From 25th to 31st Oct	23	4
From 1st to 7th Nov	14	1
From 9th to 14th Nov	7	1
From 15th to 21st Nov	4	2
From 22nd to 28th Nov	6	0
From 29th Nov. to 4th Dec	3	0
From 5th to 11th Dec	6	1
From 12th to 18th Dec	1	0
From 19th to 25th Dec	0	0
From 26th to 31st Dec	1	0

The mode of treatment applied by the Physicians and in the Hospitals was the one actually recommended and consist of poliomyelitis convalescent serum. Its distribution was made by the Health Department, free of charge, to all Physicians and Institutions who asked for it.

Usually the dose injected to each patient was of 25 c.c.

In spite of the fact that the above treatment is valuable only if applied before paralysis has set in, it was distributed to all those who wanted to use it, without any regard to what period of the disease employed.

However, a general revision of all the positive cases taken care of with the said treatment (omitting all suspected cases) gives a total of 540 cases, with the following results:

1° NUMBER OF CASES TREATED WITH SERUM: 540

Favorable result.

	Before paralysis	After paralysis				
Cases improved	35	146				
Cases cured	55	120				
Unfavorable	e result.					
Unimproved cases	31	101				
Deceased	15	37				
2° CASES TREATED WITHO	UT SERUM:	118				
Favorable	result.					
Improved		31				
Cured	• • • • • • • •	51				
Unfavorable result.						
Unimproved		15				
Deceased	•••••••••	· · · · 21				

In view of the above, and the result obtained, we cannot but help to form the opinion that this mode of treatment has failed to come up to our expectations.

Consequently, we come to the conclusion that, if the serum utilized is to be effective, its manner of treatment must, at least, be modified: the dose increased, the injections repeated, etc., and we must continue to make urgent scientific research, because of the gravity and serious consequences to which the patients are exposed.

HOSPITALS FOR CONTAGIOUS DISEASES.

The actual capacity for the hospitalization and treatment of contagious patients in the City of Montreal is 280 beds; the capacity for hospitals of contagious patients has not been increased since 1905 and it has become quite inadequate, because the population of this city has more than doubled since they have been built. There are two hospitals for contagious persons: Alexandra (Protestant) and St. Paul Hospitals (Catholic) either catholics or protestants are treated in any of these two establishments.

Both corporations are working out in pursuance of contracts passed with the city of Montreal.

The contract passed with the Corporation of Notre-Dame Hospital for the maintenance of St. Paul Hospital, will mature on the 1st of January, 1934; it was replaced by another passed with the Corporation of St. Luc Hospital which will come into effect at that date.

In pursuance of this contract a new hospital will be built, with a capacity of 300 beds, ipso facto increasing of 170 the quantity of beds available for contagious patients. It will be elevated on a piece of land provided by the City, which is located on Sherbrooke Street, opposite Moreau Street, and where presently stands the City's Small-pox Hospital.

The piece of land rented to the St. Luc Hospital for the erection of the Contagious Diseases Hospital has the following dimensions: 415 feet depth x 350 width, bounded on each side by a lane of 20 feet.

The agreement passed with the St. Luc Hospital contains, amongst articles of less importance, the following:

Article 1. — The said City of Montreal, by the presents, rent to the said St. Luc Hospital, presents and accepting by its representatives above mentioned, a piece of land for the purpose of a hospital for contagious patients.

Article 2. — The present lease (for the use of the piece of land) is consented to for a term of twenty-five (25) years, from the first of January, 1934, in consideration of payment of one dollar a year, payable at the City Hall, every year, on the first day of May.

Article 3. — The said St. Luc Hospital hereby obliges itself to construct, within a delay of two years form the date hereof, a hospital of a capacity of 300 beds and to adequately equip same, so that it will be in a position to give to its contagious patients the most modern treatments.

Article 4. — The said St. Luc Hospital also obliges itself to submit to the authorities of the City, the plans and estimates that will be prepared for the erection of the said hospital, and to begin such construction only after approbation, by the City, of the plans and estimates. It is also stipulated that the city's engineers may supervise the construction of the hospital, moreover, that until the end of the present contract, the City is authorized to inspect, from time to time, the building to see if it is properly maintained.

Article 5. — The said St. Luc Hospital agrees and expressly obliges itself to receive, to treat and to care for, all such persons or patients that the said City may send or cause to be sent, to the said hospital, of all races and creeds without distinction, suffering from any one of the following diseases: diphtheria, scarlet fever, measles, erysipelas, whooping-cough, mumps, chicken-pox, or any other contagious disease.

Article 6. — The said St. Luc Hospital agrees and obliges itself to go at its cost, in quest of sick persons in any and all parts of the City.

Article 7. — The discharge of the patients sent to the said hospital by the said City shall be subject to the regulations governing quarantine as established by the Health Department of the City of Montreal and also to the rules of the Board of Health of the Province of Quebec.

Article 8. — All the beds in the said hospital shall be reserved for the citizens of Montreal, when the number of cases shall require full capacity. The sick persons from other municipalities will be cared for in the hospital only if such municipalities agree to pay a sufficient price, per day of hospital treatment, to cover all expenses, including expenses as to capital and interest.

Article 9. — The said hospital undertakes, as much as it will be possible, to entrust the internal administration of the hospital, to a religious community of women.

Article 10. — In the event of an epidemic and at all times when the said City shall judge it necessary, the said City shall have the right of the exclusive use of all the beds of the hospital for treatemnt of persons affected with one contagious disease only, whatever mentioned or not in the present contract without any changes as regard to payment conditions. Article 11. — In consideration of the treatments and cares given to patients, the City shall pay to the said hospital a rate of three dollars and thirty cents (\$3.30) per day, for each bed occupied.

Article 12. — All sums of money shall be paid by the said City to the said hospital in and by four instalments, payable on the last iegal day of the months of March, June, September and December, each year.

Article 13. — The said City hereby obliges itself to guarantee the loan to be made for the erection of the said hospital, which loan shall not exceed a million five hundred thousand dollars (\$1,500,000.00) in capital and interest, with the agreement that the rate of interest shall not be more than five per cent (5%) per year.

Article 14. — The said City hereby obliges itself to pay a sufficient amount to reimburse the deficit that may be shown at the end of every year if the revenues are not sufficient to pay the annual instalment to the sinking fund, the loan's interest and the general expenses for the administration and care of the building. It is specially convened and agreed that the said hospital shall accumulate the surplus revenues, if any, of every past year and the City shall be called upon to pay the deficit only, as is hereby agreed, if the amount of the accumulated surplus is not sufficient to pay the deficit.

Article 15. — It is understood that the said City shall exercise an absolute control of the said hospital from the point of view of hygiene and of the treatment to patients.

Article 16. — The Director of the Health Department or its representative shall visit the said hospital and the hospital's authorities shall immediately give any information asked.

Article 17. — The said City shall be represented by one of its members on the Board of Direction of the said hospital, during the construction of the hospital and also, until the maturity of the present contract. Article 18. — The said hospital shall keep assured against fire, the building and furniture to such an amount sufficient to guarantee the said City of reimbursement of all the moneys it could have advanced and guaranteed.

Article 20. — It is expressly agreed and this condition is of the essence of the present agreement that at the end of this contract, the said City will become absolute and exclusive proprietary of the said hospital and its equipment, unless a new agreement shall have been passed between the said City and the said hospital.

The increase in the capacity of beds will be of a great assistance to the Health Department, to exercise a control of the spreading of contagious diseases.

When a contagious patient is cared for in a hospital, he is no longer a source of contagion to his family nor the community.

SCHOLARSHIPS GRANTED TO THE PERSONNEL.

Among the important events which occurred in the year 1931, I wish to point out particularly that two physicians of the staff of the Department of Health, attended the John Hopkins University of Baltimore, Md., in order to complete their studies and obtain degrees in Public Health.

For this purpose the City Administrators voted to each one a scholarship of \$1,200.00 on the following terms:

(a) Appointment to be made by the CIty Executive Committee, on the recommendation of the Director of the Department of Health.

(b) Appointed physicians to remain in the City's employment for a period of five years.

(c) Leave of absence granted with salary for the duration of the course.

The two physicians selected are to specialize: one in child hygiene, the other in epidemiology. Both registered at the John Hopkins University in September, 1931, for the session 1931-1932 and will return by the end of June, 1932.

Such special training of members of the staff will contribute greatly in maintaining the Department of Health of the City on a high standard.

The City Administrators will, no doubt, be willing to adhere to such a progressive move and I hope that other scholarships will be granted to medical officers, as the increased efficiency of their services will more than compensate the City for the money spent, and moreover will constitute a real economy from a social stand-point.

THE EDUCATION AND TRAINING OF SANITARY OFFICERS.

During the convention of the American Public Health Association, held in Montreal during the month of September, the foundation of a Public Health Institute in the Province of Quebec was suggested in a paper read at a joint meeting of the International Society of Medical Health Officers and the American Society of School Physicians.

As it is important that this action be known and that, to insure the success of the project, the idea be spread as much as possible, the paper in question is published hereunder.

It is entitled "The Education and Training of Sanitary Officers", and, immediately following, there is also published a draft of organization entitled "Public Health Institute of the Province of Quebec — Constitution". Municipal and provincial health departments find it difficult to secure, for their staffs, individuals who are qualified by training and experience. This difficulty exists as regards all classes of employees, but it is experienced, particularly, in connection with sanitary inspectors, food inspectors and industrial hygiene inspectors.

Physicians and nurses do, in many cases, make up for their lack of previous training. There are individuals who, through experience, reach a high standard of efficiency despite their not having had any special academic preparation in Public Health. However, we must recognize, as a standard, that, in general, academic training is necessary for those who intend to enter the field of Public Health.

One should not lose sight of the fact that a public health official is, first of all, the health teacher of the masses. His health teaching can only be done effectively when he himself, through adequate preparation and continued study, has a thorough understanding of his subject. The problems he will have to solve require knowledge which is secured by study under the direction of competent teachers.

Those who are entering the field of public health should not be drifters — simply looking for a position as a means of livelihood. They should come to it, prompted by a desire for public service, at an age when they will be free to choose their career and able to benefit by special instruction. Indeed, the preparation of health workers would with advantage be undertaken immediately upon their leaving school, after they have received an adequate general education.

Public health workers should possess high ideals and should not be concerned merely with the question of salary. They should possess a genuine interest in their work, and realize that, notwithstanding all it difficulties, theirs is a noble and high ambition. They should be ready to meet rebuffs and even failures without the dread of defeat.

The individual who possesses a natural interest in public health finds in the Public Health School an opportunity for acquiring the necessary knowledge and securing the training required to make his work interesting and effective.

An understanding of Public Health has spread among the people. In the Province of Quebec, Public Health has recently been given considerable stimulus through the organization of County Health Units. The public are demanding that their political leaders recognize measures that are intended for the protection of health, with the result that candidates for municipal or provincial office include public health as a main plank in their platforms.

In response to public opinion, commendable efforts are being directed everywhere towards the improvement of the public health services. There is one important link still missing, which is nevertheless essential if the public health services are to be as efficient as we would wish them to be — the education of personnel.

At the present time, there are, in the Province of Quebec, two schools for the preparation of public health nurses, namely "L'Ecole d'Hygiène Sociale Appliquée" of "L'Université de Montréal" and the School for Graduate Nurses of McGill University. Courses leading to the Diploma in Public Health, open to graduates in medicine, are given at the three medical schools in the Province.

Municipalities have considerably increased their population during the past few years. Many of them have had to organize a public health service. Invariably they begin their organization by appointing a part-time physician, this being followed by the appointment of a nurse. The need for adding a third official is soon felt, one who will be responsible for inspections covering milk, meat and foods generally, nuisances, etc.

It may be possible for the municipality to secure a physician and a nurse who are able to perform their duties satisfactorily, but this is not the case as regards the third official. It not infrequently happens that the last-named possesses none of the qualifications which are essential to the fulfilment of his duties. The result is not satisfactory, indeed, conditions are worse than if the appointment had not been made. The people whom he attempts to supervise soon discover his ignorance, with the result that they lack confidence in him, they disregard his advice and feel that he is of no use. At the same time, they are not made to realize the importance of the proper care of foods and of the sanitation of their dwellings.

There is only one way to overcome this deficiency, and that is by organizing a special school for the training of those who are entering the public health services.

It is for these reasons then that I would suggest, as important, the creation of a Public Health Institute, where candidates for positions in the Public Health Service could be trained for whatever field of public health they might desire to enter, whether child hygiene, epidemiology, food inspection, including milk, sanitation, statistics, or laboratories.

It is of equal importance for the Province to have a Public Health Institute, as it is to have a Technical School, a Commercial High School, or a School of Fine Arts.

Public Health is a speciality requiring knowledge

which may best be acquired through theoretical and practical studies in a well organized school under the direction of a competent teaching staff.

Those who seek to attain to the higher offices may take their training at the universities organized to give courses in Public Health. It is out of the question to send most of the employees or candidates for the public health service to those universities, and it is not to be exepected that they will go of their own accord. Therefore, we should have a Public Health Sschool where these individuals could receive the necessary education, without too great displacing, or causing undue interference with their duties and entailing much expense.

A Public Health Institute is needed in the Province of Quebec. Such an Institute would provide all public health services in the province with valuable officials, and, for industrial and commercial establishments, competent workers for the sanitary supervision of factories, the handling of foods, etc.

Commercial organizations would, without a doubt, soon use the services of graduates of such an institution in preference to any others, thus a new career would be opened, to which a number of young people would be attracted for training.

Is it not reasonable to expect that, in time, health workers will be required by law to furnish a certificate of training, as is now done in the case of teachers, nurses or technical workers in certain trades.

The public Health Institute would be a strong factor in spreading public health knowledge. Teaching bodies would not be slow to make use of the advantages it offered to further their own knowledge and so benefit their pupils in primary or high schools and even in colleges. In addition to those attending the Institute for preparation as health workers in private or public organizations, lay teachers and members of the various religious communities, both men and women, would also form a large body of students for special instruction.

It appears that the organization of a Public Health Institute in this Province would meet an immediate need, that it would render real service and that it would have the support of public opinion.

The Institute could be made a reality with the cooperation of the Provincial Department of Health, the Department of Health of the City of Montreal, and that of the three Universities of the Province, Université de Montréal, McGill and Laval Universities. Financial support might be expected from the Provincial Government and the City of Montreal.

PUBLIC HEALTH INSTITUTE OF THE PROVINCE OF QUEBEC.

Constitution.

ARTICLE 1. — A public health institute, to be known as "The Public Health Institute of the Province of Quebec" is hereby constituted. Its head office shall be in Montreal.

Purpose.

ARTICLE 2. — The aim of the Public Health Institute is to promote the teaching and practice of public health, and more especially:

(1) To provide for the technical training (both theoretical and practical) of those who intend to do public health work, namely, physicians, veterinarians, dentists, nurses, engineers, sanitary inspectors: inspectors of food, sanitation, etc.

(2) To provide for the technical training of the personnel of the various voluntary health organizations, such as well-baby and other health conferences, anti-tuberculosis dispensaries, dental clinics, social service, bed-side nursing service, etc., and of those who are in charge of the health services in industrial and commercial establishments.

(3) To provide for the instruction in hygiene both of religious and lay teachers attached to the various educational institutions: primary schools, high schools, technical schools, domestic science schools, normal schools, schools of higher commercial studies, classical colleges, etc., as well as in the novitiates of the various religious communities.

(4) To provide for the instruction in hygiene of the population in general, by means of lectures, exhibitions, meetings, etc.

(5) To provide for the application of practical measures, such as vocational training, industrial hygiene, periodic medical examination, etc.

(6) To promote the spread, throughout the Province, in any manner that is deemed suitable and effective, of scientific knowledge with the object of safeguarding public and personal health and promoting individual normal development.

In order to enable it to attain these objectives, the Institute may organize independent teaching, enter into such agreements with the universities as may be necessary in order that a course of lectures in public health be given by the universities, establish a museum and a library, publish a bulletin and a journal, organize a public health association, etc.

ARTICLE 3. — The programme of the courses of the Institute may be divided into various sections, as follows:

(1) A section for physicians who are to specialize in public health;

(2) A section for nurses who are to specialize in public health;

(3) A section for professors, teachers, etc.;

(4) A section for sanitary inspectors: inspectors of food in general, of milk, sanitation, etc.

The Institute may add such branches as it may deem necessary or advisable to create, such as a sanitary engineering branch, a mental hygiene branch, an industrial hygiene branch, a research branch, etc.

The courses may be so combined as to permit of their being given jointly to the pupils of the different sections.

Powers.

ARTICLE 4. — The Public Health Institute is authorized:

(1) To organize a comprehensive system of teaching, both theoretical and practical, in public and personal hygiene.

(2) To draw up the curriculum and to appoint the lecturers.

(3) To confer degrees, certificates or diplomas on the persons who shall have followed the courses and successfully passed the examinations, the whole in accordance with the by-laws of the Institute;

(4) To receive subsidies, grants, contributions, gifts, etc.;

(5) To administer the funds so placed at its disposal;

(6) To adopt any by-law deemed necessary for the regulation of its internal organization and conduct.

Membership.

ARTICLE 5. — The Institute shall be composed of charter members, active members, associate members, corresponding members, and a teaching staff.

Charter members.

 of the University of Montreal; Dean of the Faculty of Medicine of McGill University; Director of the Provincial Bureau of Health; Director of the Health Department of the City of Montreal. They shall be appointed for life.

Active members.

The active members must be professors in a Faculty of Medicine of one of the three universities of the Province, or hold an official position in a public health department (federal, provincial or municipal), and be residents of the Province of Quebec.

Ten shall be appointed by the charter members, and shall be selected as follows:

Two shall be professors in Laval University;

Two shall be professors in the University of Montreal;

Two shall be professors in McGill University;

Two shall be officials of the Provincial Bureau of Health;

Two shall be officials of the Health Department of the City of Montreal.

They shall be appointed for a period of two years, and shall be eligible for re-appointment; however, in case they should be replaced, they shall retire from office alternately so that when the second appointment is made, one only of the two members shall be replaced, the other remaining in office for a third year; the choice of the member who is to remain in office shall be made by drawing lots.

Associate members.

The associate members shall be selected by the Board of Directors from among the group who are actively engaged in public health work, or who are teaching, or who are in a position to further the attainment of the objects which the Institute has in view, more especially physicians, dentists, professors, engineers, architects, nurses, men in public life, etc.

Corresponding members.

The corresponding members shall be those residing outside of the Province of Quebec; they must be on the staff of a recognized university, or hold an official position in a public health department or health organization.

Teaching staff.

The lecturers, as well as the members of the staff giving practical instruction, shall be appointed by the Board of Directors, under whose control they shall be. Their duties shall be determined by the by-laws adopted by the Board of Directors.

Board of Directors.

The Board of Directors of the Institute shall be composed of the charter members and ten active members appointed by the charter members.

The Board of Directors shall fill any vacancy which may occur in its membership.

The appointment of a member to replace a director must be concurred in by the vote of at least two-thirds of the remaining directors.

The Board of Directors shall, at all times, be composed of not less than fifteen members, the deceased charter members to be replaced by active members, who shall be selected from among those belonging to the same organization as the former incumbent, that is to say, to the Faculty of Medicine or to the health organization which he represented.

The active members, the associate members and the corresponding members shall be appointed by the Board of Directors in the manner determined by the by-law.

The Board of Directors shall have the power to administer the affairs of the corporation, to enact by-laws, to prepare the curriculum, to appoint its officers, as well as the teaching staff, etc.

Dues.

All members of the Institute shall pay an annual fee of five dollars.

All members of the Institute shall receive the publications edited by the Institute; they shall have access to the library and to the museum, and shall be associated with the Institute in all its activities and participate therein; they shall have membership in the public health association organized by the Institute.

Officers.

ARTICLE 6. — The Board of Directors shall appoint from among its members a Chairman, a Vice-Chairman and two secretaries, one French-speaking and the other English-speaking.

Chairman.

The Chairman shall direct the deliberations of the Board of Directors, etc. In case of his absence, the Vice-Chairman shall act as Chairman at the meetings of the Board of Directors.

Secretaries.

The Secretaries shall represent the Board of Directors in its dealings with the various sections of the Institute. They shall receive the reports of the heads of sections and transmit these to the Board of Directors. They shall prepare and submit to the Board of Directors the year-book of the Institute. They shall act as joint secretaries at the meetings of the Board of Directors. They shall perform all the duties assigned to them by the Board of Directors.

ARTICLE 7. — Any amendment to the constitution shall be previously communicated, in writitng, to the Board of Directors and the vote of three-fourths of the members shall be required for its adoption.

SUMMARY PLAN OF TEACHING.

INSTITUTE OF HYGIENE. - PHYSICIANS.

1° Post-graduate courses.

For physicians immediately after their graduation, program fulfilled in, approximately, one month

2° Post-graduate courses.

Courses during vacation, program fulfilled in, approximately, one month.

3° Regular course.

School year of from 8 to 9 months for physicians wishing to take a grade.

1st year — certificate.

2nd year — D.P.H. grade.

NURSES.

1° Post-graduate courses.

For nurses immediately after their graduation, program fulfilled in, approximately, one month.

2° Post-graduate courses.

Courses during vacation or during the year, program fulfilled in, approximately, one month.

3° Regular course.

School year of from 8 to 9 months for nurses desiring to take a grade.

1st year — certificate.

2nd year — P.H. Nurse grade.

MEMBERS OF THE CLERGY, TEACHERS, MEMBERS OF RELIGIOUS COMMUNITIES, MEMBERS OF VARIOUS ASSOCIATIONS.

- 1° Service of lectures. Possibly leading to the grant of a certificate.
- 2° Course lasting from 2 to 3 months possibly leading to the grant of a certificate of capacity.

GENERAL PUBLIC.

One lecture or a series of lectures in the different centers of the Province.

MEANS OF OBTAINING THE COOPERATION OF THE MEMBERS OF THE MEDICAL PROFESSION.

- 1° Study of said means.
- 2° Putting them into practice. Example: (a) immunization against diphtheria, typhoid fever, etc., etc.; (b) propaganda against tuberculosis, infantile mortality, etc., public health propaganda.
- 3° Preliminary preparation of the physicians in order to render their intervention efficient.

SUBJECT TREATED.

- (a) History, development of the application of public health measures.
- (b) Definition, fundamental principles.
- (c) Organizations: federal, provincial, municipal; powers and attributes of each of these sections.
- (d) Urban organizations: large and small towns.
- (e) Rural organizations.
- (f) Prevention of transmittable diseases.
- (g) Prevention of acquired diseases: professional or accidental.
- (h) Prevention of tuberculosis: pulmonary, of the bones or ganglionary.
- (i) Prevention of infantile mortality.
- (j) Legislation: federal, provincial, municipal.

- (k) Statistics.
- (1) Bacteriology.

(m) Chemistry.

(n) Parasitology. etc., etc.

N.B. — These subjects to be grouped and to apply to the special public to whom they are presented.

REMARKS.

In order to make the Institute known and attract students, lectures are to be given in the whole Province showing the advantages it offers and the importance for the whole population of knowing and practising hygiene, its interest from the humanitarian, national, economic, personal point of view.

ANNUAL MEETING, AMERICAN PUBLIC HEALTH ASSOCIATION.

The City of Montreal had the honour, in 1931, of acting as host to the American Public Health Association, when the Association held its Sixtieth Annual Meeting, from the 14th to the 17th of September.

Previously, the Association had met in Montreal in 1894.

The International Society of Medical Officers of Health, The Conference of State Sanitary Engineers, The American Association of School Physicians, and the International Association of Dairy and Milk Inspectors arranged for their annual meetings to be held in Montreal at the same time. Dr. Hugh S. Cumming, Surgeon-General of the United States Public Health Service and President of the American Public Health Association, presided at the meeting.

Dr. Louis I. Dublin, Third Vice-President and Statistician of the Metropolitan Life Insurance Company, who succeeds Dr. Cumming as President of the American Public Health Association, was present at the meeting. Four delegates attended from England, Dr. Charles Porter, Dr. James Fenton and Dr. George F. Buchan, who are Medical Officers of Health of London boroughs, and Sir Allen Powell, Chief Officer of Public Assistance of the London County Council. Among the 1,400 delegates registered were many prominent individuals, holding important positions in American and Canadian health organizations.

The scope and quality of the subjects on the programme were such as to make the meeting one of considerable importance from the scientific point of view, and to serve as an incentive, not only to Montreal, but to the Province of Quebec, indeed to the whole of Canada.

The meeting was not only worthy of note as a scientific gathering, but it was also made particularly enjoyable by reason of the social events which were arranged.

A three-day boat excursion on the St. Lawrence and the picturesque Saguenay rivers, in which over two hundred delegates participated, followed the meeting.

This excursion included a stop at Quebec City, where the delegates were received by Dr. Alphonse Lessard, Director of the Provincial Bureau of Health, at a luncheon given at the Chateau Frontenac, one of the Canadian Pacific hotels.

Another stop was made at Grosse-Ile, where the Quarantine Station of the Department of National Health is located. Dr. J. D. Pagé, Chief of the Division of Quarantine and Immigration Medical Services, received the delegates.

POPULATION.

The population of Montreal was, on the 1st of June, 1931, of 810,985 inhabitants according to the census made by the Federal Government (preliminary report).*

The evaluation of the population of this city, made by the Division of Statistics of the Health Department, for 1931, was of 810,000 inhabitants.

The concordance of these figures is interesting; in view of the fact that, after the Census of 1921, protestations were numerous, because many thought that the Federal Government's figures were incorrect.

The figures used by those who criticized, were not taken from the same sources than those of the Health Department and they estimated that the population of the City was much higher.

These critics have brought us to study this question carefully so that the evaluation we could make, should be based on known facts.

The evaluation of the population must be done with great care, because it serves as basis for the Vital Statistics, and if it was not exact, all the figures we could publish would be ipso facto erroneous.

We are pleased to be able to demonstrate that the figures published by the Health Department are sufficiently exact and that they can be trusted in every respect.

BREAST-FEEDING.

During 1931 the infant mortality has decreased quite considerably; indeed, the proportional death rate which, in

^{*} Since this report has been written, a final report of the Federal Census Bureau was received, establishing the population of Montreal at 818,577 inhabitants, which is 7,652 more than the total of the preliminary report.

1930, was of 124.8 per thousand births, has receded to 113.3; however, it is still at too high a figure and we are searching, by all means, to strenghten the organization of the campaign which we began almost 20 years ago.

It is a well known fact, now, that breast-feeding is one of the principal agents to prevent infant mortality, but, in spite of our advices, the quantity of mothers who nourish their baby, is not increasing.

For this reason, during 1931, we thought advisable to undertake a campaign of propaganda of which we expect good results.

It was inaugurated by a lecture to physicians and nurses of the division of Child Hygiene, delivered by Dr. Gaston Lapierre, Professor of Pediatrics at the University of Montreal and at the school of Applied Social Hygiene and Physician attached to the Ste. Justine Hospital.

An illustrated poster entitled "Mother feed your baby yourself" was prepared and printed, 25,000 copies of which were distributed to appropriate locations, where they could attract the most attention.

Moreover, the address given by Dr. G. Lapierre on Breast-feeding was published in the Health Bulletin and copies were sent to all the physicians of the City, to the authorities of all religious denominations and to all others who could contribute to the success of the campaign.

Both the poster and the lecture were profusely distributed through the medium of Baby Clinics; they will soon be sent, with other circulars and posters, to all mothers, immediately after registration of their child's birth (this will be possible only in 1932, with the new organization which will permit us to have notice of every birth as soon as reported).

The table below is a copy of the poster.





CHILD HYGIENE DIVISION.

Owing to its primordial importance, the Child Hygiene Division is steadily receiving all our possible efforts to perfect its organization and to improve its work; there were a few improvements, during 1931, which deserve to receive mention; they are the following:

1° Additions to the staff.

Nomination of three medical inspectors, thirteen nurses, 1 psychiatrist and two clerical assistants.

2° Mental Hygiene.

Inauguration of the Psychometric Test on the Protestant Board of School Commissioners, which, in so doing, is applying a similar programme in existence in the schools of the Catholic Commission.

3° Organization of two pre-natal clinics.

These pre-natal clinics have been organized and are working in co-operation with the nurses of the School of Applied Social Hygiene; these nurses supervise the recruiting of the cases.

In spite of the fact that it is very difficult to have these clinics frequented, the recruiting made has kept them quite busy and it is our intention, if the success persists, to gradually increase their number.

4° Pupils' eye defects.

In the schools of the Protestant Commission and with the co-operation of the The Canadian National Institute for the Blind, the pupils suffering from eye defects were subjected to a special survey with the object of obtaining special class-rooms especially equipped for children suffering from such defects.

5° Test of hearing.

The system for the pupils' hearing sensitivity was inaugurated a few years ago.

Through the medium of the "Audiometer", the degree of the loss of hearing sensitivity was searched out; this work was done by the regular staff of school inspectors.

This system has been reorganized by the adoption off a new method for the working out of which a special employee who, with the "Audiometer", has to inspect the schools one after the other; it is a possibility that another special employee will soon be added, so that this serivces may be vulgarized amongst the students.

6° Immunization against diphtheria.

The work of immunization against diphtheria, which began in 1928 is still much appreciated by the public which takes advantage of the opportunity offered, in such a way that the number of children vaccinated, in 1931, is much higher than that of 1930.

The number of children immunized in 1931 was of:

1st injection: 10,972.

2nd injection: 10,500.

3rd injection: 10,056.

Have undergone Posterior Schick Test: 3,654.

As in 1930, those who discontinued after the 1st on the 2nd injection, are relatively few; the above figures indicate exactly the number of children injected to the 31st of December; but it must be remembered that those who did not finish their immunization, at the end of the year; continue to receive it, the following year, and to undergo the Posterior Schick. During the year 1931, a large number of charitable institutions presented petitions to obtain subsidies from the City; such request were generally made for the reconstruction or the enlargement of the buildings intended for the hospitalization of the sick, the old people, the poor, to cover deficits or to undertake new deeds of charity.

As the assistance and the relief for the poor in a large city like Montreal become a very important problem, and bring a very great expenditure, the petitions were transmitted to me with instructions to make a general study of the question.

The following report was sent to the Executive Committee on the 18th November, 1931.

RE: PETITIONS FOR SUBSIDIES BY CHARITABLE INSTITUTIONS.

Montreal, November 18th, 1931.

To Mr. Honoré Parent, K.C., Director of Departments, by Dr. S. Boucher, Director of the Department of Health.

Dear Sir: --

On March 11th, 1931, you forwarded to me the documents of all the petitions for subsidies made to the City hospitals and various other charitable institutions. Since then you have forwarded me some others, with the instructions of making a general report on the advisability of granting such subsidies.

In reply, I am submitting the following general report.

It is a fact that charitable institutions cannot meet their obligations solely with the income derived from their operations nor from the aid of private charities.

All charitable institutions, hospitals, hospices and others must secure help from both the provincial and municipal governments. It is for this reason that I am greatly in favor of the principle of granting to these instiitutions the aid of the municipal as well as that of the provincial government, in as far as this is possible.

In addition to the amounts paid by the City of Monttreal in virtue of the provincial laws, the City has granted in the years 1930 and 1931 substantial subsidies to various charitable institutions.

The following is a list of these institutions and of the amounts granted to each by the City of Montreal. SPECIAL SUBSIDIES GRANTED BY THE CITY IN 1930-1931.

GENERAL HOSPITALS, ETC.

Contracts.

	Institutions	For what purpose	Engage- ment	Annual	Term	Paid	Date of payments
19-2-1931 St. I Modifie. 7-4-31	St. Luke Hospital	Construction		\$50,200.	20 years		1st February 1st August
23-4-1931 Disp St.	Dispensaire Hospice St-Henri	Use of premises for 15 years	\$15,000.	1	1	\$15,000.	
30-9-1931 St. N	St. Mary's Hospital	Construction	1	\$29,285.	20 years	1	31st March 30th September
Resolution Hebu 13-10-1931 Mi	Hebrew General and Maternity Hospital	Construction	\$50,000.	\$12,500.	4 years	1	January
		Ré	Résolutions.	0			

Resolutions:							
2-6-1930	Notre-Dame Hospital	Construction	\$50,000.	\$12,500.	4 years	\$12,500. January	January
23-1-1931	Children's Memorial	Construction	\$45,000.	\$15,000.	3 years	\$15,000. January	January
10-3-1931	Montreal General Hosp.	Fill up deficit		\$25,000.	20 years	\$25,000.	16th May
17-6-1931	Ecoles Ménagères Pro- vinciales	Construction	\$ 4,000.	\$ 4,000.	30 years	1	Payable with annual grants.
31-7-1931	Jewish Hospital for in- curables	Land					

In the granting of these subsidies, the City of Montreal is obliged to draw upon the general revenue which is appropriated to its administration, as it has no special revenue for the purpose of granting such subsidies.

The number of petitions for subsidies has been very numerous, the following is a list of these petitions and off the amounts petitioned for.

REQUESTS FOR GRANTS.

General Hospitals.

	Amounts re	equested	Purpose
Institutions	Capital	Annuity	of the request
Homeopathic Hospital Hôtel-Dieu Post-Graduate Hospital Women's General Hospital	Not specified. \$600,000.00 Land \$50,000.00		Deficits. Construction Construction projected. Deficit.
(situated at Westmount)	\$30,000.00	(more)	Denent.

Special Hospitals.

Ste-Justine Hospital Montreal Children's Hospital Montreal Convalescent Home	\$200,000.00 \$125,000.00	=	Construction. Construction
(Approximate cost of the lands)	\$ 27,879.04		Construction
Institut du Radium (Section of the University Hosp.)	_	\$30,000.	projected. Construction
Royal Victoria Hospital	Not specified.	-	

Assistance and educational establishments.

Institut Nazareth pour les A	veugles. \$100,000.00	Construction

REQUESTS FOR SUBSIDIES. — (Suite.)

Crèches.

	Amounts re	equested	Purpose
Institutions	Capital	Annuity	of the request
Crèche d'Youville (Grey Nuns)	Not specified.	-	Deficit.

Sanatoriums for tuberculous.

Institut Bruchési	\$640,000.00	-	Construction
Laurentian Sanatorium Association.		\$10,000.00 (more)	projected. Deficit.

Other institutions.

Hospice for Crippled Children	Not specified.	-	Foundation for boys, crippled & poor.
Œuvres Notre-Dame de la Merci	\$100,000.00	-	
Villa de la Broquerie	55,000.00		
Association Canadienne des Aveugles	10,000.00	-	
Neuro-Chirurgical Institute Fédération Catholique des Eclaireurs	-	\$15,000.00	
Canadian National Institute for the	/	5,000.00	1
Blinds	-	4,000.00	
Les Buissonnets	—	Not specified.	

To this list might be added several other petitions from various other associations, although these are not of as great an importance as the others, they are nevertheless justifiable.

These separate petitions do not tend to coordinate the work of public charities and when so granted, a complicated situation is the result; wherein some certain kinds of institutions may be increased beyond reason, while certain others which are of a more deserving and urgent nature, might not receive a sufficient grant and might be moreover totally neglected. Among the latter, I may mention homes for paralytics and for epileptics, sanatoriums for pulmonary and bone tuberculosis, asylums for infants and hospitals for children, etc.

The question of public assistance demands a complete study and consideration of the situation with the object in view of the formation of an organization which would govern all these needs and so prevent the too rapid development of certain kinds of institutions in detriment to these others whose numbers at present are insufficient. By the formation of such an organization, the work of those institutions of similar natures would be coordinated and a more complete cooperation would be established between them all.

This should be done by a Commission appointed by the Government which is the more interested party in this matter and not by the Municipality.

The municipalities should not intervene, except in answer to the call of the Government which, while specifying the amounts the municipalities should contribute would indicate the sources of income whereby such contributions could be paid. This would take care of the enlargements of existing institutions, the construction of new buildings or new foundations, as well as the maintenance of the institutions that already exist under the Quebec Public Assistance Act. In this manner, the organization already existing under said act would be enlarged and completed.

In this manner the population of all the municipalities in the Province would be called upon to contribute equally to public charity, whereas otherwise the burden has to be borne almost entirely by large municipalities.

The Quebec Government has already done much for charity and during the last years, it has created an organization which has surely done much good. Due to the rapid increase in requirements, the institutions are again making pressing appeals to obtain the aid of the municipalities in addition to that of the Government, even in the case where it is for the purpose of foundation or of enlargement or of reconstruction.

The Public Assistance of the Province of Quebec was organized by an act sanctioned on the 19th of March, 1921.

Under this act, a provincial service of public assistance was created.

This act defines the obligations imposed on the municipalities as regards the institutions recognized as public charitable institutions.

It enacts moreover the taxes to be imposed, in order to make it practical and states to whom the proceeds of said taxes will be remitted.

This act gives to the Service of Public Assistance power to determine the rate of payment granted to the different charitable institutions per day of hospitalization and per patient.

It gives at the same time to the Quebec Government, through its Service of Public Assistance, power to grant to charitable institutions subsidies in the form of an aggregate sum payable at once or by annuities.

It enacts that the rate paid per day for the hospitalization of the poor shall be paid jointly in the proportion of 50% each by the Quebec Government and the municipality in which the poor person resides.

Moreover (Art. 46), it enacts that the tax formerly known as "The Rights of the Poor" shall be remitted onehalf to the Quebec Government and one-half to the disposal of the municipality to pay its share of the maintenance of the poor in charitable institutions.

The collection of said tax is to be entirely at the expense of the municipality.

In order to dispose of the funds required to pay the expenses resulting from the coming into force of this act of Public Assistance the Government reserved the proceeds of several taxes which are mentioned in Article 51 of the act, which reads as follows:

"Article 51. — The amounts which must be paid over to the Treasury Department to form part of the special fund known as the Public Charities Fund shall include:

1. That part of the duties collected by municipalities under the provisions of section 46 of this act and which must be paid over according to the terms thereof;

2. The duties collected for licenses for places of amusements under the Quebec License Act (Chap. 25).

3. The duties collected for race-course licenses and entry duties at race-meetings, under the Quebec License Act;

4. The registration fees for apparatus employed in making bets or wagers upon race- courses and the duties imposed upon the said bets and wagers, under the Queber License Act.

The moneys collected under the provisions of paragraphs 2, 3 and 4 shall be paid over to the said fund after deducting the cost of collection."

Moreover, by an act, the Government imposed a tax on meals in hotels and restaurants; the proceeds of this tax are paid to it in their entirety.

Municipalities, in order to pay their share of the main tenance of poor people in institutions have only the share accruing to them from the tax called "The Rights of the Poor".

The City of Montreal under the Article 338a of its charter, has the right to grant subsidies for charitable purposes, but has no special income to be used for this purpose; the result of which is that when it grants any subsidy the money must be taken from its general income.

Until 1930 the City had not granted any subsidies to charitable institutions coming under the Public Assistance Act of Quebec, but in the years 1930 and 1931, it granted those mentioned in the table already given in this report.

It must be noted that the institutions situated in the City of Montreal are in no way municipal institutions and that they are used to a certain extent by the population of the other municipalities of the Province.

It must be taken into consideration also that when the Government grants a subsidy in this manner, the citizens of Montreal have contributed a fair share thereof.

It will be interesting to show in what position the city finds itself at present, as regards hospitals, infants homes and maternity hospitals, by considering the number of beds on which the population can count. With this reason in view I think it advisable to publish the following tables, showing: —

1. The number of beds at present at the disposal of the public in the different institutions;

2. The additions which will be made within a couple of years, construction having already been started on some, others being almost finished and others being on the point of starting.

3. The additions which are still only projects.

General hospitals.

		74	
	Remarks	Situated at Westmount	8
Additions	Projects	275 - 54 -	429
	Under construction	160 160 206 218 200 500 140	1424
*	Total	404 2300 250 250 250 250 250 250 250 250 250 2	2280
Actual number of beds	Public	$\begin{array}{c} 299\\ 214\\ 165\\ 112\\ 59\\ 55\\ 102\\ 102\\ 102\\ 102\\ 102\\ 102\\ 102\\ 102$	1412
Actual nun	Semi private	$^{25}_{6}$	364
	Private	$ \begin{array}{c} 135 \\ 53 \\ 53 \\ 20 \\ 20 \\ 20 \\ 22 \\ 20 \\ 20 \\ $	504
	Institutions	Montreal General Hospital Royal Victoria Hospital Hôtel-Dieu de St-Joseph. Notre-Dame. Saint-Lue. Ste-Jeanne d'Arc Western. Ste-Jeanne d'Arc Western. Ste Mary's. Hôp. Gén. de la Miséricorde Hômeopathic Chinese. Women's General. Hôpital Universitaire. (Montreal University) Jewish General.	

		Remarks				Construction to replace old hospital.		
N. C. C.	Additions	Projects	92	55		11	400	400
		Under construction	200 75	275		55		55
en.		Total	320 115 60	495	lous.	400 45	250 48 94 	837
Hospitals for children.	Actual number of beds	Public	290 115 60	465	ospitals for tuberculous.	309 45	200 45 94 	693
Hospitals	Actual num	Semi private		1	Hospitals 1	52	38	90
		Private	30	30		39	33 12	54
		Institutions	Sainte-Justine Children's Memorial Shriner's Hospital Montreal Children's Hospital			Sacré-Cœur Grace Dart Home	Laurentian Sanatorium Institut Bruchési Mount Sinaï Sanatorium Sanatorium Bruchési	

-					_		
		Actual nun	Actual number of beds			Additions	
Institutions	Private	Semi private	Public	Total	Under construction	Projects	Remarks
Sacré-Cœur	14 3	19	117 20	150 23	1 1		Will be in- cluded in the University
	17	19	137	173	-	1	- Hospital.
	I	Hospitals for chronic diseases.	r chronic d	iseases.		11	
Sacré-Cœur	16	21	117	154	1	1	
	16	21	117	154		1	
		Homes for	Homes for convalescents.	ents.			
St-Joseph des Convalescentes Montreal Convalescent Home Moore's Home	67	9	56 25 6 7	57 33 6 6		1 300 100	
	2	2	114	123		400	

Hospitals for cancerous.

76

			7	7							
	Remarks	Will close the 31-12-33. Will be replaced 1-1-34 by St. Luke Hospi-	tal. Will open the 1-1-34.						1	Situated at Westmount.	
Additions	Projects	1		I		1	11	1			1
/	Under construction	I	300	300		1	141		000	37	45
	Total	126	150 62 —	338		208	50 247	18	16 18	43	600
Actual number of beds	Public	116	138 62 	316	Maternities.	117	15 234	10	4 6	22	411
Actual num	Semi private	1	111	1	Mat	35	25 8	x	~~	10	89
	Private	10	12	22	-	56	10 5	1	6 6		100
	Institutions	Saint-Paul Hospital.	Alexandra Hospital Civic Hospital (small-pox) St-Lue Hospital			Royal Victoria Hospital.	(Montreal Maternity) Catherine Booth Mother's Hospital Maternité de la Miséricorde	Connected with General or Children Hospitals:	Ste-Jeanne d'Arc	Jewish Hospital. Women's General Hospital.	

	S	
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1	-	
	-	

				78				
-		Remarks					Situated at Westmount	
	Additions	Projects		1				11
		Under construction		1	ernities.	1		11
		Total	292 230 767 77	1466	Beds for babies in general hospitals and maternities.	110	50 40	18 18
	Actual number of beds	Public	292 230 767 88 75	1452	al hospital	1	15	10 4
	Actual nun	Semi private	13	12	es in gener	1	- 25	8 4
		Private	1 2	2	ds for babi	I	10	10
		Institutions	Crèche de la Miséricorde		Be	Section "A": Royal Victoria Hospital.	(Montreal Maternuy) Catherine Booth Mother's Hospital Women's General Hospital	Sainte-Justine Sainte-Jeanne d'Arc

ŀ

Section "B": Jewish Gereral Hospital

The following table is a continuation of the preceding ones, in which is shown the number of beds in the various institutions which are presently at the public's disposal, together with the number of beds there will be when new constructions are finished and the number of beds there will be if the projects are brought to fruition. This table shows in addition the proportion of beds per 1,000 of the population that there is now and that there will be later in general hospitals, in hospitals for children and in hospitals for tuberculous patients, when the new constructions will have been finished. SUMMARY

Hospitals, maternities, crèches, etc.

8	0
Projects of construction or enlargement in 1932	429 555 400 1
Number of beds per 1,000 of population	4.56 0.96 1.09
Under construction 1931-1932	1424 275 55 55 45 45 174 (on addition the 1-1-1934)
Number of beds per 1,000 of population	2.81 0.61 1.03
Number of beds actual total	2280 495 837 154 173 173 123 600 1466 236 236 338
Institutions	General hospitals. Hospitals for children. Hospitals for tuberculous. Hospitals for chronic diseases. Hospitals for cancerous. Maternities. Creches. Beds for babies in maternities. Hospitals for contagious.

POPULATION: 810,925 (Preliminary report, census 1931).

In conclusion, I would ask you to submit to the Executive Committee the following: —

1. That the question of Public Assistance in the City of Montreal is of Provincial interest and that it should be studied jointly by the Government and by the City.

2. That the creation or the enlargement of institutions should be decided upon only after the adoption of a plan, prepared so as to meet the demand and to prevent too large an expansion where it is not urgent.

3. That special subsidies should be granted only by the Government, which could impose a general tax, to which all citizens of the Province would contribute, for the reason that they are all equally interested, in so far as nstitutions are always at the disposal of all the citizens of the Province, although they are very often situated in he large centers.

4. That the present system of paying for hospitalizaion, half by the Government and half by the Municipality, hould be continued as it is equitable and just. However, Il the municipalities of the Province should be forced to neet their obligations by the enactment of an "Act of Residential Aid".

5. That there is no objection to the Government bassing a law allowing the municipalities to contribute o the foundation of the institutions which are lacking or o the enlargement of existing establishments. In such lases the amounts granted by the municipalities should ome from special taxes imposed for such purpose.

Respectfully submitted,

S. BOUCHER, M.D., D.P.H.,

Director of the Department of Health.

HEALTH COMMISSION.

This Commission was appointed by the City Counc according to by-law No. 1044 and was composed, for the year 1931, as follows: —

Alderman J. Allan Bray,* Chairman of the Executive Con mittee;

Alderman H. A. Quintal, M.D.;

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

Alderman F. W. Gilday, M.D.;

- Mr. S. Boucher, M.D., D.P.H., Director of the Department of Health;
- Dr. L. de L. Harwood, Dean of the Faculty of Medicine the Université de Montréal;
- Dr. E. G. Asselin, Professor at the Faculty of Medicin Université de Montréal;
- Dr. A. Grant Fleming, Professor at the Faculty of Mee cine, McGill University;
- Dr. Frank G. Pedley, Professor at the Faculty of Medicii McGill University.

The by-law stiplates that:

"The said Health Commission constitutes a consultibody, whose duty is to advise the municipal authorities all matters pertaining to public health, and to submit the Executive Committee all recommendations or sugg tions it may consider opportune on questions relating; public health, which it has had under study, either request from the said committee or by its own initiative

^{*} Mr. Bray resigned and was replaced in September, 1931, Alderman Tancrède Fortin, K.C.

During the year, this Commission studied the followig questions:

Collection of garbage on religious and on civic holiays.

Sanitary conditions in public baths.

Additions to the staff of the Department of Health.

Mental Hygiene in the Schools.

Immunization against diphtheria; report presented by ne Director of the Department of Health.

The Poliomyelitis in Montreal; report presented by virector of the Department of Health.

Publication of an illustrated poster entitled: "Mother eed your baby yourself".

Opportunity by the Municipality to allow subsidies to ospitals.

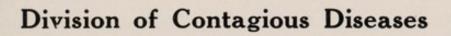
Display of fruits and vegetables outside the establishients.

Y-LAW CONCERNING PRIVATE MATERNITIES AND PRIVATE HOSPITALS.

The by-law concerning private maternities and private ospitals, project of which has been laid before the City dministrators in 1931, has not been adopted, because the harter did not confer them such power.

Such power was given to them at the last Session of the Provincial Legislature by an amendment to Article 300 i the City Charter, which article gives to the Council the ower of making by-laws, by adding after paragraph 170 thereof, the following paragraph: 171. — "To regulate private maternities and priva "hospitals and subject them to the granting of a pern "by the Director of Police Department and of a permit "the Director of the Health Department; to regulate t "equipment, linen, general care and nourishment in su "establishments as well as the staff thereof; to compel t "owners or directors or persons in charge of said esta "lishments to keep a record and to submit a report "their operations to the Director of the Health Depar "ment, and to subject said private maternities and sa "private hospitals to an inspection by the Director of t "Health Department or his representatives."

Consequently, it shall be presented once more; as has been published in the Annual report of 1930, we rethe reader who may wish to read it again, to same.



CONTAGIOUS DISEASES DIVISION.

Doctor S. Boucher,

Director, Department of Health,

City of Montreal.

Sir: --

I have the honour of handling you over the general statement of the activities of the Contagious Disease Division during the year 1931.

In the course of that year, 17,158 cases of contagion were registered, of which 2,124 were tuberculosis; these figures are somewhat higher than those of 1929 and 1938 Measles alone, which amounts to 7,333 on the total reported cases, must account for the said increase.

On 1,207 cases of death by communicable diseases i 1931, 887 were of tuberculosis, while in 1930, on 1,42 cases, 983 were of tuberculosis. This shows a total lessen ing of 229, of which 96 were attributable to tuberculosi

The last mentioned disease excepted, the death average by communicable diseases reported has been of 2.12° in 1931, against 3.26% in 1930.

The diseases that prevailed after measles are chicken pox (2,501) and scarlet fever (1,730 cases).

Only 706 cases of diphtheria are figuring for 193 while 1,254 cases in 1929, and 930 in 1930.

During the summer and fall of 1931, we have have an epidemic of acute anterior poliomyelitis (Infanti

Paralysis). The details of this epidemic are shown at the end of the present report, in chapter "Epidemiological Summary".

Three important facts which have occurred during 1931 ought to be especially mentioned.

1. Contract with St. Luke Hospital for the construction of an hospital reserved for the treatment and maintenance of infectious patients of the city.

2. The granting of a scholarship to a physician of the Contagious Diseases Division for the obtainment of a university degree.

3. Allowance of additional credits for the purchase of serum for the treatment of poliomyelitis cases during the epidemic.

All operations of this Division are shown in the following summary:

Cases reported and confirmed	17,158
Cases hospitalized (St. Paul and Alexandra)	2,617
Cases visited by the nurses (including subsequent visits)	24,237
Cases visited by epidemiologists to confirm diag-	
nosis	6,344
Houses placarded	6,939
Houses disinfected	4,677
Various visits by disinfectors	2,819
Visits and special investigations by supervising	
nurse	670
Literature distributed (approximately copies)	20,000

Laboratory.

Various analysis submitted:

Antiseptics		3
Researches of Rabies	bacillus (with nega-	
tive results)		5

Blood (Widal's test)	4
Diphtheria (examination after culture)	4,488
Stools (agglutination test for typhosus ba- cillus and paratyphoid A. & B. bacilli)	97
Urine (agglutination test for typhosus ba- cillus and paratyphoid A. & B. bacilli)	85
Diphtheria.	
Free distribution of anti-diphtheric serum:	
(a) curing doses	828
(b) prevention doses	928
Stations for free distribution of antidiph- theric serum	18
Free distribution of Toxoid (anatoxine Ra- mon) for immunization against diph- theria (number of vials)	2,240
Free distribution of diphtheria toxine for Schick Test (number of vials)	1,391
Number of complete immunizations report- ed to this Division, and done by the Division of Child Hygiene and other institutions:	
(a) By Division of Child Hygiene	9,520
(b) By Child Welfare Association of Montreal	955
(c) By Fédération d'Hygiène In- fantile	74
(d) By Ecole d'Hygiène Sociale Appliquée	141
Total	11 36

The City supplies, free of charge, the necessary quantity of anatoxine Ramon and of Schick toxine, on condition that these institutions transmit regularly to the Division of Contagious Diseases a detailed report of their operations. The work they are carrying on, since 1929, with a uniform operating technic, will be finally appreciated in its results only in the coming years.

In 1931, they have registered a total of inscriptions amounting to 12,461 together with 6,201 posterior Schick tests.

It is important to note here, that the latter figures mentioned above, constitute a rather notable difference from the total (11,365) of immunizations for 1931; it is due to the fact that several record-cards are kept in immunization centres, which on the 31st of December have to wait for the final Schick test before reporting to our Division.

A list of diphtheria cases that occurred amongst immunized people in 1930 and 1931 shows that 15 of them have suffered from that disease on a total of 22,897, representing the very small average of 0.06%.

Eleven other cases have also been recorded, but the sufficient amount of injections, to consider them as immunized, las not been given.

Such results should urge us to intensify the campaign of immunization, and we rely on the generous co-operation of physicians, parents and educators to help us in reaching our aim.

Small-pox and vaccination.

Since January, 1930, no case of small-pox has been reported to the Department of Health. Vaccination against small-pox has been carried on very actively during 1931.

During the months of June and July, special attention has been brought to the staff of industrial and food products establishments. This work has been attended by physicians of the Child Hygiene Division, who have visited 121 establishments during that time.

The total amount of vaccinations made by physicians appears as follows:

(a) by the Contagious Diseases Division	7,052
(b) by the Child Hygiene Division	13,080
(c) by the Medical Con ⁺ rol Division	5,000
Total	25,132
Number of vaccination certificates issued by	
physicians	23,620
Dog bites:	
Number of cases reported	398
Number of dogs kept under quarantined ob-	
servation	363
Number of dogs' heads submitted to the	
laboratory for analysis and research of	
Corpus Negri	5
Positive results of animal or human rabies	0

Typhoid Fever.

Number	of	cases	reported	during	the	year	129
Number	of	deaths	attribut	able to	this	disease	34

Representing a percentage of 26.3%

The distribution by months of the cases reported, of their source of origin, of hospitalization and of deaths are shown in Table No. 1. Other tables in numerical order, which constitute the detailed operations of the Contagious Diseases Division, are hereafter. TABLE No. 1

CASES OF TYPHOID FEVER REPORTED FROM JANUARY 1st TO 31st DECEMBER, 1931

			-		
OUTSIDE CASES but hospitalized in Montreal		Place of residence	Pointe-aux-Trembles 3 Outremont, P.Q. 22 St-Charles, P.Q. 2 St-Charles, P.Q. 1 Chambly, P.Q. 1 Maple Grove, P.Q. 1 Iongueuil, P.Q. 1 New-Glasgow, P.Q. 1 Ste-Scholastique, P.Q. 1 Ste-Scholastique, P.Q. 1 Caughnawaga, P.Q. 1 Contrecœur, P.Q. 2 Plage Laval, P.Q. 2	22	
pud	Outside cases	hospitalized in Montreal	2 1 1 8 1 1 8	22	
	Number	of deaths	014 01 1001 010 44	34	
MONTREAL CASES	Cases	hospital- ized	$ \begin{array}{c} & 3 \\ & 4 \\ & 2 \\ & 1 \\ & 1 \\ & 5 \\ $	87	
MONTRE	Source of infection	In other localities	1 6 9	16	
	Source of	In Montreal	00044018118014	113	
	Number of cases		00004 <u>00</u> 8001604	129	aths: 26.3%
	1931 Months		January February March April May June July September October November	Total.	Percentage of deaths: 26.3%.

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I ABLE NO. 2

CLASSIFICATION OF CONTAGIOUS DISEASES PER MONTHS, 1931

adtasb to latoT 1891 ni	71 20 29 5	20 34 34 33 34	320	766 121	1207
latoT	$\begin{array}{c} 706\\ 1733\\ 7333\\ 1117\\ 964\\ 588\\ 2501\\ 2501 \end{array}$	$ \begin{array}{c} 170\\ 129\\ 9\\ 744\\ 29\\ 14\\ 14\end{array} $	15034	1837 287	17158
December	80 520 13 120 109 359	8 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8	1456	162 18	
November	$\begin{array}{c} 69 \\ 606 \\ 406 \\ 8 \\ 103 \\ 73 \\ 349 \end{array}$	$\begin{array}{c} 1\\1\\4\\8\\2\\2\end{array}$	1285	102, 17,	
October	225 154 225 51 23 149 149	$\begin{array}{c} 12 \\ 19 \\ 11 \\ 314 \\ 5 \\ 1 \end{array}$	1042	136 19	
September	74 888 821 55 21 46	8 11 268 3	616	121 17	
tauguA	$^{+}_{-}^{-}$	14 23 95 1	393	162 23	
ղոյչ	44 44 229 3 58 66 66	33 33 11 4 1 5 3	498	146 20	
June	$2189 \\ 218$	13 13 5	1739	157 26	
үвМ	$\begin{array}{c} 47 \\ 163 \\ 2050 \\ 21 \\ 42 \\ 71 \\ 218 \\ 218 \end{array}$	12	2633	227 39	
lingA	$\begin{array}{c} 47 \\ 144 \\ 1757 \\ 23 \\ 90 \\ 36 \\ 261 \end{array}$	01 10 01 10	2401	123 27	
Матећ	$\begin{array}{c} 43 \\ 547 \\ 547 \\ 17 \\ 113 \\ 99 \\ 266 \end{array}$	16 2 2 3 3	1257	183 40	
Februery .	$\begin{array}{c} 42\\159\\200\\104\\52\\199\end{array}$	13 13 14	787	159 31	
Janue Ly	77 198 112 9 112 47 347	21 1	927	159 10	
	Diphtheria Scarlet fever Measles German measles Whooping-cough Mumps Chicken-pox	Erysipelas. Typhoid. C. S. meningitis. Poliomyelitis. Puerperal septicaemia.	Total.	Tuberculosis: Pulmonary tuberculosis Tuberculosis, other forms	Grand total

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TABLE No. 3

CLASSIFICATION OF CONTAGIOUS DISEASES BY AGES, 1931

IstoT	706 7333 117 964 588 588 2501	170 129 744 744 29 14	15034	1837 287 17158
91 to 100 years				
since 90 years		-	1	
71 to 80 years		9	2	3 3
el to 70 years		13	14	48
51 to 60 years	1	15	19	136 12
41 to 50 years	101-01-01-	34 6 1	59	250 37
31 to 40 Years	24 24 25 8 1 24 2 25 25	45 11 14	127	387 43
21 to 30 years	$26 \\ 5 \\ 1 \\ 1 \\ 11 \\ 11 \\ 11 \\ 11 \\ 11 \\$	21 31 6 13 13	225	580
11 to 20 years	77 763 763 763 763 12 62 62 102	47 47 3 61 1	1378	366 51
6 to 10 years	$216 \\ 715 \\ 715 \\ 3255 \\ 66 \\ 66 \\ 368 \\ 368 \\ 1274$	23 23 199	6420	338
I to 5 years	347 655 3057 35 539 143 961	10 9 449 1	6207	27
Under I уеаг	$16 \\ 14 \\ 222 \\ 4 \\ 115 \\ 3 \\ 3 \\ 147 \\ 147 $	$\begin{array}{c} 14\\ 29\\ 12\\ 12\end{array}$	577	10
Diseases	Diphtheria. Scarlet fever. Measles. German measles. Whooping-cough. Mumps. Chicken-pox.	Erysipelas. Typhoid. C. S. meningitis. Poliomyelitis. Puerperal septicaemia. Purulent ophthalmia.	Total. Tuberculosis:	Pulmonary tuberculosis 10 11 Tuberculosis, other forms 12 27 Grand total

TABLE No. 4

CLASSIFICATION OF CONTAGIOUS DISEASES BY NATIONALITIES, 1931

Diseases	French Canadians	English Canadians	Jews	Other nationalities	Total
Diphtheria . Searlet fever		125 684	44	28.52	706
Measles German measles		2640 54	998 18	335 5	7333
Whooping-cough Mumps Chicken-pox	568 422 1576	314 110 642	34 36 150	48 20 133	964 588 2501
Erysipelas Typhoid fever C. S. meningitis.		23 1	16 4	112	170 129 9
Poliomyelitis. Puerperal septicaemia Purulent ophthalmia	555 21 12	126	26 1	800	744 29 14
Total.	1962	4791	1518	764	15034
Iuberculosis: Pulmonary tuberculesis. Tuberculosis, other forms. Grand total.	1210 167	402 91	95 15	130 14	1837 287 17158

95

TABLE

		1	1	1	1	T	I	1	1	1	1	1	1	1
Diseases	Ahuntsic	Bourget	Crémazie	Delorimier	Hochelaga	Lafontaine	Laurier	Maisonneuve	Mercier	Montcalm	Mount Royal	ND. de Graces	Papineau	Deffectation
Diphtheria	. 16	17	4	26	15	6	8	20	33	13	5	19	26	1
Scarlet fever	. 88	33	11	100	21	19	36	67	12	39	20	207	19	2
Measles	. 170	128	84	424	82	40	316	314	164	210	107	1141	40	118
German measles	. 1		2	6		3	1	6	5	2	3	29		
Whooping-Cough	23	16	4	50	13	13	12	21	48	13	14	157	14	29
Mumps	21	23	5	36	23	2	2	30	39	4	4	80	19	22
Chicken-pox	55	63	18	93	67	28	56	76	90	96	21	228	28	44
Small-pox														
Erysipelas		10	2	12	1	1	3	8	4	3	3	6	2	2
Гурhoid	1	6	3	10	12	1	3	8	4	1		4	3	2
C. S. meningitis	1							1	1			1		
Poliomyelitis	19	36	6	32	47	5	9	32	19	25	1	18	17	53
Puerperal fever		1						1	2			1		4
Purulent ophthalmia			2									1		
	-				_			_		_	_			
Total	395	333	141	789	281	118	446	584	421	106	178	1892	168	317
Tuberculosis:														
Pulmonary tuberculosis Fuberculosis, other forms Grand total	17	55 5	52 3	96 13	73 7	20 1		42 7	27 10	33 2	9	47 16	44 6	28 6

CLASSIFICATION OF CONTAGIOUS

No. 5

DISEASES BY WARD, 1931

MUSCHIOMIC	St. Andrew	St. Ann	Ste. Cunégonde	St. Denis	St. Edward	St. Eusèbe	St. Gabriel	St. George	St. Henry	St. James	St. John	St. Jean Baptiste	St. Joseph	St. Lawrence	St. Louis	St. Marv				Villeray	Total
54	25	6	10	17	37	15	15	6	27	12	70	17	6	13	23	16	13	21	7	70	70
25	67	26	31	26	57	35	52	33	84	24	50	73	24	33	75	45	11	44	35	83	173
01	143	89	86	262	201	156	125	61	147	59	281	410	63	88	419	277	88	72	34	333	733
7	1		3	6	3		3	1		1	5	4	1	2	7	12		1		2	11
14	20	28	50	23	20	20	42	2	29	16	38	20	28	16	3	14	16	46	8	54	96
24	1	1	10	13	54	18	14	1	25	21	19	16	1	5	5	8	11	11	7	13	58
58	47	27	32	46	68	40	177	9	60	55	97	96	28	27	80	82	42	144	42	181	250
																			• • •		
3	9		3	1	5	1	4	5	2	6	3	3		15	14	5	2	3	-9	10	17
2	2		4	1	2	5	4		4	2	7	- 3	3	4	8	1	12	4	1	2	15
					1				-1	2										1	
3	6	2	4	15	25	51	19	1	32	11	19	17	1	4	10	7	35	19	9	65	74
2	1		1	2	3	1	1				2	2		1	2		1			-1	. 2
					T	1			1	3	1	2		1		1					1
2	-	_		-	-	-	_	-		-	-	-			-	-		-	-	_	
3	322	179	234	412	477	43	456	119	412	212	592	663	155	209	646	468	231	365	152	815	1503
7 5	52 9	34 8	39 4	51 11	59 18	58 8	48 7	43 11	75 8	94 11	58 11	77 6	22 3	93 10	75 8	37 7	33 6	41 8	39 5	91 13	183 28
																					1715

TABLE No. 6

CONTROL DF CONTAGIOUS DISEASES, 1931

	Control Visits							
Diseases	Diagnosis	Supervision of qua- rantined houses	Disinfections	Placards				
Diphtheria	$\begin{array}{c} 61\\ 206\\ 220\\ 37\\ 1994\\ 985\\ 327\\ 19\\ 6\\ 32\\ 34\\ \end{array}$	$\begin{array}{c} 2404\\ 3012\\ 218\\ 113\\ 7216\\ 2557\\ 1127\\ 743\\ 9\\ 35\\ 4\end{array}$	$\begin{array}{r} 625\\ 1399\\ 74\\ 4\\ 400\\ 52\\ 57\\ 1144\\ 23\\ \end{array}$	670 1311 3827 442 3				
Smallpox Erysipelas Skin diseases Poliomyelitis. Purulent ophthalmia Mumps No infection Miscellaneous	$5 \\ 30 \\ 533 \\ 2 \\ 329 \\ 780 \\ 744$	$ \begin{array}{r} 96 \\ 4 \\ 1614 \\ 11 \\ 663 \\ 4411 \end{array} $	67 634 3 195	686				
Total	6,344	24,237	4,677	6,939				

Besides their work, the epidemiologists vaccinate 7,052 persons and issued 5,858 verification certificates.

2,819 miscellaneous visits have also been made b officers attending fumigation.

Alexandra and St. Paul Hospitals

TABLE No. 7

DURATION OF SOJOURN OF PATIENTS.

Patients hospitalized	2,869
Number of days of hospitalization	75,627
Average sojourn for each patient	28
Maximum hospitalization by day	267
Minimum hospitalization by day	86
Average hospitalization by day	176

Mortality

	Per- centage
Deaths during the year 1931 125	4.30%
Deaths during the first 48 hours 63	2.10%
Number of deaths happened after the first48 hours63	2.10%
Proportion of leaths during the first 48 hours to the total deaths	50%

Miscellaneous

Ambulance calls	2,063
Microscopical examinations	2,017
Jrine analysis	19,630

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FLUCTUATION OF PATIENTS AND DEATH RATE TABLE No. 8

	1591 IstoT	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	266 242	1 2869
ʻtsi	December 31	178 8 8 8 8 8 9 1 1 4 1	5	27
	Percentage sdissb fo	$\begin{array}{c} 10 & \% \\ 1.3 \% \\ 5.7 \% \\ 5.7 \% \\ 7.3 \% \\ \end{array}$	7 %	4.30%
Results	Dead	61 19 3 3 2	21111111	126
	Cured	$^{+44}_{-1190}$ $^{+44}_{-111}$ $^{+33}_{-52}$ $^{-6}_{-6}$ $^{-6}_{-6}$	199	2472
8951	Percentage of ca	$\begin{array}{c} 19 \\ 48 \\ 48 \\ 115 \\ 1.8\% \\ 1.8\% \\ 1.4\% \\ \end{array}$	8.3%	1 1
-£q Ì	o tal number o tients.	$2566 \\ 1387 \\ 450 \\ 121 \\ 121 \\ 53 \\ 6 \\ 6 \\ 6 \\ 6 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$	242 11 11	2869
	bəttimbA	$ \begin{array}{c} 509 \\ 602 \\ 448 \\ 119 \\ 50 \\ 39 \\ 6 \\ 1 \\ 1 \end{array} $	242 1 1 1 1 1 1 1 1 1 1	2617
ылу	In hospital Janu 1821, 1831	195 195 195 195 1		252
	Diseases	Diphtheria. Scarlet fever. Measles. Erysipelas. Chicken-pox. Whooping-cough. Mumps. Scabies. Meningitis (t. b. c.).	German measles. Poliomyelitis. Typhoid fever Pneumonia. Ulcero-végétative endocarditis. Diffuse phlegmon. Nephritic toxemia. Tetanus. Acute miliary tuberculosis (t. b. c.). Hereditary syphilis.	Total

Alexandra and St. Paul Hospitals

TABLE No. 9

	Ages	Intubations	Cured	Deaths	Percentage of deaths
Inder	1 year	1		1	100%
1 to	2 years	10	6	4	40%
2 to	3 years	1	12	2	$14\% \\ 8\%$
	4 years		11	1	8%
	5 years		8	3	27%
5 to	6 voore	4		10 million	70
	6 years	5	$\frac{4}{3}$	2	40%
	7 years	0		-	10 10
7 to	8 years	3	3		
8 to	9 years	2	2		
to 1	0 years	2	4		
	Total	62	49	13	20%

INTUBATION AND RESULTS

TABLE No. 10

NATIONALITY AND RELIGION OF PATIENTS

Nationalities	Total	Percentage	Religion	Total	Percentage
French-Canadians	2293	87%	R. Catholics	1744	66%
Jews	171	6%	Protestants	691	26%
Other nationalities	153	5%	Jews	172	6%
		-	Other religions	10	.38%
Total	2617		Total	2617	

"EPIDEMIOLOGICAL SUMMARY" ACUTE ANTERIOR POLIOMYELITIS

(Infantile Paralysis)

In 1931, on 744 cases of acute poliomyelitis registered to the Contagious Diseases Division, there were 74 cases of death, representing exactly 10% of those reported

When studying the particularities that have marked out the development of this disease, we must consider only the cases that occurred during this epidemic, that is to say from July the 14th to December the 1st. Deducting the cases reported after that time, the following remarks are therefore referring to 730 of them instead of 744.

If we take note of the date of the onset, it is in the middle of July that the first cases of poliomyelitis have been brought to our knowledge. During the few following weeks, there has been a steady progressive evolution of cases. At the end of September and at the beginning of October their epidemic development had reached its maxifi mum of intensity. On the 1st of December, the epidemic was practically over.

GENERAL OUTLINE OF THE EPIDEMICAL PERIOD.

1931					Т	ota
Months	July	August	Sept.	Oct.	Nov.	1
No. of cases	15	174	306	205	30	730
Sex:						
Masculine					376	
Feminine	·· · · .	• • • • • • • •			354	
						730

Nationality:

French-Canadians	531
English-Canadians	134
Jews	41
Others	24
	730

On the total of 730 cases of poliomyelitis,

371 were hospitalized,

- 13 were infected elsewhere,
- 24 strangers hospitalized in Montreal.

Number of cases per family:

1	case	in	576	families, 79%
2	cases	in	50	families, 6.8%
3	cases	in	13	families.
4	cases	in	1	family.
4	cases	ir.	1	institution.
3	cases	ir.	1	institution.
2	cases	in	1	institution.
1	case	in	2	institutions.

Classification of cases by age: ---

From	0	to	5	years	inclusively	• •	474	65%
From	6	to	10	years	inclusively		197	26%
From	11	to	15	years	inclusively		40	5.4%
From	16	to	20	years	inclusively		13	1.7%
From	21	to	30	years	inclusively		6	0.8%

Number of deaths by age: -

From	0	to	5	years	inclusively	 47	6.4%
From	6	to	10	years	inclusively	 20	2.7%
From	11	to	15	years	inclusively	 4	
From	16	to	20	years	inclusively	 1	
From	21	to	30	years	inclusively	 1	

The school attendance has not seem to have affected in any way the poliomyelitis epidemical progression.

So, for an approximative school population of	150,000
attending a number of schools of	297
The number of school children affected was of.	246

(Deduction is made of the 4 cases from 16 to 20 years who do not attend schools.)

From the 14th of July to September, 1931, 65 of 207 cases reported were of school age (from 6 to 20 years) on a percentage of 31.4%.

From the 15th of September to December, 1931, 181 of 523 cases reported, are of school age (from 6 to 20 years) or a percentage of 34.6%.

TABLE No. 11

CLASSIFICATION OF CASES BY DATE OF ONSET

Week of the onset	Number of cases	Average per day	Number of deaths
1931			
July: from 11 to 17 from 18 to 24 from 25 to 1st August		$0.5 \\ 0.5 \\ 1.0$	
August: from 2 to 8	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2.5 2.5 4.4 7.5 7.7	$\frac{-2}{4}$
September: from 6 to 12 from 13 to 19 from 20 to 26 from 27 to 3rd October	$58 \\ 54 \\ 87 \\ 107 \\ 306$	$8.2 \\ 7.7 \\ 12.7 \\ 15.2$	7 7 12 7
October: from 4 to 10 from 11 to 17 from 18 to 24 from 25 to 31	$ \begin{array}{c} 84 \\ 68 \\ 30 \\ 23 \\ 205 \end{array} $	$12. \\ 9.7 \\ 4.2 \\ 3.2$	$\begin{array}{c} 12\\7\\4\\4\\4\end{array}$
November: from 1 to 7	$ \begin{array}{c} 14 \\ 7 \\ 4 \\ 5 \\ \hline 30 \end{array} $	2.1.0.5 0.5 0.7	
Grand total	730		73

TABLE No. 12

POLIOMYELITIS

From January 1st to October the 29th, 1931

Wards	Population	Number of cases reported	Percentage
Ahuntsic	18,588	19	0.10%
Bourget	23,162	38	0.16%
Crémazie	13,453	4	0.02%
Delorimier	40,003	33	0.08%
Hochelaga	19,164	48	0.25%
afontaine	9,432	5	0.05%
aurier	18,412	8	0.04%
Maisonneuve	25,380	31	0.12%
Mercier	21,266	18	0.08%
Montealm	13,565	25	0.18%
Mount Royal	7,919	2	0.02%
Notre Dame de Grâces	52,973	18	0.03%
Papineau	15,550	15	0.09%
Préfontaine	16,082	54	0.33%
Rosemont	37,078	73	0.19%
st. André	24,578	4	0.01%
st. Anne	15,974	2	0.01%
St. Cunegonde	18,087	4	0.02%
St. Denis.	20,435	16	0.07%
St. Edouard	30,900	23	0.07%
St. Eusebe	16,276	51	0.31%
St. Gabriel	17,608	17	0.09%
St. George	22,088	1	0.004%
St. Henry	25,361	29	0.11%
St. James.	21,228	10	0.04%
St. Jean.	23,916	17	0.07%
St. Jean Baptiste	26,367	17	0.06%
St. Joseph	11,620	1	0.008%
St. Louis	20,892	3	0.01%
St. Mary	18,281	9	0.04%
St. Michel	12,047	41	0.34%
St. Paul	24,527	5	0.02%
St. Paul. Ville Marie	22,687 11,702	$\frac{19}{7}$	0.08%
Villeray	45,587	63	0.05%
	10,001	00	0.13%
Total		730	

FREE DISTRIBUTION OF SERUM APPEARS AS FOLLOWS :

To hospitals and to private physicians:

St. Paul, 201 bottles, i.e		 5,025	c.c.
Ste. Justine, 73 bottles, i.e	• •	 1,825	c.c.
Alexandra, 37 bottles, i.e		 925	c.c.
Women's General, 3 bottles, i.e		 75	c.c.
Miséricorde, 2 bottles, i.e		 50	c.c.
Hôtel-Dieu, 2 bottles, i.e		 50	c.c.
To private physicians, 140 bottles, i.e		 3,500	c.c.

Total: 458 bottles, i.e	1.0							1.0	DOLLICS,	100	ouar.	1
-------------------------	-----	--	--	--	--	--	--	-----	----------	-----	-------	---

2	Num	ber	Number
	of bo	ttles	of c.c.
Up to date (Dec. 1st 1931) the Healt	h		
Department has been supplied with	h 52	0 i.e.	. 13,000
There has been a free distribution o	f 45	8 i.e.	. 11,450
Balance available	. 6	- 2 i.e.	1,550

Serum supply.

The amount of antipoliomyelitis serum used by the Children's Memorial hospital and prepared in their aboratories does not appear in the preceding table.

In 1929, a subscription was made in order to secure sufficient quantity of serum to face all contingencies.

Under the direction of a special committee (The Antioliomyelitis Committee) composed of a group of physicians, this work was intrusted to the Children's Memorial Hospital's Laboratories. During the epidemic, patients referred to this hospital have been treated with the serum kept in reserve. In accordance with an agreement between the said committee and the Health Department, it has been decided that private physicians and other institutions were to be supplied with free serum according to certain rules of definite proceeding.

It is only fair to express here our gratefulness to this committee, for the excellent work they have carried on, by providing the Department of Health of the City with the sufficient amount of serum for treatement of cases.

However, we have had to make twice an appeal to the generosity of the Provincial Board of Health of Ontario who has forwarded us 2 litres.

Moreover, the Executive Committee has voted special funds which, before the exhaustion of serum, have enabled us, during the epidemic, to intensify the preparation of this serum in prevision of further needs.

The Provincial Board of Health of Quebec has not directly supplied the Department of Health of Montreal, for they have decided to keep in reserve the serum prepared in their laboratories, in order to answer the needs of other municipalities of the province.

All activities carried on in the course of the epidemic together with the results of our observations are condensed in the statement hereunder. To give a final appreciation of the consequence of facts they infer, would be to anticipate a little.

On the 31st of December, after investigation of every case having suffered from poliomyelitis during the epidemic, we have been able to set the standing of the situation as follows: Number of cases treated:

730

Number of cases:

Improved	212	being	29.04%	of cases reported
Unimproved	147	being	20.08%	of cases reported
Cured	226	being	30.9%	of cases reported
Deceased	73	being	10.0%	of cases reported
Suspected. (No state				
of paralysis)	72	being	9.8%	of cases reported

In the study of these different states, it is advisable to make the division of those that have been treated with serum before or after the setting of paralysis and also of those that have not received such a treatment.

Proportional statement.

mproved (212):

Serum before paralysis	35 bein	g 16.5%
Serum after para ysis	146 bein	g 68.8%
No serum	31 being	g 14.6%

Inimproved (147):

Serum before paralysis		 	31	being	21.09%
Serum after paralysis		 	101	being	68.6%
No serum	·	 	15	being	10.2%

ured (226):

Serum before paralysis	55 being 24.3%	
Serum after paralysis	120 being 53.09%	
No serum	51 being 22.5%	

Deceased (73):

S

Serum before paralysis Serum after paralysis	15 being 20.5% 37 being 50.6%	
No serum	21 being 28.7%	
Suspected (72) — (No paralysis):		
Treated with serum	43 being 59.7%	

Treated	with serum	• •	 • •	45	being	39.1%
Treated	without serum		 	29	being	40.2%

On these 583 cases having been injected with serum 136 were then treated before showing paralysis symptoms: representing a percentage of 23.3%, and 404 cases treated after the state of paralysis being confirmed, representing a percentage of 69.3%. The 43 other cases have never shown any signs of paralysis.

In closing this report, I wish to express my keen gratefulness for the courtesy and generous co-operation of the staff put at my disposal, in the many circumstances when I had to call on the assistance of other divisions of the Department of Health.

Yours respectfully,

J. H. GERVAIS, M.D., D.P.H.,

Superintendent of the Contagious Diseases Division.

Division of Child Hygiene

DIVISION OF CHILD HYGIENE

Dr. S. Boucher, D.P.H.,

Director, Department of Health, Montreal.

Dear Sir: --

I have the honour to submit the report of the Division of Child Hygiene for the year 1931.

Respectfully submitted,

C. A. BOURDON, M.D.,

Superintendent ad interim of the Division of Child Hygiene.

EPORT OF WORK OF CHILD HYGIENE DIVISION FOR YEAR 1931.

New appointments made during the year 1931 have ermitted the department to revise certain activities and preorganize the work of this division. Mention will be hade of this in the report which follows.

A very worthy object, the granting of a scholarship o the superintendent of this division to follow a year and at Johns Hopkins University in Baltimore, was acomplished during the past year. This scholarship was ne of two granted by the City Administration of Montreal and recommended by the Director of the Department of ealth, Dr. S. Boucher.

It is indeed an event which marks a new era in the cogress of this movement, and if continued will contriite to have amongst the personnel of the Department of ealth a larger group of competent physicians who will is fully qualified to render excellent health service to the opulation of Montreal.

Three Medical-Inspectors of schools have been appinted during the year 1931, Drs. P. R. Dunn, R. Côté id L. Dubreuil, one o^e which was to replace Dr. A. H. révost, promoted to the new position of supervisor. With e appointment of the above physicians, the number of edical Inspectors of schools makes a total of 22, being i increase of two over the year 1930.

In the Mental Hygiene Division a new psychiatrist, r. G. N. Paterson-Smyth, has been appointed to make a rvey of abnormal children in the schools under the jurisction of the Protestant School Board.

The number of school districts under nursing supersion have been increased from four to five and this new strict has been placed under the control of Miss M. A. tcroix, promoted to supervisor.

A former visiting school-nurse, Miss B. Sicard, has een specially appointed to test acuity of hearing in both the French and English schools, by means of special equip ment "Audiometer No. 4-A, Western Electric".

Thirteen new permanent nurses were appointed fo school inspection work at the beginning of September 1931.

Eight nurses attached to clinics were made permanen at the end of December, 1931.

With these new promotions, the number of permanen nurses in the Child Hygiene Division has been increase from 76 to 102.

A new junior office clerk, Miss R. Champoux, and messenger-clerk, Mr. A. Bernier, have been added to the personnel of the office.

The following table shows the total number of employees of this division to the 31st of December for the years 1930 and 1931.

	1930	1931
Superintendent	1	1
Senior clerk	1	1
Junior clerks	4	5
Messenger		1
Chief Medical-Inspector	1	1
Medical-Supervisor		1
Medical-Inspectors	20	22
Dental-Inspectors	4	4
Chief-Nurse, R.N.	1	1
Supervisors of Nurses, R.N	4	5
Visiting-Nurses, R.N.	68	80
Nurse for Audition Tests, R.N.		1
Visiting-Nurses for Boarding		
Houses for Children, R.N.	1	2
Clinic Nurses, R.N. (1930-10		
temp. 1931-8 perm., 2		
temp.)	10	10
Nurses Assistants	7	6
Nurses (Psychology)	.2	3

Psychiatrists	(Partial time)	2	3
Physicians	(Baby Clinics),		
(tempora	ary, part-time)	13	12
Tota	ıl	139	159

115

MEDICAL INSPECTION OF SCHOOLS

1930-31

A summary of the medical inspection of primary tools, of secondary schools both French and English, 1 of a certain number of independent schools follows:

Number of catholic schools, French and	
English	228
Number of protestant schools	• 50
Number of pupils (cath. French and Eng-	
lish schools)	107,243
Number of pupils (protestant schools)	31,597
18 Medical-inspectors.	
Aver.: schools 15 4; pupils	7,713
1 Medical-inspector to replace doctors	
absent.	
60 Visiting-nurses.	
Aver.: schools 4.6; pupils	2,314
8 Nurses to replace nurses absent.	
Dental-inspectors (4).	
Aver.: schools 69.5; pupils	34,710
Psychologists (3).	
Aver.: schools 76.0; pupils	35,748

7°	Psyciatrists (1 full-time). (Cath. French	
	and English schools).	
	Aver.: schools 114.0; pupils	53,622
	Psychiatrists (2 halft-time). (Catholic	
	French and English schools).	
	Aver.: schools 57.0; pupils	26,811 €

RESULT OF THE STAFF'S WORK IN THE SCHOOL MEDICAL INSPECTION

School year 1930-31

TABLE I

1

22

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10	Work of Chief Medical-Inspector:
	Visits to schools
2°	Work of Medical-Supervisor:
	Visits to schools
3°	Work of Chief-Nurse:
	Visits to schools
4°	Work of Supervisors of Nurses:
	Visits to schools

Staff Meetings:

General meetings and lectures	(City Hall)	- 28
Nurses meetings in the centres		269

WORK OF MEDICAL INSPECTORS

TABLE II

		Percen	tage	
mber of schools to visit	278			
mber of visits to schools	7,454			
mber of pupils enrolled in				
schools	138,840			
en by doctors:				
mber of pupils (special cases				
and physical exam.)	91,424	65.84%	(1)	
mber of pupils (special cases				
examined)	26,836	19.32%	(1)	
mber of pupils (complete phy-				
sical examinations)	64,588	46.51%	(1)	
mber of normal pupils	27,532	42.62%	(2)	
mber of defective pupils	37,056	57.37%	(2)	
mber of physical defects found	62,916			
mber of dental defects	36,743	56.88%	(2)	
mber of notices to paren s	75,055			
mber of pupils found not vac-				
cinated	1,181			

(1) The percentage of pupils seen by the doctor ,424), those special cases examined (26,836) and the nber of physical examinations (64,588), are based the total number of pupils frequenting the schools (8,840).

(2) The percentage of normal pupils (27,532), of t pupils (37,056), of dental defects (36,743), is based the total number of pupils who have undergone a comte physical examination (64,588).

TABLE III

PHYSICAL EXAMINATIONS

(Complete)

Defects found:		Proportio.
	Number	per 100
Eyes	8,350	13.27%
Ears	1,245	1.98%
Nose	5,615	8.92%
Tonsils	13,079	20.79%
Lymphatic system	9,536	15.16%
Goitre	669	1.06%
Skin	3,642	5.79%
Lungs	2,030	3.23%
Heart	2,036	3.24%
Digestive system	816	1.30%
Genito-urinary system	135	0.21%
Orthopedic	1,448	2.30%
Nervous system	1,242	1.97%
Mental condition	517	0.82%
Malnutrition	12,556	19.96%
Total defects	62,916	100%

Control examinations

For the school year 1930-31, during the months (April, May and June, the medical-inspectors have re examined the pupils already examined during the year (the preceding years, to ascertain the defects in order (make statistics in regard to treatment.

At the opening of the classes in September, 1931, new method to advise parents of treating defects four in their children, has been employed. This notice, man out in double, will allow us to make a control of the results obtained during the same year, and as a result of the future reports will differ from the following report givin the results for the year 1930-31.

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TABLE IV

RESULTS OF CONTROL EXAMINATIONS

				De	fects treat	ed	
Defects	Total	Not treated	Cured	Im- proved	Unim- proved	Total	%
Grand total	66983	33811	15051	14188	3933	33172	49.52%
5	7817	4311	2214	844	448	3506	44.88%
	1118	490	313	169	146	628	56.17%
8	5524	3515	1033	915	61	2009	36.37%
sils	15957	8856	3346	3615	140	7101	44.45%
ads	10462	5862	1877	2515	208	4600	43.96%
re	601	387	34	104	76	214	35.61%
	3457	623	2189	534	111	2834	81.98%
gs	1826	394	922	277	233	1432	23.66%
rt	2313	1040	501	467	305	1273	55.04%
stive system	535	149	227	118	41	386	72.15%
ito-urinary system	80	40	11	17	12	40	50.00%
opediç	1153	767	72	159	155	386	33.48%
vous system	1048	588	76	259	125	460	44.85%
eral condition	15092	6789	2236	4195	1872	8303	55.02%
h	43389	27783	8068	7002	536	15606	35.97%

N.-B. — The percentage of defects treated is based on the total number of defects rved.

The school medical inspectors, in addition to the work the schools, have given from 3 to 5 o'clock p.m. contations in the different baby clinics.

These clinics at the same time are centres where ecination against small-pox and immunization against ohtheria are furnished free of charge and are at the position of the public for the whole year.

WORK OF VISITING SCHOOL NURSES

During the first five months of the year 1931 and in operation with the Canadian National Institute for the nd, the visiting nurses have made a survey in the Eng-1 protestant schools, also in a few English catholic schools, of all the pupils suffering from defective vision after correction with glasses.

These pupils have undergone a preliminary examination of vision, by the school medical inspectors, and about 89 of those showed defective vision below 3/10. At the the beginning of June, 1931, these children were conducted to the ophthalmological clinic of the Royal Victoria Hospital for a final examination. Out of this number, 19 pupils, 15 protestants and 4 catholics, showed ocular disabilities, with avoidable blindness provided they are given instruction in "sight saving classes".

The report of this survey was sent to the Canadian National Institute for the Blind, also to the authorities of the Protestant School Board. Following our recommendation the school authorities sent a teacher to take a special course in the management of a class like this, and the class was opened at the beginning of November, 1931, in the Wm. Dawson school, with 8 pupils enrolled.

This survey will continue and new cases will be directed to this school on the recommendation of an eye specialist.

WORK - SCHOOL NURSES

TABLE V

Number of schools to visit		278
Number of pupils enrolled in schools		138,840
Number of visits to schools		26,348
Number of home visits		35,698
Number of pupils examined (special cases		
and visits in class-rooms)	(x)	861,168
Number of pupils showing defects		205,903
Number of pupils referred to the doctors		
(special cases)		26,836

(x) This total includes children seen more than once for uncleanliness, pediculosis, skin diseases, etc.

6,431
5,572
36,338
297
72
44
380
258
68
6
0
54,968
67,045
42,689
22,810
9,353
3,959
9,910
3,221
574
26,383

MENTAL HYGIENE SECTION

1930-1931

The staff appointed to make the survey of the abnormal children in the French and English catholic schools, consists of two permanent psychiatrists, part-time, and two permanent psychologist-nurses, full-time.

A medical-inspector and a visiting-nurse, full-time, and possessing the training required, have been temporarily transferred to the mental hygiene section.

The survey of the abnormal is limited to the pupils of the 1st, 2nd and 3rd years, it has been done up to date only in the catholic schools.

For the school year 1931-32, an English psychiatrist, part-time, and a visiting-nurse also English, permanent and full-time, will make the survey in the protestant schools.

TABLE VI

WORK OF PSYCHIATRISTS AND PSYCHOLOGIST-NURSES

	Classes 1st., 2nd. and 3rd. year (1)	Special cases (2)	Total
Number of schools visited			48
School population in schools			00050
visited School population in grades:			26352
1st., 2nd and 3rd			13218
Number of pupils reported	3296	268	3564
Number of pupils examined.	2508	268	2776
Number of pupils normal	404	20	424
Number of pupils abnormal.	2104	248	2352
a) Unsteady	55	4	59
b) Backwards	1716	214	1930
c) Backwards & unsteady.	333	30	363

Classification

The backwards	2049	244	2293	Recom- mendations
1—Slow-minded	688	59	747	Ordinary classes
2—Border-line	798	80	878	Auxi-
3—Mental debility	539	87	478	- liary classes
	123	25	626 - 148	La Jem-
4—Feeble minded	23	18	41	School
5—Idiocy	1		1	Baie St. Paul Asylum

. B.—These statistics are established after revising the records.

(1) Results of the regular examination which was carried on in the 1st., 2nd. and 3rd. year.
 (2) Result of the examination of some pupils in the preparatory classes

or over the third year.

DENTAL HYGIENE SECTION

During the school year 1930-31, dental prophylaxis in the schools has been cared for by four dental-inspectors.

TABLE VII

WORK OF DENTAL-INSPECTORS IN THE SCHOOLS

Number of schools to be visited	278
Number of pupils enrolled in schools	138,840
Number of visits to schools	1,291
Number of lectures	2,424
Number of pupils who attended lectures	105,193

DENTAL EXAMIANTION

Number of pupils examined	21,199	
Number of defects:		
Caries	18,166	48.13
Pyorrhoea alveolar	104	0.27
Gingivitis	1,426	3.78
Prophylaxis (urgent)	18,049	47.82
Total defects	37,745	100%
Number of notices sent to parents	18,399	

The percentage is based on the total number of defects found (37,745).

DAILY VACATION BIBLE SCHOOLS

In the months of July and August for a period of six weeks, the organization known as the "Daily Vacation Bible Schools" of Montreal, opens in the forenoon a certain number of classes where children are given special training: manual training, singing, etc.

In the Montreal district 7 schools have been opened with an enrolment of about 1,065 children.

The medical examination in these schools has been cared for by four medical-inspectors and four nurses of the Child Hygiene Division.

Following the examinations made by the doctors, all parents of children who were suffering from any defect whatever, were visited by the nurses who explained to them the importance of having these defects treated.

TABLE VIII

Number	of	pupils examined	852
Number	of	pupils normal	562
Number	of	pupils with physical defects	290
Number	of	physical defects found	356
Number	of	dental defects	332
		pupils found not vaccinated	92
Number	of	pupils vaccinated	46
		notices to parents	218
		home visits	

HYGIENE OF THE CHILD

The hygiene of the child and the campaign against infantile mortality are two important points in the programme of this division.

Baby clinics

The personnel of the Child Hygiene Division has worked very actively and particularly so in the 36 municipal clinics to make effective the campaign undertaken by the Health Department of the City of Montreal, in favor of breast feeding.

The doctors and nurses whether it be at the clinics or in visits to the homes, have endeavoured to show to the mothers all the advantage of breast feeding.

Posters reading "Mother nurse your baby yourself" were placed and distributed in all the clinics.

Certain modifications have been made in the St. Denis municipal public bath building which has enabled us to instal the St. Arsène clinic in larger quarters, the old premises will be used as a meeting centre for the nurses of the northern district.

At the beginning of February, 1931, a new clinic was opened in St. Irénée parish, but against this the Bonneau clinic was closed in March, 1931.

The total number of municipal baby clinics is 36.

Comparison with the three years 1929-1930-1931 follows:

	•			Consultations	Weighing	Home visits
1929		 	 	37,496	1,304	33,568
1930		 	 	48,984	1,070	41,325
1931		 	 	61,280	1,297	38,402

Also besides these 36 municipal clinics there are in the City of Montreal 33 independent clinics, twenty being French and thirteen English.

These clinics are under the control of the two following organizations: "La Fédération d'Hygiène Infantile" and the "Child Welfare Association".

However, monthly reports of above clinics are sent regularly to our office, then compiled.

Table IX gives the result of the work which has been accomplished in all the clinics of the City.

TABLE IX

BABY CLINICS REPORT FOR THE YEAR 1931

Visits	en New Total		6 526 2212 5 1025 1730	636 412	924	950	812	473	567	703	472	1149	535
	Children entered		1686	20.00	12	629	67	423	4	20	20	S	45
Consultations	Average per child		7.1		• •								
	Physi- cians		3573 3409	3122 2682	2233	2318	2120	2062	1560	1750	1962	2492	1867
Weighing	Nurses		313	8 3	13	1		12	6	10	1	208	23
Deaths	%		0.9 2.6										
Des	Number		101-	~~	8	000	x x	. 4	9	03	1-	18	33
Registrations	(1)		509.9 266.4	197.2	186.3	71.3	8.001	141.3	135.8	79.3	181.6	152.7	136.1
Regist	New		478 289	261 253	252	248	166	213	213	207	200	197	189
Name of Clinics		(Municipal Clinics)	Laurier	: :	Villeray	Delorimier	Maisonnouvo	St-Henri	St-Edouard	St-Etienne.	St-Vincent Ferrier.	St-Gabriel	St-Jean de la Croix

$\begin{array}{c} 986\\ 910\\ 926\\ 926\\ 926\\ 926\\ 948\\ 1036\\ $	38402	1066.7
$\begin{array}{c} 377\\ 377\\ 377\\ 377\\ 377\\ 376\\ 546\\ 546\\ 546\\ 546\\ 546\\ 546\\ 546\\ 54$	19214	533.7
$\begin{array}{c} 609\\ 547\\ 547\\ 546\\ 546\\ 546\\ 546\\ 546\\ 546\\ 546\\ 546$	19188	533.0
$\begin{array}{c} 16.7\\ 27.2\\$	9.9	
$\begin{array}{c} 1565\\ 1821\\ 1877\\ 1877\\ 1876\\ 1731\\ 1731\\ 1731\\ 1376\\ 1080\\ 1296\\ 1080\\ 1080\\ 1080\\ 1194\\ 020\\ 1080\\ $	61280	1702.2
2388 2888 2888 2888 2888 2888 2888 2888	1297	36.1
11182222222222222222222222222222222222	2.4	
-000400000-01-00-00-00-00-00-00-00-00-00-00-0	148	4.1
$\begin{array}{c} 96.2\\ 111.4\\ 111.4\\ 125.6\\ 124.8\\ 210.1\\ 125.6\\ 125$	4723.3	131.2
82122222222222222222222222222222222222	6142	170.6
St-Mare St-Mare St-Ambroise Côte St-Paul St-Jacques St-Jacques St-Sacrement Baril St-Clément St-Clément St-Clément St-Clément St-Jean-Paptiste de I asalle St-Jean-Paptiste de I asalle St-Jean de Matha St-Jean de Matha St-Jean de Matha St-Jean Vianney St-Jean Vianney St-Jean Vianney St-Jascal Paylon	Total	Average

-(Continued
YEAR 1931
FOR THE
REPORT
Y CLINICS
BABY

-

ts Deaths Weighing Consultations) Number % Nurses Physi- Average cians per child		.3 1 0.3	2 4 0.7 877	5.6 6 1.5 701 2404 9.00 9.00 1.00 2404	0 1.0 405 0 1 0.4 487	.6 1 0.3 414	8 4 0.9 383	2 0.7 2102	2 317 317	2 1 0.3 400 3 1 0.3 490	2 2 1.2 149	.3 177	7.4 33 1.4 7773 17931	3.7 2.5 597.9 1379.3
Registrations	New (1)		367 411		254 395			171 435			07 254			2348 4117.	180.6 216.7
R	Name of Clinics Ne	English (Independent) Clinics:	Montreal Foundling					Montreal General Hospital				St Ann's	Côte des Neiges.	Total	

	$\begin{array}{c} 1637\\ 2059\\ 2759\\ 2759\\ 1786\\ 1786\\ 1128\\ 11283\\ 11243\\ 11243\\ 11243\\ 11243\\ 11659\\ 11659\\ 11659\\ 11659\\ 11653\\ 864\\ 11253\\ 864\\ 11253\\ 864\\ 11253\\ 864\\ 11253\\ 864\\ 864\\ 1227\\ 1003\\ 8659\\ 1277\\ 1003\\ 8659\\ 1277\\ 1003\\ 8659\\ 1277\\ 1003\\ 8669\\ 1277\\ 1003\\ 8669\\ 1277\\ 1003\\ 8669\\ 1277\\ 1003\\ 8669\\ 1277\\ 1003\\ 8669\\ 1277\\ 1003\\ 1277\\ 1003\\ 1277\\ 1003\\ 1277\\ 1003\\ 1277\\ 1003\\ 1277\\ 1277\\ 1003\\ 1277\\ 1277\\ 1003\\ 1277\\ 1277\\ 1003\\ 1277\\ 1277\\ 1003\\ 1277\\ 1277\\ 1003\\ 1277\\ 1277\\ 1003\\ 1277\\ 1277\\ 1003\\ 1277$ 1277	34412	1720.6	93569	1356.1
				19214	533.7
				19188	533.0
	$\begin{array}{c} 13.6\\ 23.9\\ 23.9\\ 17.1\\ 16.7\\ 16.7\\ 15.5\\ 16.7\\ 16.7\\ 15.5\\ 27.4\\ 27.9\\ 27.4\\ 27.9\\ 27.4$	18.7		12.6	
	$\begin{array}{c} 5089\\ 5181\\ 7534\\ 6446\\ 5356\\ 5356\\ 5356\\ 5979\\ 5668\\ 5979\\ 5565\\ 5979\\ 5565\\ 5979\\ 5567\\ 3566\\ 5979\\ 506\\ 506\\ 506\\ 506\\ 506\\ 506\\ 506\\ 506$	87105	4355.2	166316	2410.4
				0206	185.1
	50000000000000000000000000000000000000	2.3		2.3	
	0.8100000000000000000000000000000000000	119	5.9	300	4.4
				8840.7	180.4
	374 342 342 342 342 342 342 342 342 342 34	4669	233.1	13159	190.7
(French (Independent) Clinics:	Ste-Brigide St-Vincent de Paul Hochelaga St-Stamislas St-Stamislas Sacré-Cœur Immaculée-Conception Notre-Dame du Perp, Secotrs Staré-Cœur Notre-Dame du Perp, Secotrs Ste-Catherine Ste-Catherine Ste-Catherine Ste-Catherine Ste-Catherine Ste-Catherine Ste-Catherine Ste-Jean-Baptiste St-Jean-Baptiste St-Jeanne d'Arc St-Jeanne d'Arc	Total.	Average.	Grand total	Average. 190.7 180.4 4.4 185.1 2410.4 533.0 533.7

The percentage of deaths and the average number of conducting attended by the came each mouth in the year. The percentage of deaths and the average of consultations per child, in the french independent baby clinics, have been calculated from the total of registrations. The total of deaths comprises only children under 1 year, whereas in the English and the municipal baby clinics, it comprises children under two (2) years.

Table X gives a comparative statement of the work of the clinics for each of the three years.

TABLE X

COMPARATIVE STATEMENT OF THE WORK DONE IN THE BABY CLINICS

	1929	1930	1931
Number of clinics	71	68	68
Children registered	12,607	13,807	13,159
Number of deaths	352	313	300
Proportion of deaths	5.0%	4.6%	4.4%
Number of consultations	149,856	154,103	165,316
Average per child	11.8	11.2	12.6
Home visits	82,215	82,362	93,569
Municipal grant to independent clinics.	\$8,500.00	\$8,500.00	\$8,500.00

Baby Camps in the Parks

Two baby clinics are opened in the summer months, one in Lafontaine Park and the other at St. Helen's Island.

They are furnished with the necessary material for first aid (dressing urgent wounds), and they are also provided with hammocks, an ice box and a stove for the needs of the mothers.

In the kiosk which has been remodelled at Lafontaine Park, there is a baby clinic in charge of a doctor and two graduate nurses, where the mothers are able to register their babies during the months of July and August every day from 9 a.m. to 5 p.m., except Saturday and Sunday.

Also, all children who wish to, are vaccinated free of charge against small-pox.

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TABLE XI

WORK - BABY CAMPS

1931

	Lafontaine Park	St. Helen Island	Total
Camp open for a period of		2 months	
Number of registrations	432	146	578
Number of consultations (doctor)	705		705
Number of consultations (nurse)		182	182
Dressings	295	196	491
Number of vaccinations	2174		2174
Number of revaccinations	223		223
Number of certificates			1654

PRENATAL CLINICS

Eight clinics which were opened in 1921 were discontinued in 1925. At the end of October, 1931, two prenatal clinics were reorganized in co-operation with the "Ecole d'Hygiène Sociale Appliquée" who gave us the aid of its student nurses.

Clinics were opened in the parishes of St. Jean-Berchmans and Ste. Philomène, in Rosemount district.

The following table shows the results obtained for the first two months, November and December, 1931.

	Rosemount Clinic	St-Jean Berchmans Clinic	Total
Tetel assistantions	25	17	42
Total registrations Total discharged	1		4
Balance, December 31st., 1931	21	17	38
Consultations with doctor.		32	97
		30	93
Blood-pressures	57	31	88
Home visits:	95	59	154
Recruitment visits	10	67	86
To registered mothers			4
Post-partum visits Notices to family physicians	14	25	39
Notices to family physicians. Lectures or practical-lectures.	7	2	9

TABLE XII

In order to spread the ideas of infant hygiene in their own families, the Child Hygiene Division brought about the formation of the Child Hygiene Leagues amongst young girls of school age and in certain women's associations.

The young girls who were given a course in elementary hygiene, followed a program arranged by the Department of Health.

These young girls should be previous hygiene agents in their family and surroundings.

TABLE XIII

	Groups	Members
By the Inspecting Staff:		
(St. Vincent-Ferrier	1	51
Group 1—St. Alphonse d'Youville		
NDame du St. Rosaire J Group 2—St. Edouard	1	43
Group 3—Delorimier	1	38
Group 4—Rosemount	1	39
Group 5—Baril	1	54
(St. Cunégonde		
St. Irénée		
Group 6-St. Zotique	1	135
St. Enzabeth		
St. Clotilde		
St. Henri		000
Total	6	360
ndependent Associations:		
Victorian Order of Nurses	9	161
Montreal Parks and Playgrounds.	6	75
Ecole d'Hygiène Sociale Appliquée	2	33
	-	
Total	23	629

CHILD HYGIENE LEAGUES

CHILDREN'S BOARDING HOUSES

The supervision of children's boarding-houses has been done in 148 boarding-houses, of which 62 were discontinued during the year 1931.

Number of Children's Boarding-houses Jan. 1st	.,	
1931	114	
Permits issued during the year	34	
Permits discontinued		62
	148	62
Number of boarding-houses December 31st, 1931	86	

PRIVATE MATERNITY HOSPITALS

The number of private maternity-hospitals under supervision was 34, of which 10 were discontinued during the year.

Birth in these maternity-hospitals were 322 legitimate and 362 illegitimate children, making a total of 684.

WORK OF NURSES

The inspection of children's boarding-houses and of private maternity-hospitals, is entrusted to two nurses who devote to it their full time.

	Visits	Number of investiga- tions	Actions taken
Children's boarding houses Private maternity hospitals	2109 331	614 70	4
Total	2440	684	4

TABLE XIV

IMMUNIZATION AGAINST DIPHTHERIA

The total number of children immunized in 1931 by the personnel of this division was 10,972, an increase of 1,056 over the year 1930. Of this number 1,714 children have been immunized in the schools they attend and 9,258 in the 34 free stations spread over all parts of the City.

All children of 7 years and over have received the Schick test, 710 of which were done in the schools and 2,999 in the immunization centres, making a total of 3,709 anterior Schicks.

Method employed.

The method extolled and employed consists in making three injections of Anatoxine-Ramon, in increasing doses at three weeks intervals (in the schools at one week intervals); the first dose $\frac{1}{2}$ c.c., the second 1 c.c. and the third 1.5 c.c. for all children over 9 months of age, without a previous Schick Test, up to the age of six or eight years, and also all children over 8 years of age who give a posterior Schick.

Four or six months after the last injection the posterior Schick Test is employed for to ascertain if immunization has occurred. If the test is still positive, a fourth injection or a supplementary injection is given.

The following table shows the results of immunization against diphtheria from September, 1928, to December, 1931.

For the inscriptions made in 1931, the reports will be completed during the year 1932, in proportion as the subsequent injection and the posterior Shicks will be given.

The figures in the column "1931" show the work which has been done from the 1st of January to the 31st of December only.

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TABLE XV

IMMUNIZATION AGAINST DIPHTHERIA

	1928 1929	1930	1931 31 dec.	Total
I—Anterior schicks	1253	3746	3709	8708
Negative reaction Positive reaction Immunized Not immunized Doubtful reaction No readings	$715 \\ 456 \\ 435 \\ 21 \\ 21 \\ 61$	$2466 \\ 1158 \\ 1128 \\ 30 \\ 10 \\ 112$	$2398 \\ 1110 \\ 1066 \\ 44 \\ 7 \\ 194$	5579 2724 2629 95 38 367
II—Total registration for immunization	4568	9916	10972	25456
10—Received 3 doses 20—Received only 2 doses 30—Received only 1 dose Difference of	$3946 \\ 283 \\ 339 \\ 622$	405 403	9520	$22574 \\ 688 \\ 742 \\ 1430$
III—Posterior schicks	3557	8384	3654	15595
a) Total: Negative reaction Positive reaction No readings	$3347 \\ 40 \\ 170$	88		11309 128 504
b) Details: 10—After 2 doses: Negative reaction Positive reaction No readings	102 90 5 7	117		231 207 13 11
20—After 3 doses: Negative reaction Positive reaction No readings		7845 80		115
30—Number of children who had no schick test after 2 or 3 doses	070	1129)	1801
IV—Repeated injections (4th dose)	36	5/	21	112
Posterior Schicks Negative reaction Positive reaction No readings	32 32	61	4 2 	9

TABLE XVI

IMMUNIZATION IN THE SCHOOLS

1931
710
467
218
216
2
0
25
1714
1494
574
8

VACCINATION AGAINST SMALL-POX

Vaccination against small-pox is done in the clinics during the whole year and on the same days and same hours as consultations.

During the summer holidays, in the month of August and the first week of September, in order to give the school population greater facilities of being vaccinated before classes open, 39 vaccination centres have been installed in all parts of the City. These bureaus are either in the baby clinics or in municipal buildings (police stations, etc.).

In the clinics special hours are reserved for vaccination in the forenoon, in order not to interfere with clinic work which is more patronized during the summer.

Further more, the staff of this division is also asked to do vaccination in food and industrial establishments.

The following table shows the number of vaccinations made by the medical-inspectors in 1931.

TABLE XVII

Number of vaccinations:

At Lafontaine Park	2,174
In the clinics	10,399
In the food and industrial establishments	507
Total	13,080
Number of verifications or certificates	10,151
Number of revaccinations	291

PUBLICATIONS

Circulars, posters and publications distributed by the Child Hygiene Division are as follows:

Circulars:

No. 1.—"Medical Inspection of Schools".
No. 2.—"Height and Weight of Children".
No. 3.—"Immunization against Diphtheria".
No. 4.—"Help the Child".

Posters:

"Care of the Infant". "Help the Child". "Mother, feed your Baby yourself". Publications:

"Care of the Infant".

"Prenatal Care".

"Child Hygiene League".

During the year 1931 our doctors and nurses have given freely their help to the Contagious Diseases and Medical Control divisions.

In closing, allow me to cordially thank all employees for the fine co-operation they have given to the success of the programme of this division and at the same time I wish to show my appreciation for the devotion that they have displayed in the accomplishment of their duties.

Respectfully submitted,

C. A. BOURDON, M.D.,

Superintendent ad interim of the Division of Child Hygiene.

Division of Sanitation

DIVISION OF SANITATION

Mr. S. Boucher, M.D., D.P.H.,

Director, Department of Health, City Hall, Montreal.

Dear Sir: —

I have the honour to submit the annual report of the Division of Sanitation for 1931, in which the totals of the year are only given; the statistics by months and weeks being available in the reports submitted to you weekly.

The regular work of the Division of Sanitation is divided into four parts:

I.—Examination of plans and specifications of new constructions and buildings which are intended to be modified.

II.—Sanitary records of dwellings.

III.—Sanitary inspection and investigation of nuisances.

IV.-Inspection of plumbing and drainage.

I

EXAMINATIONS OF PLANS AND APPLICATIONS FOR PERMITS

(a)	New building	gs			 3,942
(b)	Modified bui	ldings			 1,533
(c)	Plumbing and	l drainage	(permits	granted)	 2,672

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SANITARY RECORDS OF DWELLINGS

Statistics of the completed house survey have been given in the 1929 annual report. The revision which was started in the same year was continued in 1931, with the following results:

(a)	Inspections	23,520
(b)	Findings:	
	1. Dark rooms occupied	86
	2. Dark rooms not occupied (used for stor-	
	age, etc.)	204
	3. Inhabited cellars and other unsanitary	105
	dwellings	125
(c)	Notifications:	
	1. Concerning dark rooms	60
	2. Concerning inhabited cellars and other	
	unsanitary dwellings	115
(d)	Execution:	
	1. Dark rooms suppressed	745
	2. Dark rooms placarded	546
	3. Inhabited cellars and other unsanitary	
	dwellings	13

111

(a) Sanitary inspection

Complaints:	
Total number	
Founded	
Not founded	3,531

The measures ordered and executed after investigation are the following:

Plumbing and	drainage			 		•		1,544
Constitutional	insalubrity			 	• •	•	• •	424

Acquired insalubrity (dwellings)	1,457 2,957
Total number of complaints founded	6,382 2,477

(b) Regular inspections

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

	Inspections (1)	Plumbing and drainage (2)	Light and ventilation (3)	Inhabited cellars	Other defects	Unclean
Dwellings	39204	4418	163	113	526	892
Boarding houses	260					
Boarding houses for children (4).	101					
Public buildings, stores and other						
establishments	3226	230				326
Educational establishments (5)	658	41				32
Industrial establishments	3203					488
Theatres, moving pictures, etc	397	28				37
Laundries (By-law No. 1009)	592	38				30
Barber-shops, etc. (By-law No.	1					
1006).						
Barber-shops	441					
Hair-dressing parlors	559	124				509
Manicuring parlors	5)					
Establishments:—Mattresses, fil- ling material. By-law No. 1089	077					
ing material. Dy-law No. 1089	877					

(1) These figures include the number of dwellings, public buildings, stores, etc., visited in 1931 exclusive of second visits. 23520 records of dwellings have been filed, revised and indexed. This work serves as basis for the establishment of the sanitary record of housing.

(2) In many places defects were found after a smoke or oil test which was necessary in 41 cases; 28 smoke and 13 oil of mint tests.

(3) Rooms not lighted directly from the exterior.

(4) The supervision of this work is under the jurisdiction of the Division of Child Hygiene. Inspections before granting permits are only made by this Division.

(5) A general inspection of all schools is made at the end of the school year in order to permit the execution of the ordered repairs during the holidays. The inspection of schools, during the year is made by the Division of Child Hygiene, and when necessary the help of this Division is called.

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

This work can be summarized as follows:

	Number of inspections
Lanes	3,928
Yards	37,528
Vacant lots	2,255
Sheds	49,324
Cellars or basements	16,826
Drains and plumbing systems	49,565
Manure boxes (nuisances)	193
Stables	1,166

(d) Privy vaults and cesspools

There are at present in the City of Montreal 728 privy vaults and cesspools, nearly all of which are located in the wards annexed to the City in the last few years.

The construction of public sewers only would cause these vaults and cesspools to be removed.

IV

DRAINAGE AND PLUMBING

(New or modified buildings)

Number of inspections

1	Drains	 2,604
	Piping (before installation of fixtures)	3,096
3	Piping (after installation of fixtures)	 3,641
	Oil of mint tests	1,175
	Water tests	4,145
6.	Works completed and tested	 2,472
	Calls for inspection	4,663

BUREAU OF PLUMBING EXAMINERS

(a)	Number of sittings	20
(b)	Total number of plumbers examined	157
(c)	New licenses granted to master-plumbers	7
(b)	New licenses granted to journeymen-plumbers	61

VI

LICENSE PERMITS

(a)	Master-plumbers (By-law No. 318)	609
(b)	Journeymen-plumbers (By-law No. 318)	556
(c)	Barber-shops (By-law No. 1006)	1,555
(d)	Laundries (By-law No. 1009)	366
(e)	Establishments: Mattresses, filling materials,	
	etc (By-law No. 1089)	182

VII

NOTICES

Official	notices	se	rve	d.			 	 	 	 4,930
Second	notices							 	 	 905
Notices	given b	y	ins	pec	tors	۰.		 	 	 21,374

Proceedings

Actions taken	(Recorder's	Court)	27
Convictions			25

VIII

Supervision	(number	of	visits)						808
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Yours very truly,

AIME COUSINEAU, C.E.,

Superintendent-Engineer, Division of Sanitation.

V

Division of Food Inspection

DIVISION OF FOOD INSPECTION

Mr. S. Boucher, M.D., D.P.H.,

Director, Department of Health, City Hall, Annex.

Dear Sir: -

I have the honour to submit herewith the annual report of the Division of Food Inspection for the year 1931.

In the following table will be found a brief statement of the work performed by the different sections of the division under my supervision.

Respectfully submitted,

A. J. G. HOOD,

Superintendent, Food Inspection Division.

DIVISION OF FOOD INSPECTION

Section No. 1

Inspection of milk in the City, 1937

COLLECTION OF SAMPLES FOR CHEMICAL ANALYSIS.

		M	ILK				CREAM	
On the street	At railway stations	In groceries	In dairies	In various places	Total	Collected by the inspectors on the markets.	Submitted by citizens	Total
835	20	348	223	615	2041	45	64	109

OLLECTION OF SAMPLES FOR BACTERIOLOGICAL ANALYSIS

lilk	4,945
/ream	29
ce cream	130
tincing water Re: washing of dairy utensils	614
rinking water	304
tiver water for ice cutting	40
Vater from wells and springs	18
'ondensed milk	1
sutter milk	6

Total	 	 	 	 	 	 6,087	1

EXAMINATION OF MILK IN THE CITY

Ailk :

Acidity tests	2,636
Sediments tests	10 000
Temperatures taken	07 000
Total number of gallons examined	377,360

Section No. 1-(Continued)

Confiscation :

Milk	(in	gallons)																49,	26	7
------	-----	----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----	----	---

INSPECTION OF MILK PRODUCERS IN THE COUNTRY

1931

Inspections :

Dairy Score cards	4,373
Special	9,004
At Railway Stations	104
Total	13,481
Cows :	
Number examined	65,676
Clean	59,055
Tuberculin tested within the year	60,141
Tuberculin test overdue	5,535
Stables :	
Number	4,373
Clean	4,042
With concrete floor	3,748
With 400 cubic feet of air space per animal	4,175
With 1 foot of light area per animal	4,107
whitewashed entirely	4,218
Whitewashed (walls only)	20
Dairies :	
Number	4,296
Clean	4,241
Unfinished or unsuitable	55

Section No. 1-(Continued)

Refrigeration :

With ice	3,887
With spring water	139
Producers not having satisfactory cooling	
systems	347

Miscellaneous :

Written notices .				 1,006
Written notices b	y letter	from th	e office	 5,312
Producers interdi	cted			 207

INSPECTION OF CREAM PRODUCERS IN THE COUNTRY

1931

Inspections :

Dairy Score cards	2,028
Special	1,193
At Railway Stations	8
Total	3,229
Cows :	
Number examined	23,640
Clean	19,146
Tuberculin tested within the year	20,784
Tuberculin test overdue	2,856
Stables :	
Number	2,028
Clean	1,578
With concrete floor	1,307
With 400 feet cubic of air space per animal	1,895
With 1 foot light area per animal	1,691
Whitewashed entirely	1,631
Whitewashed (walls only)	64

Section No. 1—(Continued)	
Dairies :	1,
Number	1,
Clean	1,
Unfinished or unsuitable	
Refrigeration :	
With ice	
With spring water	
Producers not having satisfactory refri-	-
geration	1
Miscellaneous :	
Written notices	
Written notices by letter from the office	
Producers interdicted	
INSPECTIONS IN THE CITY.	
At the Railway Stations	
In dairies	5
In groceries	7
In dining-rooms	1
In restaurants	6
In markets	
In stables	
In private houses	
In various places	
Special	1
Total	22
Milk cows examined	4
Empty cans examined	32
Empty cans conficated	
Can tops (lids) confiscated	
Notices for an in	
Notices for poor milk	
Notices for poor milk	4
Written notices (various)	

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Section No.
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OBSERVATIONS AND IMPROVEMENTS, 1927 to 1937

Inspection of dairy farms

	1927	1928	1929	1930	1931
Number of moducons visited	2210	3616	4548	4358	4373
Cows examined	49913	56486	66144	63672	65676
Cows found clean	44526	49425	56527	54695	59055
Stables with cement floor	2295	2707	3483	3524	3748
Stables with 400 cubic feet of air per animal	2840	3442	4319	4008	4175
Stables with one square foot of glass per animal.	2889	3164	3954	3919	4107
Whitewashed stables	2691	3397	4123	3942	4218
Clean stables	2999	3323	4075	3915	4042
Producers having a dairy	2988	3421	4214	4174	4296
Producers whose dairy was not found satisfactory	324	195	334	184	55
Producers whose dairy is maintained in a clean					
condition.	2371	3104	3814	3760	4241
Producers having ice	2678	3028	3660	3987	3887
Producers cooling milk in spring water or wells.	153	503	139	152	139
Producers not having satisfactory cooling svs-					
tems	381	175	749	219	347
Notices in writing	416	239	302	680	1006
Notices (letter from office)	554	740	5395	5180	5312
Producers interdicted	203	145	333	192	207

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Section No. 1-(Continued)

PROGRESS IN THE METHODS AND EQUIPMENT OF MILK PRODUCERS

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	1927	1928	1929	1930	1931	
Cows: Clean	89.41%	87.49%	85.46%	85.90%	89.94%	15
Stables: Whitewashed Clean With concrete floors	83.84% 90.54% 69.29%	$\begin{array}{c} 93.94\%\\ 91.89\%\\ 74.86\%\end{array}$	$\begin{array}{c} 90.65\% \\ 89.59\% \\ 76.58\% \end{array}$	89.93% 89.83% 80.86%	$\begin{array}{c} 96.91\%\\ 92.43\%\\ 85.70\%\\ \end{array}$	2
Milk rooms: Number Clean	$\frac{90.21\%}{79.35\%}$	94.66% 90.73%	$\begin{array}{c} 92.65\% \\ 90.50\% \end{array}$	95.77% 90.08%	98.23% 98.72%	
Refrigeration: With ice With spring water or wells.	$\frac{80.85\%}{4.61\%}$	83.73% 13.92%	$80.47\% \\ 3.05\%$	$\frac{91.48\%}{3.48\%}$	88.88% 3.19%	

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AVERAGE QUALITY OF THE MILK ACCORDING TO THE (BABCOCK) CENTRIFUGAL TEST

AND THE (QUEVENNE) LACTO- DENSIMETER AT 60° Fah.

							Number
Month	Minimum	Maximum	Mean	Minimum	Maximum	Mean	of samples
January. February	1.029	1.031	1.030		5 %	3.6%	187
Vlareh.	1.028	1.031	1.030		5.8%	3.6%	150
April Mav	1.029 1.029	1.031	1.030	00.00 00.00 000	6.4%	3.5%	106
	1.028	1.032	1.631		5.8%	3.6%	200
July	1.028	1.031	1.030		4.1%	3.6%	9
August	1.028	1.032	1.031		4.2%	-3.6%	127
ptember	1.029	1.032	1.030		4.2%	3.6%	96
October	1.029	1.032	1.031		4.6%	3.6%	250
November	1.029	1.032	1.031		4.2%	3.9%	213
December	1.021	1.032	1.030		9 20	3.8	231
Mean	1.027	1.031	1.030	3.5%	5.4%	3.6%	

DIVISION OF FOOD INSPECTION

Milk Section No. 1-(Continued)

RECAPITULATION, 1931

Total	number	of	establishments	15,606
**		**	inspections	39,420
_ "		"	cows examined	93,610
**		"	samples of milk, cream and	
			ice-cream collected for chem-	
			ical and bacteriological ana-	
			lysis	8,237
"	"	"	various examinations of milk,	
			cream and ice-cream	49,806
"	**	**	gallons of milk examined	377,360
"	"	"	gallons of milk confiscated.	49,267
Compl	aints	• •		64
				21
Conde	mnation	s .		21
				11,446
Permit	ts recom	me	nded	509

Section No. 2

	Total number of establishments	Total number of inspections
Private abattoir (City)	1	274
Private abattoirs (Country).	368	1,543
Markets	6	421
Butchers	1,189	13,008
Poultry dealers	68	558
Fish stalls	37	377
Cold storages	7	92
Sundry manufacturers	28	268
Groceries	1,299	8,513
Sundries		484
Special	•• ••••	484
Total	3,054	26,022

Section No. 2-(Continued)

Actions taken	30
Convictions	26
Cases dismissed	4
Complaints	97
Samples collected	153
Written notices	2,215
Dogs visited, having bitten someone	901
Analysis	167
Research Re: Negri bodies	6
Permits granted	1,318
Country abattoirs interdicted	126

CARCASSES INSPECTED AND CONFISCATED

At the private abattoir

	Inspections	Confiscations
Cattle	802	3
Calves	1 0 0 1	
Carcasses of mutton	2,390	2
Hogs	1,393	
Total	6,519	5

At the Meat Inspection Stations

	Inspections	Confiscations
Calves	. 23,789	106
Carcasses of mutton	1 == 0	5
Hogs	05 500	10
Sundries	1=0	7
	·	
Total	. 54,302	128

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

Section No. 2-(Continued)

At the Commission Stores

	Inspections	Confiscations
Calves	45,645	371
Carcasses of mutton	10,188	65
Hogs	35,437	173
Total	91,270	609
Total number of carcasses inspected		
Total number of carcasses		
confiscated		742

FOODSTUFFS AND MEATS CONDEMNED (Ibs)

	Private abattoir	Inspection stations	Commis- sion stores	Markets, butchers, etc.	Total
Beef			100	2233	2333
Veal		139	1300	2028	3467
Mutton		120	104	362	586
Pork		7089	10386	5006	22481
Poultry			3423	1245	4668
1sn				53541	53541
Fruits and veg				34618	34618
CARACTAR Y ARAUMALID	12021	207.0	Tun-2	7959	25215
Sundry foodstuff .	• • • • • • • • • • •			40352	40352
Total	12621	10021	17275	147344	187261

Ice..... 41/2 tons.

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

RECAPITULATION

Total	number	of	establishments 3,054	1
rotar	number	of	inspections 26 025	>
Total	number	of	carcasses inspected 152,091	L

Section No. 2-(Continued)

Total number of carcasses condemned	742
Foodstuffs and meats condemned (lbs)	187,261
Actions taken	30
Convictions	26
Cases dismissed	4
Complaints	97
Samples collected	153
Written notices	2,215
Dogs visited having bitten someone	901
Analysis	167
Research Re: Negri Bodies (all negative)	6
Permits granted	1,318
Country abattoirs interdicted	126

Section No. 3

SECTION OF INSPECTION FOR RESTAURANTS, DINING-ROOMS, BAKERIES, ETC.

1° Establishments for which a permit is necessary :

	Number of	Number
Kind of	establishments	of
establishments	to be visited	visits
Restaurants	4,466	16,963
Dining-rooms	926	5,999
Bakeries	128	1,844
Confectioneries	70	898
Pastry shops	135	1,355
Fruit and vegetable stores	240	1,597
Beverage manufacturers	59	571
Various manufacturers	109	976
Total	6,133	30,203

Section No. 3-	-(Continued)	
2° Establishments for which a permit is not necessary :		
Institutions	112	63
Hotels and taverns	231	194
Total	- 343	257
3° Sundries :		
Vehicles	1,478 (1)	1,224
Special inspections		5,874
Total	1,478	7,098
Grand total	6,476	37,558
4° Samples collected for analysis :		
Bacteriological	468	
Chemical	5	
Total	473	
5° Confiscations :		
Utensils	4	
Fruits (in pounds)	14,258	
Vegetables (in pounds)	79,307	
Various foodstuffs (in pds.)	9,400	
Total	102,965	

(1) The number of vehicles to be examined does not appear in the total.

Section No. 3-(Continued)

6° Sundries :

Complaints	50
Written notices	3,604
Actions taken	138
Actions in Court on January	
1st, 1931	2
Actions withdrawn	47
Actions thrown out	1
Convictions	92

7° Permits :

Granted in restaurants, din-	
ing-rooms and candy	
stores	6,029
Granted in bakeries, confec-	
tioneries, pastry-shops,	
beverage manufacturing	
and various manufactur-	
ing	594
Deferred on January 1st, 1932	26
Refused on January 1st, 1932	57
Total number of permits	6,706

5

P.S. — The surplus of permits with the number of establishments to be visited in 1931 is caused by the fact that there has been some establishments where more than one permit was granted, due to the fact that these establishments have changed owners, and that said permits are not transferable.

Section No. 3-(Continued)

COMPARATIVE TABLE

Section of Inspection for Restaurants, Dining-Rooms, Bakeries, Confectioneries, Pastry-Shops, etc.

	1	930	1931						
Establishments	To be visited	Visited	To be visited	Visited					
 1—Establishments for which a permit is necessary: Reataurants. Dining-rooms Bakeries. Confectioneries. Pastry-shops. Fruit and vegetable stores. Beverage manufacturing. Various manufacturing. Cooked meats establishments. 	$3998 \\ 773 \\ 128 \\ 55 \\ 96 \\ 184 \\ 55 \\ 102 \\ 18$	$16953 \\ 3689 \\ 910 \\ 369 \\ 680 \\ 1200 \\ 299 \\ 532 \\ 116$	$\begin{array}{r} 4466\\ 926\\ 128\\ 70\\ 135\\ 240\\ 59\\ 109\\ (1)\end{array}$	$16963 \\ 5999 \\ 1844 \\ 898 \\ 1355 \\ 1597 \\ 571 \\ 976 \\ (1)$					
2—Establishments for which a permit is not necessary: Institutions Taverns.	97 237	$\begin{array}{c} 134\\ 347\end{array}$	$\frac{112}{231}$	63 194					
3—Sundries: Vehicles Special inspections	1173(2)		1478(2)	$1224 \\ 5874$					
Total	5743	30041	6476	37558					
4—Samples collected for analysis: Chemical Bacteriological Total	******			5 468 473					
5—Confiscations: Utensils. Fruits (in pounds). Vegetables (in pounds). Various foodstuffs (in pounds)	14:	94 9846 2850 4036	$\begin{array}{r} & 4 \\ 14258 \\ 79307 \\ 9400 \end{array}$						
Total	200	3732	102965						

Section No. 3-(Continued)

COMPARATIVE TABLE

Section of Inspection for Restaurants, Dining-Rooms, Bakeries, Confectioneries, Pastry-Shops, etc.

(Continued)

	1930	1931
-Sundries:		
Complaints		50
Whitten notices	0 905	3,604
Actions in Court on January 1st.	217	2
Actions taken	217	138
Actions withdrawn	101	47
Actions thrown out		1
Convictions	114	92
Actions in Court on December 31st	2	0
 Permits: Granted in restaurants, dining- rooms, candy stores, etc Granted in bakeries, confectioneries, pastry-shops, beverage manufac- turing and various manufactur- 	5052	6029
ing	367	594
Deferred on December 31st	282	26
Refused on December 31st	35	57
Total permits	5736	6706

P. S.—The surplus of permits with the number of establishments to be visited in 1931 is caused by the fact that there has been some establishments where more than one permit was granted, due to the fact that these establish-ments have changed owners, and that said permits are not transferable. (1) These establishments are now under the supervision of Section No. 2. (2) The number of vahicles to be examined does not encode in the total

(2) The number of vehicles to be examined does not appear in the total.

Section No. 4

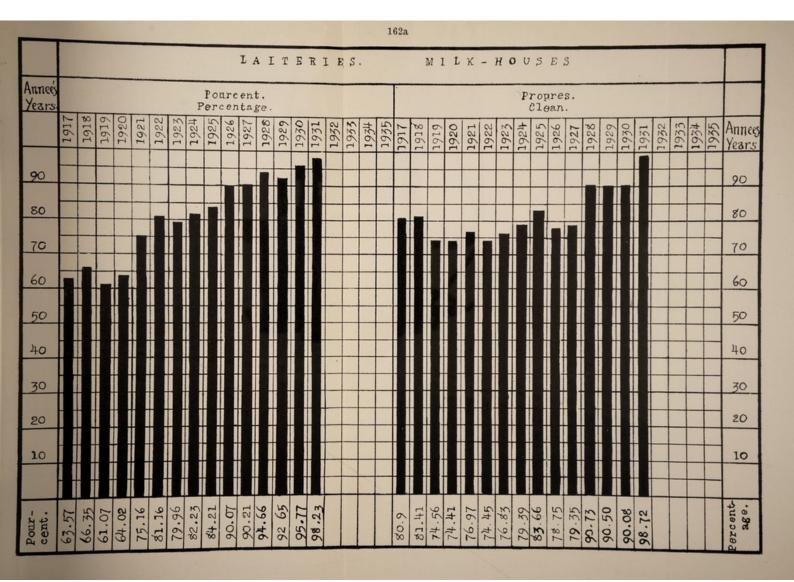
WEIGHT OF BREAD IN THE CITY OF MONTREAL DURING THE YEAR 1931.

	Inspec- tions made	Loaves weighed	Loaves confisc- ated	Notices sent	Actions taken
n bakeries	530	95461	21761	95	6
n grocery stores	2592	75523	105	197	2
n pastry shops	161	3223	130	12	0
n restaurants	2050	19275	19	175	0
n vehicles	89	1670	24	3	1
Total	5422	195152	22039	482	9

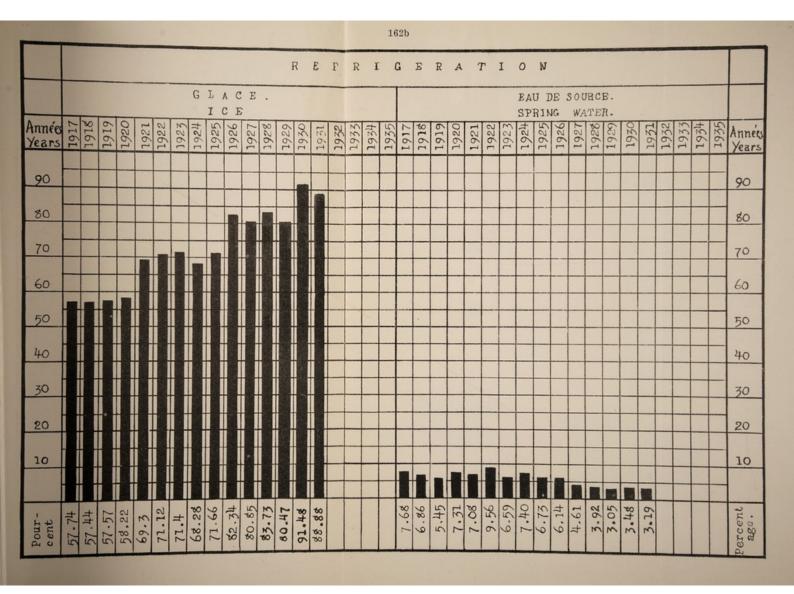
FOOD INSPECTION DIVISION . A. J. G. Hood, V.S., Superintende

DEPARTMENT OF HEALTH

Dr. A. J. G. Hood, V.S., Superintendent	General Food Inspection Section	7 Districts—7 Inspectors Places visited and duties: Restaurants. (406) Bakeries. (400) Bakeries. (400) Bakeries. (400) Bakeries. (400) Bakeries. (400) Bastry shops. (400) Bastry shops. (400) Confectiomeries. (400) Districts. (40) Sundry manufacturers (10) Districts. (40) Special. (1220) Special.
Dr. A. J. G. Hood,	Meat Inspection Section	7 Districts—7 Inspectors Places visited and duties: Private abartoir. 1 Markets. 1189 Poulty dealers. 1189 Poulty dealers. 28 Gold storages. 28 Groeeries. 1200 Sundry manufracturers 28 Groeeries. V.S. H. Provost. 4-R. Jalbert. 5-Dr. J. Laberge, V.S. H. Bélau. 4-Dr. C. Sauvé, V.S. Dr. J. L. Archambault, V.S. Dr. J. L. Nault. Mattoirs (Country): J. L. Nault. Visits of dogs having bitten some- one: 1000 Dr. J. Laberge, V.S.
Boucher, M.D., D.P.H., Director	Milk and Dairy Farms Inspection Section	9 Districts—10 Inspectors Places visited and duties: Regular inspections. Special inspections Inspection of milk cows. Inspection of anitk cows. Inspection of anitk cows. Inspection of anitk cows. Inspection of anitk cows. Inspection of a duties. Inspectors. J. E. Bourbonnière, V.S. Dr. J. Piebé, V.S. Dr. J. Piebé, V.S. Dr. J. Piebé, V.S. Dr. J. Martel, V.S. Dr. E. C. Legault, V.S. Dr. R. Lanflois, V.S. Dr. R. Lanflois, V.S. Dr. A. Martel, V.S. Dr. R. Lanflois, V.S. Dr. Ant. Pratte, V.S.
Dr. S. Boucher, M.C	City Milk Inspection Section	7 Districts—7 Inspectors Places visited and duties: Dairies. Groeries. R.R. depots and hoats. Milk depots. Stables Milk vaggons. Milk waggons. Milk waggons. Milk waggons. Empty cans inspection. Special inspection. Special inspections. Samples collected for chemical and bacteriological analysis. Districts: No. 1—A. E. Marleau. 2—A. Lavallee. 3—A. Bélanger. 4—G. Savage. 5—J. N. T. Laberge. 5—J. N. T. Laberge. 5—J. A. Séguin. 7—J. E. Emard. Pasteurization Section 7 Districts—7 Inspectors Places visited and duties: Control of pasteurization and cleanliness in 44 milk plants. Control of 31 special milk establish- ments. Inspectors: Inspectors: G. B. A. Mesti. J. P. Désalliers. A. Lapierre.



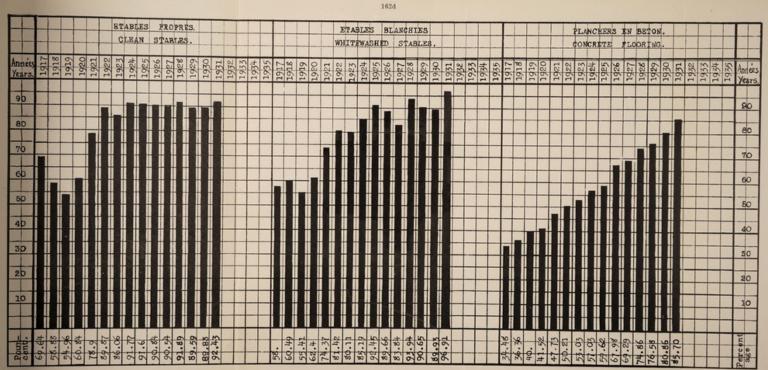






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VACHES PROPRES. CLEAN COWS.																	ES.			A I RCU			BER TE		LIN S.	rE.															
Années Years	1 0	1161	1918	1919	1920	1921	1922	2001	1701	1924	1925	1926	1927	1928	1929	1930	1201	20201	1933	1024	1935	1917	\$161	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1201	1929	1022	1934	1935	Année Year:
90				-	-			-	-			-							-	+																					90
80			ľ																+	+																					80
70																			+	+																			-		70
60			-																-	-																					60
50									Ï						North State		a subsection			-									_												50
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Pour- cent.	\$5.33	88.53	KZ KO	60.60	21.12	86.47	•	87.86		00 4	30.2	91.62	14.68	87.49	85.46	\$5.90	\$9.94					2.35	1.48	1.54	2.05	2.06	3.75	5.03	\$.17	26.19	63.9	\$2.41	94.94	\$5.06	93.43	91.57					ercent age.







Division of Municipal Assistance

STAFF OF THE DIVISION OF MUNICIPAL ASSISTANCE FOR THE YEAR 1931

ALBERT CHEVALIER C. J. GAUTHIER	Superintendent. Assistant Superintendent
G. LAPROTTE	& Secretary. Chief Clerk.
J. DEGUISE	Clerk.
P. E. GAGNE	"
EUG. ACHARD	"
Mrs C. SAURIOL	"
Miss G. CONTANT	"
Miss M. LEONARD	Stenographer-Typist.
Miss Y. LEBLANC	In charge of the Social Ser-
	vice Record.
Miss T. QUENNEVILLE	Clerk of the Social Service
	Record.
Miss R. BEAUPRE	" of the Social Service Record.
Z. BILODEAU	Bookkeeper.
J. A. DONATO	Chief Investigator.
P. E. PROVOST	Investigator.
A. BRABANT	"
D. LAVOIE	"
CHAS. ED. LEFEBVRE	"
ARMINI CHEVALIER	**
E. SANCHE	**
0. GIROUX	"
J. DESROCHERS	Supervisor of the Meurling
* ** * * * ***	Refuge.
J. M. LALIBERTE.	Clerk.
A. HENUSET	Fireman
J. BRUNET	"
G. FILION	Launderer.
J. BURON N. LATRAVERSE	Cook.
J. R. ROBITAILLE	Watchman.
A. GOUGEON	"
A. HINTON	
L. PARISIEN	

TWENTY-SEVENTH ANNUAL REPORT OF THE DIVISION OF MUNICIPAL ASSISTANCE

For the year 1931

Dr. S. Boucher,

Director of the Department of Health.

Dear Sir: -

I beg to submit herewith the twenty-seventh Annual Report of the Division of Municipal Assistance for the year 1931.

This year our Division has dealt with 42,987 cases, which necessitated 28,956 investigations and the hospitalization of 33,990 persons at the expense of the City. These figures do not include the work done at the Municipal Meurling Refuge, which during the year 1931 has supplied 249,189 sleeping accommodations to 5,985 individuals and given 514,565 meals to the individuals lodged.

On the 31st of December, 1931, there remained 1,091 enquiries in abeyance, 26 of which for neglected children, 24 for current cases of insanity, 37 for juvenile delinquents, 7 for incurables, 2 for tuberculous, 7 for burial, 1 for street vendor, 134 for deportation and 858 for hospitalization under the Quebec Public Charities Act. A better idea can be formed of the work done by this Division by referring to the report which follows herewith: —

The City of Montreal has spent in 1931 for assistance to its ratepayers a sum of \$2,589,868.21, as follows: —

Relief of various kinds \$3,112,054.82

Remittance of real	estate tax to charitable	
institutions		454,459,68

Total \$3,566,514.50

Less	s the	money	collected	for	
	main	tenance	••••••		\$ 35,535.86
Less	s the	money	collected	for	

amusement tax 431,277.09

Less the reimbursement for unemployment by the Fe-		
deral and Provincial Gov- ernments	509,833.34	
Total	976,646.29	\$ 976,646.29

\$2,589,868.21

Or: \$880,212.22 more than in 1930.

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Sums collected	\$ 1,001.35 238.84 19,329.76 667.87	113.26 63.08 105.90	431,277.09		14,015.80 509,833.34		976,646.29	\$ 506,452.10
Expenditure	 \$ 88,575.67 40,686.32 324,456.92 74,228.80 73,000.00 10,960.00 30,420.00 	4,370.90 1,622.69 234,888.30	945,051.79 318,964,55		37,955.88 29,383.00 897,500.00	3,112,054.82 454,459.68	3,566,514.50	\$2,216,108.09
Number of cases	1,466 1,466 1,060 1,060 1,556 1,556 1,556 1,556	212 298 298 298 298 298 298 298 298 299 200	36 34 35,195	42,987 37,432				
Number of investigations	1,440 1,440 1,036 1,036 372 372 1,556 1,556 1,556	242 298 298 298 298 298 298 298 298 298 29	36 34 21,243	28,956				
Hospitalized at City's cost	822 805 805 888 888 888 888 888 888 888 888	Image: constraint of the sector of	30,98.5	33,990 29,143	tures). 514,565	\$33,663,680.00 at \$1.35%.		
Items			Persons authorized to collect gifts for said institutions (By-Law 626) Tag-Days Quebec Public Charities Act Grants	Total.	Meurling Municipal Refuge—Free night lodgings: 249,189; free meals given: 514,565 Administration expenditure of general office Unemployment crisis (\$3,782.97 included for miscellaneous expenditures).	To be added: Exemption of taxes to charitable institutions: \$33,66	Grand total	

The following particulars show how the divers sums of money mentioned in the preceding page have been spent: —

Placing of neglected children in schools of industry.

1,466 applications for placing or discharging neglected children had to be settled during 1931. These applications necessitated 1,440 investigations; 26 of which remained in abeyance on the 31st of December, 1931.

The result of said investigations was as	follow	s:
Accepted cases		779
Refused cases		220
Procedures discontinued		251
Applications for release granted		123
Special cases		50
Placed in families		17
Total	-	1 4 4 0
Total	· · ·	1,440
Children were placed as follows:		
Children in schools of industry on the 1st		
January, 1931		1,180
Admitted during the year:		
At "Maison Ste-Domitille" 257		
At "Notre-Dame de Montfort" 172		
At "Orphelinat d'Huberdeau" 129		
Total	558	
Readmitted during the year	264	
Total		
Total		822
Total	-	0.000
		2,002
Discharged or set free	495	
Internments terminated	305	
Total		800
On the 31st of December, 1931	-	
		1,202

Distributed as follows:

Maison Ste-Domitille, Laval-des-Rapides	598
Notre-Dame de Montfort	358
Orphelinat d'Huberdeau	246

All these children are placed at joint expenses with the Provincial Government.

On December 31st, 1931, 18 boys and 7 girls were waiting for their admission. The cost of maintenance of these children was \$88,575.67 in 1931 (paid by the City for transportation \$991.63 and to the Provincial Government \$87,584.04).

The parents of certain children found able to pay for the maintenance of said children were called upon to refund to the City the amount of \$1,001.35.

Juvenile delinquents

974 cases of juvenile delinquents were reported in the following Institutions' monthly report:

St-Vincent-de-Paul Reform	n School	752
Bon-Pasteur		190
Shawbridge		23
Girls' Cottage		9

936 investigations were completed during the year with the following results:

Investigations closed	895
Objections to payment	38
Parents having to reimburse	30
Under investigation on December 31st, 1931	37

The sum of \$238.84 was collected in 1931 from responsible parties.

On the 31st of December, 1931, there were, in the Reform Schools, at the City's expense, 351 juvenile delinquents, as follows:

At St-Vincent-de-Paul	158
At Bon-Pasteur	102
At Shawbridge	69
At Girls' Cottage	22

The City of Montreal paid to the Provincial Government in the year 1931, for the maintenance of the Juvenile Court, the sum of \$6,500.00.

170

Another sum of \$34,094.32 was paid by the City for maintenance expenses and \$92.00 for transportation expenses in the year 1931, making a total of \$34,186.32.

Insane.

There were in the asylums for the insane, at the City's expense, on the first of January, 1931, 3,114 patients. During the year 805 of these patients were admitted: at St-Jean-de-Dieu, 530; at Verdun, 102; at l'Hospice Ste-Anne-de-la-Baie St-Paul, 40; at l'Asile de Bordeaux (for the criminal insane), 98; and at LaJemmerais School, 35.

623 of these patients were either discharged from these asylums or died during the year; consequently, there were left 3,296 patients on the 31st of December, 1931, distributed as follows:

Institutions	Patients
St-Jean-de-Dieu	2,096
Verdun	451
L'Hospice Ste-Anne de la Baie St-Paul	254
Bordeaux (Criminal Insane)	202
Ecole de LaJemmerais	165
St-Ferdinand d'Halifax	19
Beauport (St-Michel-Archange and Hospice Du-	
frost	109
Total	3,296
There was a decrease of 50 admissions in 1931 over the year 1930.	the year
Mental cases in 1931 required 1,036 investigat results of which have been as follows:	
Investigations closed	
rarents having to reimburse the City	108
special investigations for the Quebec Government	47
Objections to payment	
Procedures discontinued	

Procedures discontinued

Insane persons deported

101

16

On the 31st of December, 1931, there remained 24 investigations to be made. 745 commitment papers were prepared in 1931 by our Division.

The City of Montreal has received for the board of the insane patients, from the latter's parents, during the year 1931, the sum of \$19,329.76.

The maintenance of the insane patients in the asylums in the year 1931 has cost the City:

For the repatriation and transportation of	
insane persons	\$ 2,538.21
For the maintenance of patients in hospitals	321,918.71
Total	\$324,456.92

INCURABLES AND TUBERCULOUS

Incurables

Applications for the hospitalization of incurable patients during the year 1931 amounted to 301, or 40 less than the preceding year. These applications necessitated 301 investigations, the result of which has been as follows:

Recommendable cases 127
Cases not recommendable 124
Parents having to refund cost of maintenance to
the City 0
Procedures discontinued
Deported 1
Under investigation on the 31st of December, 1931 1
There were 88 patients hospitalized during the year $1931: -$
At l'Hôpital du Sacré-Coeur
At the Grey Nuns', St. Mathieu street
The total number of patients at the City's expense on the 31st of December, 1931, was 139, located as follows:
A+ l'Hôpital du Sacré-Coeur
At the Grey Nuns' 40

On the 31st of December, 1931, there was one vacant place at l'Hôpital du Sacré-Coeur; 7 patients were waiting their admission on the same date.

At the Grey Nuns', the number of beds available was increased from 30 to 40, in virtue of a new decree passed in the course of the year.

Tuberculous

There were 244 applications for hospitalization of indigent tuberculous during the year 1931. These 244 applications necessitated 242 investigations, the result of which has been as follows: —

Recommendable cases	188
Cases not recommendable	10
Procedures discontinued	37
Parents having to refund cost of maintenance	3
Deported	. 4
Under investigation on December 31st, 1931	2

The number of tuberculous hospitalized during the year was 179.

91 tuberculous patients were at the Sacred Heart's Hospital on the 31st of December, 1931, at the City's expense; there were 9 vacant places and 7 patients were waiting for their admission on the same date.

The amount paid for the maintenance of the tuberculous during the year 1931 was of \$73,000.00.

The sum of \$667.87 has been reimbursed to the City by the parents of the incurables or of the tuberculous.

St. Luke's Hospital

Ten beds are at the disposition of the City, in virtue of a contract agreed to between the City of Montreal and the above mentioned Institution for the hospitalization of sick vagrants picked up in the streets by the police, or of other persons that may have to be put under observation. In the course of the year 1931, 44 persons were hospitalized and the sum spent for this purpose amounted to \$10,950.00. These hospitalizations have necessitated 37 investigations and one deportation.

Refuge Notre-Dame-de-la-Merci

At the Refuge Notre-Dame-de-la-Merci, there are at our disposal, according to a contract agreed to between the City and the above mentioned Institution, 75 beds for the hospitalization of vagrants or of other persons, sick or homeless, picked up by the police and who cannot be placed in the existing institutions; such as paralytics, old men of all categories, undisciplined, crippled.

During the year 1931, 130 applications were made and after investigation 104 of these applications were accepted; one deported and 25 refused or discontinued; 93 were hospitalized and the sum paid by the City for this purpose amounted to \$30,420.00.

Assistance to the indigents

During the year 1931, 1,556 applications for relief of various kinds were filed with our Division. Most of these cases were referred to the charitable institutions.

Mendicants and street vendors

288 applications for street vendor licenses were made at our office in the course of the year. These applications have necessitated 287 investigations with the following result: —

Applications recommended upon payment of the
\$10.00 license fee
Applications recommended free of charge 116
Applications not recommended or discontinued 116
Under investigation on the 31st of December, 1931 1

Special cases

142 requests for research or information were made through this Division during the year 1931. These researches were of a particular nature and we are pleased to state that they were attended to satisfactorily.

Burial of indigents

The amount collected in 1931, from responsible parties for burial expenses, was \$113.26.

The amount paid by the City for burial expenses during the year 1931 was \$4,370.90.

Deportation

The cases of deportation of immigrants figured at 598 in 1931. After investigation these cases were disposed of as follows: —

Immigrants deported	317
Procedures discontinued	134
Cases refused by the Department of Immigration	13
Under investigation at Ottawa on the 31st of De-	
cember, 1931	134

Repatriation

297 requests for repatriation came before this office in 1931. The amount spent by the City for this purpose was \$1,622.69.

The above mentioned requests were disposed of as follows: —

The sum of \$63.08 was reimbursed to the City by an indigent person who was repatriated.

Pensions and annuities

On the 31st of December, 1931, there were 409 persons (352 adults and 57 children) drawing a pension or annuity from the City.

The	expenses	incur	red	fc	or	this	pu	irpo	ose	in	
	1931 amor	unted	to								\$234,888.30
Amo	unt reimb	ursed									105.90

Registration of charitable institutions and of persons authorized to solicit gifts or alms on behalf of said institutions

In conformity with the municipal By-lay No. 626, 187 institutions soliciting or collecting gifts or alms have registered in 1931 (in 1930, 182), and 36 persons were authorized to solicit such gifts or alms (in 1930, 43).

Tag-Days

His Worship the Mayor received, during the year 1931, 34 applications for permission to hold Tag-Days, in compliance with the above mentioned by-law. These applications were handed to this Department for attention and we reported as follows: —

Favourable recommendations for Tag-Da	ys	 25
Favourable recommendations for Guignole	ées	 6
Not recommended (Tag-Davs)		 3

22 associations have held "Tag-Days" on the dates and with the detailed results which will be found in the table on the following page.

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% of expenses		19.77	-			13.46	4.67	12.58		27.21				11.25		13.05	22.99	27.37	17.78	52.08	16.64	32.90		Amount	15.11%
Surplus	-	\$ 1,126.70	822.74	4.256.46	752.67	545.46	2,784.45	2,653.46	1,320.00	813.37	1,998.81	379.48	2,079.85	113.	1,813.16	762.19	622.93	1,268.26	710.54	1,632.33	1,030.30	274.67	8,811.88		\$39,572.99
Expenses	-	\$ 278.00	85.60	357.48	136.83	84.84	136.70	381.88	250.00	304.14	352.29	180.43	420.15	395.00	277.38	114.40	196.06	478.15	153.75	1,772.79	205.72	134.69	361.43		\$ 7,047.71
Receipts		\$ 1,404.79	908.34	4,613.94	889.50	630.30	2,921.15	3,035.34	1,570.00	1,117.51	2,351.10	559.91	2,500.00	3,508.28	2,090.54	876.59	808.99	1,746.41	864.29	3,405.12	1,236.02	409.36	9,173.31		\$46,620.70
Associations		Colonie Ste-Thérèse de l'Enfant-Jésus	Hervev Institute	Childre	Hellenie Ladies' Philanthropic League.	I'nion Nationale Francaise	Salvation Army	Association du Bien-Etre de la Jeunesse.	St. Joseph Italian Orphanage.	Franciscaines Missionnaires de Marie.	Hebrew Consumptive Aid Association	Vétérans Français de la Grande Guerre	Laurentian Fresh Air Camp.	Montefiore Hebrew Orphans Home.	Young Hebrew Malbish Arumim Society.	Greek Ladies' Benevolent Society.	Montreal Humane Society.	Foyer Notre-Dame-de-la-Garde	St. John Ambulance Brigade	L'A. C. J. C.	Salve Regina Protectorate for Boys.	Women's Labour League of Montreal.	Greater Montreal Poppy Day Relief Fund		Totals
Date		Anril 4	11 ,	" 18		0 2000	" 16	· 30	June 6	" 13	17	. 27	29	Aug. 24		Sept. 5	²⁴ 12	19	26	Oct. 10		Nov. 7	-		
No.		1	6	1 07	-	1.5	9	1	00	6	10	11	12	13	14	15	16	17	18	19	20	21	22		

Quebec Public Charities Act.

The proceeds from the "Amusement Tax" applied to the working of the Quebec Public Charities Act, during the year 1931 were as follows: —

Amounts received from January 1st to De- cember 31st, 1931	\$918,426.87
After paying the Provincial Government's share and the expenses for the collection of said tax, the nett amount left to the	
City was	431,277.09
The expenses incurred by the City for the application of said by-law amounted to	27,936.34
The above expenses were at the City's c	harge exclu-

The above expenses were at the City's charge exclusively.

The City disposed of its share of the said proceeds as follows: ---

For transportation of patients	\$ 543.60
To the Maternities, Crèches and Infants' Homes	145,335.57
To the Provincial Government for the main- tenance of patients in the Hospitals, Hospices, Orphanages, Asylums, etc	* 771,136.28
To include the expenses of collection of the tax	27,936.34

Grand total \$944,951.79

The City has consequently spent \$216,523.43 more than last year.

The number of requests for hospitalization under the

* At the presentation of this report, this account was not as yet verified.

Quebec Public Charities Act, sent to our Division during the year 1931 were as follows: ---

Applications for hospitalization in Hospitals,

Sanatoria, Homes and Orphanages	18,927
Cases reconsidered	1,191
Under investigation on the first of January, 1931	1,230
Transferred to other institutions	752
Total	22,100
Investigations made during the year	21,243
Under investigation on the 31st of December, 1931	857
The result of these investigations has been as	follows

The result of these investigations has been as follows:Accepted cases17,890Cases refused3,353

To these 17,890 cases accepted after investigation, we must include or add 13,095 cases accepted in the Maternities, Crèches, Homes for the children, and School for crippled children, without investigations, making a total of 30,985 hospitalized persons and of 35,195 cases (refused, 3,353; under investigation, 857).

Meurling Municipal Refuge

The expenses incurred by the City for the service of the Meurling Municipal Refuge during the year 1931 were as follows: —

Salaries	\$14,551.25
Heating	
Heating	3,291.00
Lighting	865.82
uas	123.97
1.000	12,321.48
Repairs of the buildings (\$839.38) and main-	12,021.10
tenance of the building (\$4,225.03)	5,064.41
Laundering	1,737.95
Total	\$37,955.88
During the year 1930, the total cost amounted to \$38,965.99, or a decrease of	\$ 1,010.11

The City of Montreal was reimbursed by the Provincial and Federal Governments of a sum of \$14,015.80, from the funds of direct relief voted by the above mentioned Governments to come to the aid of indigents and more particularly so for the homeless, so that the expenses incurred by the Meurling Municipal Refuge during the year 1931 have really amounted to \$23,940.08.

During the year 1931, there were 249,438 entries for lodging accommodations in the Meurling Municipal Refuge. Of this number, 249 individuals were refused admission for good cause, so that the nett number of lodgings given was 249,189. These lodgings were given to 5,985 individuals, or an average of 41.7 times each individual.

The number of refugees who have been supplied with work or with situations amounted to 16,033; the average age of the persons lodged was 44.5 years. The refugees lodged at this institution represented 36 different nationalities.

The number of refugees found sick by our physician, after examination, was of 36,823 and the number of diseases was 54.

514,565 free meals were given and the cost of each of these meals amounted to .0221.

683,778 pieces of linen were washed in the Refuge's Laundry. Of this number, 3,510 pieces belonged to the various departments of the City Hall, 5,997 pieces to the refugees and 674,271 pieces to the Meurling Refuge.

Administration expenses of the General Office.

The expenses incurred for the administration of the General Office, to the exclusion of the Refuge, in the course of the year 1931, were as follows: —

Salaries	\$27,298.97
Transportation	1,616.82
Incidentals	182.76
Furniture	34.45
Social Service Exchange	250.00
Total	\$29,383.00

SUBSIDIES

Subsidies and grants accorded by the City of Montreal in 1931 amounted to \$318,964.55, distributed as follows: ----

Hospital Ambulance Service:

Notre-Dame Hospital	\$ 1,500.00
Montreal General Hospital	1,500.00
Royal Victoria Hospital	1,500.00
Hôtel-Dieu	500.00
Hôpital Ste-Justine	500.00
Western Hospital	500.00
Hôpital Ste-Jeanne-d'Arc	500.00
Hôpital St-Luc	500.00
Education and Assistance:	
Royal Life Saving Society	300.00
St. John Ambulance Brigade	200.00
	200.00
Patronages and Homes:	
St-Vincent-de-Paul Patronage	500.00
Maison d'Oeuvres Jean-le-Prévost	200.00
Montreal Boys' Home	200.00
Salve Regina Boys' Home	500.00
Fraternal Societies:	
Conseil fédéré du Travail	200.00
Union mutuelle des Employés civiques	100.00
Montreal Sailors' Institute	200.00
Catholic Sailors' Club	400.00
Syndicat catholique et national des fonc-	
tionnaires municipaux.	100.00
Syndicats catholiques et nationaux	200.00
Children's Welfare:	
Colonie de vacances des Grèves	1.000.00
Colonie de vacances Jeanne-d'Arc	1,800.00
Summer Camp for Girls (Bruchési Insti-	500.00
tute)	1 800 00
	1,800.00

Summer Camp for Boys	1,800.00
Colonie de vacances de Ste-Thérèse de	
l'Enfant-Jésus	500.00
Colonie de vacances de l'Aide aux En-	
fants Infirmes	300.00
Colonie de vacances de l'Aide aux En-	
fants Infirmes (Installation)	1,000.00
Diocesan Camp Corporation of Montreal	500.00
Parks and Playgrounds Association	1,100.00
Association du Bien-Etre de la Jeunesse	1,200.00

Educational:

850.00
300.00
400.00
4,000.00
3,000.00
5,000.00
3,000.00
3,000.00
1,200.00
2,500.00

Educational Campaign:

Montreal Tourist and Convention Bu- reau	5,000.00
Ligue de Sécurité de la Province de Québec	2,000.00
Ligue de Sécurité de la Province de Québec	500.00
Ligue de Sécurité de la Province de Québec	459.55
Ligue du Progrès Civique	2,000.00

Protection of Animals:	
Society for the Prevention of Cruelty to Animals	2,500.00
General Clinics:	
Montreal Dispensary	500.00
Herzl Dispensary and Hospital	500.00
Dispensaire de l'Hospice St-Henri	3,000.00
Dental Clinics:	
Montreal General Hospital	1,000.00
Hôpital dentaire Laval	2,200.00
Diet Clinic:	
Montreal Diet Dispensary	200.00
Anti-tuberculosis Clinics:	
Institut Bruchési	8,000.00
Institut Bruchési, dispensaire St-Denis.	1,900.00
Royal Edward Institute	8,000.00
Royal Edward Institute, Rosemount Dis-	1,900.00
pensary	1,300.00
Homes, Orphanages and Asylums:	
Assistance publique	6,000.00
Orphelinat St-Arsène	1,500.00
Asile de la Providence (for old men)	1,500.00
Asile des Vieillards des Petites Soeurs	1 500.00
des Pauvres	1,500.00 200.00
Bon-Pasteur (Penitents)	500.00
Sheltering Home (Temporary Home for	000100
Women)	250.00

Home Relief:

Protestant Relief Committee	 	 	500.00
Baron de Hirsch Institute	 	 	3,000.00
Catholic Welfare Bureau	 	 	1,000.00

Assistance (Women and Children):

Maternal Assistance	4,000.00
St. Ann's Day Nursery	100.00
Grey Nuns (Bureau of Adoption)	3,000.00

General Assistance:

Salvation Army			1,500.00
Family Welfare Association			2,000.00
Société catholique de Protection e	et	de	
Renseignements			2,000.00

Education and Assistance:

Institut des Aveugles "Nazareth"	1,500.00
Montreal Association for the Blind	500.00
Institution des Sourdes-Muettes	500.00
Association Canadienne-française des	
Aveugles	500.00
Radium Institute	5,000.00

Night Refuges, Shelters:

Protestant House of Industry and Refuge	1,500.00
Union Nationale Française	600.00
Old Brewery Mission	700.00
L'Oeuvre des Sans-Foyer (Soeur Bon-	
neau)	500.00

Society for the Protection of Women and Children:

Society for the	Protection	of Women an	d
G1. 11.1			. 800.00

Special Grants:

Société St-Jean-Baptiste	3,000.00
McGill University (for Standard Time)	150.00
French-Canadian Boy Scouts	3,000.00
Boys Scouts Association	2,000.00
Catholic Community \$1,000.00	
St-Vincent-de-Paul 1,000.00	
Boys Scouts Association 1,000.00	5,000.00
Financial Federation 1,500.00	
Boys' Farm Training School 500.00	
McGill University	10,000.00
Monument aux Français de Montréal, etc.	2,000.00
Greater Montreal Poppy Day Relief Fund	55.00
Institut Bruchési and Royal Edward	
(Timbres de Noël)	2,000.00
Ecole Technique de Montréal (Provided	
by the Charter)	75,000.00
Notre-Dame Hospital	12,500.00
Children's Memorial Hospital	15,000.00
St. Luke's Hospital	25,100.00
Montreal General Hospital	25,000.00
Hospice St-Henri	15,000.00

Total \$318,964.55

The value of the real estate owned by charitable institutions and exempted from taxation, in 1931, was \$33,663,680.00. The real estate tax at \$1.35% amounts to \$454,459.68.

Social Service Exchange

Since the 21st of September, 1931, the Social Service Exchange is in full operation.

The number of Record-cards on the 31st of December, 1931, amounted to 99,442, i.e. 97,174 individual records and 2,248 cards for lodging.

This Department, as explained in the 1929 annual report, the year on which it was organized, is an immense index, having a record of each individual who has received help from the City, in any shape or form, or in any institution whatever, since the foundation of the Municipal Assistance; the different occasions on which he received relief are recorded with full particulars on the same card, which constitutes in itself a regular record to which we can readily refer for any information required concerning the individual interested. This organism constitutes then an efficient means of verification, as well as a protection, not only for the City of Montreal, but also for the institutions or organizations concerned, and abolishes the unjust multiplication of relief given to the same persons, an exploitation which ceases of itself in consequence thereof.

As soon as applications for relief are made at the Municipal Assistance, they are referred to the Social Service Exchange; the records already entered are then looked through in order to trace back the persons who have been relieved in the past.

It happens often enough that the same person makes two applications of a different nature but at close dates, in which case, an investigation and a visit at the domicile will be sufficient, and this procedure of check-up avoids a considerable loss of time in making the investigations. In a few words: the usefulness of the Social Service Records Department has been fully and convincingly demonstrated from the first day of its operation.

Unemployment crisis

The crisis of unemployment which we have experienced for some time past, has aggravated itself in the course of the year 1931, so that the public authorities had to intervene, as they did in the year 1930, in order to relieve the affected population. Unemployment works had to be initiated and direct relief distributed as well. The first Dominion Unemployment Relief Act having expired, the Federal Government had to pass a new law on the 3rd of August, 1931, entitled: "Dominion Unemployment Relief and Farmers Act, 1931". I will mention here only the direct relief, as the unemployment relief works do not come under our jurisdiction.

As in 1930, the direct relief has been distributed to the charitable organizations interested in the distribution of relief to the unemployed, in the following proportions: 75% to the Catholics, 19% to the Protestants and 6% to the Hebrews. These charitable organizations are: The St-Vincent-de-Paul Society, the Montreal Council of Social Agencies and the Federation of Jewish Philanthropies of Montreal. One-third of the money spent for this purpose is reimbursed by the Federal Government and the same proportion, i.e. one-third, by the Provincial Government.

During the course of the year 1931 we had to open a special refuge for the homeless men, under the direction of a committee of citizens and controlled by the Canadian Red Cross Society. The expenses incurred for the maintenance of said Refuge have been reimbursed to the City of Montreal in the proportion of 50% by the Federal Government and 25% by the Provincial Government.

The Advisory Relief Board, appointed in the year 1930, continued to operate in the course of the year 1931 and, as in the preceding year, was composed of the same representatives.

The total amount spent by the City of Montreal for direct relief purposes, during the year 1931, was \$897,-500.00. The City was reimbursed by the Provincial and Federal Governments, in 1931, of a sum of \$509,833.34; therefore, the City was obliged to disburse from its ordinary budget, the sum of \$387,666.66. Attached herewith, please find a table showing the direct relief distributed monthly to the families affected by the unemployment crisis, in the City of Montreal.

Year 1931 Months	Number of heads of families relieved	Depend- ants of heads of families	Indivi- duals relieved	Total number of persons relieved	Total number of meals distri- buted	Total number of lodgings given
January	12,099	44,603	2,543	59,245	242,799	45,776
February	12,741	46,489	3,446	62,676	271,231	48,252
March.	4,786	23,705	3,390	31,881	256,732	47,754
April	3,369	17,439	2,873	23,681	151,659	40,233
May	1,980	10,551	1,886	14,417	108,362	26,407
June	2,672	11,450	2,037	16,159	108,646	24,440
July	2,545	11,674	2,143	16,362	186,072	25,710
August	3,047	14,593	2,448	20,088	202,874	29,38
September	4,574	22,360	3,627	30,561	288,684	43,53
October	6,462	31,256	4,735	42,453	324,794	61,55
November	8,931	39,772	5,407	54,110	395,088	73,54
December	12,215	55,364	5,789	73,368	420,469	83,04
Total	75,421	329,256	40,324	445,001	2,957,410	550,34

In addition to the sum of \$387,666.66 which the City of Montreal has disbursed, from its ordinary budget, as above mentioned, for direct relief, there is a further amount of \$3,782.97 covering the expenses incurred for the census of the unemployed as well as for the administration of the above mentioned Board.

Co-operation with the Police Department

During the year 1931, the Department of Police, through its representatives connected with our Bureau — Detective-Sergeant Finel and constable Pleau — looked after the following cases: — The cases reported before the Recorders' Court and the Police Court are as follows: ----

Prisonners remanded for mental examination Prisoners committed at the Bordeaux Hospital 75 Prisoners committed at St-Jean-de-Dieu 20 Prisoners committed at the Verdun Asylum 6 Prisoners deceased during mental examination: — At the Bordeaux Jail	184
Retarded or idiot children transported under escort Interned at the Hospice Ste-Anne, Baie St-Paul, Charlevoix County	82
82 Children handed over to their parents: —	
Brought back from Hospice Ste-Anne, Baie St- Paul	
Mastai, Que. 15 Transferred from La Jemmerais School to St- 1 Jean-de-Dieu 1	
32	
Insane evaded, found and taken back to St- Michel-Archange	
Hospital	

To England	77	
" Czecho-Slovakia	46	
" Poland	37	
" Germany	22	
" Rumania	19	
" Finland	34	
" Ireland	14	
" Scotland	18	
" Hungary	8	
" Danemark	6	
" France	5	
" Belgium	4	
"Switzerland	4	
" Sweden	4	
"Jugo-Slovakia	4	
" Norway	2	
" Esthonia	1	
" Lithuania	1	
" Greece	1	
" Russia		
" United States	1	
"Haiti, Antilles	1	
	010	310
	310	310
Cases of deportation submitted but not de-		
cided: —		
	119	
Undesirable or public charges	14	
Insane		
	133	133
	100	
Cases of deportation discontinued	64	64
Persons escorted to the different railway sta-	990	
tions to be repatriated	220	
Persons escorted to the wharf	4	
Insane discharged from Bordeaux Asylum and	1	
repatriated to Toronto, Ont	1	
	225	225
	220	

Cases of repatriation refused after investigation	57	57
Special cases of repatriation under escort: —		
Family to Quebec	1 1 4 1 1 2 1	
	11	11
Insane repatriated under escort:		
Woman to Provincial Hospital, Fairville, N.B. Woman to Ontario Hospital, Brockville, Ont	1	
	2	2
Young children escorted to their families at Quebec		2
Persons transported to divers institutions using the Police Department cars: —		
Patients transferred from the Sacred Heart, Cartierville, to St-Jean-de-Dieu Patient transferred from the Bordeaux Hos-	14	
pital to the Sacred-Heart Patients taken to the Sacred-Heart (incur-	1	
ables) Insane patients taken to St-Jean-de-Dieu Patients transferred from the St. Luke's Hos- pital to the Refuge of Notre-Dame-de-la-	6 3	
Merci Patients taken to the St. Luke's Hospital Old men taken to the Refuge de la Merci	$2 \\ 16 \\ 7$	

Special investigations attended to during the year 1931: ---

At the request of Sub-Chief Bigaouette, of the City of Quebec, concerning the cases of young babies abandoned specially at the Crèche of Quebec, after investigation we have traced the person who had committed these offences on several occasions and all the particulars have been communicated to the Police authorities of Quebec.

At the request of the private Secretary of His Excellency the Governor-General of Canada, by the intervention of the Royal Mounted Police Commissary at Ottawa, we have investigated the case of an individual by the name of Benjamin Fineman, following the sending of several anonymous letters which were annoying His Excellency.

And also in the case of Mrs. Mary Gibbs, residing at No. 620 Bridge street, who had equally written several threatening letters to His Excellency, after several visits, this woman's husband was legally notified to watch his wife and to see to it that this state of affairs must cease. They are presently under observation.

Respectfully submitted,

ALBERT CHEVALIER,

Superintendent of the Municipal Assistance.



Division of Medical Control

DIVISION OF MEDICAL CONTROL

Doctor S. Boucher,

Director, Department of Health, City Hall.

Sir,

I beg to transmit the report of the work done by the DIVISION OF MEDICAL CONTROL in 1931, which is as follows: —

Municipal Employees

Sick referred for examination	2,143
Candidates applying for a position refer-	
red for examination	66
Special reports	94

2,303

The number of the sick referred for examination in 1931, exceeds by 495 the number of 1930. This difference is due to an epidemic of grippe of a mild character which affected a great number of municipal employees especially during March 1931.

The City of Montreal had undertaken in 1931, considerable works of excavation for the drainage of the Rivière St. Pierre, and a main collective sewer. On the request of the Department of Public Works, we have specially examined many employees who desired to work n cofferdam. This examination bore especially on blood oressure, the heart, the lungs and the kidneys, the incegrity of which had to be perfect. No wonder then, that about one third (1/3) of the candidates who suffered with a certain weakness or slight lesion of these organs were refused. Thanks to this precaution, no accident occurred amongst the workmen and engineers who did compressed air work.

Neglected Children under the Law of the Public Assistance

Referred for examination before	being sent
to industrial schools	
Referred after coming out of	industrial
schools	
	867

These children are placed at Laval-des-Rapides, Montfort and Huberdeau at the charge of the City.

Their examination takes place once a week before their departure and when they return.

The examination consists to ascertain that the child has been vaccinated with success against small-pox, that he does not suffer from any contagious disease such as: tuberculosis. Skin diseases: impetigo, tinea capitis. Parasitary diseases; pediculosis, scabies. Physical blemishes: defects of the sight or hearing, enlarged tonsils and adenoids. The departure of children suffering with contagious diseases is postponed until they are perfectly cured. The parents are requested to have surgical operations performed on children affected with adenoidal tumors, or enlarged tonsils which could prevent them from deriving the full benefit from their sejourn in the Country and retard their physical development. As may be expected, most of these children being born and raised in anti-hygienic conditions, suffer from malnutrition.

I believe that it would be opportune to demand the anti-diphteric vaccination with Ramon anatoxin of all the children before their departure.

Incurables

Referred for examination who were disposed of as follows: —

Suffering from incurable diseases	111
Suffering from tuberculosis	244
Suffering from cancerous diseases	70
Suffering from actue diseases for hospitals	
treatment	29
Suffering from chronic diseases for treat-	
ment in homes	86
Dead before examination	7
Application withdrawn	2
Refused to be hospitalized in the Sacred-	
Heart Hospital	0
Placed in Notre-Dame-de-la-Merci Home	37

Housing of Incurables Under the Law of Public Assistance

In this category of sick persons are classed: ----

A — Tuberculous.

B - Cancerous cases.

All these sick persons must pass an examination by one of the physicians of the Medical Control who after verification approves the diagnosis made by the family physician on the application form.

The persons suffering with the diseases classed A and B are sent to the Sacred-Heart Hospital at Cartierville, where the City controls a certain number of beds. The other invalid persons who do not demand special care are placed in one of the charitable institutions under the Law of the Public Assistance.

586

Food establishments

Number of certificates issued during the year 1931		21,745
Number of certificates refused:		
Pyorrhea	27	
Tuberculosis	12	
Cancer of nose	1	
Skin diseases	40	
Venereal diseases	48	128
Number of vaccinations during the year		
1931		5,000
Number of verifications during the year		
1931		4,622

Medical Examination of Food Handlers

About three (3) years ago, Dr. S. Boucher, Director of the Department of Health, gave to the Medical control the duty to see to the application of By-Law No. 926, in so far as it concerns the control of Health Certificates.

There are in the City of Montreal, about five thousand (5,000) food establishments, including: hotels, restaurants, dairies, bakeries, manufactures of biscuits, candies, preserves, jams, butchers shops and groceries stores, etc., etc.

These various establishments employ between twenty (20,000) and twenty-five thousand (25,000) persons of both sexes and of all ages. That is to say that there is a tremendous amount of work to be done in this department. All these employees having to pass every six (6) months a medical examination showing that they are free from contagious or infectious diseases and that they have been vaccinated within seven (7) years. This examination is made free of charge at the Medical Control for all those who choose to present themselves there. Vaccination is also done free of charge at the Contagious diseases Division. When, there are more than twenty (20) employees in one place, the examination and the vaccination are done there by our physicians. I must say that all the interested persons willingly submit themserves to this procedure, with the understanding that it it in the interest of all concern, and that it equally protects the employer, the employees and the public at large. Therefore we do not find any difficulty in enforcing this By-Law, and at each period of six (6) months, the interested persons, come of their own free will to be examined and have their certificates renewed.

The causes for which the Health Certificates are refused, by order of frequency are: venereal diseases, skin diseases, pyorrhea, tuberculosis, diseases of the face or the hands showing a repulsive appearance such as: eczema of the hands or of the face, cancer of the nose or any other part of the face, etc.

While going through the examination of the food handlers, one notices right away that a great number of them ignore completely the most elementary rules of hygiene, as far as cleanliness is concern. They neglect to wash their hands, clean their finger-nails and brush their teeth.

An education should be made along these lines, and cleanliness, the most important of all hygiene laws, should be taught to all. To keep clean is the best way to immunise one-self from the contagion of infectious diseases brought by germs. To be clean is also the best means to regulate the good action of all the organs.

A great number of people have, regarding cleanliness, queer ideas and prejudices; these for the greater physical welfare of all, should be destroyed by an intelligent hygienic education.

The mouth and more particularly the teeth should be looked after, much more carefully than they are generally. One cannot take too much care in the practices intended for the disinfection of the mouth; it is a hubby which deserves to be encouraged. The practices of physical cleanliness, doubtless, require some time, but it is a well spent time. One is immediately rewarded by the sensation of welfare, which proves the happy result that health derives therefrom, and the increase of energy that one thereby gains.

MEURLING MUNICIPAL REFUGE

Number of sick refugees during the year 1931 36,867

The medical examination of the Meurling refugees is taking, in this age of unemployment, an extraordinary importance amongst the numerous activities of the department of Medical Control.

A short while ago, the Meurling Refuge was taxed at its full capacity only during the winter months, but now there is never any vacancy at the Refuge whatever the season may be.

The dispensaries of the hospitals being more and more crowded every day, the conditions of life showing no improvement throw on the doctors of the Department of Health, who look after the Medical Bureau of the Refuge, the obligation to give the refugees over and above the careful examination of each one and the urgent treatments, the cares which formerly they could obtain in the clinics.

About one hundred and twenty-five (125) to one hundred and sixty (160) men out of seven hundred and eight (708) who every night line up at the door of the Municipal Assistance require a very special attention. Of course, each season brings along its own diseases, but now, together with these, the actual lack of food, the exposure in the open air through all kinds of weather, the scarcity of clothes and shoes, the drinking of counterfeited spirits, bring along with them, new diseases to be looked after by the physicians. Queer to say, the diseases proper to the old age have almost disappeared: formerly the old men were in greater number, to-day it seems that the City takes a greater care of its old citizens and see to place them in the numerous institutions intended for them. The few patriarches who still come regularly are those who recently arrived in the Metropolis are still waiting to be placed in some institution.

The assiduous refugees are mostly in the group of the thirty (30) to fifty (50) years of age; the average age is 44.5.

Classed by nationalities, none has the monopoly of any diseases: thirty-eight (38) countries have representatives here and it is easier to notice the least representated one than to enumerate all those present.

Amongst the least represented we see the Jews, the Chinese, the Indus, the Africans, the Bulgarians, the Japanese, etc. All are accepted without distinction, all are given the same welcome.

Here follows a few particulars regarding the state of health of our refugees, Accustomed as they are to all the inclemencies of the weather, they are but very little affected by atmospheric changes. The refugees are more fussy about their own health that the average people are; although, in some instances, the most elementary cares of hygiene are somewhat painful to them; quite often the officials of the Refuge are obliged to force them to take a second shower-bath, the first being very insufficient; they also neglect the care of their hair. They are always very pleased when doctors look after their least wounds with the same attention as they would for a dangerous disease.

Quite a few suffer from hernia and varicosis veins, and in most cases it is the result of long walks, or the efforts demanded by same hard work that they sometime perform as lumbermen and laborers; in some other cases, it is only the result of some accidents suffered in a street brawl. Some very grave digestive troubles ares caused by under nourrishment or improper food such as: constipation, dispepsia and even although more seldom, diabetes, etc.

The venereal diseases affect but very few, although we see a few suffering with general paralysis. To avoid any danger of possible contagion in such a crowd, skin diseases are immediately looked after very carefully. The refugees suffering with tuberculosis, are looked for and placed in institutions as soon as the complexed administration of our large city and the overcrowded institutions will Boils are seen very often, and are immediately allow. looked after.

The careful examination, the prompt treatment, the intelligent care given in all circumstances to the refugees have lessened the death rate so much that it may be ignored.

Also thus is avoided all danger of epidemic which could originate in such a crowd.

TABLE OF MUNICIPAL EMPLOYEES DEAD DURING **YEAR 1931**

Department of Public Works. 13

Illness Name Age Date P. Richard..... 31 17-2-31 Bilateral pneumonia. 30-3-31 Pulmonary tuberculosis. 6-5-31 Acute bronchitis. G. S. Patterson 41 A. O'Neil..... 52 30–6–31 Acute nephritis. 17-8-31 Hemiplegia. E. Pépin..... 60 19-8-31 Pleurisy. J. Dansereau..... 52 22-8-31 Cancer of prostate. P. Moore..... 51 1-10-31 Heart and kidney diseases. W. Brunet..... 47 3-10-31 Cancer of liver. A. Marchand. 84 28-10-31 Acute nephritis. 29-10-31 Angina pectoris. P. Turgeon 51 15-11-31 Gall stones. G. R. Vincent..... 60 22-11-31 Prostatectomy.

Department o	f Fina	nces	
Name	Age	Date	Illness
J. P. Lamontagne.	21	26-1-31	Pulmonary tuberculosis.
L. Selby	67	29-1-31	Cancer of left maxillary.
N. Couvrette	71	21-3-31	Angina pectoris.
J. A. Prud'homme	69	4-6-31	Cirrhosis of liver.
J. Desjardins	61	9-12-31	Heart and kidney diseases.
A. Leblanc	73	12 - 12 - 31	Congestion of liver with jaundice.
R. Tardy	19	22-12-31	Typhoid fever.
Department o	f Hea	lth	
Name	Age	Date	Illness
S. Boily	54	Jan. 31	Pulmonary tuberculosis.
P. St-Jean	74	18-4-31	Chronic myocarditis.
A. C. Théorêt	53	27-4-31	Chronic nephritis.
J. A. Lauzon, V. S.	46	7-5-31	Pulmonary tuberculosis.
Assessor's Offi	ce	• • • • • • • • • • • •	
Name	Age	Date	Illness
L. Bélanger	19	8-8-31	Operat. ulcerated appendix.
M. Gahan	58	10-6-31	Acute bronchitis.
City Clerk's C	office.		1
Name	Age	Date	Illness
A. Beauvais	52	9-8-31	Tubercular enteritis and peritonitis.
City Attorney	's Off	ice	1
Name	Age	Date	Illness
E. Fafard	66	12 - 12 - 31	Apoplexy.

Yours respectfully,

J. A. BRIEN, M.D.,

Superintendent of the Division of Medical Control.

Division of Laboratories

DIVISION OF LABORATORIES

Doctor S. Boucher,

Director of the Department of Health,

City Hall Annex.

Dear Sir,

I beg to submit to you the annual report of the Division of Laboratories for the year ending 31, 1931.

The number of analyses performed during the year was 39,338, of which 16,989 for the Division of Food Inspection, 1,007 for the Division of Sanitation, 4,682 for the Division of Contagious Diseases, 169 for the Divisions of Medical Control and Child Hygiene, 4,290 for the Police Department and 12,201 for the physicians of the City.

A slight increase over 1930 is shown, when routine examinations totalled 36,400.

Yours truly,

A. BOLDUC, M.D.,

Superintendent, Division of Laboratories.

ANNUAL REPORT, 1931

Division of Food Inspection:

Blood (Widal's Test) (*)	276
Bread	2
Cabbages	1
Carbonated beverages and spruce beers	
(bacteriological analysis)	402
Cheese	1
Chopped meats (research of adultera-	
tions)	68
Corn (canned)	2
Foie-gras paste	1
Ham (bacteriological and chemical ana-	
lysis)	4
Ketchup	1
Leaf lard	1
Meat: pathological examination	4
examination for tubercle bacilli	4
Milk : Bacteriological analysis	11,436
Complete analysis (specific gravi-	
ty, fat, dry extract, defatted ex-	
tract, water)	31
Summary analysis (specific gravity	
by "Quevenne" lacto-densimeter,	
butter fat by "Babcock" test)	
Acidity test	9
Examination for pus	10
Preservative test	575
Milk and cream brought by citizens (spe-	
cific gravity, butter fat)	275
Mustard	1
Phenolphtaleine (solutions of)	2
Pineapples (canned)	2
Sausages (research of adulterations)	92

Stools (agglutination test for Typhosus		
bacillus and Paratyphoid A & B ba-		
cilli) (*)	530	
Throat culture (diphtheria)	1	
Tomatoes (canned)	2	
Urines (agglutination test for Typhosus		
bacillus and Paratyphoid A & B ba-		
cilli) (*)	530	
Washing powders (dairies)	1	
Water: from the Montreal Aqueduct (bac-		
teriological analysis)	578	
From various sources (bacterio-	0.04	
logical analysis)	221	
From various sources (chemical	4	
analysis)	T	
	16,989	16,98
Division of Sanitation:		
Water from public swimming pools (bac-		
teriological and chemical analysis)	1,004	
Water from various sources (chemical		
analysis)	3	
	1,007	1,00
Division of Contagious Diseases:		
Blood (Widal's test)	1	
Diphtheria (examination after culture)	4 400	
Disinfectants (Standardization)		
Rabies	3	
	5	
(*) These tests are carried out for the		
detection of "germ carriers" among		
the employees of dairies and other		
food handlers.		

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Stools (agglutination test for Typhosus bacillus and Paratyphoid A & B ba- cilli)	97	
Urines (agglutination test for Typhosus bacillus and Paratyphoid A & B ba-		
cilli)	85	
	4,682	4,682
Division of Child Hygiene:		
Diphtheria (examination after culture)	1	
Drinking water (chemical analysis)	1	
	2	2
Division of Medical Control:		
Blood (Widal's test)	1	
Diphtheria (examination after culture)	2	
Pus (gonococcus)	75	
Sputum (tuberculosis)	4	
Urines (chemical and microscopic ana-	85	
lysis)	00	
	1.07	167
	167	101
Police Department:		
Ice cream (research of poisons)	1	
Narcotic drugs	144	
Pus (gonococcus)	4,142	
Sputum (tuberculosis)	3	
	4,290	4,290

Specimens analysed for Physicians: Ambard's Constant 5 1 1 Blood: Botelho's test (cancer) 3 Red and white blood cells count ... 13 1 Test for cholesterol Test for creatinine 1 115 Test for sugar..... 97 Test for urea..... 251Widal's test 2 Cerebro-spinal fluid 4 Conjunctival secretion (gonococcus). ... Diphtheria (examination after culture)... 109 2 Liquid soaps 23 Maternal milk 7 400 Sputum (tuberculosis) 1,049 Stools: (agglutination test for typhosus bacillus and Paratyphoid A & B bacilli).... 53 Bacteriological examination (tubercle bacillus, Ameba, worms, blood, etc.) 17 Urines: (agglutination test for typhosus bacillus and Paratyphoid A & B bacilli) 23 Bacteriological examination (gonococcus, tubercle bacillus, B. 105 Chemical and microscopic ana-9.871Urinary calculi (identification)..... 1 Vincent's angina `33 Wounds pus 14 12,201 12,201Total 39.338

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							Percentage	ıtage	
Diseases	Number of spe- cimens		Positive Negative	Suspi- cious	Unsatis- factory	Positive	Positive Negative	Suspi- cious	Unsatis- factory
Diphtheria	4602	510	4087	1	4	11.10	88.80	0.02	0.08
Rabies.	ũ	0	5	0	0	0.00	100.00	0.00	0.00
Tuberculosis.	1100	215	885	0	0	19.54	80.46	0.00	0.00
Typhoid: Clinic	503	36	465	1	1	7.15	92.45	0.20	0.20
Detection of "germ carriers" (1000 handlers)	1211	2*	1206	0	0	0.41	99.59	0.00	0.00
Gonorrhea: Clinic	421	126	294	00	10	29.94	69.82 85.34	0.00	0.24
Prostitutes †	4142	441	3701	00	00	10.65	89.35	0.00	0.00

* These five positive results are Widal's Tests in convalescents from typhoid fever.

† Women arrested in disorderly houses.

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ANNUAL REPORT, 1931

Bacteriological analysis of milk, cream, ice cream, water, etc.

Quantitative analysis (Standard plate count): Pasteurized milk (samples taken on delivery wagons) 2,032Special milk (samples taken on delivery 1,372 wagons) 4 24 Controls in pasteurizing plants and special 1,670 milk establishments Tests on washing of utensils 615 Water from various sources, eggs, oysters, 128 298 Water from the Montreal Aqueduct Water from public swimming pools 326 6.668 Carbonated beverages and spruce beers. 199

Qualitative analysis (Fermentation test for the detection of bacteria of the B.

6,668 6,668	coli group, in the above samples
13,336	Total

1931	
YEAR 1931	
ANALYSIS	
BACTERIOLOGICAL	

Pasteurized Milk -- Plate count

		Numeration			Percentage	
Number of samples	Not more than 100.000 bacteria per c.c.	More than 100.000 bacteria per c.c.	Samples void	Not more than 100.000 bacteria per c.c.	More than 100.000 bacteria per c.c.	Samples void
From January to May (incl.):						
876	854	19	3	97.5	2.2	0.3
From June to September (incl.):						
617	202	50	0	91.9	8.1	0.0
From October to December (incl.):						
539	520	14	5	96.5	2.6	0.9
For the year:						
2032	1941	8	×	95.5	4.1	0.4

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BACTERIOLOGICAL ANALYSIS - YEAR 1931-(Cont.)

			Samples void			0.3		0.0		0.6		0.3
			Absent	1 c.c.		85.4		48.1		6.77		72.1
	Percentage	Group		1 c.c.		14.3		51.9		21.5		27.6
	Ρ	B. Coli Group	Present	0.1 c.c.		4.7		31.3		6.7		13.2
dn				0.01 c.c.		1.6		16.5		2.7		6.4
B. coli group			Samples			33		0		33		9
- B.	fest		Absent	1 c.c.		748		297		420		1465
ed Milk	Fermentation Test	Group		1 c.c.		125		320		116		561
Pasteurized Milk	Ferm	B. Coli Group	Present	0.1		41		193		36		270
P				0.01 c.c.		14		102		15		131
		Number	of samples		From January to May (incl.):	876	From June to September (incl.):	617	From October to December (incl.):	539	For the year:	2032

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	Special Milk - Plate count	lk – Plate	e count			
		Numeration			Percentage	
Number of samples	Not more than 25.000 bacteria per c.c.	More than 25.000 bacteria per c.c.	Samples void	Not more than 25.000 bacteria per c.c.	More than 25.000 bacteria per c.c.	Samples void
From January to May (incl.):						
809	529	75	4	87.0	12.4	0.6
From June to September (incl.):	(*)	(4)		(*)	(‡)	
438	351	87	0	80.1	19.9	0.0
From October to December (incl.):						
326	279	45	5	85.6	13.8	0.6
For the year:						
1372	1159	207	9	84.5	15.1	0.4
(*) Not more than 50.000.	(†) More than 50.000.	50.000.				

BACTERIOLOGICAL ANALYSIS - YEAR 1931-(Cont.)

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Division of Statistics

DIVISION OF VITAL STATISTICS

Doctor S. Boucher,

Director, Department of Health, City Hall, Montreal.

Dear Doctor: ---

I have the honor of transmitting to you the report of the Division of Vital Statistics for year 1931.

I am glad to state at once that at a sanitary point of view, last year has been the best we ever had. The mortality rate has still decreased although it had been considered as relatively low the years previous. Our figures, however, continue to differ with those published by the Dominion and Provincial Bureaus of vital statistics, because we have not as yet been able to reach an agreement as to the reallocation of the deaths of non residents. In my previous reports, I have already said that we are counting only the deaths of the persons having their legal or ordinary residence in Montreal, whatever be the place where they died, while the Dominion and Provincial Bureaus are counting all deaths occurring in one municipality even if they have their ordinary domicile elsewhere. As the care given by the hospitals of Montreal is yearly more appreciated, an increasing number of patients, from all over the province and elsewhere, are admitted each year and many of them die. We believe that the inclusion of these deaths with those of our residents would not be showing the real statistical rates of death for the City of Montreal.

In making this statement we keep in mind the fact that the Dominion census, on which our estimate of the population is based, is taken on the "de jure", as distinguished from the "de facto" principle. The difference between these two kinds of census consists in that on the "de facto" principle every individual is counted as belonging to the locality where found on the census date, whereas, on the "de jure" principle, each person is counted as belonging to the locality in which he or she is regularly domiciled, irrespective of the locality of residence at the date of the enumeration. Temporary absentees from a locality are included, and temporary residents are excluded.

The great cities have always a big floating population which may vary to a more or less extent, and it is our our opinion that counting the population on the "de jure" principle is more liable to produce the real facts. But on the other hand, the population is the basis of natality and mortality rates, and if we are counting births and deaths at the place of their occurrence, that is to say from the "de facto" population, it seems illogical to compute the rates in taking as one factor the "de facto" and as the other the "de jure" population.

We hope that in the near future, the provinces and municipalities will come to an agreement in this matter and that a better concordance between the rates published will be obtained.

Population.

The Dominion Bureau of statistics has enumerated the population of Canada as existing on June 1st, 1931. According to a preliminary report published to date, Montreal has then a population of 810,925, constituting an increase of 31% since the 1921 census and a mean yearly increase of 3.1%. If we take this mean rate of 3.1% as a basis in calculating the increase for the next 10 years, we find that the yearly increase should be 25,139 per annum or a monthly average of 2,095. Adding this last number to 810,925, we obtain 813,020 as the population on July 1st, and 825,590 on December 31st.

The Federal census has been a confirmation of the exactness of the basis on which our estimation of the population since the last census has been calculated.

We had estimated that on July 1st, Montreal population would have been 812,500, but in the fear of being too optimistic, in a time where pessimism was more prevalent, we have thought it better to stay behind rather than ahead of our estimation, and we published in round figures 810,000 as the population on July 1st, 1931.

I do not want to enter into details on the ways of making our estimates. It will suffice to recall that they were based, for the one part, on the annual census made each year by the Parish Priests of the French-Canadian parishes; and, for the second part, on the assumption that the proportion of the French-Canadian population as established by the census of 1921 had not changed. Therefore, the 1931 census seems to prove two things: first that the proportion of the French population is quite stable, and secondly that the parochial censuses are very accurate. I am glad to be given this opportunity to praise the good work done by the Parish Priests and to thank the Diocesan authorities who have so kindly during the last five years, given me access to this valuable documentation .

We also believe that the Federal census has been accurately done and that errors, if there is any, are only those inherent to any human enterprise, and that it would be impossible to obtain a better result either by a municipal or by a provincial census.

This assertion is made while considering the fact that the assessors of the city of Toronto do an annual enumeration of the population; in 1931, the difference between the city and the Federal census was only 250, both censuses corroborating each other. On the other hand, between the last two Dominion censuses, the population of Toronto has only increased by 20% as compared to 31% for Montreal. Moreover, if the population of the neighboring municipalities is added to Montreal, the rate of increase is as high as 36.4% as shown in the following table:

<i></i>	Popula	ation		Rate of increase	
Cities	1931	1921	Increase		
Lachine	18,642	15,404	3,238	21.0%	
Montreal	810,925	618,506	192,419	31.1%	
Westmount	23,267	17,593	5,674	32.3%	
Outremont	27,784	13,249	14,533	109.7%	
Verdun	60,378	25,001	35,377	141.5%	
Total	940,994	689,753	251,241	36.4%	

Births.

Registration of births by all religious denominations other than Roman catholics is very defective. Baptism, in many protestant churches, is postponed indefinitely and as registration of birth is made at the time of baptism, late registration impairs the value of our birth statistics. In order to alleviate the inconvenience of late registration, we have counted, from the registrations made in 1931, not only the children born in that year, but also those born in 1930 and registered only during the following year. As regards registration in 1931 of children born before 1930, they are not counted in our birth statistics; we are making a separate computation for such births and in 1931 we counted in that list 1,039 protestants and 504 jews, making a total of 1,623 compared to 707 -- 681 and 1,388 respectively as obtained for the previous year. This shows a notable increase in late registrations for protestants and a decrease among the jews. We should not conclude, however, that the registration is more defective than in previous years, but rather that our campaign for birth registration has been effective and the law of birth registration, being better understood, a greater number of people has complied with it, although tardily.

Stillbirths.

The Physicians' Pocket Reference to the international list of causes of death published by the Dominion Bureau of statistics makes the following recommendations as regards stillbirths:

1. "Stillbirths should be registered as both births and deaths. They should be compiled, in statistical tables, neither as births nor deaths, but separately as stillbirths.

2. "In the case of stillborn children or of children living a very short period, the following two facts are of special importance for proper statistical classification:

- a) Period of gestation.
- b) Did the child breathe after complete birth.

These instructions to the physicians, from the Dominion Bureau of statistics, are given with the purpose of obtaining the information necessary to reach a uniform classification of births for all the provinces.

As a consequence of the study made by this office in 1930 on the question of stillbirths, a definition sponsored by the Health Committee of the League of Nations has been adopted in Canada, which may be outlined thus:

"A stillbirth is a child born after 28 weeks or $6\frac{1}{2}$ months of pregnancy and which has not breathed after complete expulsion. Consequently, a live birth is a child born after 28 weeks of gestation and which has breathed, even for a few moments only, after complete expulsion." "Foetuses born before the expiration of 28 weeks of gestation are considered non viable; they are not counted neither as births, nor as stillbirths, notwithstanding the fact that some of them may have breathed; they must be classified separately."

These definitions are very simple and should be a great help towards the uniform classification of births, provided that the statistician receives from the physician the necessary information regarding the foetal age of the new born, and the existence or absence of spontaneous respiration after complete expulsion.

According to our experience, this information is practically never given because, with the forms already in use, there is no specific question to that effect.

For all non viable premature births, for stillbirths and for live births when death occur within 24 hours and before any registration of the birth has been made, we suggest the use of a special form with specific question concerning breathing and duration of gestation which would permit a proper classification according to the answers given and hope that the provinces will finally adopt this idea.

In 1931 we have registered 753 stillbirths, an increase of 69 over 1930 and 159 over 1929. The rate per 1,000 births is 3.5.

Deaths.

The number of deaths among the residents of Montreal who died either in Montreal or elsewhere has been 9,886, which is a decrease of 370 from the previous year and 754 if comparison is made with 1929. This is a very satisfactory result if one considers that very few deaths escape our control, and that since 1921 the number of deaths has remained practically the same, while the population has increased by 31 per cent. The death rate per 1,000 population has also decreased from 15.74 in 1921 to 12.16 in 1931. The following table showing the number of deaths each month since 1926 and the average of the five years 1926-1930 gives a good idea of the progress made.

NUMBER OF DEATHS PER MONTHS FROM 1926 TO 1931

and comparison of 1931 with the five preceding years.

Month	1926	1927	1928	1929	1930	Mean 5 years	1931
January	768	865	886	1079	979	915.4	966
February	721	723	837	853	837	794.2	894
March	983	881	898	901	1001	932.8	927
April	1146	987	1010	961	1005	1021.8	859
May	887	1027	914	1001	895	944.8	801
June	681	901	791	759	771	780.6	694
July	691	773	772	819	706	752.2	832
August	803	848	981	865	856	870.6	820
September	783	770	899	823	831	821.2	785
October	720	730	800	862	772	776.8	767
November	713	730	777	781	762	752.6	729
December	764	756	1396	900	841	931.4	812
Total	9660	9991	10961	10604	10256	10294.4	9886
Monthly mean	805.0	832.6	913.4	883.7	854.7	957.9	823.8
Rate per 1,000	14.1	14.6	14.8	13.9	13.0	14.0	12.2

In the above table it can be seen that with the exception of January, February and July, the number of deaths in each month of 1931 has been lower than the average for the previous five years.

In the following table, a comparison for years 1929, 1930 and 1931 is made between the causes of death divided in groups according to the international classification, and the rate per 1,000 population is also given for each disease or group of diseases. From this table, one may see at a glance what part of the general death rate can be attributed to each cause.

DEATHS BY VARIOUS GROUPS OF DISEASES

		Years		Per 1,00	0 of popu	lation
Causes	1929	1930	1931	1929	1930	1931
-Epidemic diseases:					.	
Typhoid	27	40	31	0.04	0.05	0.04
Diphtheria	115	83	71	0.15	0.10	0.09
Influenza	204	131	164	0.27	0.17	0.20
Tuberculosis (pulmonary)	823	806	766	1.08	1.02	0.94
Other infectious diseases	566	501	395	0.74	0.63	0.49
Total	1735	1561	1430	2.28	1.97	1.76
II to V—General diseases:						-
Cancer	749	806	808	0.98	1.02	0.99
Other general diseases	290	334	356	0.39	0.42	0.44
Total	1039	1140	1164	1.37	1.44	1.43
VI—Diseases of the nervous system	988	840	629	1.30	1.06	0.77
VII—Diseases of the circulatory system	1394	1466	1554	1.83	1.86	1.91
VIII-Diseases of the respiratory system.	1077	1037	983	1.41	1.31	1.21
IX-Diseases of the digestive organs:			-			
Diarrhoea, 0 to 2 years	958	966	877	1.26	1.22	1.08
Other diseases of the digestive system	553	592	637	0.73	0.75	0.78
Total	1511	1558	1514	1.99	1.97	1.86
X-Diseases of the genito-urinary system	. 940	829	931	1.23	1.05	1.14
XI—Puerperal state	. 85	109	90	0.11	0.14	0.11
XII—Diseases of the skin	. 58	39	48	0.07	0.05	0.06
XIII—Diseases of the bones	. 6	3	9	0.01	0.004	0.01
XIV-Congenital malformation	. 110	131	136	0.14	0.17	0.17
XV-Diseases of early infancy:			_			
Debility, etc	. 434	368	298	0.57	0.47	0.37
Premature birth		452	424	0.60	0.57	0.52
Other diseases of early infancy	. 40	8	8	0.05	0.01	0.01
Total	. 931	828	730	1.22	1.05	0.90
XVI—Senility	. 83	77	76	0.11	0.10	0.09
XVII—External causes:						
Suicides	. 50	58	52	0.07	0.07	0.06
Homicides		24	29	0.01	0.03	0.03
Other violent deaths		407	416	0.57	0.51	0.52
Total	. 495	489	497	0.65	0.61	0.61
XVIII—Ill-defined causes	. 152	149	95	0.20	0.19	0.1
Grand total	. 10604	10256	9886	13.92	12.98	12.10
Grand total	10001	10200	0000			

We have also begun to make a comparative study of the general death rate between the greatest cities of the civilized world. This comparison, very interesting in Itself, must not be made without restrictions.

Let us first mention that the climate, the ethnical composition of the population, the social and economic conditions, may have a great influence on the rate of mortality. These factors vary from one city to another.

One must also take into consideration that the age may affect the rate of mortality. A study of deaths according to ages in Montreal (see table XIV of the appendix) shows that out of 100 deaths, 23 occur amongst children under 1 year of age; from 1 to 20 years, we have twelve, which is half the number occurring during the first year only; from 20 to 50 years, we have about the same number as during the first year, and 43 occur over 50 years of age.

It is also an obvious fact that a high birth rate is almost always coincident with a high infant mortality rate, because it is often impossible that the mother of many young children gives the nursling all the care he may require. Moreover, with our present social laws, no special advantage as regards salary is granted to the father of a numerous family; consequently, his living resources are limited and he has to economize on food, housing, fuel, and all the necessities of life. Often forced to dwell in too small premises, children of such family live in conditions eminently favourable to the spread of contagious diseases and tuberculosis. The consequence is a higher infantile mortality and also an increased proportion of deaths in other ages of childhood.

However, in a city where birth rate is high, the number of surviving children is as a rule proportionately greater than in another where the birth rate is low, and it follows that the mean age of the whole population is lower in the former than in the latter and when the population is older it is more affected by organic degeneration. As a matter of fact, cancer is seldom encountered under 40 years; chronic diseases of the heart, the blood vessels and the kidney play an important part in the mortality rate after 50. Therefore, a city with 20 per cent of its population over 50 years of age will show more deaths from organic degeneration than another with only 15 per cent of the population having that age.

The Dominion Bureau of census does not publish the population of cities divided into age groups, but does it for the provinces. This tabulation for the census of 1931 is not yet available, but a study of the three previous censuses gives a good idea of the differences which may presently exist in that respect between the provinces.

The following table shows for the Dominion and each of the provinces the per cent of the total population pertaining to age groups 0 to 20 years, 20 to 50 years and over 50 years.

Ages 0 to 20 years			20 to 50 years			Over 50 years			
Census year	1901	1911	1921	1901	1911	1921	1901	1911	1921
Canada	44.93	42.57	43.58	40.50	43.55	41.57	14.57	14.08	14.83
Prince Edward Island	47.21	43.99	42.33	35.11	35.79	35.97	17.68	20.22	21.70
Nova Scotia	44.65	43.97	43.83	37.78	38.23	38.17	17.57	17.80	18.00
New Brunswick	46.74	45.86	46.11	37.36	37.66	37.40	15.90	16.48	16.49
Quebec	49.05	48.57	48.54	37.34	37.90	37.95	13.61	13.53	13.5
Ontario.,	41.94	38.90	38.89	42.35	44.54	43.30	15.71	16.56	17.8
Manitoba	48.59	44.08	45.69	42.17	46.19	42.69	9.24	9.73	11.65
Saskatchewan	50.04	42.62	48.12	40.58	49.24	42.58	9.38	8.14	9.30
Alberta	48.60	40.95	44.62	43.14	50.54	44.93	8.26	8.51	10.4
British Columbia	33.08	30.36	35.71	56.27	59.26	49.17	10.65	10.38	15.13

From the table, one may find out that the provinces, which during the twenty years preceding the 1921 census have derived the benefit of a great influx of immigration, have a greater proportion of their population in the group 20 to 50, because as a rule, old people do not migrate, but rather young families and unmarried people in the prime of manhood. These conditions have existed in the prairie provinces where also can be found a high proportion of population in the group 0 to 20 years. If the trend of birth statistics is observed in those provinces, one will find a somewhat hight birth rate with a rather low infantile mortality. The high birth rate does not necessarily indicate a great number of children in each family, but may be the result of the fact that a larger proportion of the population is found in the procreative age. For the number of children in families, see Table 16, page 55, Volume III of the 1921 census. Moreover, the rural population predominates to a very large extent in those provinces and it is known that rural, compared to urban population, enjoys a higher birth rate and a relatively lower infantile mortality rate.

The low proportion of the population in the group over 50 years, hence lesser number of deaths due to degenerative causes, must also be taken into account while explaining the exceptionally low rate of general mortality in those provinces, which may be attributed to three factors: prevalence of rural population, low rate of infantile mortality and younger average population.

The following table published by the Dominion Bureau of vital statistics for year 1929 shows death and birth rates, the natural increase of population, the infantile mortality and the proportion of deaths from diarrhoea per 1,000 births.

Provinces	Mortality	Natality	Natural increase of popula- tion	Infantile mortality	Diarrhoea per 1,000 births
Canada	11.6	24.1	12.5	92.1	15.76
Prince Edward Island	13.0	19.4	6.4	89.8	10.78
Nova Scotia	12.1	19.4	7.3	89.8	10.85
New Brunswick	12.5	24.4	11.9	106.5	12.60
Quebec	13.8	30.3	16.5	120.5	29.76
Ontario.	11.7	20.9	9.2	76.0	9.51
Manitoba	8.8	21.5	12.7	70.6	6.11
Saskatchewan	7.7	24.4	16.7	73.3	6.11
Alberta	9.7	26.2	16:5	77.4	7.21
British Columbia	10.8	17.6	6.8	55.4	3.18

Other things being equal, it may be said that for a stated population normally balanced according to age, if the birth rate is high, one must expect that infant and general death rate will be relatively high and that the general death rate will decrease in proportion with the diminution of the two other factors. When, however, the birth rate has reached a low lever (under 20 per 1,000 population) one must expect that, after a certain number of years have elapsed, the lowering trend of the general mortality will not only be stopped, but on the contrary that it will grow up again, because the median age of the population being gradually increased the degenerative factors will exert a more marked influence.

This can only by corrected by a great influx of migrating population between the ages of 20 to 50 compensating the lowering of the natural increase.

The following table prepared from a report of the Health section of the League of Nations phblished November 15th, 1931, gives us for the principal cities of the civilized world, data upon the various points we have just discussed.

We have classified these cities according to the mean birth rate for the four years 1927-30 and have divided them into five groups.

- I. Cities where birth rate is very high (over 30 per 1,000 population).
- II. Cities where birth rate is high (between 25 to 30 per 1,000 population).
- III. Cities with a median birth rate (between 20 to 25 per 1,000 population).
- IV. Cities with low birth rate (between 15 to 20 per 1,000 population).
 - V. Cities with very low birth rate (under 15 per 1,000 population).

It can be seen that Montreal, notwithstanding a high birth rate, has the lowest general death rates of all the cities in her group and that the rate in Montreal does not exceeds the average of the next group.

As far as infantile mortality is concerned, it is seen that a third of infant deaths in Montreal is due to diarrhoea; this is a much too high proportion and all efforts must be made to reduce it by half. It is also remarkable that, when excepting the cities situated in a very warm climate, where enteritis is more liable to be encountered, we generally find a higher rate of infantile mortality in the cities in which the population is from latin or slavonic origin, than in those where anglo-saxon, german or scandinavian races predominate.

Comparative statistics for cities of more than 400,000 population.

Names of cities	Popula- tion in thousands	Death rate	Birth rate	Natural increase	Infant mortality	Diarrhoea rate per 1,000 births
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I - Birth rate Very High (over 30 per 1,000 population) 4 cities.

 Cairo (Egypte) Alexandria (Egypte) Yokohama (Japan) Nagoya (Japan) 	1161 630 620 907	29.60 26.35 19.17 18.85	45.77 44.15 31.90 31.42	16.17 17.80 12.73 12.57	222.2 204.7 135.7 151.0	163.9 114.0
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11 - Birth rate high (between 21 and 30 per 1,000 population) 7 cities.

 Santiago (Chili) Osaka (Japan) Montreal (Canada) Kobe (Japan) Madrid (Spain) Kioto (Japan) Dublin (Ireland) 	655 2454 790 788 834 765 412	$\begin{array}{c} 21.32 \\ 17.55 \\ 14.00 \\ 19.00 \\ 18.65 \\ 17.37 \\ 15.62 \end{array}$	$\begin{array}{c} 29.60 \\ 28.12 \\ 27.60 \\ 27.12 \\ 25.92 \\ 25.72 \\ 25.20 \end{array}$	8.28 10.57 13.60 8.12 7.27 8.35 9.58	$190.0 \\ 150.7 \\ 129.5 \\ 142.2 \\ 110.0 \\ 137.7 \\ 101.5$	74.1 43.1 37.4 35.6
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	1.0. 1.					
	Popula- tion	Death	Dist			Diarrhoea
Names of cities	in	rate	Birth rate	Natural	Infant	rate
	thousands	Tate	Tate	increase	mortality	per 1,000 births
III — Median birth	rate (bet	tween 20 15 citie		per 1,00	0 popula	tion)
12. Naples (Italy)	843	14.40	23.70	9.30	118.0	45.1
13. Barcelona (Spain)	783	19.12	23.50	4.38	86.0	36.9
14. Detroit (U. S. A.)	1574	10.62	23.12	12.50	70.2	
15. Tokio (Japan)	2070	13.50	23.05	9.55	109.2	30.1
16. Buenos-Ayres	2166	13.15	22.80	9.65	73.3	20.3
17. Leningrad (Russia)	2260	15.37	22.67	7.30	149.0	33.1
18. Lisbonne (Port.)	587	21.65	22.70	1.05		70.0
19. Rome (Italy)	946	11.40	22.70	11.30	81.0	29.5
20. Glasgow (Scotland)	1088	15.02	21.85	6.83	105.5	10.5
21. Liverpool (England)	862	13.80	21.82	8.02	92.0	16.6
22. Belfast (Ireland)	415	14.00	21.95	7.95	100.2	16.9
23. Rotterdam (Holland)	586	8.55	20.32	11.77	44.0	3.9
24. Rio de Janeiro	1730	14.40	20.17	5.77	161.0	95.5
 Buffalo (U. S. A.) New York (U. S. A.) 	580 7090	13.32 12.10	20.63	7.31 8.07	69.7 59.5	6.0
IV — Low birth rate (
27. Toronto (Canada)	691	10.82	19.67	8.85	120.0	
28. Warsaw (Pol.)	1132	13.55	19.07	5.52	130.0	31.2
29. Baltimore (U. S. A.)	807	14.22	18.91	4.69	75.5	9.3
30. Boston (U. S. A.)	782 3393	14.40	18.59 18.57	4.19 7.17	73.0 60.0	9.1
 Chicago (U. S. A.) Lodz (Pol.) 	606	11.40 13.35	18.20	4.85	178.2	
33. Sydney (Aust.)	1256	9.45	18.45	9.00	53.0	10.0
34. Amsterdam (Holl.)	756	9.10	18.00	8.90	40.0	2.8
35. Essen (Germany)	846	9.57	17.27	7.70	102.2	
36. Melbourne (Aust.)	1015	9.65	17.37	7.72	55.5	8.8
37. Cleveland (U. S. A.)	903	10.80	17.22	6.98	57.7	6.7
38. Birmingham (Eng.)	1011	11.80	17.75	5.95	69.5	17.1
39. Dortmond (Germany)	532	10.02	17.32	7.30	98.2	
40. Manchester (Eng.)	773	14.00	17.22	3.22	87.7	14.5
41. Edingburg (Seot.)	439	14.22	17.25	3.03	79.2	5.9
42. Budapest (Hung.)	1005	13.15	16.95	3.80	100.7	20.4
43. Copenhagen (Dan.)	616	11.55	15.92	4.37	67.0	3.5
44. Marseille (France)	803	16.45	16.03	*0.42	110.3	28.6
45. Sheffield (Eng.)	517	12.07	15.77	3.70	79.5	7.4
46. Cologne (Germany)	738	10.47	15.47	5.00	92.2	5.3
47. Genoa (Italy)	612	13.05	15.10	2.05	80.3	21.4
48. Paris (France)	2891	13.87	15.00	1.13	93.0	25.5
49. London (Eng.)	1 4377 1	12.50	1 15.98	3.47	64.0	10.4
V — Very low birth						
50. Milan (Italy)	960	12.97	14.65	1.68	98.0	33.4
51. Turin (Italy)	574	12.27	13.97	1.70	92.3	15.3
52. Breslau (Germany)	614	12.17	13.87	1.70	107.7	12.0
53. Lyon (France)	580	12.10	13.07	0.97	93.2	40.6
54. Leipsiek (Germany)	715	10.92	12.45	1.53	98.0 83.0	$13.2 \\ 5.6$
55. Munich (Germany)	730	11.50	12.42	0.92	83.0 76.0	7.3
56. Hambourg (Germany)	1138	10.80	12.40 11.95	1.60 1.83	74.7	14.7
57. Bruxella (B.)	858	10.12	11.95	0.02	94.2	10.7
58. Prague (C.)	840	11.80	10.47	*3.45	81.7	9.4
59. Vienne (Aut.)	1840	13.92 11.60	10.47	*0.85	51.5	0.7
60. Stockholm (S.)	502 4289	11.42	9.70	*1.72	80.7	8.5
61. Berlin (Germany)	1 1200	11.10				

*Decrease

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It is to be noted that 35 or 57% of the cities are classified with the low and very low birth rate cities of the last two groups. The birth rate in most european cities has been considerably lowered since the great war which is demonstrated by a retrospective study of their statistics.

Montreal is a city mostly populated by Canadians of French origin (62%) to which is added an important group of anglo-saxons (23%), and the remaining part is composed of 7% of Jews and 8% of other nationalities, the major part being of italian and slavonic origin. The birth rate (see Table II of the appendix) is high amongst French-Canadians, but is rather low for the other part of the population.

The French-Canadian general mortality (Table III) is also high, but it decreases rapidly with the lowering of birth and infantile mortality rates. Owing to the diversity of ethnical groups and the high birth in Montreal, comparisons with other Canadian and American cities are more or less accurate. At a statistical point of view, it would be interesting to have besides the total number of inhabitants distributed into age groups, the same information for each ethnical group. We hope that the Dominion census Bureau will be able to make this classification not only for Montreal, but also for the other important cities of the Dominion.

This would allow the calculation of specific rates between the cities, based on the number of deaths at different ages, and the number of people living at these ages.

Since this report has been written and the rates calculated for the following tables, we have received a final report of the census Bureau establishing the population of Montreal at 818,577, which is 7,652 more than the total published in the preliminary report.

The difference is only slight and would not alter the rates to any great extent. We have, therefore, decided not to make any change to our previous calculations and to wait until next year to make the necessary readjustment. This last report of the Census Bureau also gives the population of each municipal ward which is as follows:

Municipal Ward	Popula- tion	Federal Division
1. Ahuntsic-Bordeaux	19,490	Jacques-Cartier and Maisonneuve.
2. Bourget	23,774	St. Mary.
3. Cremazie	17,234	Cartier.
4. Delorimier	42,800	Hochelaga and St. Denis.
5. Hochelaga	22,009	Hochelaga and Maisonneuve.
6. Lafontaine	13,113	St. James.
7. Laurier	16,078	Laurier-Outremont.
8. Maisonneuve	29,713	Maisonneuve.
9. Mercier	20,397	Maisonneuve.
0. Montcalm	16,458	Hochelaga and St-Denis.
1. Mount Royal	11,898	Mount Royal.
2. Notre-Dame de Grâces.	46,850	Jacques Cartier and Mount Royal.
3. Papineau	15,770	St. Mary.
4. Préfontaine	19,898	Hochelaga and Maisonneuve.
5. Rosemount	44,534	Maisonneuve and St. Denis.
6. St. Andrew	23,670	St. Antony & St. Lawrence-St. Georges
7. St. Ann	16,860	St. Ann.
8. St. Cunegonde	18,617	St. Antony and St. Henry.
9. St. Denis.	24,774	St. Denis.
0. St. Edward	33,434	St. Denis.
1. St. Eusebe	20,671	Hochelaga and St. Mary.
2. St. Gabriel	19,873	St. Ann.
3. St. Georges	13,481	St. Lawrence-St. George.
4. St. Henry	29,824	Jacques Cartier and St. Henry.
25. St. James	22,004	St. James.
6. St. John	18,278	Laurier-Outremont.
7. St. Jean Baptiste	29,812	Cartier and Hochelaga and St. James.
8. St. Joseph.	10,855	St. Antony.
29. St. Lawrence	19,496	St. Lawrence-St. George.
0. St. Louis	17,966	Cartier and St. Lawrence-St. George.
1. St. Mary	15,135	Hochelaga and St. Mary.
2. St. Michael.	25,582	Laurier-Outremont.
3. St. Paul	27,840	Jacques Cartier and St. Ann.
4. Ville-Marie	10,039	St. James.
5. Villeray	60,350	Maisonneuve & Mt. Royal & St. Denis

DOMINION CENSUS - 1931.

Respectfully submitted,

EUGENE GAGNON, M.D.,

Superintendent, Division of Vital Statistics.

DIVISION OF STATISTICS.

TABLE I.

POPULATION (EVALUATED)

	Number	Proportion per 1,000
French-Canadians	504,100	62.00
British Canadians	185,400	22.80
Jews	56,900	7.00
Other nationalities	66,600	8.2
Total	813,000	100.00%

TABLE II.

BIRTHS.

(Still-born not included)

	S	ex	Total	Proportion per 1,000
	м	F		Population
French Canadians	 7,747	7,604	15,351	30.45%
British Canadians	 1,630	1,555	3,185	17.18%
Jews	 462	453	915	16.08%
Other nationalities	 667	581	1,248	18.74%
		·		·
Total	 10,506	10,193	20,699	25.46%

TABLE III.

DEATHS.

(Still-born not included.)

	S	exe	Total	Proportion
	М	F		per 1,000
French Canadians	3,458	3,380	6,838	13.56%
British Canadians	1,019	933	1,952	10.53%
Jews	186	186	372	6.54%
Other nationalities	413	254	667	10.01%
Unknown	30	27	57	0.07%
Total	5,106	4,780	9,886	12.16%

TABLE IV.

MARIAGES.

	Total	Proportion per 1,000
French Canadians	3,431	6.81%
British Canadians	1,653	8.92%
Jews	547	9.61%
Other nationalities	565	8.48%
Total	6,196	7.62%

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TABLE V.

BIRTHS AND MARRIAGES.

(By place of registration.)

Catholic churches:	Birt	he	Total	Marriages		
	M	F	Totas			
French Canadians	7,747	7,604	15,351	3,431		
Others	980	966	1,946	724		
Total	8,727	8,570	17,297	4,155		
Protestant churches:						
Anglicans	475	428	908	443		
Presbyterians	126	124	250	188		
United Churches	428	365	793	610		
Baptists	12	23	35	20		
Other protestants	99	73	172	150		
Total	1,140	1,018	2,158	1,420		
Other denominations:						
Synagogues	458	402	860	547		
Orthodox churches	89	63	152	. 74		
Births registered at the						
City Hall	92	140	232	2		
Total	639	605	1,244	621		
Grand total	10,506	10,193	20,699	6,196		

TABLE VI.

DEATH BY CIVIL STATUS.

	Number	Per cent
Married	3,320	33.58%
Single	1,493	15.11%
Widowers	613	6.21%
Widows	1,087	10.99%
Unknown	46	0.47%
Children under 15 years	3,327	33.64%
Total	9,886	· 100.00%

TABLE VII.

COMPARATIVE TABLE OF BIRTHS AND DEATHS.

	Births	Deaths	Excess of births over deaths	Natural increase per 1,000
French Canadians	15,351	6,838	8,513	16.89%
British Canadians	3,185	1,952	1,233	6.65%
Jews	915	372	543	9.54%
Other nationalities or unknown	1,248	724	524	7.87%
Total	20,699	9,886	10,813	13.30%

TABLE VIII.

DEATHS OF CHILDREN UNDER 1 YEAR.

	Births	Deaths from 0 to 1 year	Proportion per 1,000
French Canadians	15,351	1,863	121.4%
British Canadians	3,185	210	65.9%
Jews	915	39	42.6%
Other nationalities	1,248	186	149.0%
Unknown		47	
Total	20,699	2,345	113.3%

TABLE

DEATHS FROM 0

By different causes, by

	Jai	uar	y	Feb	ruar	y	М	arch		А	pril		May		
DISEASES	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
Measles	1 4 4 2 3	 3 1 1	1 7 5 2 4		2 8 1	$ \begin{array}{c} 2 \\ 14 \\ 2 \\ 5 \\ 2 \end{array} $	1 3 2 3 2	2 2 7 1 2	$2 \\ 3 \\ 10 \\ 2 \\ 4 \\ 4 \\ 4 \\ 1$			1 6 3	1 1 1 4 2	2 1 	$ \begin{array}{c} 2 \\ 1 \\ 3 \\ 2 \\ 4 \\ 2 \\ 3 \end{array} $
77) Meningitis Convulsions Other diseases of the nervous	4	1 3	5 3 1		2	4	1 3 1	1	1 4 2	2 2 2	2	2 2 4		1	5 1 1
system Diseases of the circulatory system Bronchitis Broncho-pneumonia	2 21	1 11	2 1 2 32	2 23	 20		1 13	0.000	0.000	1000		2 1 1 30	3		4 1 19
Pneumonia Other diseases of the respir- atory system Diseases of the stomach Diarrhoea	6 4 2 36	1	9 5 2 41	8 2 25	4 1 1 7	12 3 1 32	1	3 11	1	4 39	2 1 1 8	6 1 1 47	2 4 2 30	1 2 9	3 6 2 39
Other diseases of the digestive system Diseases of the genito-urinary system	1						2	2	4						1
Diseases of the skin, etc., (Nos. 151 to 156) Malformations Debility, congenital Premature birth Result of	13 13 41		13 13 41	7 12		8 13	12 13	10.00	15 14	13		13 10	9 8		1 9 8 41
confinement. Other diseases peculiar to early infancy External causes Ill-defined causes	18	· · · · · · · · · · · · · · · · · · ·	13	9		9	3	• • •	7 3	12	· · · · · · · · · · · · · · · · · · ·	12 6	12	1	1
Total	183	2 34	216	148	50	198	157	58	213	173	3 39	212	139	32	171

TO 1 YEAR, IN 1931

months and by groups of ages

Jun	e]]	July		A	ugus	t	Sept	emł	per	October N			November			December			Grand 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 .	0 to 6 mos.	6 to 12 mos.	Total	to	6 to 12 mos.	Total
1 1 2 1 1	2		1	2 1 1 2	1	1 1 	$ \begin{array}{c} 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \end{array} $	 1 3		 1 3 1			 1 3 4	 1 2 1 9 1	2	1 2 3 9 2	1 1 5	1 2 1 1 1 1	$ \begin{array}{c} 1 \\ 3 \\ 1 \\ 2 \\ 6 \\ 1 \end{array} $	11 19 13 40 20	7 8 25 8 2 7	7 19 44 21 42 27
1 2 	0	1 4 		1 5 	 1 	1	 2 	1 1	1	$2 \\ 1 \\ 1$	1 2		2 3	1 1 1	1 1 1	2 2 2	1 1 2		1 1 3	15 17 10	5 10 8	20 27 18
1	1 2		1	1				2		2 2				1		1	3		5	16 3	10 4	26 7
	2 5		1 3	1000	5 1		···· 7 2	 7 1	· · · · 2	 9 1	1 9 1	5		 8 1	6	14	17	9		9 135 34	2 106 22	$ \begin{array}{r} 11 \\ 241 \\ 56 \end{array} $
1	1 1 1 2 8 41			 111	 2 107		 3 162	2 83	1 , 37	$1 \\ 2 \\ 120$	1		1	 3 43	10000	3	1 38			11 14 607	9 4 210	20 18 817
			2	2	1		1	1		1										6		12
2 7 9 31	. 7	4 14 9		15 9	9 11		12	63	· · · · · · · ·	3 6 3	12	1	12 6	2		2 8 2 30	3	2 · · · ·	12	122 98	35	7 24 127 102 424
8				14									1			4			7			90 114
11 1 	. 1	1		1	2			1	1	16 2 2		2	2							15	4	19
116 1	4 130	177	37	214	187	64	251	173	45	218	153	5 30	185	125	37	162	141	32	173	1873	472	2345

IX

TABLE X

TOTAL OF DEATHS FROM 0 TO 1 YEAR, FROM

DIFFERENT CAUSES, IN 1930 AND 1931

		1930			1931	
Diseases		6 to 12 months	Total	0 to 6 months	6 to 12 months	Total
Measles	2	8	10		7	7
Whooping cough	30	27	57	11	8	19
Influenza	22	16	38	19	25	44
Tuberculosis	11	17	28	13	8 2 7	21
Syphilis	57	7	64	40	2	42
Other epidemic diseases Other general diseases (Nos. 45	30	10	40	20	1	27
to 77)	12	. 4	16	15	5	20
Meningitis	32	27	59	17	10	27
Convulsions Other diseases of the nervous	14	6	20	10	8	18
system Diseases of the circulatory sys-	20	12	32	16	10	26
tem	8		8	3	4	7
Bronchitis	6	5	11	9	2	11
Broncho-pneumonia	142	88	230	135	106	241
Pneumonia	55	26	81	34	22	56
system	21	6	27	11	9	20
Diseases of the stomach	5	3	8	14	4	18
Diarrhoea Other diseases of the digestive	633	244	877	607	210	817
system. Diseases of the genito-urinary	12	5	17	6	6	12
system. Diseases of the skin (Nos. 151	8	2	10	4	3	7
to 156)	16	3	19	21	3	24
Malformation (No. 157) Debility, icterus, etc. (Nos. 158)	113	9	122	122	5	127
to 161)	221	3	224	212	4	216
Premature birth (No. 159)	452		452	424	A.	424
Result of confinement (No. 160)	148		148	90		90
External causes	11	4	15	15		19
Ill-defined causes	6	1	7	5		5
Total	2087	599		1070		
	2001	533	2620	1873	472	2345

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TABLE XI

ILLEGITIMATE BIRTHS

Classified according to sex of child, mother's residence and age

	Tt.	36.0 224665.100×666183333958833395238	1065	
Total	ís.	80022222222222222222222222222222222222	505	100.0%
7	M	202	560	10
	Tt.	3300 3300	361	
Not specified	H	1	163	33.9%
sp	M	197	195	
ates	Tt.	· · · · · · · · · · · · · · · · · · ·		
United States	Ŀ	· · · · · · · · · · · · · · · · · · ·	00	0.3%
Unite	M			Ī
29	Tt.		1	
Other provinces	H			0.1%
bre	M		-	
9.9	Tt.	н. ю. н. ю ю н	11	1.0
Province of Ontario	Ł		- 5	1.0%
Pr of (M	H . H N H	9	Ī
9 8	Tt.	004014080100804 40000 -00 000	240	
Province or Quebec	F	-400/000/00/00/00/00/00/00/00/00/00/00/00	129	22.5%
Pr	M	400000000000000000000000000000000000000	111	
R I	Tt.	0122244444488448882510004400000000000000000000000000000000	449	
Montrea	H	0002420202011100 00000114 111111	205	42.2%
M	M	20000000000000000000000000000000000000	244	
Residence of mother	Age of mother	Under 15 years. 15 years 16 17 18 19 20 21 22 23 24 25 25 26 25 26 27 28 28 29 31 31 32 33 33 33 34 40 Vot r 40 years 26 27 28 28 29 20 20 20 21 20 20 21 20 20 20 20 20 20 20 20 20 20	Total.	Percent

DEATHS OF ILLEGITIMATE

By causes, ages

Place of death			èche liséric				Crè	che S	t. Pa	ul	I	Protes ant	t-
Causes .	0 to 3 mos.	3 mos. to 6 mos.	1	1	Total	3	to 6	1	12200000000	Total	3	to 6	6 mos. to 1 year
Whooping-cough													
Diphtheria													
Grippe	3	3	6	1	13			1	11	12			
Syphilis	17	2	2		21	1	2		7	10	1		
Tuberculosis (all forms)	1				1		6	1	4	11			
Meningitis						2	3	2	3	10			
Bronchitis _c	1				1								
Broncho-pneumonia	6	4	2		12						2		
Pneumonia	1	2	1		4								
Diarrhoea	93	40	15		148	29	10	3	5	47	1	3	
Malformation	8				8						2		2
Premature birth	13				13	1				1			
Congenital debility	1				1	16	4	1		21		1	
Other diseases of early infancy	12				12						1		
Infanticide													
Other causes	21	6	4	2	33			1	7	8			
Total	177	57	30	3	267	49	25	9	37	120	7	4	2
Per cent	66.3	21.4	11.2	1.1	100.0	40.8	20.8	7.5	30.9	100.0	53.9	30.8	15.3
Number of births Deaths at "Miser Proportion per 1,0												7	

XIa

CHILDREN IN 1931

and place of death

Institu- tions			oardi mater				Othe	er pla	ces			Gr	and to	otal	
Over Total 1 year	0 to 3 mos.	3 mos. to 6 mos.	to 1	Over 1	Total	0 to 3 mos.	3 mos. to 6 mos.	to 1	1	Total	0 to 3 mos.	3 mos. to 6 mos.	to 1	1	Total
										2	3				
1	2				2	1	1			2	22	5	2	7	36
		1			1		1			1	1	8	1	4	14
	1	1			2		1			1	3	5	2	3	13
											1				1
2	1	1	1		3	3			1	- 4	12	5	3	1	21
									1	1	1	2	1	1	5
6	33	4	4		41	15	8	3	1	27	171	65	27	6	269
2	1		1		2	1				1	12		1		13
···· .	3				3	15				15	32				32
1	5				5	3				3	25	5	1		31
1	11				11	12				12	36				36
						14				14	14				14
	5	4			9	1		1	3	5	27	10	6	12	55
13	62	11	6		79	65	13	3 4	6	88	360	110	51	46	567
100.0	78.5	13.9	7.6		100.0	73.9	14.8	4.0	6.8	100.0	63.5	19.4	9.0	8.1	100.0%

TABLE XII

BIRTHS, MARRIAGES AND DEATHS

From 1872 to 1931 inclusively

Years	Populations	Deaths	Proportion per 1000	Births	Proportion per 1000	Marriages	Proportion per 1000
Average from:							
79 4. 1802	124 505	4 131		6.057		1 327	
84 to 1888	180.951	5,589	30.88	7.653	42.29	1.826	10.09
1880 to 1893	219,802	5.527		9.292		2.143	
3 5	244.794	6.010		9.796		2,033	
t t	272,603	6.873		9,925		2,483	
2 9	339,158	7.782	(C) (*	12,481		3,503	
3 9	459.281	9,937		17,705		4,930	
3 5	533,501	11,103		20,373		5,128	
2 2	618,561	10.477		20,704		6,864	
20	690,300	9,983		21.124		6.287	
	762,000	10.604		20.415		7.332	
0	790,000	10.256		20,993		6,643	
031	813,000	9.886		20,699		6.196	

TABLE XIII

STILLBIRTHS, LEGITIMATE AND ILLEGITIMATE IN 1931

Causes of deaths, period of gestation and sex

	6 1	6 months	SU	7 1	months	S	8 1	months		At f	full term	E	Gra	Grand total	tal
Causes of morti-natality	M	F	Tt.	M	E	Tt.	M	E	Tt.	M	E	17.	M	F	Tt.
I — Foetal mortality during "gestation": Syphilis and other chronic diseases Toxaemia of pregnancy Malformation incompatible with life Other causes and causes not specified	9	990	12 33	162	12	10282	1 2 24	0110 4	10	4336	26 26 1	12 65 59	9 58 5 5	9 40 1	115 68 68
II — Mortality from premature birth: Maternal exertion (over-work)	1		I	1	:	1			-	61	1	03	4	1	-0
Abnormal placental insertion. Acute diseases and infections. Chronic infection (syphilis).	01410	161	3 10 6	00 X	00 KO 10-	6 14 15	6	-00 -	9	66 18	13 4	10 31 5	15 31 20	15 15 15	888-
III — Foetal mortality during "parturition":	18	13	31	21	52	43	16	• 00	24		63	01	55	45	100
Abnormal presentation and prolapsed cord Obstacles to parturition Other causes and causes not specified	· · · ·			0 4		e 49	101		-0-	$^{38}_{42}$	24 66 35	62 167 77	$^{41}_{43}$	25 71 36	66 79
Total	36	33	69	70	58	128	38	28	99	280	208	488	424	327	751

TABLE XIII a

PREMATURE, BORN UNDER SIX MONTHS GESTATION AND NOT INCLUDED IN STILLBIRTHS STATISTICS.

	Unc	ler 4	Under 4 months	ths	4 1	4 months	IS	51	months		0	Grand total	tota	
Causes of mortinatality	M	F	Un.	Tt.	М	F	Tt.	M	in,	Tt.	M	H	Un.	Ţ.
I — Foetal mortinatality during "gestation": Syphilis and other chronic diseases Toxaemia of pregnancy. Malformation incompatible with life. Other causes and causes not specified.			10.01	10 33			132	17 17	- 000	254	30 30	15	10 00	1-8441
II — Mortinatality from premature birth: Maternal exertion (overwork-). Traumatism causing premature birth. Abnormal placenta insertion. Acute diseases and infections. Chronic infection (syphilis)	0.181-40	· · · · · · · · · · · · · · · · · · ·	1 1 1	22 22 22 22	6 6 18 12	0 - Q	6 8 24 24	6 8 13 13 16	15 15 15 15	$\frac{15}{23}$	17 21 15 49	$^{13}_{17}$	1 12	25 24 07 13 73
III — Foetal mortinatality during "parturition": Abnormal presentation and prolapsed cord Obstacles to parturition		:::			:::				:::				::::	
Total	47	6	20	76	58	27	85	11	55	126	176	16	20	287

TABLE XIV

DEATHS BY AGES - YEAR 1931

	Percentage of total deaths	$\begin{array}{c} 4.67\% \\ 5.17\% \\ 9.111\% \\ 4.77\% \end{array}$	23.72%	3.35% 1.47% 1.10% 0.63%	30.27%	$\begin{array}{c} 2.20\%\\ 1.13\%\\ 6.21\%\\ 6.38\%\\ 6.38\%\\ 6.38\%\\ 6.38\%\\ 0.21\%\\ 0.21\%\\ 0.05\%\\ 0.05\%\\ \end{array}$	69.73%	100.00%
	letot busid	461 511 901 472	2345	331 145 109 62	2992	218 240 613 632 632 632 632 632 543 1062 1208 1208 1208 1208 532 592 592 592 592 592 592 592 592 592 59	6894	9886
x	Female	199 213 418 228	1058	154 154 50 33	1360	$\begin{array}{c} 105\\ 555\\ 332\\ 3326\\ 3326\\ 326\\ 616\\ 616\\ 616\\ 616\\ 616\\ 616\\ 616\\ 6$	3420	4780
Sex	blald	262 483 244	1287	11 12 28 28 28 28	1632	113 62 110 110 281 306 655 5955 5955 5955 5955 5955 5955 595	3474	5106
	Total	40 109 321 51	521	37	567			587
-	Спкпоча	3 16 1 1	44		45			45
tes	Other nationalities		9		9			9
Illegitimates	lews							
III	British-Canadiana	-06-	21	I	22			22
	French-Canadians	286 286 49	450	37 6 1	494			494
	Total	421 402 580 421	1824	294 137 108 62	2425	218 117 240 613 613 632 632 632 843 1062 1262 1208 1208 592 592 592 592	6894	9319
	nwondaU	1	3		3	500HH	10	13
S	Other nationalities	36 61 63 61	180	16 16 12	230	21 25 25 25 25 25 25 25 25 25 25 25 25 25	430	660
Legitimates	swol	10 8 16 5	39	00100	47	222 106 106 106 106 106 106 106 106 106 106	325	372
Le	British-Canadians	53 57 31	189	30 10 8 8 8	255	23 104 104 127 205 205 205 205 205 205 205 205 205 205	1675	1930
	Etench-Canadians	321 305 446 341	1413	245 101 89 42	1890	169 164 164 164 164 164 165 165 165 165 165 165 165 165 165 165	4454	6344
	AGES	Premature children From 0 to 1 month. From 1 month to 6 months. From 6 months to 1 year.	Total under 1 year	From 1 year to 2 years. From 2 years to 3 years. From 3 years to 4 years. From 4 years to 5 years.	Total under 5 years	From 5 years to 9 years. From 10 years to 14 years From 15 years to 19 years From 20 years to 19 years From 20 years to 40 years From 30 years to 60 years From 50 years to 60 years From 70 years to 70 years From 80 years to 90 years From 90 years to 100 years From 100 years and over.	Total over 5 years	Grand total

ш <u>–</u>		FOR 1931
BY AGES, NATIONALITIES		MONTHS,
8		AND
8	TABLE XV	NATIONALITIES
8		AGES,
		ВΥ

Nationalities:	Fre Can	French- Canadians	Bri	British- Canadians	Je	Jews	Other nationalities	ner alities	Unko	Unknown	Gran	Grand total
	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	70 70
Under 5 years	237 442	$\frac{34.90\%}{65.10\%}$	26 163	$\frac{12.76\%}{86.24\%}$	33 4	$\frac{10.81\%}{89.19\%}$	19	$\frac{32.20\%}{67.80\%}$	5	100.00%	288 678	29.81% 70.19%
Total	679	100.00%	189	100.00%	37	100.00%	59	100.00%	61	100.00%	996	100.00%
Under 5 years.	212 410	$\frac{34.08\%}{65.92\%}$	31 148	$\frac{17,32\%}{82.68\%}$	4 30	$\frac{11.76\%}{88.24\%}$	20 39	$\frac{33.90\%}{66.10\%}$			267 627	29.87% 70.13%
Total.	622	100.00%	179	100.00%	34	100.00%	59	100.00%			894	100.00%
Under 5 years	213 426	33.33% 66.67%	23 161	$\frac{12.50\%}{87.50\%}$	31	$\frac{3.12\%}{96.88\%}$	52	34.38% 65.62%	x	100.00%	267 660	28.80% 71.20%
Total	639	100.00%	184	100.00%	32	100.00%	64	100.00%	8	100.00%	927	100.00%
Under 5 years.	210 396	34.65% 65.35%	19 140	11.95% 88.05%	6 19	$\frac{24.00\%}{76.00\%}$	19 43	30.65% 69.35%	9	$\frac{85.71\%}{14.29\%}$	260 599	30.27% 69.73%
Total	606	100.00%	159	100.00%	25	100.00%	62	100.00%	2	100.00%	859	100.00%
Under 5 years.	190 362	$\frac{34.42\%}{65.58\%}$	18 144	$\frac{11.11\%}{88.89\%}$	4 30	$\frac{11.76\%}{88.24\%}$	17 36	$\frac{32.08\%}{67.92\%}$			229 572	28.59%
Total	552	100.00%	162	00.00%	34	100.00%	53	100.00%			801	100.00%
 Under 5 years	129 334	27.86% 72.14%	15 126	$\frac{10.64\%}{89.36\%}$	26	100.00%	13	$\frac{23.64\%}{76.36\%}$	6 03	33.33% 66.67%	160 534	23.05%
Total.	463	100.00%	141	200.001	26	100.00%	55	100.00%	6	100.00%	694	100.00%
 Under 5 years	206 356	36.65% 63.35%	31 141	$\frac{18.02\%}{81.98\%}$	1 25	$\frac{3.85\%}{96.15\%}$	25 43	$\frac{36.76\%}{63.24\%}$	1 3	$\frac{75.00\%}{25.00\%}$	266 566	31.97% 68.03%
Total	562	00.00%	172	100.00%	26	100.00%	68	100.00%	4	100.00%	832	100.00%

TABLE XV

DEATHS BY AGES, NATIONALITIES AND MONTHS, FOR 1931-(Continued)

			and the second se										
	Nationalities:	French- Canadian	French- Canadians	Brit Cana	British- Canadians	Je	Jews	Other nationalities	hities	Unk	Unknown	Grand	Grand total
		Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	2%
August:	Under 5 years	250 328	$\frac{43.25\%}{56.75\%}$	119	13.87% 86.13%	32	$\frac{15.79\%}{84.21\%}$	34	$\frac{44.26\%}{55.74\%}$	9	100.00%	308 512	$\frac{37.56\%}{62.44\%}$
	Total	578	100.00%	137	100.00%	38	100.00%	61	100.00%	9	100.00%	820	100.00%
September:	Under 5 years	220 336	39.57% 60.43%	117	$\frac{21.09\%}{78.91\%}$	22	$\frac{18.52\%}{81.48\%}$	18 26	$\frac{40.91\%}{59.09}$	10	100.00%	284 501	$\frac{36.18\%}{63.82\%}$
	Total	556	100.00%	148	100.00%	27	100.00%	44	100.00%	10	100.00%	785	100.00%
October:	Under 5 years	185 340	35.24% 64.76%	27 137	$\frac{16.56\%}{83.44\%}$	3 24	$\frac{11.11\%}{88.89\%}$	16 29	$\frac{35.56\%}{64.44\%}$	6	100.00%	237 530	$\frac{30.93\%}{69.07\%}$
	Total	525	100.00%	164	100.00%	27	100.00%	45	100.00%	9	100.00%	767	100.00%
November:	Under 5 years	162 354	$\frac{31.46\%}{68.60\%}$	16 122	$\frac{11.59\%}{88.41\%}$	27	20.59% 79.41%	18 21	$\frac{46.15\%}{53.85\%}$	1	$\frac{50.00\%}{50.00\%}$	204 525	$\frac{27.98\%}{72.02\%}$
	Total	516	100.00%	138	100.00%	34	100.00%	39	100.00%	5	100.00%	729	100.00%
December:	Under 5 years	170 370	$\frac{31.48\%}{68.52\%}$	$158 \\ 158$	$\frac{11.73\%}{88.27\%}$	6 26	$\frac{18.75\%}{81.25\%}$	32	$\frac{37.93\%}{62.07\%}$	33	$\frac{75.00\%}{25.00\%}$	222 590	$\begin{array}{c} 27.34\% \\ 72.66\% \end{array}$
	Total	540	100.00%	179	100.00%	32	100.00%	57	100.00%	4	100.00%	812	100.00%
Total:	Under 5 years	2384 4454	$\frac{34.86\%}{65.14\%}$	$\frac{277}{1675}$	$\frac{14.19\%}{85.81\%}$	47 325	$\frac{12.63\%}{87.37\%}$	236 430	$\frac{35.38\%}{64.62\%}$	48 10	$\frac{84.21\%}{15.79\%}$	2992 6894	$\frac{30.27\%}{69.73\%}$
Grand total	Grand total.	6838	100.00%	1952	100.00%	372	100.00%	666	100.00%	58	100.00%	9886	100.00%

		year	years	years		15 to	49 year	rs
WARDS	0 to 6 months	6 months to 1	1 year to 4 ye	5 years to 14 years	Married	Widowed	Single	Unknown
Abuntsic-Bordeaux	13	7	6	8	28	1	15	
Bourget	61	22	20	9	44	4	27	
Crémagie	25	8	3	9	24		1 1 2 2 2 2	
Crémazie Delorimier	0.000	10000	103/201			3	21	
Hochelaga	82	12	26	21	67	3	60	
Lefonteine	52	31	25	15	36	2	34	
Lafontaine	11	3	6	2	14		15	
Laurier	15	4	5	3	22	2	18	
Maisonneuve	59	12	28	10	45	2	27	
Mercier	48	11	18	6	29		19	
Montcalm	40	16	20	5	16		15	
Mount Royal	14	1	6	2	12		7	
Notre-Dame de Grâces	42	2	7	4	55	1	34	
Papineau.	32	18	12	6	21	3	30	
Préfontaine	47	15	24	17	26	3	18	
Rosemount	104	23	50	29	82	1	36	
St. Andrew	17	1	5	6	23	3	24	1
St. Ann	30	8	10	2	28	2	14	1
Ste. Cunégonde	42	13	19	4	23	2	29	
St. Denis	45	12	14	13	39	4	30	
St. Edward	58	23	36	18	62	3	39	
St. Eusèbe	37	17	26	13	37	4	19	
St. Gabriel	36	16	18	11	33	4	22	
St. George	13	1	3	3	19	2	26	2
St. Henry	75	21	41	15	34	3	41	
St. James	52	17	13	9	40	9	57	
St. John	51	22	25	21	37	4	24	
St. Jean Baptiste	67	12	11	5	44	2	30	
St. Joseph	14	9	13	1	20		26	2
St. Lawrence	21	7	4	4	38	4	28	2
St. Louis	32	3	7	8	42	2	28	ĩ
St. Mary	47	17	25	3	21	2	13	
St. Michael.	17	3	4	3	27	1	20	
St. Paul.	69	15	23	16	44	2	21	
Ville Marie	9	8	4	4	12	2	13	
Villeray	111	19	48	39	84	1	10 55	1
Unknown	70	3	1		6	3		9
Institutions	315	40	41	*****	5		13	
				*****	0	3	33	1
Total	1873	472	647	335	1239	87	981	20

DEATHS BY CIVIL STATUS

XVI

AND BY WARDS, IN 1931

	50 to 69) years		70) years	and ove	r		Tot	tal		
Married	Widowed	Single	Unknown	Married	Widowed	Single	Unknown	Married	Widowed	Single	Unknown	Grand total
29	8	1		16	17			73	26	50		149
42	11	1	10000000	21	43	2		107	58	142		307
21	8	3		5	13	3		50	24	63		137
88	26	12		25	55	4		180	84	217		481
47	16	2		25	21	1		108	39	160		307
23	7	3		9	20	2		46	27	42		115
56	19	3		10	15	2		88	36	50		174
54	20	1		18	36	6		117	58	143		318
25	5	2		12	15	1		66	20	105		191
30	7	1		10	15	2		56	22	99		177
20	10	4	1	6	10	4		38	20	38	1	97
58	24	11		33	51	5	2	146	76	105	2	329
28	19	8		13	24	2		62	46	108		216
30	11	3	1	7	17	1		63	31	125	1	220
62	18	4	1.1	22	26	3		166	45	249		460
46	18	12		20	32	13		89	53	78	1	221
29	13	14	2	16	13	4		73	28	82	3	186
31	14	10		17	36	1		71	52	118		241
38	13	2	1000	15	37	4		92	54	120		266
56	18	9	1	26	50	2	1	144	71	185	2	402
26	9	3		12	20	-	-	75	33	115		223
40	10	9		20	16	5		93	30	117		240
32	5	23	2	7	12	7	1	58	19	76 -	5	158
48	14	6		21	48	3		103	65	202		370
40	20	20		20	43	7		100	72	165		337
40	21	4		13	24	2		92	49	149		290
61	23	14	1	28	47	7		133	72	146	1	352
31	12	6	-	13	18	4	1	64	30	73	3	170
30	21	14	1	7	9	1		75	34	79	3	191
57	31	17	2	22	42	7		121	75	102	3	301
26	11	3		8	16	4		55	29	112		196
42	21	15		17	21	2		86	43	64		193
37	1. 00.000	2		11	27	2		92	45	148		. 285
24	16 5	6		3	14	6		39	21	50		110
100	22	5		45	47	4		229	70	281	1	581
5	4	7	6		3	2	1	11	10	96	16	133
22	19	51	1	32	111	86	2	59	133	566	4	762
1476	549	301	18	605	1064	211	8	3320	1700	4820	46	9886

DEATHS OF CHILDREN UNDER FIVE YEARS,

BY SEXES AND BY

			1	DEATHS			
WARDS	Grand	0 to 1	year	Total from	Per- centage	1 to 5	years
	total	м	F	0 to 1 year	of total deaths	м	F
Ahuntsic-Bordeaux	149	13	7	20	13.4	4	2
Bourget	307	38	45	83	27.0	9	11
Crémazie	137	15	18	33	24.1	2	1
Delorimier	481	54	40	94	19.5	13	13
Hochelaga	307	48	35	83	27.1	15	10
Lafontaine	115	10	4	14	12.2	2	4
Laurier	174	10	9	19	10.9	2	3
Maisonneuve	318	37	34	71	22.3	16	12
Mercier	191	30	29	59	30.9	6	12
Montcalm	177	38	18	56	31.6	8	12
Mount Royal	97	11	4	15	15.5	2	4
Notre-Dame de Grâces	329	24	20	44	13.4	5	2
Papineau.	216	32	18	50	23.2	9	3
Préfontaine	220	28	34	62	28.2	14	10
Rosemount	460	68	59	127	27.6	26	24
St. Andrew	221	12	6	18	8.1	5	
St. Ann.	186	19	19	38	20.4	8	2
Ste. Cunégonde	241	31	24	55	22.8	6	13
St. Denis	266	34	23	57	22.8	8	10 6
St. Edward	402	46	35	81	20.2	18	18
St. Eusèbe	223	29	25	54		201	
St. Gabriel.	240	29	23	1.25	24.2	14	12
St. George	158			52	21.6	9	9
St. Henry	370	10	4	14	8.9	2	1
St. James	337	52	44	96	25.9	21	20
St. John	290	35	34	69	20.5	5	8
St. Jean Baptiste	352	47	26	73	25.1	14	11
St. Joseph	1000	42	37	79	22.4	2	9
St. Lawrence	170	16	7	23	13.5	7	6
St. Louis	191	11	17	28	14.7	2	2
St. Mary	301	18	17	35	11.6	3	4
St. Michael.		38	26	64	32.7	17	8
St. Paul		13	7	20	10.4	4	
Ville Marie		49	35	84	29.5	12	11
Villeray	110	10	7	17	15.5	2	2
Unknown	581	68	62	130	22.4	35	. 13
Institutions	133	43	29	72	54.1	1	
	762	179	177	356	46.5	17	24
Total	9886	1287	1058	2345	23.79	345	302

XVII

COMPARED TO THE TOTAL OF DEATHS

WARDS, IN 1931

	1 1				1 1]			
Total	Per-	0 to 3	5 years	Total	Per-	Over a	5 years		Per-
from 1 to 5	centage			from	centage			Total	centag
	of total		-	0 to 5	of total	1		over	of tota
years	deaths	M	F	years	deaths	M	F	5 years	deaths
6	4.0	17	9	26	17.4	63	60	123	82.6
20	6.5	47	56	103	33.5	98	106	204	66.4
3	2.2	17	19	36	26.3	57	44	101	73.1
26	5.4	67	53	120	24.9	159	202	361	75.
25	8.1	63	45	108	35.2	104	95	199	64.8
6	5.2	12	8	20	17.4	44	51	95	82.6
5	2.9	12	12	24	13.8	70	80	150	86.1
28	8.8	53	46	99	31.1	109	110	219	68.9
18	9.4	36	41	77	40.3	54	60	114	59.7
20	11.3	46	30	76	42.9	55	46	101	57.1
6	6.2	13	8	21	21.6	35	41	76	78.4
7	2.1	29	22	51	15.5	140	138	278	84.5
12	5.6	41	21	62	28.7	75	79	154	71.3
24	10.9	42	44	86	39.1	69	65	134	60.9
50	10.9	94	83	177	38.5	130	153	283	61.5
5	2.3	17	6	23	10.4	90	108	198	89.5
10	5.4	27	21	48	25.8	88	50	138	74.2
19	8.0	37	37	74	30.8	78	89	167	69.2
14	5.3	42	29	71	26.7	89	106	195	73.3
36	8.9	64	53	117	29.1	138	147	285	70.9
26	11.7	43	37	80	35.9	81	62	143	64.1
18	7.5	38	32	70	29.2	92	78	170	70.8
3	1.9	12	5	17	10.7	86	55	141	89.3
41	11.0	73	64	137	37.0	119	114	233	62.9
13	3.9	40	42	82	24.4	113	142	255	75.6
25	8.6	61	37	98	33.8	91	101	192	66.2
11	3.1	44	46	90	25.6	112	150	262	74.4
13	7.6	23	13	36	21.1	87	47	134	78.8
4	2.1	13	19	32	16.8	105	54	159	83.2
7	2.3	21	21	42	13.9	140	119	259	86.0
25	12.8	55	34	89	45.4	61	46	107	54.6
4	2.1	17	7	24	12.4	86	83	169	87.6
23	8.0	61	46	107	37.5	93	85	178	62.5
4	3.7	12	9	21	19.1	53	36	89	80.9
48	8.3	103	75	178	30.7	207	196	403	69.3
1	0.7	44	29	73	54.9	50	10	60	45.1
41	5.4	196	201	397	51.8	153	212	365	48.2
647	6.5	1632	1350	2992	30.2	3474	3420	6894	69.1

DEATHS

WARDS	Typhoid fever	Measles	Scarlet fever	Whooping cough	Diphtheria	Influenza	Tuberculosis, pulmonary	Tuberculosis, other forms	Other contagious diseases	Cancer
	1	1		1	1	1	1	1		1
Ahuntsic-Bordeaux	1				1	1	12	6	1	13
Bourget	1				3	8	31	1	6	27
Crémazie	1			1	1	1	13	1	2	10
Delorimier	2	4	1			10	37	6	7	48
Hochelaga	2				1	6	30	7	10	16
Lafontaine			1			1	8	2	2	10
Laurier	1						16	1	1	25
Maisonneuve	1	2					26	3	8	24
Mercier	2				3	5	12	4	6	10
Montcalm	11000	1		1		3	15	1	3	6
Mount Royal	2						5			10
Notre-Dame de Grâces					1	1	19	2	4	31
Papineau		1		2	1	3	15	1		16
Préfontaine	1		1	4	3	6	9	2	12	13
Rosemount	2		3	1	4	10	45	8	11	31
St. Andrew			1			2	18	1	2	26
St. Ann.		1	1		1	1	7		1	19
Ste. Cunégonde	1	1		4	3	4	23	1	2	21
		1.	1	2	3	4	19	2		21
St. Edward		3	2		10	6	30	7	7	24
St. Eusèbe	1	2	1	1	4	3	23	3	6	14
St. Gabriel	2			3		1	20	4	3	18
St. George			2		1		15	3	4	23
St. Henry		1	1	1	2	8	28	6	3	24
st. James	1	1	1	1		3	44	4	7	32
st. John		5		1	10	9	20	7	2	22
t. Jean Baptiste				1	2	11	25	2	4	41
t. Joseph	2	2		2			14	1	1	12
t. Lawrence	1	1				4	25	3	6	14
t. Louis	2	1		1		1	22	1	4	38
t. Mary		1	1		2	5	12	5	4	15
t. Michael					1	4	7	1	11	23
t. Paul	2		1	2		3	20	66	3	25
ille Marie	1			1			12		1	9
illeray	3	3	2		13	6	40	12	12	50
nknown							- 1		2	4
nstitutions	2					29	43	7	47	43
Total	34	30	20	29	71	164	766	121	195	808

DEATHS BY CERTAIN

XVIII

DISEASES, BY WARDS, IN 1931

	ge	s and tis					ncy	Death	s by vie	olence	965	
Diabetis	Cerebral hemorrhage	Endocarditis and myocarditis	Pneumonia	Enteritis	Nephritis	Puerperal state	Diseases of early infancy	Suicide	Homicide	Others	Other diseases	Total
D	ů	En	Pu	E	Ň	Pu	Di	Su	He	õ	õ	T
	-				1							
2	5	24	6	10	15	1	5			5	41	149
5	8	26	6	37	25	3	26			13	81	307
1	2	15	4	11	10		9	4	1	4	46	137
8	5	51	18	35	52	3	51	2	1	17	122	481
5	6	31	6	33	28		26			14	86	307
3	6	10	2	6	19	2	-4			3	36	115
1	6	24	5	13	17		6	1		8	49	174
5	9	35	8	26	37	1	23	1		9	95	318
6	4	15	4	23	12	. 3	23			10	49	191
3		15	9	25	10	1	23			12	49	177
2	3	10	6	3	5		7	1	1	9	33	97
13	13	43	17	6	30	3	25	4	1	11	105	329
1	2	28	5	32	22	2	10			14	61	216
3	3	25	5	30	12	6	25	1		13	46	220
6	6	36	18	44	23	6	44		1	21	139	460
5	11	29	10	5	17	2	7	4		15	66	221
1	5	24	13	17	9	2	8	1	1	10	64	186
4	4	24	6	15	27	4	18	2	1	12	64	241
1	4	33	9	19	28	5	25	2		14	74	266
6	7	33	10	35	45	6	23	1		16	131	402
2	4	21	6	21	21	1	16		1	5	67	223
1	5	28	8	22	22	2	15	1		12	73	240
4	7	15	6	4	. 6		5	7		10	46	158
8	10	18	17	50	33	4	35	1		17	103	370
7	9	33	6	27	28	3	27	1	3	19	80	337
5	8	30	7	27	12	8	19			12	86	290
5	7	43	8	26	35	4	23			6	109 50	352 170
3	5	20	11	8	19	1	9	4		6		
	2	20	10	12	11	1	3	1	· · · · · ·	10	67 85	191 301
6	6	49	11	14	18	3	12	3	2	22	N 1222/11	196
2	6	13	9	30	7	1	20			7	56 67	190
5	9	27	8	8	12		8	4		8 8	90	285
3	3	21	17	20	21	4	34	1	1			110
	1	15	3	13	9	1		2		5	37	581
11	7	58	18	30	49	6	51	2	1	23	184 32	133
	2	5	1	33	7		15	1	14	12	161	762
10	7	93	15	204	46	1	50			4	101	102
153	207	1040	328	974	799	90	730	52	29	416	2830	9886

.

TABLE XIX

DEATHS BY AGES, QUARTERS OR SEASONS, IN 1931

	Total for year	946	928	471	331	145	109	62	9009	6894	9886
	Total 4th quarter	216	206	98	62	36	29	16	663	1645	2308
urter mn)	Decemper	73	68	32	22	15	00	4	000	590	812
4th quarter (Autumn)	November	61	64	37	20	30	6	10	204	525	729
	October	82	74	29	20	13	12	1.	937	530	767
	Total Std quarter	226	311	146	78	38	33	26	858	1579	2437
arter ner)	September	78	95	45	24	13	18	11	284	501	785
3rd quarter (Summer)	Jaugu A	74	113	64	26	10	10	11	308	512	820
	July	74	103	37	28	15	10	4	266	566	832
	Total 2nd quarter	251	177	85	11	30	53	1.	649	1705	2354
arter ng)	anul	63	53	14	14	6	9	1	160	534	694
2nd quarter (Spring)	YaM	80	59	32	33	13	10	04	229	572	801
	ling A.	108	65	39	30	8	9	4	260	599	859
	Total lst quarter	253	234	142	114	41	25	13	822	1965	2787
arter ter)	Матер	86	11	38	33	10	10	4	267	660	927
1st quarter (Winter)	Еергияту	73	7.5	30	45	10	00	9	267	627	894
	January	94	88	34	36	21	12	00	288	678	996
	AGES	From 0 to 1 month	From 1 month to 6 months	From 6 months to 1 year	From 1 year to 2 years	From 2 years to 3 years	From 3 years to 4 years	From 4 years to 5 years	Total under 5 years	Over 5 years.	Grand total

TABLE XX

DEATHS FROM CONTAGIOUS AND PARASITIC DISEASES, BY MONTHS, YEAR 1931

Total	34 33 30 30 30 30 29 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2311
Decemper	4 74741 8 4915 202	163
Хотетрег	$\begin{array}{c} 4 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 7 \\ 6 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$	155
October	20 11 23 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	184
September	6 11 32 32 32 61 61 141 33 32 32 32 32 32 32 33 33 33 33 33 33	265
tsuguA	$\begin{smallmatrix} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & $	279
July	5 1 1 1 1 3 3 1 1 3 3 1 1 1 1 1 1 1 1 1	236
June	466 466 466 466 466 466 466 466 466 466	131
Мау	2 2 3 1 1 69 69 69 69 69	156
lingA	60 60 60 60 60 60 60 60 60 60 60 60 60 6	171
Матећ	10 c1 4 co 4 8 0 10 8 0 10 8 0 10 8 0 10 8 0 10 8 0 10 8 0 10 8 0 10 10 10 10 10 10 10 10 10 10 10 10 1	184
February	4 20 20 1 20 2 20 1 20 2 2 2 2 2 2 2 2 2	205
January	26 26 26 26 26 26 26 26 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27 26 27 27 26 27 27 26 27 27 27 26 27 27 26 27 27 27 27 27 27 27 27 27 27	182
	Typhoid fever Small-pox. Measles Scarlet fever Diplitheria Whooping cough. Weingitis C. S. Frysipelas. Numps Varicella Cerman measles Tuberculosis of the lungs Tuberculosis, other forms. Enteritis	Total

TABLE XXI

DEATHS FROM CERTAIN DISEASES

Average number and proportion per 100,000 population for each period of 5 years, from 1876 to 1931

							Tuber	culosis			
Periods of years	(*)	Typhoid	Smallpox	Whooping cough	Scarlet fever	Diphtheria	Pulmo- nary	Other forms	Cancer	Diarrhoea	Bright's disease
1876-1880	No	81	510	30	35	173	417		46	492	
1870-1880	Rate	59.7	376.1	22.1	25.8	127.6	307.5		33.3	362.8	
001 1005	No	95	634	42	38	214	434		58	523	
881-1885	Rate	61.9	413.1	27.4	24.7	139.4	282.7		40.7	340.7	
000 1000	No	82	15	59	15	304	513		84	699	
886-1890	Rate	41.0	7.5	29.5	7.5	151.9	256.3		42.4	349.3	
891-1895	No	50		40	155	114	547		106	806	
891-1895	Rate	21.8		17.4	67.6	49.7	238.5		46.2	351.4	
896-1900	No	68	5	47	62	182	680		163	663	
890-1900	Rate	26.6	1.9	18.4	24.3	71.3	266.3		63.5	359.6	
901-1905	No	91	3	68	70	89	616	168	181	1070	12
901-1905	Rate	31.7	1.0	23.7	24.4	31.0	214.7	57.0	63.1	373.0	42.
906-1910	No	156		85	67	114	683	186	247	1822	23
1900-1910	Rate	40.0		21.8	17.2	29.3	175.3	47.7	63.4	467.6	59.
1911-1915	No	108	1	66	90	157	969	183	341	2249	40
1011-1010	Rate	21.9	0.2	13.4	18.2	31.8	176.2	37.1	69.1	455.9	81.
1916-1920	No	89	1	63	69	174	929	194	422	1844	
1910-1920	Rate	16.1	0.2	11.4	12.5	31.5	168.4	35.2	76.5	334.3	92.
1921-1925	No	55		45	78	134	785	165	532	1382	61
1021-1020	Rate	8.5		6.9	12.1	20.8	122.0	25.6	82.6	214.7	95.
1926-1930	No	139		37	46	143	798	157	681	1028	72
1020-1000	Rate	18.9		5.1	6.3	19.4	108.4	21.3	92.5	139.7	98.
1930	No	41		21	41	83	806		806	1065	
1000	Rate	5.2		2.7	5.2	10.5	102.0		102.0	134.8	
1931	No	32		30	20	71	766		852	974	73
	Rate	3.9		3.7	2.5	8.7	94,2		104.8		

(*) In this column, "No" indicates the average number and "Rate" the proportion per 100,000 of population for each of the diseases.

DEALINS FROM CERTAIN DISEASES	VI CERIAIN L		BT NATIONALITIES, IN 1931	1661 NI 1991	
Population	504,100-62%	185,400-22.8%	56,900-7%	66,600-8.2%	813,000
Causes of death	French- Canadians	English- Canadians	Jews	Other nationalities or Unknown	Total
Typhoid Measles Scarlatina Whooping cough. Scarlatina Whooping cough. Tuberculosis, pulmonary Tuberculosis, other forms Other contagious diseases Other contagious diseases Cancer Diabetis Cerebral hemorrhage Endocarditis and myocarditis, acute and chronic Pneumonia Enteritis Nephritis Nephritis	$\begin{array}{c} 24-70.6\%\\ 20-66.7\%\\ 13-65.0\%\\ 13-65.0\%\\ 52-73.2\%\\ 52-73.2\%\\ 52-68.5\%\\ 89-73.6\%\\ 91-59.5\%\\ 91-59.5\%\\ 91-59.5\%\\ 91-59.5\%\\ 91-59.5\%\\ 522-66.9\%\\ 522-66.9\%\\ 522-66.9\%\\ 522-66.2\%$	$\begin{array}{c} 4-11.8\%\\ 6-20.0\%\\ 7-35.0\%\\ 7-35.0\%\\ 7-35.0\%\\ 7-9.9\%\\ 11-6.8\%\\ 128-16.7\%\\ 128-16.7\%\\ 128-16.7\%\\ 128-16.7\%\\ 128-16.7\%\\ 36-26.9\%\\ 86-26.9\%\\ 86-26.9\%\\ 147-18.8\%\\ 65-19.5\%\\ 106-21.3\%\\ 106-21.3\%\\ \end{array}$	$\begin{array}{c} 2-5.8\%\\ 1-5.8\%\\ 1-1.2\%\\ 31-4.1\%\\ 1-1.2\%\\ 1-1.2\%\\ 1-1.2\%\\ 1-1.2\%\\ 1-1.2\%\\ 1-1.2\%\\ 1-1.2\%\\ 1-1.5\%$	$\begin{array}{c} \begin{array}{c} 4-11.8\%\\ 4-13.3\%\\ 4-13.3\%\\ 11-15.5\%\\ 11-15.5\%\\ 11-15.5\%\\ 12-4.2\%\\ 36-4.5\%\\ 36-4.5\%\\ 56-3.2\%\\ 36-4.1\%\\ 56-3.2\%\\ 56-3.2\%\\ 69-13.9\%\\ 69-13.9\%\\ 69-13.9\%\\ \end{array}$	$\begin{array}{c} 34-100.0\%\\ 30-100.0\%\\ 20-100.0\%\\ 71-100.0\%\\ 766-100.0\%\\ 121-100.0\%\\ 195-100.0\%\\ 123-100.0\%\\ 320-100.0\%\\ 320-100.0\%\\ 974-100.0\%\\ 974-100.0\%\\ 974-100.0\%\\ 974-100.0\%\\ 974-100.0\%\\ 976-100.0\%\\ 9700.0$
Total	$\frac{5529-69.6\%}{1309-67.4\%}$	$\frac{1541-19.4\%}{411-21.3\%}$			$\begin{array}{c} 7949-100.0\%\\ 1937-100.0\%\\ \end{array}$
Grand total	6838-69.1%	1952-19.8%	372-3.8%	724-7.3%	9886-100.0%

TABLE XXII

DEATHS FROM CERTAIN DISEASES BY NATIONALITIES. IN 1931 7

		Frei	nch-C	anad	ians			Brit	tish-C	anadi	ians	
Causes of death	t	o ear		l o cars		zer ears	t) o ear	t	1 o ears	Ov 5 ye	er ears
	М	F	м	F	М	F	М	F	м	F	М	F
I-Infectious and parasitic di-												
Seases					7	1000		1000000000	100000000000000000000000000000000000000			
Tuberculosis of the lungs Tuberculosis, other forms		1	1	2	17 8	25					11	7
Other infectious and para-			1	-	0	0					1	-
sitic diseases		1	1	2	6	1	2		1	1	5	
II—Cancers and other tumors.				1	33	29					38	
III-IV-V-Other general di-												
seases					14	12				1	7	8
VI-Diseases of the nervous											1	
system VII—Diseases of the circul-			* • • •		10	20		* * * *			12	7
atory system			1		31	- 00						00
VIII-Diseases of the respir-					01	22		****	****		37	26
atory system	1	1	2	2	5	15	3	1		1	8	4
IX-Diseases of the digestive	1		1							1		
system	13	5	3	3	24	39	3				8	8
X-Diseases of the genito-												
urinary system		****			23	25					11	12
XI—The puerperal state XII–XIII—Diseases of the						11						3
skin, bones, etc												
XIV-XV-Congenital mal-		1.1.1		****	1	1	2		1		1	
formation and early in-												
fancy	5	10			1		11	7	1		eres!	
XVI—Old age					1		1					
AVII-Violent and accidental											-	
deaths			1		27	7	1		3		20	5
XVIII—Ill-defined causes of deaths											1	
deaths	****				3	1					1	3
Total	19	18	9	10	211	226	22	8	6	3	162	103

DEATHS OF NON-RESIDENTS

11

Number of permits issued for the removal out of the City, of the bodies of persons dying in the City.

Women	• • • • • • • • • • • • • • • • • • • •	829

861 permits to enter Montreal were also issued for persons residing and having died outside of the City.

XXIII

OF MONTREAL, IN 1931

		Je	ws						tional knowr				Total	
t) o ear	t 5 yr		Ov 5 ye		(t) 1 y		t 5 ye		Ov 5 ye	1000	м	F	Grand total
М	F	М	F	М	F	М	F	м	F	м	F			
				181.000		0.00000		20200	120202000			9	10	19
										4		32 12	36 13	68 25
				1					****	1	1	1-	19	
										1		16	5	21
			1200 CO. 101	1.00								76	50	126
					1						1	21	23	44
					1							22	28	50
				5	3					5		79	51	130
						1				2		22	24	46
					1	1				7		59	56	115
					1					3		37	38	75
			10000	100000			10000						14	14
												5	1	6
						1	2					19	19	38
			1000							10000	1	2		2
				4						7		63	14	77
				2		1						7	4	11
				16	12	4	2			32	4	481	386	867

CLASSIFICATION OF DEATHS BY CAUSES,

		Fre	nch-C	Canad	lians			Bri	tish-C	Canad	lians	
Causes of death	t	0 o ⁄ear	10.00	1 o ears	10.00	ver	1	0 to zear	t	1 o ears		ver ears
	M	F	M	F	M	F	M	F	M	F	м	F
Typhoid and paratyphoid fe-						1						
vers					11	13					2	2
Measles	3		6	6					2	3	1 32	
Scarlet fever	2		4	3	4				5		1	1
Whooping-cough	9	7	4	4			1	2				
Diphtheria			13	18	7	I DODOROOM I	1	1		1	2	2
Grippe and influenza	9		12			1000	1	1		-	4	7
Cuberculosis, all forms	8	9	13	1.000			2		1	2	0.225	56
Syphilis	18	2	6	0 3			Ĩ	1	1	-		11111
Other infectuous and para- typhoid diseases	12	7	22					1			11	3
Cancer and malignant tumors.	1.	1	2.2		17		1	2	3	4		5
Diabetis			1	****	221	260					120	124
Other tumors and other general		* * * *			40	51			- 1		17	24
diseases	-											
Diseases of the nervous system	5		8	5		10000	4	2	4	4	10	25
Diseases of the circulatory sys-	31	27	18	22	164	167	5	2		2	62	63
tem Diseases of the respiratory sys-	3	3	1	3	431	503					224	239
tem	143	100	75	82	144	127	20	13	9	7	70	60
Diseases of the digestive system Diseases of the genito-urinary	375	326	59	40		0.000	27	24	7	4	58	48
system	4	2	2	2	303	374				1	04	
The puerperal state						66					84	91
Diseases of the skin and cel-						00		* * * *				15
lular tissue Congenital malformation and	14	5	2	1	6	5	1				6	6
early infancy	288	294			-			1				
ld age		1000000	1	1			55	44	3			1
iolent deaths and accident-				* * * *	18	35					7	10
al	2	2	07		000	1						
ll-defined causes of deaths	3		27	11	200	100			2	2	75	27
and a deaths	0		2		42	9	1	1			21	3
Total	1090	001	070									
	1029	034	276	246	2153	2298	119	92	37	29	864	812

XXIII a

AGES, SEX AND NATIONALITIES, IN 1931

$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Total				ionali nown		Othe of				vs	Jews			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Grand total	F	M	1000		,	te	,	to			,	to		to	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				F	м	F	м	F	м	F	м	F	м	F	м	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$															1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	34 30	1000							100000			1000				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20				0.000	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		1	10000000	00000000		1000				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	29	2.37						1.1								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	71	43		10 C C C C C C C C C C C C C C C C C C C					10000							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	164	97	67						10000000			0.000	0.000		2002	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	887	440	447	31	60	1			. in	12 20 20 20 20 20 20 20 20 20 20 20 20 20	10.00		80000	1.1.1.1	22223	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	79	30	49	. 1	2	1		-4	3		2					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	116	48	68		1		6			1						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	808			10000						100000	1000					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	153	88						10000	1000000	1000						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	203	107	00	. 1												
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	629			100						1.11.1	1000					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	020	012	017	3	11	2			3	18	14				3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1554	817	737	24	38				1	45	39					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	983	438	545	10	20		-	00	0.5	0	10					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1514				1000			1.	0.002652		1000	1. 200	000000000000000000000000000000000000000	10000	37	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								30	1.		10				0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	931	501	430	20	22					11	15			1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	90	90		9		100000		10000	and the second second							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	57	26	31	2		1		3	1	3	1					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	866	381	485													
1 1 2 10 9 12 2 4 2 41 8 374 123	76								1000				12001000000	1.11.2	7	
										0						
10	497		00000			2	4	2	12	9	10	2	1	1		
10 1 79 10	95	16	79	1	10					2						
21 18 2 6 163 162 118 114 30 21 294 148 5106 4780	9886	4780	5106	148	204	- 21	20	114	110	100	100				~	

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TAB

CLASSIFICATION OF DEATHS ACCORDIN

By causs

lo. of 929	International Classification	Total	М	F		o 5 nths		o l ar	ti 4 yei	1240	1	o) ars	1	o 4 ars	3
2.5					М	F	М	F	М	F	М	F	м	F	1
	IInfectious and Parasitic														
	Diseases.														
1	Typhoid fever														
2	(typhus abdominalis) Paratyphoid fever	32	16								1	1	2		
3	(paratyphus) Typhus exanthematic	2	1	1 21							1				
4 5	Relapsing fevers Undulant fever														
6	Smallpox:		1000										•••		•
	a) variola major b) variola minor, alastrim														
7	c) not specified Measles														١.
8	Scarlet fever	30 20	15 16						10 9	93		2		· · · ;	
9	Whooping cough Diphtheria	29 71	15 28			6									١.
1	Grippe or influenza:		28	40	1	1		2	11	22	9	16	4	1	•
	a) with pneumonic complica- tions	124	50	74	2	12	6	18	10	- 20	1				
	b) without stated pulmonary	1 223						10	10	20	1	• • •			
2	complications	40		23	2			1	2		-	_	-		
3	Dysentery:		1000	0.00000	01000	1000			• • •			19.20	1000		•
	Difference and a second	1	···· i						••••						
4	c) other or unspecified Plague:														
1	a) bubonic										-	41-			
-	c) septicemic. d) not otherwise defined	1.1.2.2.2.2	1 2 2 2							• • •					•
5	Acute poliomyelitis and acute	20	13	7	6	3	1								
7	poliencephalitis	74	44	30	2	2	1		28	16	11	7	2	3	
	Lethargica or epidemic encepha- litis	6	1	5											
8	Meningitis cerebrospinal epide- mic.	3	9												
9	Glanders and farcy.					****	1		1				• • •	1	•
	Malignant pustule (bacillus anthracis)														
12	Rabies		****												•
3	Tetanus. Tuberculosis of the lungs	766	384	1 389	1.							1			
4	Tuberculosis of the meninges and of the central nervous system					0		5		1	2	3	3	7	
5	peritoneum (including moren	45	22	23		2	1	3	5	6	5	3	2	4	
6	teric ganglia) Tuberculosis of the spine	19 9	75	12 4								1	2		
7	joints of the bones and				****										
8	Auperculosis of the skin and	8	7	1							2			1	
	subcutaneous tissue	1	1								1999	1.00	1.00		

XXIV.

TO THE INTERNATIONAL NOMENCLATURE

sex and ages.

20 to 24 yea	24	t	9	t	o 4 ars	t 3	5 0 9 ars	4 t 4 yes	4	4 t 4 yes	9 9	5 te 5 yea	o 4	t	9	6 t 6 yes	+	6 t 6 yes	o 9	7 ti 7 yei	0 9	t 8	0 o 9 ars	Ov 9 yes	0	N 0 19
I	F	м	F	M	F	M	F	M	F	м	F	М	F	м	F	м	F	M	F	М	F	М	F	М	F	15
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																						1.2.				

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CLASSIFICATION OF DEATHS ACCORDINI

By causes, see

No. of 1929	International Classification	Total	M	F	t	0 o 5 nths	t	m. o 1 ear	t	1 o 4 ars	t	5 0 9 ars	t 1	0 0 4 ars	1	155 to) 19) sara
1020					М	F	M	F	М	F	M	F	M	F	M	1 11
29	Tuberculosis of the lymphatic system	2	1	1					1							
30	Tuberculosis of the genito-urin- ary system.	5	3	2												
31 32	Tuberculosis, other sites Disseminated tuberculosis:	1	1								111					
	a) acute b) chronic	23	11 3	12			1								1	
33	c) unstated Leprosy	4	2		and the second se									1000000000	100 C 100	100
34	Syphilis: a) congenital	52	28	24	21	19	1	1		4						
	b) acquired	10	8	2							+ + +					
35	c) not stated Gonococcal and other venereal	17	13	4												
36	diseases. Purulent infection and septicœ- mia (non puerperal):															
	a) septicœmia. b) pyaemia or pyohemia	2	2													
37	c) gas gangrene Yellow fever					* * * *			* * *	1.1.1						
38	Malaria: a) intermittent fever b) malarial cachexia															
39	Other diseases from protozoal parasites	100000000000000000000000000000000000000	1000	10000	100000	1000	1000	1000	1.000		Can I		1000			100
40 41	Ankylostomiasis Hydatid tumour: a) of the liver			* * * *		••••		• • •								••
42	b) other sites. Other diseases from helminths.			****												
43 44	Mycoses	1	****	```i	****					***						A 100 million
3.5	Other infectious or parasitic di- seases	6	3	3	2	2			1	1						
	Total	1430	722	708	49				106	99	39	40	17	20	38	7
	II.—Cancers and other Tumors															
45	Cancer and other malignant tu- mors of the buccal cavity and															
46	the pharynx. Cancer and tumor of peritoneum and digestive tract:	60	56	4							1					
	a) oesophagus b) stomach and duodenum	21	13													
	c) rectum	164 32	96 18	68 14	****	****								133		
	 d) liver and bile duct e) pancreas 	72 12	28 9	44	* * * *	* * * *										
47	f) peritoneum g) others.	2 85	39	- 2	* * * *											1
47	Cancer and malignant tumor of respiratory organs	41	32													
											* * *					

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XXIV.

TO THE INTERNATIONAL NOMENCLATURE

and ages-(Continued)

20 to 24 rea	-	t 2	25 o 29 ars	t 3	o 4 ars	t 3	o 9 ars	4	0	4 t 4 yes	0 9	5 ta 5 yea	0 4	5 to 5 yea	0 9	6 t 6 ye	o 4	6 6 9	9	7 to 7 yes	0 9	80 to 80 yea	0 9		ver 10 ars	
1	F	М	F	M	F	M	F	M	F	м	F	М	F	м	F	м	F	М	F	м	F	М	F	M	F	
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				4.0.0				1.4.4						1.1.1	1.00						1.1.1					
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				1							4			1	2	4		4		3	1		1			
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			1	2						2		5	2	8	1	5	1	4	2	6			1			

CLASSIFICATION OF DEATHS ACCORDING

By causes, sem

o.	- International Classification	Total	м	F	1	0 5 nths	t	m. o l ear	t	o 1 ars	1	5 0 9 ars	1	0 o 4 ars	. t	15 to 19 'ar
29					м	F	M	F	М	F	M	F	M	F	M	1
8	Cancer and malignant tumor of the uterus	93		93									·			
9	Cancer and malignant tumor: other female genital organs	9		9												
0	Cancer and malignant tumor of the breast	83		83												
1	Cancer and malignant tumor of male genito-urinary organs	59	59								1					
2	Cancer and malignant tumor of the skin	17	9	8							1					
53 54	other organs not stated Tumors (non-malignant):	58	29	29					1		1	1		1	1	
	a) female genital organs b) other organs	$-16 \\ 15$		16 6	····i			5		:::				···;		
5	Tumors whose character is not specified:															
	a) female genital organs b) other organs	1 12	••••	15				1	· · · 2		2	· · · · 1		···: 1		
					-			_			-					
	Total	852	404	448	1	1		1	3		6	2		3	1	
							-		-				-		-	-
																I
	III.—Rhumatic Diseases, Di- seases of the Nutrition of Endocrin Glands and other General Diseases.															
67	Acute articular rhumatic fever. Chronic rhumatism, osteoarthri-	24	13	11					1	1	1	3	3		1	
8	tis	15	9	1.1.1												
9	Diabetes mellitus Scurvy:	153		88	****				``i	***	``i			2		ľ
	a) infantile scurvy (Barlow's disease)	1	1						1							
1	Beriberi		A . A . A . A									***				ł
2 3	Rickets															Ŀ
4 5	Disease of the pituitary gland					:::::	* * *		3		***					
6	(hypophysis) Disease of the thyroid gland and parathyroid glands:			••••												
	a) goitre b) exophthalmic goitre	2 11	···· 9	2												
	d) tetany	33		0		* * * *	A		1.6.4	1						I.
7	e) others Diseases of the thymus								1	1						
		13	8	5	5	3	0			-	ACCRET OF TAXABLE PARTY.	A COLUMN TWO IS NOT	CONTRACTOR OF	and the second		

XXIV.

TO THE INTERNATIONAL NOMENCLATURE

and ages—(Continued)

2) to 2) yea	0 4	t 2	o 19 ars	t	4	3 to 3 yea	0 9	4 ta 4 yes	0 4	4 4 yei	9 9	5 ta 5 yea	0 4	5 ta 5/ yea	9	6 to 6 yes	0 4	6 te 69 yea	9	7(to 71 yea	9	8 to 8 yea	9	Ov 91 yea	0	No. of
м	F	м	F	м	F	м	F	M	F	м	F	м	F	M	F	м	F	М	F	M	F	м	F	м	F	1929
																					-					
•••	2		1		7		7		11		9		14		9		11		12		7		3			48
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•••													2					15								51
				1	1000			2					100	2				2		5						52
					100																		2	8		53 54 a)
				1									î	2						3	ĺ	1				b)
													1													55 a)
24	•••	1	1								1									••••					• • •	b)
3	5	3	7	6	23	7	17	16	34	29	32	-19	48	54	48	59	56	62	59	90	80	14	26	1	3	
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CLASSIFICATION OF DEATHS ACCORDING

By causes, sex

	1)	6	m.	1	1		5	1	0	1	5
No. of 1929	International Classification	Total	М	F	t	o 5 nths	t	o l ear		o 1 ars	1	o 9 ars	1	o 4 ars		o 9 ars
1020					M	F	м	F	М	F	M	F	м	F	M	F
68	Diseases of adrenals, Addison's								-					1		
69	disease (not tubercular) Other general diseases	4	1	2												
	Total	237	107	130	7	3	2	2	8	5			3		2	22
	IV.—Diseases of the Blood and of the Hematopoietic Organs.															
70	Haemorrhage: a) primitive purpuras b) haemophilia	8	32	5 2							1					u
71	Anaemia: a) pernicious progressive anae- mia.	22		12												
72	b) others Leukaemia: a) leucocythaemia	5	4	1					2	1					• • •	
$73 \\ 74$	D) lymphadenoma Diseases of the spleen	15 9 1	5	9 4 1	1											
14	Other diseases of the blood and of the hematopoietic organs															
	Total	64	30	34		2					1				1	2
	V.—Chronic Poisoning and Intoxication.										11					
$\begin{array}{c} 75\\ 76\end{array}$	Chronic or acute alcoholism Other chronic poisoning by organic substances:	9									100	1.00			1000	
77	a) professional. b) others. Chronic poisoning by mineral substances:															
	a) professional b) others	·····i	····i													
	Total	11														
	VI.—Diseases of the Nervous System and Sense Organs.															
78 79 80 81	Encephalitis (non epidemic): a) abcess of brain. b) others. Meningitis simple. Progressive locomotor ataxy Other diseases of the spinal	4 5 84 9	41	2 2 43 3	····· 11	1 6 	· 'ê	· ' d	10	18		* * 7	··· ;	· 'i	· · · · · · · · · · · · · · · · · · ·	
	cord	23	12	11												

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TO THE INTERNATIONAL NOMENCLATURE

and ages—(Continued)

20 to 24 yes	24	2 t 2 yea	9 9	3 to 3 yea	0 4	3 te 39 yea	0 9	40 ta 44 yes	0 4	4 to 41 yes		50 to 5 yes	0 4	5 te 5 yea	9	6(to 64 yea	4	6 te 6 yea	9	70 to 79 yea	9	80 te Si yei	0 9	Ov 9 yes	0	No. of 1929
м	F	М	F	м	F	м	F	м	F	M	F	м	F	м	F	M	F	м	F	м	F	м	F	M	F	1010
						2																••••				68 69
3		2		7		7				5					14		11			18	-					0.5
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CLASSIFICATION OF DEATHS ACCORDING

By causes, sex

No. of 1929	International Classification	Total	м	F	t	0 5 nths	t	m. o 1 ear		1 4 ars	t	5 9 ars	1	to 14 ars	1	15 10 19 ars
					М	F	M	F	M	F	M	F	M	F	M	F
82	Cerebral haemorrhage, embolism,															
	cerebral thrombosis: a) cerebral haemorrhage b) embolism or cerebral throm-	207	109	98				1								
	c) hemiplegia and causes not	29	12					1								
83 84	specified General paralysis Dementia praecox and other	84 55	31 37	53 18		• • • •										
	psychosis: a) dementia praecox b) other psychosis	2 21	1 6	1 15												
85 86	Epilepsy. Infantile convulsions (under 5 years of age)	18 26	9	9							1			2	1	
87	Other diseases of the nervous system:		16	10	8	2	5	3	3	5						
	a) chorea b) neuritis c) paralysis agitans	1 •••••		1											Contraction of the	
88	 d) insular sclerosis. e) others. Diseases of the eye and annexa. 	27.9	2	25												
89	Diseases of the ear and of the mastoid sinus:	2	1	1	1											
	a) otitis b) others	31 15	15		5 1	7	4	2	$\frac{1}{3}$	2 1	···;	3	2	1 1	$\frac{1}{2}$	i
	Total	629	317	312	27	16	15	13	18	26	5	11	5	6	7	3
	VII.—Diseases of the Circulatory System.										11					
90 91 92	Pericarditis. Acute endocarditis. Chronic endocarditis, including	8 30	5 12	3 18	2			2		<u>.</u> 2		1	_i			5
93	Discases of the myocardium: a) acute myocarditis	336 33	141		• • • •								3	3	4	5
	b) chronic myocarditis and degeneration of myocar-		8		• • • •		•••		•••	1	• • •	2				2
94	c) unstated Diseases of the coronary arteries	637 4	299 1	338 3							2					1 1
95	Other diseases of the heart: a) functional diseases of the	128	87	41	• • • •						1					
96	b) others and unstated Aneurism, except aneurism of the	$\frac{42}{104}$	$\frac{11}{58}$	$\frac{31}{46}$	· · · · ·	1								1	····	
97	Arteriosclerosis, except diseases of the coronary arterics	9	5													
98	a) senile	190 5	90 3		••••		1000									
99	b) others. Other diseases of the arteries	5 16	2 11	3	· · · · · · · · · · · · · · · · · · ·											

XXIV.

TO THE INTERNATIONAL NOMENCLATURE

and ages-(Continued)

2 t 2 yes	0	2 t 2 yes	0 9	3 t 3 yei	0 4	31 to 39 yea	9	4(te 4- yes		43 to 49 yea		50 to 54 yea		51 te 51 yea		60 to 64 yea		65 to 69 yea		70 to 79 yea	;	80 to 89 yea		Ov 90 yea		No. of 1929
М	F	М	F	M	F	M	F	M	F	M	F	M	F	м	F	M	F	м	F	м	F	M	F	м	F	1020
		1		3		3	2	6	4	11	5	10	11	12	6	18	15	13	17	19	19	10	17		1	82 a)
	1						1					3			1	1	1	2	2	4					1	b)
``i				1		12		3	1	1 3	2	2 6	4.22	37	1	3 1		3 2	5 4		11 10		15		1	c) 83
 	···· 4 1	1	1	 1	i	 	 1 3	``i	1		····2	···i	···: 2	 	i	 1	``i		i	1	2		``i			84 a) b) 85
																										86
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1) 4													23	11	19	34	41	14	19		3	92 93
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	3 2	1		2 2		1 1						22				32	35 1	42	43	103	96	43	78		17	b) c)
						1 .				1		1														94 95
• • •	i			i		6		3 - 4	1	24 33	32	3	12			2 9	47	25	27	17	11		7	1	1	a) b)
••												1				2			2				1			96
																									8	97 98 a) b). 99

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex

No. of	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		t 1	5 0 9 ars
1929					М	F	М	F	M	F	М	F	М	F	M	F
100 101 102 103	Diseases of the veins: varix, hemorrhoids, phlebitis, etc Diseases of the lymphatic system (lymphangitis, etc.) Idiopathic anomalies of blood pressure Other diseases of the circulatory system Total	4 1 2 1554	2 1 1 737			····· ····· 1	1								5	
104 105 106 107 108 109 110 411 112 113 114	VIII.—Diseases of the Respiratory System. Diseases of the nasal fossae and annexa. Diseases of the larynx. Bronchitis: a) acute b) chronic. c) unstated. Broncho-pneumonia, including capillary bronchitis Lobar pneumonia. Pneumonia not specified. a) Pleurisy. b) Purulent pleurisy. congestion, oedema, embolism, hemorrhagic infarct of lung. Asthma Pulmonary emphysema. Other diseases of the respiratory system, except tuberculosis: a) pneumonia, including occu- pational diseases of the lungs. b) others, including gangrene of the lung. Total.	3 9 26 20 2 452 198 130 23 32 58 16 1 1 12 983	9	6 15 10 1 203 81 57 13 8 32 9 	5 77 11 11 11 4	4 58 4 8 1 4 	1 64 5 7 1 3 	1 422 6 4 1 3 	2 1 54 15 11 1 4 2 1 	5 3 60 10 8 2 3 3 1 	 1 6 2 3 1 1 1 	···· 4 3 1 1 ···· 1 ····	···· 2 3 ····	2 	···· 22 1 1 1 1	···· 2 1 ····
115 116 117	XI.—Diseases of the Digestive System. Diseases of the buccal cavity and annexa, including pharynx, tonsils and adenoids Diseases of the oesophagus Ulcer of the stomach or duode- num: a) stomach b) duodenum.	31 	14 32 11													

XXIV.

TO THE INTERNATIONAL NOMENCLATURE

and ages-(Continued)

'20 to 24 years		25 to 29 years		30 to 34 years		3. te 39 yea	9	40 to 44 years		to 49		$\begin{array}{c} 50 \\ to \\ 54 \\ years \end{array}$		55 to 59 years		$\begin{array}{c} 60 \\ to \\ 64 \\ years \end{array}$		65 to 69 years		70 to 79 years		80 to 89 years		Over 90 years		No. of 1929	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	м	F	M	F	M	F	1020	
	1									2							1									100	
																										101	
• •	1000		1000	1000	1000	100		22.00																		102 103	
7		11				26												90	_						30.	105	
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	100000					1				1		1					1	2			6	2	2	1		a) b) c)	
1			1		1	3	4	5		4	1	4	2		2	4	4		3		9	5	7		1	107	
6 2 1		2		1	``i	2	3	7	5 1	2	2	5	33	2	32	4		62	4	8	6	5	12			108 109 110 a	
2		2			1	2	2	1		2	2	2		2						1 2						b)	
									1			3					1	2	2	1			2			112 113	
												1														114	
		1			1.2		1.00																			a)	
	-														1			1 23		-				-		b)	
12	4	-	6	8				10		13		20	=		-		=		10			-	-	-	-		
1		1	2			2	1		3	1		1	1			2		2					1			115	
																										117	
		2		1			1	5	3	4	2	45	2	2		4	1	3	2							b)	

TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex

			_			_					_		_		_	
No. of 1929	International Classification	Total	M	F	t	0 o 5 nths	1	m. to 1 ear	t	1 o 1 ars	t	5 0) ars	1	10 10 14 ars	1	15 to 19 ears s
1020					М	F	M	F	М	F	M	F	М	F	M	F
118	Other diseases of the stomach (except cancer)	92	49	43	10	4	1	3	9	4	3	1				- • • •
119	Diarrhoea and enteritis (under 2 years)	877	469	408	324	283	110	100	35	25)			
120	Diarrhoea, enteritis and intes- tinal ulceration (2 years and over):											- 1/4				
	a) diarrhoea, enteritis b) intestinal ulceration	94	44	50 3							4	2		1	3	11
$\frac{121}{122}$	Appendicitis. Hernia, intestinal obstruction:	107	60	47					5	2	4	10	7	5	7	44
	a) hernia b) intestinal obstruction	34 41	20 18	14 23	1	3	···i	···;	23	· · · i	···;		1	· · · i		
123 124	Other diseases of the intestine Cirrhosis of the liver:	9	4	5	• • • •	• • • •				• • •						· · · ·
	a) alcoholic b) not returned as alcoholic	2 91	2 59	32					1	• • •	···: 2				10000000	
125	Other diseases of the liver (in- cluding yellow atrophy)	25	12	13	1		2			1	1		1	1		11
$\frac{126}{127}$	Biliary calculi Other diseases of the gall bladder	19	2	17			• • • •	• • •		••••	••••		•••		• • •	11
128 129	and its ducts Diseases of the pancreas Peritonitis without stated cause.	21 6 6	4 5	17	• • • •											1.000
120	a critomitis without stated cause.		4	2	••••			1	1		1					
	Total	1514	809	705	336	291	114	106	71	47	16	19	10	8	11	- 88
							===		==				-		==	
	X.—Diseases of the Genito-Urinary System.															
130	Acute nephritis	58	24	34	2	1	2	1	1	2	0	1		2	0	- 21
131 132	Chronic nephritis Nephritis not specified	732 9	328 4	404							2	24		2		21
133	Other diseases of the kidneys: a) pyelitis.	14	6	8		1			1							1
134	 b) others. Calculi of the urinary passages: a) renal calculi and of the 	6	2	4			• • •								1	
	b) vesical calculi	7	2	5												
	c) calculi under other qualifi- Discussions.	4			••••											
135	tumors;	*****												•••		
	a) cystitis. b) others.	72	5	22												
136	abcess, etc.;			-												
107	a) stricture of the urethra b) others	4	4 3													
137 138	Non-venereal diseases of the	47														
	male genital organs	1	1.													
			1	1	1	1			1	-		1				

TO THE INTERNATIONAL NOMENCLATURE

and ages—(Continued)

2 t 2 yes	0 4	2 to 2 yea	0 9	3 t 3 yea	0 4	3 to 3 yea	0 9	40 to 44 yes	04	4 to 4 yea	9	5/ to 5- yes	24	5 to 5 yea	0 9	6 te 6 yei	0 4	6 te 6 yei	9	7 to 7 yea	9	Si to Si yei	0 9	Ov 9 yei	0	No. of 1929
м	F	М	F	м	F	М	F	м	F	М	F	M	F	м	F	М	F	м	F	м	F	М	F	м	F	1020
	1	2	1	2	2	1	2	1	1	3	3	6	2	1	1	4	2	4	3		8	1	5	1		118
																										119
1			1	···· 9								···· 2	1 3		1 1 2			1	2 1 1			3				120 a) b) 121
``i 1					 1	1 1 1	 	2		2		1	1	1	3				Low			1	3		 1	122 a) b) 123 124
		1			1 2	2		2		17	1	9	4	11	1			2	2	4	7		2			a) b) 125
					1		1		1 2		2	1			2	1	2	1	1		3		2			126 127 128
					1				•••			1														129
9	12	16	12	15	13	12	13	22	15	26	17	32	20	32	20	30	24	26	16	20	41	10	20	1	3	
	4				. 1					14		31	1		1		1	2							3 7 	130 131 132 133
				I I 	L 1	. 1	1	2			1	1						i				i				a) b) 134
				1			. 1			l	 				i					l	i	1				a) b)
												1														e) 135
•••					1	1			1			i			1		1				1	1		i	* * * *	1
			i		i								2		2		4		5	. 2	i	. 1	0		 i	
		• • •											•	•	1				• • • •	• • •			•			138

TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex

No. of	International Classification	Total	м	F	t	0 o 5 nths	t	m. o 1 ear		1 o 1 ars	t	5 0 9 ars	1	0 o 4 ars	t 1	5 o 9 ars
1929					м	F	М	F	M	F	м	F	М	F	M	F
139	Non-venereal diseases of the fe- male genital organs: a) fallopian tube and parame- trium b) uterus c) mammae d) others Total	30 6 931	· · · · · · · · · · · · · · · · · · ·	30 6 501	····· 2	· · · · · · · · · · · · · · · · · · ·	2	 1				···· ···· 2	•••	···· ···· 4		
	XI.—The Puerperal State.															
140 141	Abortion, with septic condi- tions	5		5												
142	septic conditions, including haemorrhages Ectopic gestation	5		54					1.1.1.1.1.1.1.1.1					0.000	10000000	
143 144	Other accidents of gestation (haemorrhages not included) Puerperal haemorrhage:	2		2	·											
145	a) placenta proevia b) other haemotrhages Septicaemia and puerperal sepsis (not returned as result of abor-	8 5		85		••••										
146	tion): a) Puerperal septicaemia and puerperal pyaemia b) puerperal tetanus Puerperal albuminuria and			29												
147	eclampsia. Other forms of toxaemia of pre-			15												2
148	gnancy. Phlegmasia alba dolens, embolism or sudden death (not returned as septic): a) phlegmasia alba dolens and										1					1
$\begin{array}{c}149\\150\end{array}$	thrombosis. b) embolism and sudden death Other accidents of pregnancy Other stated diseases or condi- tions not mentioned (puerperal		· · · · ·	 4 9	· · · · ·	••••	 	· · · · · · ·	 		 	 			 	``i
	state)	1		1								_				1
	* Otal			90				• • •								5
	XII.—Diseases of the Skin and Cellular Tissue.															
$ \begin{array}{r} 151 \\ 152 \\ 153 \end{array} $	Furunculosis. Phlegmon Other diseases of the skin, annexa, and of the cellular	8 31	3 21	5 10	2 10	3 4	····2		2	i				••••	_i	
	ussue	9	1	8	1			1								
	Total	48	25	23	13	7	2	1	2	1						

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XXIV.

TO THE INTERNATIONAL NOMENCLATURE and ages—(Continued)

=	20	1	25	1	30		35	1	10		5	1,	50			1		1		-			0			1
12	to 24 ars		to 29 ears		to 34 ears		to 39 ears	4	to 14 ars	14	io 19 ars	1	to 54 sars		55 to 59 ears	t	i0 o i4 ars	t 6	65 0 19 ars	t 7	0 9 ars	s t S yei	0 9	Ov 9 yes	0	No. of 1929
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	М	F	М	F	1020
····· 2	2 15	6			9 1 25				3	· · · · · · ·	••••		36		40			60		• • •			1			139 a) b) c) d)
	2				2		1																			140
••••	2 1		1		_i		2		····2																	141 142
	2		2		3				···· ···· 2			100					1.								1 1	143 a) b)
																										145
••••					8																		• • • •			a) b)
			1		3					200			1000										1			146 147
· · · · · · ·				1	 1 3						CONTRACTOR OF STREET,		1.000	100000								Sec. 10. 19	200 - COL	100000	2000 C C C C	148 a) b) 149
																										150
	17		18		25		16		9											4. + +						
						i		···;			-															151 152 153
		2	1		-				2																100	
-		-												_		_										

4

TABLE

CLASSIFICATION OF DEATHS ACCORDING By causes, sex(

.

No. of 1929	International Classification	Total	м	F	t) o 5 nths		10000		l o t ars	t	5 0 9 ars	t	0 o 4 ars	t 1	5 o 9 ars
					М	F	М	F	м	F	М	F	М	F	M	F
	XIII.—Diseases of the bones and Organs of Locomotion.		1											1		
154 155	Osteomyelitis Other diseases of the bones except	6	4	2						1	1	1	1			
156	tuberculosis Diseases of the joints and other	1	1				••••						1			• • • • •
	organs of locomotion: a) joints, except tuberculosis and rhumatism b) other organs of locomo-	2	1	1	1											
	tion															
	Total	9	6	3						1	1	10.75	2			
	XIV.—Congenital Malformation.												-			
157	Congenital malformation (still- born not included): a) congenital hydrocephalus b) spina bifida and meningo-	15	7	8	6	4		4	1							
	cele	23	10	13	10	13										
	d) monstrosity e) others	$73 \\ 6 \\ 19$	47 1 6	26 5 13	43 1 5	5		1	2	100000			2	10000		
	Total	136	71	65	65	57		5	4	2			2	1		
	XV.—Diseases of Early Infancy.															
$ \begin{array}{r} 158 \\ 159 \\ 160 \end{array} $	Congenital debility. Premature birth. Consequences of birth: a) Caesarean operation stat-	$ \begin{array}{c} 102 \\ 424 \end{array} $	60 237	42 187	59 237			3	•••							:::3
	b) caesarean operation not	1	1 33		1	• • • •										
161	Stated Other diseases peculiar to early infancy:	89	56	33	56	33		• • •							••••	
	a) atelectasis. b) ieterus neonatorum c) sclerema and others		5 11 44	3 14 37	5 11 44	3 14 37		10.00.001								
	Total	730	414	316	413	313	1									
	XVIOld Age.															
162	Senility: a) with senile dementia b) without senile dementia	5 71	1 27	4 44												
	Total	76	28	48			-									

TO THE INTERNATIONAL NOMENCLATURE

and ages-(Continued)

t 2	0 0 24 ars		25 to 29 ars	100	30 to 34 ars	13	o 19 ars	t 4	0 0 4 ars	t 4	5 0 9 ars	t 5	i0 o i4 ars	t	5 0 9 ars	e t	i0 io i4 ars	t 6	i5 o i9 ars	t 7	0 o '9 ars	t 8	io io is ars		ver 0 ars	No of 192
I	F	M	F	M	F	M	F	M	F	M	F	M	F	м	F	M	F	M	F	M	F	M	F	м	F	104
• •					1.1.1						1.0	• • •		1		•••	••••	1				• • •		• • •		151
• •	•••																									155
					1.2										1											150 a)
		0.00	100		100	100		1000																		b
			-		-	-					-	-	-	1				1								
	-												-	-	_			-			-					
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									1000			1					1000					1 3				a b
													13													c
			1																							de
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_			-							-	-															
			1	1																						
				1								2														
															• • •											15
					12																					16 a
1	10000	100.000	1000	• • •	1000	1.1.1.1	1000	1.1.1.1.1	1999	23		2011	1000													b
															* * *											16
																										a b
																										e
•=																										
																					1	1	3			16 8
					• • •		• • •										1		2	8	-	14	25		9	b
																	_1		2	8	8	15	28	5	9	

TABLE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sex

No. of 1929	International Classification	Total	M	F		0 to 5 nths		m. to 1 ear		1 to 4 ars		5 to 9 ears		10 to 14 ears		15 to 19 ears+
					M	F	M	F	M	F	M	F	M	F	M	F
	XVII.—Violent Deaths and Accidental.													41		
163 164 165	Suicide by solid or liquid poisons and corrosive substances Suicide by poisonous gases Suicide by hanging or strangula-	79	5 6													
$ \begin{array}{c} 166 \\ 167 \\ 168 \end{array} $	tion. Suicide by drowning. Suicide by firearms Suicide by cutting or piercing	10 8 7	8 4 7			· · · · ·	• • •	• • •								
169 170 171 172	instruments Suicide by jumping from high places Suicide by crushing. Suicides by other means Infanticide (under one year):	9 2		* * * *												
173 174	 a) immediately after birth b) others, under one year Homicide by firearms (one year and over) 	13 1 5	12	1 1		1									/	
174	Homicide by cutting and piercing instruments (one year and over). Other homicides of persons of one year and over.	5	4													
176 177 178	Poisoning by venomous animals Poisoning by food Accidental absorption of poison- ous gas.	5	4		****	· · · · ·		• • •	•••				1 + -		•••	
179 180 181	(not by gas). Conflagration Accidental burns (conflagration	12 4	5 4	7	* * * *				1	2						
182 183 184	excepted)	35	23			1	100		11	1	100	10.00			1	
185	Accidental injury by firearms, except combatants in battle. Accidental injury by cutting or piercing instruments, except	10	10													21
186 186	Accidental injury by fall, crush- ing, land slide.	2 89	1 63	00							2	1				
	 Accidental injury by machine- ry Railway accidents 	1 8 8		1.1.1											1	
	3c) Automobile and motorcycle accidents 3d) Accidents by other means (5 128	4 86	i		• • • •		* * *		1.			5			2
	transportation by land,	3	3.						1.							-

TO THE INTERNATIONAL NOMENCLATURE

and ages—(Continued)

N 0 19	0	Ov 9 yes		1 7	0 9	7 ti 7 yei	0 9	6 t 6 ye:		t 6	o 9 ars	1	0 0 4 ars	1 5	o 19 ars	t 4	0 0 14 ars	t 4	o 19 ars	1 2	30 34 ars		25 10 29 ars	12	20 o 24 ars	
1.0	F	М	F	M	F	М	F	М	F	М	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
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16										1			-1			1							1			21.
16																		1								
16 16			1.1.1							1		1		2			2	2			1					
16																• • •										
16		* * *				1.1.1			A:+.+	2	* * *	1		3		***		1				1	• • •			1
16 17																										
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a b																										
17																										
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17										+ + +										1			1	2		
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17													* * *	* * *					* * *	* * *						
17	0.00		3													2										
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18																										
18		* * *	***		1	1	1				1				1	2		2				1	1	1	1	1
18 18						···;							···-2			••••					••••			7		ż
18							1.00											1							-	
18								• • •							1					1						
18			6	1	6	6	3	2	3	2		3		3	1	5	1	6		6	1	5		3		5
18		• • •	• • •	• • •																						-
2 3a																		4		1						
36			***	1		i					i		***			3				2						1
30																		10								
3d						1																				

TABLIE

CLASSIFICATION OF DEATHS ACCORDING

By causes, sea

No. of 1929	International Classification	Total	M	F	t	0 5 nths	1	m. 1 ear		1 4 ars	1	5 9 ars	1	10 to 14 ars	1	15 to 19 ears
					М	F	M	F	M	F	M	F	M	F	М	1
											1		1			
	3e) Accidents by water trans-												1			
	3f) Accidental injury by aerial								-							
187	transportation Cataelysm	4	4						1000		1.000	1			111	11
188 189	Injury by animals Hunger or thirst															
190	Excessive cold								0.000		0.0010	1	:::			12
191 192	Excessive heat	5	3	2					1.0.0							
193	Accidental injury by electric								:::		1.1.1					100
194	currents (lightning excepted) Other accidents:	3														•••
aner 1	a) foreign body b) others	16	1 6		1				·			1000 CO.				• •
195	Violent death of unstated nature				1		1								••••	
196	or unknown cause War injuries			100010101		1111			1:1:		1					
197	Execution of civilians by belli-															1
198	gerent armies. Execution (sentence of death)															
	Total	497	374	123				2		17	17	7	14		31	1
					-							===	-		====	
					1											
	XVIIIIll-defined Causes															
1	of Death.		1													
	or Death.															5
199 200	Sudden death	92	76	16	3	1			1						1	
200	Cause of death unstated or not specified	3	3		1		1									
	Total	95	79	16	4	1										-
	77									===						-
	Total M		5106		1043		244		345		113		62		110	
	Total F	0 * + + + +		100000000												
	Grand total													-		
	chand total	9886	98	86	10	73		72		47	1	18		17		240

TO THE INTERNATIONAL NOMENCLATURE

and ages-(Continued)

20 to 24 yes	0 4	2 to 2 yet	9	30 to 34 yea	2	32 to 39 yea		40 to 44 yea		45 to 49 yea	;	50 to 54 yea	2	51 to 51 yea	5	60 to 64 yea		63 to 69 yea		70 to 79 yea		80 to 81 yea	;	Ov 90 yea		No. of 1929
м	F	м	F	M	F	м	F	м	F	м	F	м	F	м	F	м	F	м	F	м	F	M	F	м	F	
		1		3																						3e) 3f) 187
		· · · · · · · · · ·												···· ··· 1					· · · · · · · ·	···· ···· 1	···· 1		···· ··· ·			188 189 190 191 192 193
	 	1				· · · · · · ·		2						1	· · · · · · ·						•••	1	···· ····	· · · · · · ·	· · · · · · ·	194 a) b) 195 196 197
38		31		23	7	31		37		26								10								198
	1			1						10		12								12				1		199 200
140		141				3		9	1		2	10	2	9	1	7	4	7	2	12	2	2		1	-	
	1		1000		12.2		10.03		0.00		12.50	1000			1.0		1		1000		in the		1	1	1	
3	04	3	909	2	86	3	46	4	00	4	43	5	537	5	25	6	28	6	53	12	08	5	92		88	

METEOROLOGICAL SERVICE OF CANADA, Observations made at McGill Observatory, Long. 75° 35' W.

	-	Th	ermome	eter			*Baro	ometer	
Month	† Mean	(a) Deviation from years means	Maximum	Minimum	Mean daily range	† Mean	Maximum	Minimum	Mean daily range
January	14.91	+1.83	37.6	-7.4	13.27	29.932	30.50	29.18	. 309
February	19.02	+3.87	36.0	-4.5	14.30	30.023	30.57	29.60	.240
March	34.37	+8.36	51.2	14.2	10.20	29.936	30.49	29.32	.175
April	46.59	+5.63	79.4	26.3	17.05	29.940	30.46	29.06	.326
May	56.92	+2.11	87.0	32.8	18.70	29.869	30.18	29.49	. 179
June	66.46	-2.02	89.0	49.0	18.35	29.923	30.26	29.39	.173
July	72.55	+3.34	97.0	56.5	18.19	29.841	30.10	29.47	.139
August	68.41	+1.86	89.8	53.0	16.71	29.986	30.29	29.67	.127
September	61.99	+3.37	90.0	42.2	15.05	29.927	30.42	29.45	.237
October	51.94	+5.25	76.3	34.7	13.59	29.950	30.43	29.22	.235
November	41.57	+8.21	67.0	22.3	12.25	30.057	30.54	29.45	.313
December	24.63	+5.02	46.0	-1.3	13.67	30.027	30.63	29.49	.400
Sums for 1931	559.36					11.411			
Means for 1931		8					30.406		.238
Means for 57 years ending Dec. 31st, 1931									. 232

*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 57 years. ‡ Humidity relative, saturation being 100. Means of readings every four hours from recording hygrometer. ¶ For 50 years only. § For 50 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 97.0 (Fah.) above zero, on July 1st., the greatest cold was -7.4 below zero on Jan. 25th. The extreme range of temperature was therefore 104.4 degrees.

ABSTRACT FOR YEAR 1931

Montreal, Can. - Lat. 45° 30' N.

Height above the sea level 187'.

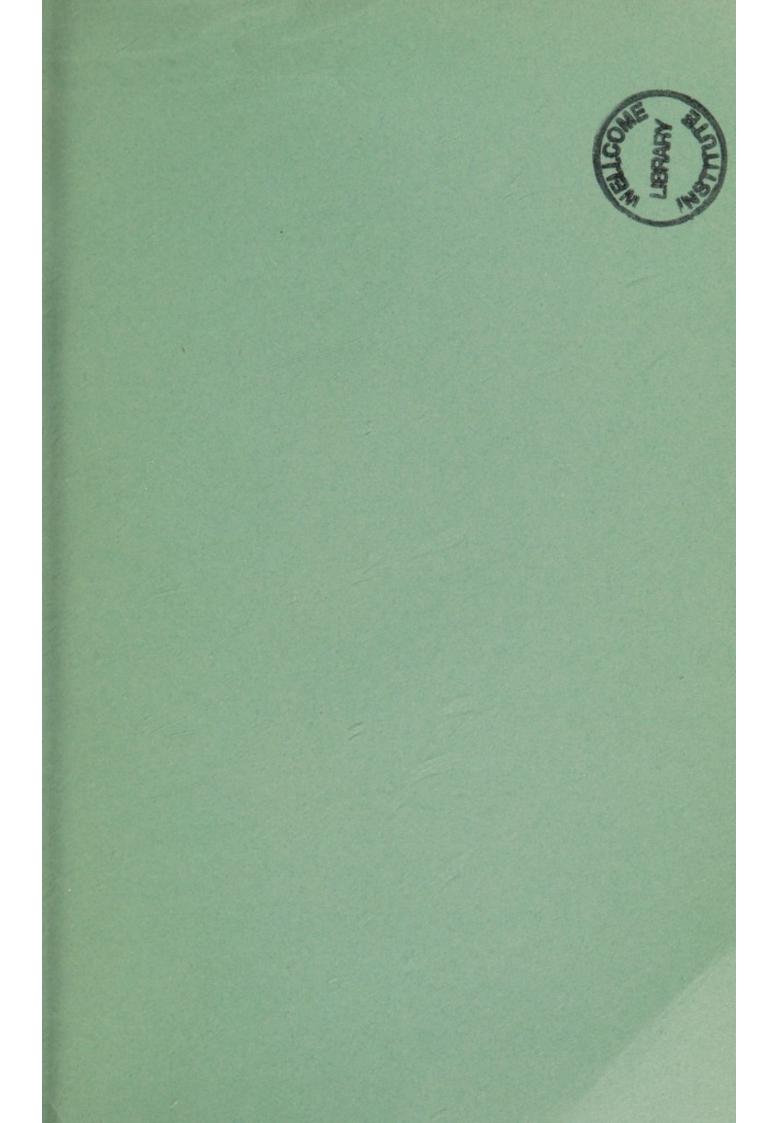
	w	ind				Pr	ecipitati	on		
† Mean relative humidity	Resultant direction	Mean velocity M. P. H.	Per cent possible sunshine	Inches rain	No. of days on which rain or sleet fell	Inches snow	Inches of rain and melted snow	No. of days on which snow fell	No. of days on which rain and snow fell	No. of days on which rain or snow fell
78.1			36.74	.02	1	31.8	2.84	13	1	14
75.8			32.60	.75	1	23.7	2.92	19	1	20
73.0			29.98	.78	4	8.3	1.69	10	2	12
61.6			51.17	2.82	10	т	2.85	Т		10
69.4			46.00	2.74	12		2.74			12
68.3			65.76	3.81	10		3.81			10
74.3			55.26	4.23	15		4.23			15
70.5			58.20	1.75	10		1.75			10
75.7			46.93	7.44	16	· · · · · · ·	7.44			16
74.4			45.71	3.91	13		3.91			13
77.7			26.22	2.52	12	1.6	2.93	3	3	12
77.1			27.30	1.17	7	20.0	3.36	11	2	16
			521.87	31.94	111	85.4	40.47	56	9	160
74.7		• • • • • • •	43.50							
74.2			43.79	29.39	110	115.3	41.23	79	15	175

The greatest temperature range in one day was 33.0 on April 13th; the least range was 2.5° on Dec. 22nd. The warmest day was July 1st., when the mean temperature was 83.4 above zero. The coldest day was Jan. 24th., when the mean temperature was -4.3 below zero. The minimum relative humidity was 30 on April 8th. Hail on — days. Fog on 4 days. Thunderstorms on 24 days. Auroras observed on nights. Lunar halos on 10 nights. Solar halos on 1 day. First trace of snow on Nov. 5th. First appreciable snowfall on Nov. 5th. First sleighing on Dec. 3rd. First zero weather on Dec. 8th. The greatest rainfall in one day was 1.47 inches on April 26th. The heaviest snowfall was on Jan. 6th., when 9.5 inches fell in 25 hours. Note.—Yearly means are averages of monthly means.









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