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REPORT
RELATING TO THE REGISTRATION OF
BIRTHS, MARRIAGES AND DEATHS
IN THE
PROVINCE OF ONTARIO
FOR THE
YEAR ENDING 31st DECEMBER

1930

(BEING THE SIXTY-FIRST ANNUAL REPORT)

PRINTED BY ORDER OF
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SESSIONAL PAPER No. 13, 1931



ONTARIO

TORONTO

Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty
1932

SIR:

I have the honour to submit for your approval the Sixty-first Annual Report made in conformity with and under the provisions of the Act respecting the Registration of Births, Marriages and Deaths in the Province of Ontario, for the year ending December 31st, 1930.

I have the honour to be, Sir,

Your obedient servant,

A handwritten signature in cursive script, reading "H. J. Bell". The signature is written in dark ink and is positioned to the right of the typed name.

Deputy Registrar-General.

TO THE HON. FORBES GODFREY,
Registrar-General of Ontario.

TO HIS HONOUR THE LIEUTENANT-GOVERNOR OF THE PROVINCE OF ONTARIO.

MAY IT PLEASE YOUR HONOUR :

I herewith beg to present for your consideration the Sixty-first Annual Report of the Registrar-General, relating to the Registration of Births, Marriages and Deaths in the Province of Ontario during the year 1930.

Respectfully submitted,

FORBES GODFREY,

Registrar-General of Ontario.

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REPORT UPON

Births, Deaths and Marriages

FOR THE YEAR 1930

The Sixty-first Report of the Registrar-General for the Province of Ontario is herewith presented.

BIRTHS (EXCLUDING STILL BIRTHS) IN THE DOMINION OF CANADA RATES PER 1,000 OF POPULATION

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
CANADA.....	26.4	25.2	23.9	23.7	23.0	24.8	24.6	24.5	24.1	24.5
Prince Edward Island.....	24.3	24.5	22.5	21.1	19.3	20.1	19.5	21.0	19.4	20.3
Nova Scotia.....	24.9	24.0	22.0	22.1	21.2	20.3	20.5	20.0	19.4	20.4
New Brunswick.....	30.2	29.5	27.0	26.9	27.2	25.4	25.5	24.2	24.4	24.9
Quebec.....						32.1	31.9	31.6	30.3	30.6
Ontario.....	25.3	24.0	23.2	23.4	22.6	21.5	21.2	21.2	20.9	21.5
Manitoba.....	30.3	28.7	26.5	24.6	23.5	22.9	21.9	22.1	21.5	21.4
Saskatchewan.....	29.7	29.0	26.8	27.0	25.4	25.2	25.1	25.0	24.6	25.0
Alberta.....	28.1	27.3	25.3	24.4	24.7	23.8	24.1	24.8	25.9	26.6
British Columbia.....	20.3	18.9	18.4	18.3	18.4	17.7	17.5	17.8	17.4	18.2

DEATHS IN THE DOMINION OF CANADA RATES PER 1,000 OF POPULATION

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
CANADA.....	10.6	10.6	10.7	9.9	9.9	11.5	11.1	11.3	11.6	11.0
Prince Edward Island.....	13.6	12.6	13.1	10.9	11.5	10.3	10.5	11.1	13.0	11.2
Nova Scotia.....	12.3	13.6	13.0	12.3	11.3	11.8	11.7	11.3	12.1	11.2
New Brunswick.....	14.2	13.2	12.7	12.3	12.3	12.3	11.9	12.0	12.4	11.8
Quebec.....						14.5	13.9	13.8	13.8	13.1
Ontario.....	11.8	11.4	11.8	10.8	10.9	11.4	10.9	11.5	11.6	11.3
Manitoba.....	8.8	9.3	8.6	8.0	8.3	8.3	8.2	8.2	8.8	8.5
Saskatchewan.....	7.4	7.9	7.9	7.2	6.9	7.4	7.2	7.2	7.7	7.2
Alberta.....	8.4	8.9	8.4	8.1	7.8	8.5	8.2	7.9	9.7	8.3
British Columbia.....	8.0	9.1	9.2	9.0	8.8	9.6	10.0	10.1	10.8	10.7

INFANT MORTALITY IN THE DOMINION RATES PER 1,000 OF LIVING BIRTHS

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
CANADA.....	88.1	86.8	88.1	78.5	78.6	101.8	94.0	89.5	92.1	89.3
Prince Edward Island.....	83.5	70.8	89.0	71.6	69.3	70.2	66.6	59.9	89.9	75.6
Nova Scotia.....	100.7	97.6	97.5	94.7	77.8	80.3	92.3	79.5	90.0	82.8
New Brunswick.....	113.3	103.3	106.0	102.5	100.1	105.9	96.0	95.6	106.0	99.5
Quebec.....						142.0	129.3	123.6	120.5	120.1
Ontario.....	91.2	82.9	84.9	75.8	78.9	78.4	71.1	71.2	76.0	73.9
Manitoba.....	83.0	94.4	85.7	75.9	79.6	76.5	72.2	67.0	70.6	71.8
Saskatchewan.....	80.6	85.6	91.9	75.9	80.8	81.8	74.9	64.8	73.3	72.6
Alberta.....	84.0	91.3	94.2	84.1	75.4	85.3	74.5	76.5	78.2	63.7
British Columbia.....	56.5	68.1	66.8	56.7	55.0	58.4	60.1	58.5	55.6	51.7

MATERNAL MORTALITY IN THE DOMINION
RATES PER 1,000 LIVING BIRTHS

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
CANADA.....	5.1	5.5	5.4	6.0	5.6	5.7	5.6	5.6	5.7	5.8
Prince Edward Island.....	3.2	3.7	2.5	4.8	8.4	4.6	2.4	6.1	7.8	2.9
Nova Scotia.....	4.3	5.5	7.2	6.6	5.4	4.6	6.8	5.2	4.2	6.7
New Brunswick.....	4.1	5.1	4.6	4.6	4.7	6.4	6.2	5.7	7.1	5.5
Quebec.....						5.2	4.9	5.3	5.3	5.5
Ontario.....	5.2	5.2	5.3	5.8	5.5	5.6	6.0	5.8	5.4	6.2
Manitoba.....	4.4	5.6	4.6	5.6	6.4	5.9	5.1	5.1	6.8	5.2
Saskatchewan.....	5.7	5.7	5.6	6.7	5.7	7.1	5.4	5.8	6.2	5.1
Alberta.....	6.7	6.9	5.6	6.2	5.8	5.9	6.4	6.8	7.3	6.5
British Columbia.....	4.8	6.2	6.3	6.8	5.8	6.5	6.7	5.7	5.6	5.8

MARRIAGES IN THE DOMINION
RATES PER 1,000 OF POPULATION

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
CANADA.....	8.0	7.3	7.5	7.1	7.0	7.1	7.3	7.7	7.9	7.2
Prince Edward Island.....	5.8	6.6	5.2	4.6	4.7	5.3	5.5	5.4	5.5	5.7
Nova Scotia.....	6.8	6.0	6.1	5.6	5.5	5.3	5.6	6.0	6.4	6.2
New Brunswick.....	8.4	7.1	7.4	7.4	7.2	7.2	7.0	7.6	7.4	6.5
Quebec.....						7.0	7.1	7.2	7.3	6.8
Ontario.....	8.5	7.8	8.2	7.9	7.4	7.5	7.7	8.0	8.4	7.7
Manitoba.....	8.6	7.8	7.3	6.6	6.9	7.1	7.3	7.9	7.9	7.5
Saskatchewan.....	6.7	6.6	6.4	6.0	6.1	6.7	6.9	7.9	7.5	7.5
Alberta.....	7.0	7.2	6.9	6.9	7.2	7.4	7.6	9.1	9.3	8.1
British Columbia.....	7.4	7.0	7.3	7.3	7.5	7.8	8.2	8.5	8.7	7.9

POPULATION

The estimated population is 3,313,000, distributed as follows:

City Municipalities.....	1,457,085	or 44.00 per cent.
Towns (over 5,000 population).....	223,389	or 6.74 per cent.
Rural (including all other municipalities).....	1,632,526	or 49.26 per cent.

ESTIMATED POPULATION 1930 BY AGE GROUPS

	Males	Females	Totals
Totals.....	1,680,000	1,633,000	3,313,000
Under 1.....	37,632	36,148	73,880
1.....	34,608	33,309	67,917
2.....	38,136	37,069	75,205
3.....	38,136	37,400	75,536
4.....	38,136	37,069	75,205
5-9.....	185,472	180,283	365,755
10-14.....	178,080	172,435	350,515
15-19.....	170,688	169,226	339,914
20-24.....	159,600	163,418	323,018
25-29.....	138,264	138,371	276,635
30-34.....	118,776	116,116	234,892
35-39.....	108,192	103,177	211,369
40-44.....	93,576	89,633	183,209
45-49.....	80,976	75,729	156,705
50-54.....	69,888	66,608	136,496
55-59.....	54,432	50,921	105,353
60-64.....	47,880	44,221	92,101
65-69.....	34,776	31,815	66,591
70-74.....	24,864	23,506	48,370
75-79.....	15,288	14,198	29,486
80-84.....	8,232	8,002	16,234
85-89.....	3,024	3,271	6,295
90 and over.....	1,344	975	2,319

BIRTHS

	1930		1929	
	Number	Ratio	Number	Ratio
Province.....	71,263	21.5	68,485	20.9
Cities.....	34,741	23.1	32,478	23.3
Towns.....	6,456	28.9	6,288	29.2
Rural.....	30,380	18.6	29,692	17.8

The number of births registered was 71,263. This was a numerical increase of 2,778. The rate was 21.5, being 0.6 of an increase. Ontario stood fifth of all the Provinces in respect to the birth rate.

NUMBER OF BIRTHS AND RATE FOR 10 YEARS

Year	Number	Ratio	Year	Number	Ratio
1921.....	74,152	25.3	1926.....	67,617	21.5
1922.....	71,320	23.9	1927.....	67,671	21.2
1923.....	70,056	23.1	1928.....	68,510	21.2
1924.....	71,510	23.3	1929.....	68,458	20.9
1925.....	70,122	22.6	1930.....	71,263	21.5

NATURAL INCREASE BY RATES PER 1,000 OF POPULATION

Year	Birth Rate	Death Rate	Rate of Natural Increase	Year	Birth Rate	Death Rate	Rate of Natural Increase
1912.....	22.9	12.5	10.4	1922.....	23.9	11.4	12.5
1913.....	22.7	13.1	9.6	1923.....	23.1	11.8	11.3
1914.....	25.0	12.2	12.8	1924.....	23.3	10.8	12.5
1915.....	24.9	12.3	12.6	1925.....	22.6	10.9	11.7
1916.....	23.9	13.0	10.9	1926.....	21.5	11.4	10.1
1917.....	22.6	12.0	10.6	1927.....	21.2	10.9	10.3
1918.....	23.0	15.3	7.7	1928.....	21.2	11.5	9.7
1919.....	22.0	11.9	10.1	1929.....	20.9	11.7	9.2
1920.....	25.1	14.0	11.1	1930.....	21.5	11.2	10.3

The number of illegitimate births registered during the year was 2,651, being 275 more than for 1929. This gives a rate of 37.2 per 1,000 living births, or 3.72 per cent. The rate continues to increase and this Province shares with Manitoba the highest illegitimacy rate in the Dominion.

The table following shows how steady has been the increase especially since 1918. Two peaks are indicated: beginning with the low rate of 12.5 in 1905 there is a rise to 1914 (22.1), then a decline to 1918 (18.2), then a steady rise to the present highest point of 37.2 which is almost three times the rate of 1905.

ILLEGITIMATE BIRTHS

Rate per 1,000 living Births

1901.....	17.7	1909.....	13.7	1916.....	20.9	1923.....	22.5
1902.....	17.5	1910.....	19.3	1917.....	19.5	1924.....	24.2
1903.....	16.4	1911.....	19.4	1918.....	18.2	1925.....	26.8
1904.....	16.2	1912.....	21.3	1919.....	19.8	1926.....	26.9
1905.....	12.5	1913.....	21.6	1920.....	19.7	1927.....	28.9
1906.....	15.9	1914.....	22.1	1921.....	21.5	1928.....	31.7
1907.....	14.4	1915.....	21.9	1922.....	21.2	1929.....	34.7
1908.....	14.9					1930.....	37.2

STILL BIRTHS

Year	Registered as Births	Ratio per 1,000 Total Births	Year	Registered as Births	Ratio per 1,000 Total Births
1911.....	1,087	19.0	1921.....	3,234	41.7
1912.....	1,256	20.9	1922.....	3,015	40.5
1913.....	1,720	26.0	1923.....	3,028	41.4
1914.....	1,469	21.7	1924.....	2,594	34.9
1915.....	2,246	32.4	1925.....	2,780	38.1
1916.....	2,055	30.5	1926.....	2,812	39.9
1917.....	1,425	22.2	1927.....	2,758	39.5
1918.....	2,198	32.9	1928.....	2,793	39.2
1919.....	2,091	32.2	1929.....	2,730	38.8
1920.....	2,495	33.3	1930.....	2,713	36.6

The number of still births registered as births during the last twenty years is shown above. It will be noted at once that the rates of still-born children to total births has almost doubled in this period and while it is true that it represents between three and four per cent. of all births, nothing is being done in a large way to ascertain the causes of still births. These figures represent only children who had reached "viable age," that is to say, about seven months. How many more children were born prematurely before this period it is impossible to say as it is not considered necessary to register a premature birth as a birth or as a death, which has not reached this age. The saving of these children, if that were possible, would add to the assets of the Province.

PLURAL BIRTHS

There were 839 cases of twins of which 885 were males and 793 females. Of six cases of triplets, 10 were males and eight females.

(See Table 12 for a classification of these.)

CONFINEMENTS

Multiple births.....	845
Single living births.....	69,681
Single still births.....	2,599
	73,125

(See Table 12 for an analysis of above figures.)

BIRTHS BY AGES OF PARENTS

(See Table 7, page 12.)

It may be interesting to note that there were six children born to married mothers under 15 years of age and five to unmarried mothers under 14 years. There were two children born to mothers over 50 years of age and 56 children to fathers over 65 years of age.

MARRIAGES

	1930		1929	
	Number	Ratio	Number	Ratio
Province.....	25,605	7.7	27,605	8.4
Cities.....	15,477	10.6	16,617	11.9
Towns.....	1,979	8.8	2,347	10.9
Rural.....	8,219	5.0	8,641	5.2

NUMBER AND RATIO PER 1000 POPULATION FOR 10 YEARS

Year	Marriages	Ratio	Year	Marriages	Ratio
1921.....	24,871	8.5	1926.....	23,632	7.5
1922.....	23,360	7.8	1927.....	24,677	7.7
1923.....	24,842	8.2	1928.....	25,728	8.0
1924.....	24,038	7.8	1929.....	27,605	8.4
1925.....	23,074	7.4	1930.....	25,605	7.7

The tables dealing with marriages from various angles are numbered 13 to 19.

DEATHS

	1930		1929	
	Number	Ratio	Number	Ratio
Province.....	37,313	11.3	38,123	11.7
Cities.....	17,681	12.1	17,810	12.8
Towns.....	3,041	13.6	3,225	15.0
Rural.....	16,717	10.2	17,088	10.2

There was a numerical decrease of 810 deaths during the year and a decrease of 0.4 in the rate. In comparison with the other Provinces, Ontario had the third highest mortality rate.

The number of deaths for a decade and rates are shown in the following table.

DEATHS AND RATE PER 1,000 OF POPULATION FOR 10 YEARS

Year	Deaths	Ratio	Year	Deaths	Ratio
1921.....	34,551	11.8	1926.....	35,909	11.4
1922.....	34,034	11.4	1927.....	34,775	10.9
1923.....	35,736	11.8	1928.....	37,128	11.5
1924.....	33,078	10.8	1929.....	38,123	11.7
1925.....	33,960	10.9	1930.....	37,313	11.3

TEN HIGHEST CAUSES OF DEATH IN EACH YEAR PER 100,000 OF POPULATION

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
(a) Organic heart disease.....	3,394	3,757	4,373	4,190	4,416	5,132	5,295	5,609	5,891	5,634
	115.6	126.0	144.3	136.8	142.2	163.1	166.1	173.7	180.0	170.0
(b) Pneumonia (all forms).....	3,005	3,137	3,084	2,332	2,468	2,872	2,447	2,736	2,402	2,279
	102.4	105.2	101.8	76.1	79.5	91.5	76.7	84.7	73.4	68.8
(c) Influenza.....	.....	960	2,098	554	1,004	1,598	959	1,711	2,394	854
	.....	32.2	69.2	18.1	32.3	50.8	30.0	52.9	73.2	25.7
(d) Tuberculosis.....	2,083	1,979	1,989	1,823	1,842	1,835	1,803	1,832	1,703	1,791
	71.0	66.4	65.6	59.5	59.3	58.3	56.5	56.7	52.0	54.0
(e) Cancer.....	2,585	2,609	2,724	2,946	2,951	3,116	3,177	3,441	3,402	3,635
	88.1	87.5	90.0	96.2	95.1	99.0	99.6	106.5	104.0	109.7
(f) Accidents and other external causes.....	2,043	1,936	2,025	2,019	2,136	2,170	2,315	2,638	2,706	2,774
	69.7	64.9	66.8	65.9	68.8	69.0	72.6	81.7	82.8	83.7
(g) Apoplexy.....	1,553	1,587	1,552	1,372	1,340	1,405	1,329	1,395	1,319	1,219
	52.9	53.2	51.2	44.8	43.2	44.6	41.7	43.2	40.3	36.8
(h) Diseases of the arteries.....	1,824	2,051	2,129	2,455	2,610	2,718	2,738	3,111	3,270	3,628
	62.2	68.7	70.3	80.1	84.1	86.3	85.9	96.3	99.9	109.3
(i) Infantile diarrhoea.....	1,327	948	692	659	883	615	573	643	740	943
	45.2	31.8	22.8	21.5	28.4	19.5	17.9	19.9	22.6	28.4
(j) Bright's disease.....	978	957	1,193	1,306	1,436	1,568	1,629	1,743	1,760	1,759
	33.3	32.1	39.4	42.6	46.2	49.9	51.1	53.9	53.8	53.1
(k) Diphtheria.....	653	.....	.....	.....	.....	.....	.....	.....	.....	.....
	22.2	.....	.....	.....	.....	.....	.....	.....	.....	.....

In the above table it will be noted that organic diseases of the heart which has held first place as a cause of death for many years still maintains it. There is a decrease in number and in rate, the first decrease since 1924 and whereas the decrease in 1924 was 7.5 in the rate, the decrease between 1929 and 1930 is 10.0 per 100,000 of population.

Deaths from pneumonia, influenza and tuberculosis show the lowest rates in the decade.

This is true also for deaths from apoplexy. It is possible, however, that the low rate is in some measure due to diagnoses attributing a larger number of deaths to diseases of the arteries. This cause shows the highest rate ever reached.

Deaths from external causes continues to increase its rate by a little better than 1 per cent. per annum, i.e., the rate in 1930 is 12.4 per cent. higher than that of 1920.

The rate of deaths from Bright's disease has increased 15.7 per cent. in the decade.

COMMUNICABLE DISEASES

The following table shows the number of deaths and rate per 100,000 population for the communicable diseases:

	1921		1922		1923		1924		1925		1926		1927		1928		1929		1930	
Typoid fever	213	7.2	179	6.0	238	7.9	109	3.5	137	4.4	76	2.4	109	3.4	78	2.4	97	2.9	78	2.3
Smallpox	24	0.8	6	0.2	3	0.1	47	1.5	5	0.1	5	0.1	3	0.0	2	0.0	1	0.0	1	0.0
Measles	54	1.8	67	2.2	109	3.6	180	5.8	80	2.5	156	4.9	82	2.5	62	1.9	143	4.3	95	2.8
Scarlet fever	144	4.9	136	4.4	156	5.1	159	5.1	134	4.3	91	2.9	87	2.7	67	2.0	74	2.2	111	3.3
Whooping cough	310	10.5	200	6.7	318	10.5	147	4.7	273	8.7	245	7.8	181	5.6	175	5.4	194	5.9	180	5.4
Diphtheria	653	22.2	411	13.7	316	10.4	322	10.5	251	8.0	227	7.2	297	9.3	213	6.5	262	8.0	202	6.1
Influenza	509	17.3	960	32.2	2098	69.0	554	18.0	1004	32.3	1588	50.5	959	30.0	1711	52.9	2394	73.2	854	25.7

TUBERCULOSIS

DEATHS IN ONTARIO FROM TUBERCULOSIS BY AGES, 1921-1930

Year	Total	Ratio per 100,000	Under 5 years													80 and over	Not stated	Total deaths from all causes.	
			0-5					5-9	10-14	15-19	20-29	30-39	40-49	50-59	60-69				70-79
			0-1	1	2	3	4												
1921	2,083	71.0	54	36	28	15	9	39	47	162	578	428	259	192	145	80	8	3	34,551
1922	1,979	66.4	45	31	19	16	13	39	51	154	548	408	261	175	127	75	9	8	34,034
1923	1,989	65.6	47	35	18	16	11	52	55	141	507	422	282	168	158	60	10	7	35,636
1924	1,823	59.5	33	27	22	13	14	41	63	127	448	372	242	182	156	77	7	5	30,078
1925	1,842	59.3	50	32	22	22	7	43	46	146	471	361	257	182	132	56	13	2	33,960
1926	1,835	58.3	39	38	21	13	13	36	67	147	428	363	256	181	142	75	15	1	35,909
1927	1,803	56.5	30	27	13	7	11	37	59	171	417	365	279	160	127	72	15	13	34,775
1928	1,832	56.7	29	22	7	15	9	42	61	154	465	338	278	208	125	59	13	7	37,128
1929	1,703	52.0	31	37	15	12	9	42	46	164	415	306	261	157	131	66	9	2	38,123
1930	1,791	54.0	39	30	10	16	7	55	55	159	463	312	238	182	140	72	13	...	37,313

TUBERCULOSIS

NUMBER OF DEATHS IN EACH AGE GROUP AND RATE PER 100,000 POPULATION

	1925		1926		1927		1928		1929		1930													
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female												
	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate												
Under 1 yr.	23	70.4	27	86.1	22	66.5	17	52.4	20	58.9	10	30.9	13	35.4	16	45.3	18	48.4	13	36.3	27	71.7	12	33.1
1 "	17	53.1	13	41.4	24	74.0	14	44.0	12	36.4	15	46.7	9	26.6	13	39.8	24	70.2	13	39.3	15	43.3	15	45.0
2 yrs.	8	25.6	14	45.2	12	36.8	9	28.7	7	21.2	6	18.9	4	10.7	5	8.2	8	21.2	7	19.0	4	10.4	6	16.3
3 "	10	31.2	18	38.6	6	18.5	7	22.0	4	12.0	3	9.4	4	18.8	5	22.0	7	18.3	5	13.6	5	13.1	11	29.4
4 "	2	6.1	5	15.7	3	9.0	10	30.5	5	14.6	6	18.9	4	10.7	5	13.8	4	10.6	5	13.6	1	2.6	6	16.2
5 to 9 "	22	13.3	21	13.0	13	7.8	23	14.0	16	9.4	21	12.7	19	10.7	23	13.0	23	12.5	19	10.6	28	15.0	27	14.9
10 " 14 "	17	11.3	29	20.0	30	20.0	37	25.2	26	17.0	33	22.3	18	10.3	43	25.6	16	9.0	30	17.6	20	11.2	35	20.2
15 " 19 "	60	41.9	86	69.7	47	34.0	100	73.8	47	33.6	124	90.2	60	36.0	94	57.0	67	39.7	97	58.0	49	22.8	110	65.0
20 " 24 "	84	66.1	158	124.9	82	63.1	121	95.1	80	63.0	128	95.8	100	64.2	152	95.3	93	58.9	106	65.6	120	75.2	136	83.2
25 " 29 "	104	81.9	125	99.7	94	72.4	131	103.4	92	71.4	117	89.7	103	76.4	110	81.5	103	75.4	113	82.6	99	71.6	108	78.0
30 " 34 "	104	80.6	95	81.2	91	74.8	102	86.0	91	73.7	97	80.6	87	75.1	107	94.7	86	73.2	79	69.0	74	62.3	93	80.1
35 " 39 "	107	91.8	55	47.5	92	78.4	78	66.0	97	78.4	80	70.5	76	72.0	68	67.5	88	82.3	53	51.9	82	75.7	63	61.1
40 " 44 "	71	70.7	74	75.8	87	85.8	60	60.3	77	73.2	64	65.1	86	94.2	76	87.1	90	97.3	48	54.3	75	80.1	56	62.4
45 " 49 "	73	85.7	39	45.7	67	78.2	42	48.2	72	79.1	66	78.6	70	88.6	46	62.1	74	92.6	49	65.3	59	72.8	48	63.4
50 " 59 "	110	81.1	72	54.6	98	71.3	83	63.1	85	60.3	75	60.2	126	103.9	82	71.7	108	87.9	49	42.3	119	95.7	63	53.8
60 " 69 "	79	89.3	53	60.3	83	92.7	59	63.1	68	73.4	59	66.7	65	80.6	60	80.9	78	95.5	53	70.5	100	120.9	40	52.6
70 " 79 "	32	77.2	24	58.9	45	107.2	30	72.9	38	92.4	34	81.0	31	79.1	28	76.5	33	83.2	33	89.0	43	107.4	29	76.9
80 yrs. and over...	6	45.6	7	52.9	3	19.3	12	93.4	7	54.8	8	55.8	6	48.8	7	59.4	4	32.1	7	58.6	6	47.6	7	57.2
Total.....	930	59.4	912	59.4	899	56.6	936	60.1	851	52.8	952	60.4	898	55.0	944	59.0	924	55.9	779	48.0	926	55.5	865	52.9

The following Table is appended to allow a comparison in respect to births classified according to place of occurrence and place of residence. In the first column appears the number of deaths which took place in the various counties followed by the rate per 1,000 population and the third column shows the number of deaths of residents of the county having regard to residence only and not to the place of death, so that where the third column contains a larger number than the first column it shows that a number of the residents died in some other county and where the number in the first column is greater than in the third, the difference would indicate a balance of non-residents.

DEATHS FROM TUBERCULOSIS, 1930

“PLACE OF OCCURRENCE” AND “PLACE OF RESIDENCE” COMPARED

	Place of Occurrence		Place of Residence			Place of Occurrence		Place of Residence	
	Number	Rate	Number	Rate		Number	Rate	Number	Rate
Addington.....	3	40.0	3	40.0	Middlesex.....	120	100.9	65	54.6
Algoma.....	22	44.3	28	51.3	Muskoka.....	53	264.5	14	69.3
Brant.....	22	39.4	22	39.4	Nipissing.....	12	29.1	19	40.6
Bruce.....	16	35.0	22	48.2	Norfolk.....	2	7.6	2	7.6
Carleton.....	95	54.9	82	47.4	Northumberland.....	17	52.0	19	58.0
Cochrane.....	34	106.7	38	109.2	Ontario.....	28	49.0	35	61.2
Dufferin.....	3	19.2	5	32.1	Oxford.....	13	24.9	19	36.4
Dundas.....	9	48.9	12	65.3	Parry Sound.....	9	31.3	13	45.2
Durham.....	12	46.9	15	58.7	Peel.....	5	19.8	8	31.7
Elgin.....	15	31.5	21	44.1	Perth.....	13	26.6	17	34.8
Essex.....	75	52.3	84	58.6	Peterborough.....	14	31.0	21	51.4
Frontenac.....	51	110.7	40	69.6	Prescott.....	18	64.8	15	54.0
Gengarry.....	13	59.8	15	68.9	Prince Edward.....	4	22.5	3	16.8
Grenville.....	11	63.9	13	75.4	Rainy River.....	13	95.7	14	104.2
Grey.....	25	40.8	27	44.1	Renfrew.....	24	42.9	25	44.7
Haldimand.....	4	17.7	6	26.6	Russell.....	6	26.6	8	35.5
Haliburton.....	.....	.....	.....	.....	Simcoe.....	47	53.8	56	64.2
Halton.....	3	11.4	7	26.5	Stormont.....	25	83.9	23	77.2
Hastings.....	24	42.9	23	41.1	Sudbury.....	36	66.2	38	70.0
Huron.....	19	39.2	19	39.2	Thunder Bay.....	43	71.2	53	87.8
Kenora.....	27	117.2	28	121.7	Temiskaming.....	13	41.0	24	75.8
Kent.....	16	24.6	20	30.8	Victoria.....	7	25.0	9	32.1
Lambton.....	27	47.4	29	51.0	Waterloo.....	43	47.2	46	50.5
Lanark.....	12	34.7	14	40.4	Welland.....	24	34.5	43	61.7
Leeds.....	23	65.0	28	79.2	Wellington.....	16	26.9	19	32.0
Lennox.....	4	32.5	6	48.7	Wentworth.....	104	55.7	70	37.5
Lincoln.....	26	44.5	17	29.1	York.....	456	61.1	427	55.9
Manitoulin.....	35	30.0	37	31.7					

CANCER

Table showing the distribution of deaths from various types according to class and rates per 100,000 of population as follows:

	1921		1922		1923		1924		1925		1926		1927		1928		1929		1930	
Buccal cavity.....	98	3.3	94	3.1	134	4.4	162	5.2	142	4.6	134	4.3	141	4.4	132	4.1	155	4.7	124	3.7
Stomach.....	860	29.3	869	29.2	938	31.0	1023	33.4	1050	33.8	1111	35.4	1115	34.9	1205	37.3	1139	34.8	1200	36.2
Peritoneum.....	391	13.0	438	14.7	428	14.1	462	15.0	481	15.5	513	16.3	526	16.5	605	18.7	627	19.2	629	18.9
Female genital organs.....	236	8.0	244	8.2	283	9.4	323	10.5	333	10.7	353	11.2	348	10.9	337	10.4	355	10.8	400	12.3
Breast.....	235	8.0	231	7.7	279	9.2	320	10.4	331	10.7	307	9.8	310	9.8	344	10.7	333	10.2	415	12.5
Skin.....	66	2.2	77	2.6	81	2.7	85	2.7	81	2.6	88	2.8	75	2.3	72	2.2	75	2.3	87	2.6
Other or Un-specified.....	699	24.1	656	22.0	531	19.2	571	18.6	533	17.2	610	19.4	622	20.8	746	23.1	718	22.0	780	23.5
Total.....	2585	88.1	2609	87.5	2724	90.0	2946	96.2	2951	95.1	3116	99.0	3177	99.6	3441	106.5	3402	104.0	3635	109.7

PERCENTAGE OF INCREASE OVER PRECEDING YEAR

1921.....	4.9	1926.....	5.5
1922.....	0.9	1927.....	1.7
1923.....	4.4	1928.....	8.3
1924.....	8.1	1929.....	...
1925.....	...	1930.....	6.8

	Males	Females
Cancer of the buccal cavity.....	108	16
“ “ stomach and liver.....	673	527
“ “ peritoneum, intestines and rectum.....	313	316
“ “ female genital organs.....	3	400
“ “ breast.....	50	412
“ “ skin.....	497	37
“ “ other or unspecified organs.....		283

The following table shows the difference in rates for the years 1910, 1920 and 1930:

	1910		1920		1930	
	No. of Deaths	Rate	No. of Deaths	Rate	No. of Deaths	Rate
Buccal cavity.....	87	3.8	117	4.0	124	3.7
Stomach and liver.....	529	23.6	762	26.3	1,200	36.2
Peritoneum and intestines.....	176	7.8	396	13.6	629	18.6
Female genital organs.....	142	6.3	234	8.4	400	12.0
Breast.....	120	5.3	198	6.8	415	12.5
Skin.....	23	1.0	49	1.7	87	2.6
Other organs.....	510	22.8	688	23.7	780	23.5

SPECIFIC DEATH RATES PER 100,000 POPULATION FROM CANCER
BY AGE GROUPS

	1925-1929		1930	
	No. of Deaths	Ratio	No. of Deaths	Ratio
Under 30.....	318	3.2	58	2.5
30-39.....	620	28.7	147	32.8
40-49.....	1,758	107.5	400	117.6
50-59.....	3,156	284.0	707	292.3
60-69.....	4,687	613.8	1,061	668.5
70-79.....	3,979	1,064.6	915	1,175.2
80 and over.....	1,569	1,321.6	347	1,397.9

CANCER

NUMBER OF DEATHS AND RATE PER 100,000 POPULATION BY AGE GROUPS

	1926				1927				1928				1929				1930			
	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate	Male	Rate	Female	Rate
Under 5 yrs.	7	4.2	8	5.0	10	5.5	7	4.0	3	1.6	8	4.5	12	6.5	6	3.5	5	2.6	5	2.7
5 to 9 yrs.	4	2.3	4	1.4	4	2.2	3	1.7	3	1.6	7	3.9	1	0.5	3	1.7	1	0.5	1	0.5
10 to 14 "	4	2.0	2	1.4	1	2.5	1	0.6	1	0.6	5	2.9	5	2.8	2	1.2	1	0.5	3	1.7
15 to 19 "	6	4.3	3	2.2	4	2.4	3	1.8	4	2.4	4	2.4	6	3.5	6	2.6	2	1.1	3	1.7
20 to 24 "	4	3.0	8	6.2	3	1.9	7	4.4	10	6.3	8	5.0	8	5.1	2	1.2	11	6.8	5	3.0
25 to 29 "	8	6.1	8	6.3	10	7.5	11	8.2	5	3.7	9	6.6	7	5.1	10	7.3	6	4.3	16	11.5
30 to 34 "	9	7.4	29	24.4	22	19.2	37	33.1	16	13.8	26	23.0	15	12.8	36	31.4	27	22.7	27	22.8
35 to 39 "	27	23.0	55	46.5	22	21.1	52	51.3	26	24.6	47	46.6	20	18.7	67	65.6	32	29.4	61	59.1
40 to 44 "	41	40.4	89	89.6	51	56.6	86	99.9	53	58.0	95	108.9	45	48.6	105	118.8	54	57.7	128	142.8
45 to 49 "	88	102.7	141	161.9	62	79.5	147	201.3	83	105.1	155	209.0	64	80.0	137	182.7	68	83.9	150	198.0
50 to 54 "	94	122.9	165	231.3	100	148.6	167	261.3	107	157.0	183	282.6	113	160.3	212	323.1	123	176.0	192	377.0
55 to 59 "	133	218.5	202	336.1	181	345.4	191	391.1	180	339.1	221	446.6	149	277.1	189	377.0	144	191.8	248	589.0
60 to 64 "	180	343.3	216	420.3	204	442.6	245	573.7	236	505.5	249	575.3	239	505.3	220	502.0	212	242.8	259	585.8
65 to 69 "	251	678.0	224	591.6	234	699.1	245	804.3	281	828.7	244	790.5	274	797.3	261	834.6	294	868.6	296	930.3
70 to 74 "	208	764.5	212	835.1	212	885.8	188	837.3	242	998.2	234	1028.5	250	1017.9	215	934.5	281	1425.6	231	982.3
75 to 79 "	178	1109.3	190	1208.1	186	1263.9	159	1164.0	185	1241.1	212	1531.5	196	1298.0	201	1433.6	218	1360.1	185	1303.0
80 to 84 "	106	2713.7	93	2478.6	113	2840.6	103	2721.9	87	2159.3	107	2790.9	115	2817.2	93	2394.4	111	1348.4	112	1399.6
85 to 89 "	41	2855.0	54	3693.5	28	1924.3	49	3323.0	39	2645.8	39	2608.6	57	3817.8	45	2972.2	43	1421.9	49	1479.9
90 to + "	11	2226.7	15	2678.5	10	1934.2	17	3008.8	9	1717.5	16	2792.3	5	941.6	10	1724.1	12	892.8	19	1949.9
Not stated	2	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	1400	83.2	1716	110.0	1458	90.7	1719	108.9	1571	96.3	1870	116.9	1582	95.7	1820	112.4	1644	97.8	1991	121.9

MATERNAL MORTALITY

Province—440, being 6.18 deaths per 1,000 births.
 Cities and towns—279, being 6.84 deaths per 1,000 births.
 Rural—161, being 5.32 deaths per 1,000 births.

NUMBER OF DEATHS AND RATE PER 1,000 LIVING BIRTHS

	Province			Cities			Towns			Rural		
	Births	Deaths	Rate	Births	Deaths	Rate	Births	Deaths	Rate	Births	Deaths	Rate
1921	74,152	387	5.2	32,260	189	5.9	4,876	26	5.3	37,016	172	4.6
1922	71,320	370	5.2	30,645	178	5.8	4,855	34	7.0	35,820	158	4.4
1923	70,056	369	5.3	30,334	182	6.0	4,911	40	8.2	34,810	147	4.2
1924	71,510	418	5.8	30,857	214	6.9	5,071	45	8.9	35,582	159	4.5
1925	70,122	388	5.5	30,938	200	6.5	5,536	33	6.0	33,639	155	4.6
1926	67,617	381	5.6	29,633	226	7.6	3,980	30	7.5	34,004	125	3.7
1927	67,671	403	6.0	30,393	246	8.1	4,041	32	7.9	33,237	125	3.8
1928	68,510	396	5.8	31,602	260	8.2	5,939	29	4.9	30,969	105	3.4
1929	68,485	368	5.4	32,478	224	6.9	6,288	38	6.0	29,692	106	3.6
1930	71,263	440	6.2	34,380	242	7.0	6,456	37	5.7	30,380	161	5.3

PUERPERAL DEATHS BY AGE GROUPS

	Totals	Ages at Death						
		15-49 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years
Totals	440	33	88	99	87	87	37	9
Rate per 100,000 Females	26.9	20.2	53.8	60.6	53.2	53.2	22.6	5.5
Accidents of pregnancy	28	2	4	9	6	5	2	.....
Puerperal haemorrhage	39	4	9	3	8	10	5	.....
Other accidents of labour	55	3	8	10	14	9	8	3
Albuminuria and convulsions	110	6	20	26	25	22	9	2
Puerperal septicaemia	153	13	36	38	26	27	9	4
Other puerperal causes	55	5	11	13	8	14	4	.....

DEATHS OF FEMALES FROM PUERPERAL CAUSES AND FROM ALL CAUSES BY AGES—1930

Ages 15-49	Deaths from		Deaths from puerperal causes per 100 deaths from all causes
	All causes	Puerperal causes	
15-19	337	33	9.80
20-24	409	88	21.51
25-29	420	99	23.57
30-34	434	87	20.04
35-39	526	87	16.53
40-44	604	37	6.12
45-99	683	9	1.31

DEATHS AND DEATH RATES PER 1,000 TOTAL BIRTHS (INCLUDING STILL-BIRTHS) FROM SPECIFIED PUERPERAL CAUSES

	All Puerperal Causes			Accidents of Pregnancy			Puerperal Haemorrhage			Other accidents of labour			Puerperal Septicaemia			Albuminuria and Convulsions			Other Puerperal Causes		
	Deaths	Rate	Per cent.	Deaths	Rate	Per cent.	Deaths	Rate	Per cent.	Deaths	Rate	Per cent.	Deaths	Rate	Per cent.	Deaths	Rate	Per cent.	Deaths	Rate	Per cent.
1921...	387	5.00	100.0	98	1.26	25.3	47	.61	12.1	48	.62	12.4	75	9.97	19.4	81	1.04	20.9	38	.49	9.8
1922...	370	4.96	100.0	78	1.05	21.0	55	.74	14.9	42	.56	11.3	59	7.79	15.9	85	1.14	23.0	51	.68	13.8
1923...	369	5.05	100.0	53	.73	14.4	28	.38	7.6	29	.40	7.9	116	1.59	31.4	97	1.33	26.3	46	.63	12.4
1924...	418	5.60	100.0	54	.73	12.9	37	.50	8.9	53	.71	12.7	120	1.62	28.7	98	1.32	23.4	56	.75	13.4
1925...	388	5.32	100.0	45	.62	12.6	51	.70	13.1	47	.64	12.1	103	1.41	26.6	91	1.25	23.5	51	.70	13.1
1926...	381	5.41	100.0	40	.57	10.5	40	.57	10.5	51	.72	13.4	118	1.68	31.0	95	1.35	24.9	37	.52	9.7
1927...	403	5.72	100.0	30	.43	7.4	49	.70	12.2	38	.54	9.4	143	2.03	35.5	106	1.51	26.3	37	.52	9.2
1928...	396	5.55	100.0	36	.50	9.1	45	.63	11.4	51	.71	12.9	120	1.68	30.3	97	1.36	24.5	47	.66	11.9
1929...	368	5.16	100.0	24	.33	6.5	45	.63	12.2	56	.78	15.2	112	1.57	30.4	79	1.10	21.8	52	.73	14.1
1930...	440	6.2	100.0	28	.37	6.3	39	.52	11.8	55	.74	15.9	153	2.07	34.5	110	1.48	24.9	55	.74	16.8

The following table shows the percentage rates from the different types of puerperal causes:

DEATHS FROM SPECIFIED PUERPERAL CAUSE PER 100 DEATHS FROM ALL PUERPERAL CAUSES BY AGE, ONTARIO, 1930

	Total 15-19	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
Total puerperal causes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Accidents of pregnancy.....	6.3	6.06	4.54	9.09	6.89	5.74	5.40	.....
Puerperal haemorrhage.....	8.8	12.12	10.22	3.03	9.19	11.49	13.51	.....
Other accidents of labour....	12.4	9.09	9.09	10.10	16.09	10.34	21.62	33.3
Puerperal septicaemia.....	34.7	39.39	40.90	38.38	29.88	31.03	24.32	44.4
Albuminuria and convulsions	24.9	18.18	22.72	26.00	28.73	25.28	24.32	22.2
Other puerperal causes.....	12.5	15.15	12.50	13.13	9.19	16.09	10.81	.....

DEATHS OF WOMEN NOT CLASSIFIED TO PREGNANCY OR CHILD-BEARING BUT
RETURNED AS ASSOCIATED THEREWITH, ONTARIO, 1930

Int. List No.	Causes of Death	Number
	All causes	58
007	Measles	1
008	Scarlet fever	2
010	Diphtheria	1
011	Influenza	5
021	Erysipelas	2
031	Tuberculosis of the respiratory system	10
037a	Acute disseminated tuberculosis	1
038	Syphilis	1
040	Gonococcus infection	1
046	Cancer of the female genital organs	1
049e	Cancer of genito-urinary system	1
050	Benign tumours and tumours not returned as malignant (tumours of female genital organs excepted)	1
063	Diseases of the adrenals (Addison's disease)	1
090a	Valvular disease	6
090d	Chronic endocarditis	2
090e	Chronic myocarditis	1
100a	Broncho-pneumonia	1
101a	Lobar pneumonia	5
102	Pleurisy	1
109b	Diseases of the pharynx and tonsils	1
112	Other diseases of the stomach (cancer excepted)	1
117	Appendicitis and typhlitis	2
120	Acute yellow atrophy of the liver	3
185	Accidental traumatism by fall	1
199	Homicide	6

INFANT MORTALITY

DEATHS OF CHILDREN UNDER ONE YEAR—PRINCIPAL CAUSES OF DEATH

(A) TOTAL DEATHS

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	Mean
Total	6,763	5,921	5,950	5,418	5,530	5,302	4,812	4,880	5,203	5,260	5,503.9
1. Whooping cough	211	112	191	92	169	153	121	114	121	127	141.1
2. Influenza		101	236		123	164	96	144	208	85	115.7
3. Convulsions	170	146	113	128	107	102	84	89	64	57	106.0
4. Respiratory diseases	825	749	826	647	643	687	510	588	576	595	664.6
5. Diseases of digestive tract	1,176	810	741	650	767	594	564	690	795	989	777.6
6. Malformations	470	488	492	553	567	481	439	430	459	454	483.3
7. Congenital weakness	2,908	2,859	2,723	2,596	2,440	2,501	2,414	2,323	2,460	2,403	2,562.7
8. All others	1,003	656	628	752	714	620	584	502	521	550	653.0

(B) RATE PER 1,000 LIVING BIRTHS

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	Mean
Total	91.2	82.9	84.9	75.8	78.9	78.4	71.1	71.2	76.0	73.9	78.83
1. Whooping cough	2.9	1.6	2.7	1.3	2.4	2.2	1.8	1.7	1.8	1.8	2.02
2. Influenza		1.4	3.4		1.8	2.4	1.4	2.1	3.0	1.2	1.67
3. Convulsions	2.3	2.0	1.6	1.8	1.5	1.5	1.2	1.3	0.9	0.8	1.49
4. Respiratory diseases	11.1	10.5	11.8	9.1	9.2	10.3	7.5	8.6	8.4	8.3	9.48
5. Diseases of digestive tract	15.9	11.4	9.3	9.1	10.9	8.8	8.3	10.0	11.6	13.8	10.90
6. Malformations	6.3	6.8	7.0	7.7	8.1	7.1	6.5	6.3	6.7	6.4	6.91
7. Congenital weakness	39.3	40.0	38.8	36.3	34.8	37.0	35.7	33.9	35.9	33.7	36.54
8. All others	13.5	9.2	10.3	10.5	10.2	9.2	8.6	7.3	7.7	7.7	9.42

The above tables indicate a slight increase in the number of deaths of children under one year of age, with a decrease in the rate of 7.9 per 1,000 living births. This is the greatest decrease since 1924 when the rate dropped 9.1 and it is not the lowest rate by 2.8, the lowest rate being 71.1 reached in 1927.

The chief causes remain unaltered. For a further analysis of causes of death of children under one year, see Tables 26 and 27.

As to ages, *i.e.*, by days, weeks, months, see Table 23. It will be noted that about 20 per cent. of all children who die under one year of age die before they have completed one full day. Over 39 per cent. do not live to complete one full week and over 52 per cent. do not complete one month.

The death rate since 1901 when it was 120.0 per 1,000 living births has declined to 73.9 at which it stands to-day.

In other words over 7 per cent. of all babies born alive die under one year and of those who die in the first year of life, one-fifth die before they are 24 hours old, one-third before they are one week old, one-half before they are a month old.

DEATHS FROM EXTERNAL CAUSES (EXCLUDING SUICIDES)

The following table shows the chief causes of accidental deaths, and rate per 100,000 of population:

	1921		1922		1923		1924		1925		1926		1927		1928		1929		1930	
Total.....	1,893	64.52	1,807	60.60	1,791	59.11	1,760	57.45	1,871	60.28	1,901	60.41	1,997	62.66	2,355	72.90	2,386	72.94	2,370	71.53
Burns.....	108	3.68	133	4.46	133	4.39	113	3.69	122	3.95	130	4.27	104	3.26	143	4.42	124	3.79	117	3.53
Drowning....	358	12.21	277	9.29	266	8.58	308	10.05	326	10.48	298	9.78	313	9.82	373	11.5	302	9.24	341	10.29
Falls.....	128	4.36	128	4.29	242	7.99	198	6.46	190	6.11	259	8.50	266	8.34	325	10.0	384	11.75	450	13.57
Railroads....	117	3.99	123	4.13	160	5.28	169	5.52	115	3.70	208	6.83	160	5.02	168	5.20	159	4.86	163	4.91
Automobiles..	108	3.68	103	3.45	208	6.87	205	6.69	256	8.24	242	7.96	387	12.1	437	13.5	556	16.99	517	15.50
Fractures....	301	10.26	247	8.28	145	4.78	169	5.52	196	6.41	199	6.54	192	6.02	191	5.91	43	2.84	63	1.90
Other Acci- dents.....	773	26.3	796	26.7	637	21.0	598	19.5	666	21.4	565	17.9	575	18.0	718	22.2	768	23.47	719	21.70

In the above table will be noted the increase in the number of deaths from falls, the highest rate ever reached; over 14 per cent. of all accidental deaths were from falls. Automobiles, while claiming 49 fewer lives, accounted for 21.8 per cent. of accidental deaths and drowning took 14.39 per cent., and 30.3 per cent. were accounted for by many other types of accidents.

Table 1—General Summary of Births, Deaths and Marriages in the Province of Ontario by County Municipalities (including Cities and Towns), 1930

COUNTIES	Estimated population	BIRTHS (exclusive of still-births)				Ratio per 1,000 of population	DEATHS								Ratio per 1,000 of population	Still-births	Marriages	Ratio per 1,000 of population
		All ages			Under 1 year		1-4 years		5 years and over									
		Total	M	F	Total		M	F	M	F	M	F	M	F				
Total.....	3,313,000	71,263	36,392	34,871	21.5	37,313	19,827	17,486	2,962	2,298	723	572	16,142	14,616	11.3	2,713	25,605	7.7
Addington.....	7495	129	68	61	17.2	80	45	35	6	4	3	3	36	31	10.7	3	25	3.3
Algoma.....	49795	1079	568	511	21.7	441	269	172	47	36	11	16	211	120	8.8	39	353	7.1
Brant.....	55841	1052	539	513	18.9	642	319	323	54	43	10	8	255	272	11.5	38	378	6.8
Bruce.....	45717	760	407	353	16.6	518	256	262	29	17	10	3	217	242	11.3	29	300	6.5
Carleton.....	173049	3693	1868	1825	21.4	2032	1082	950	227	164	48	46	807	740	11.8	44	1159	6.7
Cochrane.....	31873	1654	839	815	51.8	460	282	178	100	77	29	20	153	81	14.4	44	378	11.8
Dufferin.....	15604	279	146	133	17.9	176	109	67	8	6	4	1	97	60	11.3	8	87	5.6
Dundas.....	18392	288	148	140	15.6	206	93	113	12	9	1	3	101	111	12.2	11	72	3.9
Durham.....	25567	456	236	220	17.8	301	165	136	13	20	8	6	144	113	11.8	24	149	5.5
Elgin.....	47684	643	330	313	13.5	528	292	236	33	17	2	6	257	213	11.1	26	265	5.5
Essex.....	143247	4038	2073	1965	28.2	1445	786	659	162	117	46	37	578	505	10.1	131	1430	10.0
Frontenac.....	46016	974	490	484	21.2	728	405	323	48	37	7	4	350	282	15.8	43	309	6.7
Glengarry.....	21765	335	189	146	18.4	193	100	93	18	8	6	4	76	81	8.9	14	91	4.2
Grenville.....	17322	241	119	122	14.0	223	116	107	9	8	3	2	104	97	12.9	9	93	5.4
Grey.....	61209	1074	583	491	17.5	650	333	317	32	19	10	3	291	295	10.6	59	363	5.9
Haldimand.....	22571	352	153	199	15.6	253	134	119	16	14	2	2	116	101	11.2	11	144	6.4
Haliburton.....	6620	147	75	72	22.2	50	32	18	9	7	2	1	23	11	7.5	4	27	4.1
Halton.....	26355	336	175	161	12.7	228	118	110	15	10	2	2	101	100	8.7	15	162	6.1
Hastings.....	55975	1310	698	612	21.9	758	404	354	65	53	12	15	327	286	12.8	42	420	7.0
Huron.....	48433	805	406	399	16.6	549	273	276	30	15	8	2	235	259	11.8	34	244	5.0
Kenora.....	23035	461	227	234	20.0	196	133	63	20	19	8	3	105	41	8.3	9	111	4.8
Kent.....	64925	1342	705	637	20.7	758	409	349	57	41	17	11	335	297	11.8	43	414	6.4
Lambton.....	56938	906	503	493	17.7	643	359	284	34	22	10	9	315	253	11.3	45	306	5.4
Lanark.....	34609	683	329	354	19.7	404	217	187	24	19	5	4	188	166	11.7	16	208	6.0
Leeds.....	35410	681	343	338	19.5	521	275	246	24	16	3	4	248	226	14.7	30	205	5.8
Lennox.....	12313	193	93	100	15.7	121	62	59	5	1	1	2	56	56	9.8	3	72	5.8
Lincoln.....	58483	1069	563	506	18.3	609	316	293	33	36	10	8	273	249	10.4	31	430	7.4
Manitowlin.....	10665	233	111	122	21.8	137	68	69	8	11	9	6	51	52	12.8	11	77	7.2
Middlesex.....	118892	2010	1017	993	16.9	1628	832	796	81	56	10	15	741	725	13.7	82	812	6.8
Muskoka.....	20189	432	221	211	19.8	248	138	110	15	14	3	6	120	90	11.4	15	130	5.9
Nipissing.....	41291	1182	598	584	28.6	433	243	190	79	61	15	12	149	117	10.5	39	283	6.8
Norfolk.....	26316	627	331	296	23.8	360	199	161	26	25	4	3	169	133	13.7	23	177	6.7
Northumberland.....	32737	533	281	252	16.8	445	224	221	17	14	8	3	199	204	13.6	18	165	5.0
Ontario.....	57123	1238	617	621	22.6	693	354	339	56	45	5	8	393	286	12.1	49	374	6.5
Oxford.....	52207	905	457	448	17.3	572	288	284	31	23	3	9	254	252	10.9	30	287	5.5
Parry Sound.....	28768	592	296	296	20.6	234	125	109	20	28	5	8	100	73	8.1	28	163	5.7
Peel.....	25235	423	201	222	16.8	285	156	129	11	10	4	3	141	116	11.3	17	147	5.8
Perth.....	48824	904	429	475	18.5	548	279	269	27	20	9	4	243	245	11.2	33	288	5.9
Peterborough.....	45277	894	480	414	19.6	470	256	214	33	26	11	4	212	184	10.4	52	285	6.3
Prescott.....	27786	710	356	354	25.6	293	149	144	39	31	6	6	104	107	10.5	23	132	4.8
Prince Edward.....	17782	304	157	147	17.1	237	119	118	13	8	1	2	105	108	13.3	10	94	5.3
Rainy River.....	13428	367	181	186	27.3	160	113	47	20	8	12	4	81	35	11.9	11	85	6.3
Renfrew.....	55983	1275	634	641	22.8	585	304	281	68	48	15	8	221	225	10.4	58	284	5.1
Russell.....	22580	517	261	256	22.9	199	112	87	32	17	13	10	67	60	8.8	15	102	4.5
Simcoe.....	87385	1570	807	763	18.0	1005	529	476	65	46	17	14	447	416	11.5	60	516	5.9
Stromont.....	29798	890	433	457	29.8	431	238	193	46	33	5	6	187	154	14.5	60	202	6.7
Sudbury.....	54346	1752	903	849	32.2	642	416	226	96	81	35	26	285	119	11.8	72	589	10.8
Thunder Bay.....	60464	1376	707	669	22.8	531	319	212	53	41	17	10	249	161	8.8	44	468	7.7
Timiskaming.....	31670	912	476	436	28.8	265	152	113	39	38	12	14	101	61	8.4	19	253	8.0
Victoria.....	27990	462	250	212	16.0	320	168	152	11	12	5	4	152	136	11.4	24	165	5.9
Waterloo.....	91178	1896	1015	881	20.8	910	457	453	55	49	19	12	383	392	10.0	66	707	7.7
Welland.....	69685	1688	826	862	24.2	795	433	362	63	66	10	14	360	282	11.4	70	730	10.5
Wellington.....	59432	1184	593	591	16.8	741	392	349	42	46	14	4	336	299	11.5	59	358	5.6
Wentworth.....	186480	3811	1933	1878	20.4	1896	961	935	122	85	35	26	804	824	10.1	151	1638	8.8
York.....	763336	17506	8948	8558	22.9	8537	4419	4118	664	521	145	115	3610	3482	11.2	717	7908	10.3

Table 1A—General Summary of Births, Deaths and Marriages, and the ratio per 1,000 of population in each county (excluding cities and towns of 5,000 population and over), Ontario, 1930

COUNTIES	Estimated population	BIRTHS (exclusive of still-births)			Ratio per 1,000 of population	DEATHS								Ratio per 1,000 of population	Still-births	Marriages	Ratio per 1,000 of population	
		Total	M	F		All ages			Under 1 year		1-4 years		5 years and over					
						Total	M	F	M	F	M	F	M					F
Total, including all municipalities.....	3,313,000	71,263	36,392	34,871	21.5	37,313	19,827	17,486	2,962	2,298	723	572	16,142	14,616	11.3	2,713	25,605	7.7
Total, excluding cities and towns of 5,000 and over.....	1,642,695	30,380	15,520	14,860	18.5	16,717	8,983	7,734	1,187	971	308	252	7,488	6,511	10.1	1,091	8,219	5.0
Addington.....	7495	129	68	61	12.2	80	45	35	6	4	3	3	36	31	10.7	3	25	3.3
Algonia.....	26951	437	232	205	16.2	211	132	79	16	16	6	10	110	53	7.8	21	128	4.7
Brant.....	25738	320	179	141	12.4	247	133	114	16	7	6	4	111	103	9.6	9	99	3.8
Bruce.....	45717	760	407	353	16.6	518	256	262	29	17	10	3	217	242	11.3	29	300	6.6
Carleton.....	41353	453	239	214	10.9	231	126	105	22	14	2	1	102	90	5.6	17	133	3.2
Cochrane.....	19334	1148	581	567	59.4	334	204	130	71	53	22	15	111	62	17.3	30	226	11.7
Dufferin.....	15604	279	146	133	17.9	176	109	67	8	6	4	1	97	60	11.3	8	87	5.6
Dundas.....	18392	288	148	140	15.6	206	93	113	12	9	1	3	80	101	11.2	11	72	3.9
Durham.....	25567	456	236	220	17.8	301	165	136	13	20	8	3	144	113	11.8	24	140	5.5
Elgin.....	30815	321	174	147	10.4	300	163	137	14	9	8	6	149	122	9.7	17	120	3.9
Essex.....	28662	1211	606	605	51.4	441	249	192	44	44	14	13	191	135	18.7	27	226	9.6
Frontenac.....	24400	315	163	152	12.9	216	128	88	11	8	2	2	116	78	8.8	9	78	3.2
Glengarry.....	21765	335	189	146	15.4	193	100	93	18	8	6	4	76	81	8.9	14	91	4.2
Grenville.....	17232	241	119	122	14.0	223	116	107	9	8	3	2	104	97	12.9	9	93	5.4
Grey.....	48431	761	404	357	15.7	493	246	247	24	13	8	2	214	232	10.2	29	226	4.7
Halidimand.....	22571	352	153	199	15.6	253	134	119	16	14	2	4	116	101	11.2	11	144	6.4
Haliburton.....	6620	147	75	72	22.2	50	32	18	9	7	3	2	23	11	7.5	4	27	4.1
Halton.....	26355	336	175	161	12.7	228	118	110	15	10	2	2	101	100	8.7	15	162	6.1
Hastings.....	36807	773	406	367	21.0	440	221	219	40	32	9	8	172	179	11.9	19	180	4.4
Huron.....	48433	805	406	399	16.6	549	273	276	30	15	8	2	235	259	11.2	34	244	5.0
Kenora.....	15249	293	131	162	19.2	133	93	40	13	13	5	2	75	25	8.7	6	66	4.3
Kent.....	48484	777	412	365	16.0	438	240	198	29	22	11	9	200	167	9.0	22	260	5.4
Lambton.....	39935	546	281	265	13.7	405	218	187	20	14	4	4	194	169	10.1	21	175	4.4
Lanark.....	27157	498	247	251	18.4	307	162	145	15	15	3	2	144	128	11.3	15	160	5.9
Leeds.....	25978	411	203	208	15.8	334	179	155	10	8	1	3	168	144	12.8	14	123	4.7
Lennox.....	12313	193	93	100	15.7	121	62	59	5	1	1	2	56	56	9.8	3	72	5.8
Lincoln.....	33136	398	205	193	12.0	287	160	127	14	13	4	2	142	112	8.7	11	77	6.7
Manitoulin.....	10665	233	111	122	21.9	137	68	69	8	11	9	6	51	52	12.8	7	151	6.6
Middlesex.....	49150	832	422	410	20.9	548	294	254	18	20	2	4	277	230	11.7	14	186	3.8
Muskoka.....	20189	432	221	211	20.9	248	138	110	15	14	3	6	120	90	12.3	15	130	6.4
Nipissing.....	25313	765	390	375	30.4	253	138	115	53	40	9	9	76	66	10.0	20	158	6.2
North York.....	26316	627	331	296	29.5	360	199	161	26	25	4	3	169	133	16.9	23	177	8.3
Northumberland.....	27093	385	213	172	14.2	319	176	143	10	9	5	1	161	133	11.8	13	117	4.2
Ontario.....	26110	507	259	248	19.4	298	155	143	22	11	1	6	132	126	11.4	17	136	5.2
Oxford.....	36159	494	237	257	13.7	354	179	175	16	13	1	3	162	159	9.8	16	153	4.2
Parry Sound.....	28768	592	296	296	20.6	234	125	109	20	28	5	8	100	73	8.1	28	163	5.7
Peel.....	20098	245	125	120	12.2	198	112	86	4	7	4	2	104	77	9.9	13	106	5.3
Perth.....	29915	498	239	259	16.6	340	164	176	16	14	6	2	142	160	11.4	19	161	5.4
Peterborough.....	22790	255	143	112	11.2	166	91	75	8	4	3	1	80	70	7.3	10	81	3.5
Prescott.....	22542	520	265	255	23.0	211	108	103	28	21	5	4	75	78	9.4	18	106	4.7
Prince Edward.....	17782	304	157	147	17.0	237	119	118	13	8	1	2	105	108	13.3	10	94	5.3
Rainy River.....	8428	196	93	103	23.2	101	70	31	10	3	7	2	53	26	12.0	5	36	4.3
Renfrew.....	41460	805	387	418	19.4	323	167	156	35	25	5	5	127	126	7.8	26	160	3.9
Russell.....	22580	517	261	256	22.9	199	112	87	32	17	13	10	67	60	8.8	15	102	4.5
Simcoe.....	59093	794	406	388	13.5	566	296	270	30	31	9	12	257	227	9.6	32	258	4.4
Stormont.....	18994	408	209	199	21.5	206	120	86	22	18	2	4	96	64	10.8	15	49	2.6
Sudbury.....	37724	1032	533	499	27.4	346	221	125	58	50	18	15	145	140	9.3	44	194	5.1
Thunder Bay.....	15737	189	91	98	12.0	82	53	29	9	9	5	3	39	20	5.2	10	30	1.9
Timiskaming.....	31670	912	476	436	28.8	265	152	113	39	38	12	14	101	61	8.4	19	253	8.0
Victoria.....	20829	254	148	106	12.2	198	107	91	5	5	4	1	98	85	9.5	17	78	3.7
Waterloo.....	32592	542	275	267	16.6	283	136	147	18	18	1	3	121	126	8.7	14	166	5.1
Welland.....	29803	663	338	325	22.2	333	194	139	28	24	3	4	123	111	11.2	25	204	6.8
Wellington.....	39039	775	385	390	19.8	508	263	245	34	31	8	3	261	211	13.0	44	176	4.5
Wentworth.....	36814	332	175	157	9.0	323	168	155	8	9	2	1	158	146	8.8	11	128	3.5
York.....	144548	3596	1818	1778	24.9	1366	701	665	80	68	17	15	604	582	9.4	149	732	5.1

Table 2—General Summary of Births, Deaths and Marriages in the Province of Ontario for Cities, 1930

CITIES	Population	BIRTHS (exclusive of still-births)				DEATHS								Ratio per 1,000 of population	Still-births	Marriages	Ratio per 1,000 of population	
		Total	M	F	Ratio per 1,000 of population	All ages			Under 1 year		1-4 years		5 years and over					
						Total	M	F	M	F	M	F	M					F
Total.....	1,457,085	37,441	17,758	16,983	23.8	17,681	9,292	8,389	1,492	1,123	338	268	7,462	6,998	21.2	1,390	15,477	10.6
Belleveille.....	13443	395	222	173	29.4	242	142	100	17	10	3	4	122	86	18.0	19	148	11.0
Brantford.....	30103	732	360	372	12.4	395	186	209	38	36	4	4	144	169	13.1	29	279	9.3
Chatham.....	16441	565	293	272	14.3	320	169	151	28	19	6	2	135	130	19.4	21	154	9.4
East Windsor.....	16203	372	195	177	23.0	58	30	28	16	11	2	2	14	20	3.6	9	93	5.7
Fort William.....	24635	623	326	297	25.3	208	127	81	22	14	7	2	98	65	8.4	18	232	9.4
Galt.....	13752	311	155	156	21.6	189	93	96	10	12	3	2	80	82	13.7	18	103	7.4
Guelph.....	20393	409	208	201	20.0	233	129	104	8	15	6	1	115	88	11.4	15	182	8.9
Hamilton.....	144529	3394	1720	1674	24.2	1506	759	747	112	75	31	26	616	646	10.4	139	1466	10.1
Kingston.....	21616	659	327	332	30.5	512	277	235	37	29	6	2	234	204	23.7	34	231	10.7
Kitchener.....	30274	829	452	377	27.4	348	180	168	28	13	10	5	142	150	11.5	25	326	10.8
London.....	69742	1485	757	728	21.3	1080	538	542	66	36	8	11	464	495	15.5	68	626	9.0
Niagara Falls.....	18539	438	220	218	23.6	209	110	99	14	14	6	5	90	80	11.3	23	228	12.3
North Bay.....	15978	417	208	209	26.1	180	105	75	26	21	6	3	73	51	11.3	19	125	7.8
Oshawa.....	25550	686	332	354	26.8	234	114	120	32	34	3	2	79	84	9.2	32	205	8.0
Ottawa.....	125496	3028	1521	1507	24.1	1747	932	815	194	137	43	43	695	635	13.9	96	1000	8.0
Owen Sound.....	12778	313	179	134	24.5	157	87	70	8	6	2	1	77	63	12.3	20	137	10.7
Peterborough.....	22487	639	337	302	28.4	304	165	139	25	22	8	3	132	114	13.5	42	204	9.1
Port Arthur.....	20092	564	299	274	28.0	241	139	102	22	18	5	8	112	76	10.2	16	206	10.3
St. Catharines.....	25347	671	358	313	26.5	322	156	166	19	23	6	6	131	137	12.7	24	279	11.0
St. Thomas.....	16869	322	156	166	19.1	228	129	99	19	8	2	5	108	91	13.5	9	145	8.6
Sarnia.....	17003	450	222	228	26.5	238	141	97	14	8	6	5	121	84	14.0	24	131	7.7
Sault Ste. Marie.....	22844	642	336	306	28.1	230	137	93	31	20	5	6	101	67	10.1	18	225	9.8
Stratford.....	18909	406	190	216	21.5	208	115	93	11	6	3	2	101	85	11.0	14	127	6.7
Sudbury.....	16622	720	370	350	43.2	296	195	101	38	31	17	11	140	99	17.8	28	395	23.7
Toronto.....	606370	13591	6964	6627	22.4	7057	3661	3396	574	448	128	98	2959	2850	11.6	550	7111	11.7
Welland.....	10141	298	128	170	29.4	165	86	79	12	1	3	78	64	16.2	13	189	18.6	
Windsor.....	70031	1510	789	721	21.6	612	310	302	66	45	11	9	233	248	8.7	55	840	12.0
Woodstock.....	10898	272	143	129	24.9	162	80	82	10	5	2	2	68	75	14.8	12	91	8.3

Table 2A—General Summary of Births, Deaths and Marriages for Towns of 5,000 Population and Over, in the Province of Ontario, 1930

TOWNS 5,000 population and over	Population	BIRTHS (exclusive of still-births)				DEATHS								Ratio per 1,000 of population	Still-births	Marriages	Ratio per 1,000 of population	
		Total	M	F	Ratio per 1,000 of population	All ages			Under 1 year		1-4 years		5 years and over					
						Total	M	F	M	F	M	F	M					F
Total.....	213,220	6,142	3,114	3,028	28.8	2,915	1,552	1,363	28.3	204	77	52	1,192	1,107	13.6	232	1,909	9.3
Barrie.....	7166	201	102	99	28.0	110	63	47	5	1	2	1	56	45	15.3	7	76	10.6
Brampton.....	5137	178	76	102	24.7	87	44	43	7	3	1	1	37	39	16.9	4	41	8.0
Brockville.....	9432	270	140	130	28.6	187	96	91	14	8	2	1	80	82	19.8	16	82	8.7
Cobourg.....	5644	148	68	80	26.2	126	68	78	7	5	3	2	38	71	22.3	5	48	8.5
Collingwood.....	6027	144	83	61	23.9	119	64	55	13	2	2	2	49	53	19.7	3	46	7.6
Cornwall.....	10804	482	224	258	44.6	225	118	107	24	15	3	2	91	90	20.8	25	153	14.2
Dundas.....	5137	85	38	47	16.5	67	34	33	2	1	2	2	30	32	13.0	1	44	8.6
Eastview.....	6200	212	108	104	34.2	54	24	30	11	13	3	2	10	15	8.7	3	26	4.2
Fort Frances.....	5000	171	88	83	34.2	59	43	16	10	5	5	2	28	9	11.8	6	49	9.8
Hawkesbury.....	5244	190	91	99	36.2	82	41	41	11	10	1	2	29	29	15.6	5	26	5.0
Ingersoll.....	5150	139	77	62	27.0	56	29	27	5	5	4	4	24	18	10.9	2	43	8.2
Kenora.....	7786	168	96	72	21.6	63	40	23	7	6	3	1	30	16	8.1	3	45	5.8
Learnington.....	5313	88	40	48	16.6	55	31	24	6	4	1	1	24	19	10.3	3	71	13.4
Lindsay.....	7161	208	102	106	29.1	122	61	61	6	7	1	3	54	51	17.0	7	87	12.2
Midland.....	7116	181	100	81	25.4	66	35	31	9	6	3	2	23	25	9.3	9	39	5.5
Mimico.....	6108	162	84	78	26.5	37	13	24	2	2	2	2	11	21	6.1	12	33	5.4
New Toronto.....	6310	157	82	75	24.9	77	44	33	8	3	2	1	36	29	12.2	6	32	5.1
Orillia.....	7983	250	116	134	31.3	144	71	73	8	6	1	1	62	66	18.9	1	97	12.1
Pembroke.....	9506	328	165	163	34.5	189	102	87	25	20	9	3	68	64	19.9	23	80	8.4
Port Colborne.....	6202	197	89	108	31.8	47	22	25	8	12	1	1	14	12	7.6	7	68	11.0
Preston.....	6171	93	57	36	15.1	38	21	17	1	4	4	1	16	12	6.2	6	48	7.8
Renfrew.....	5017	142	82	60	28.5	73	35	38	8	3	1	2	26	35	14.5	9	44	8.8
Sandwich.....	11819	196	102	94	16.6	76	34	42	7	5	2	2	25	35	6.4	7	67	5.7
Smith's Falls.....	7452	185	82	103	24.7	97	55	42	9	4	2	2	44	38	13.0	1	43	6.4
Thorold.....	5000	92	51	41	18.4	41	21	20	6	4	2	1	15	15	8.2	2	41	8.2
Timmins.....	12539	506	258	248	40.4	126	78	48	29	24	7	5	42	19	10.1	14	152	12.1
Trenton.....	5725	142	70	72	24.8	76	41	35	8	11	3	3	33	21	13.3	4	92	16.1
Walkerville.....	11219	661	341	320	58.9	203	132	71	23	13	18	10	91	48	18.1	30	133	11.8
Waterloo.....	8389	121	76	45	14.4	52	27	25	2	1	1	1	24	22	6.2	3	65	7.8
Whitby.....	5463	45	26	19	8.2	161	85	76	2	2	1	1	82	76	29.5	3	33	6.0

Table 3—Births (exclusive of Still-births) by Months, Classified as Rural and Urban for the Province of Ontario by Counties—1930

Province and Counties	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
		Ontario.....	71263	5799	5561	6448	6202	6470	6239	6272	6068	5836	5659	5252	5457
Rural.....	24619	2058	1931	2258	2120	2279	2145	2105	2133	2043	1857	1771	1919
Urban.....	46644	3741	3630	4190	4082	4191	4094	4167	3935	3793	3802	3481	3538
Addington.....	129	11	10	14	13	10	10	7	9	15	13	6	11
Rural.....	129	11	10	14	13	10	10	7	9	15	13	6	11
Algoma.....	1079	98	86	117	80	102	93	89	86	97	78	73	80
Rural.....	280	35	27	22	19	24	27	22	20	27	24	14	19
Urban.....	799	63	59	95	61	78	66	67	66	70	54	59	61
Sault Ste. Marie, c.	642	48	51	69	50	65	55	54	54	54	46	53	43
Blind River, t.	106	8	7	17	8	8	9	7	8	10	7	5	12
Thessalon, t.	51	7	9	3	5	2	2	6	4	6	1	1	6
Brant.....	1052	96	70	112	89	104	83	81	86	92	75	82	82
Rural.....	229	18	23	20	20	28	16	19	19	18	17	22	9
Urban.....	823	78	47	92	69	76	67	62	67	74	58	60	73
Brantford, c.	732	69	44	83	61	65	64	51	60	64	50	54	67
Paris, t.	91	9	3	9	8	11	3	11	7	10	8	6	6
Bruce.....	760	60	66	67	82	71	72	62	65	50	59	49	57
Rural.....	579	39	51	50	65	53	54	51	49	38	51	40	38
Urban.....	181	21	15	17	17	18	18	11	16	12	8	9	19
Chesley, t.	32	4	7	4	1	4	1	.....	3	4	1	3	.....
Kincardine, t.	14	.....	1	2	2	2	2	.....	.....	.....	.....	.....	2
Southampton, t.	21	2	.....	5	5	2	.....	2	2	.....	.....	.....	1
Walkerton, t.	63	6	3	4	5	5	7	5	5	5	3	5	6
Wiarion, t.	51	10	8	5	1	5	3	3	5	2	1	1	7
Carleton.....	3693	294	251	331	306	312	322	315	333	334	306	297	292
Rural.....	453	38	23	44	34	42	36	34	47	46	36	35	38
Urban.....	3240	256	228	287	272	270	286	281	286	288	270	262	254
Ottawa, c.	3028	235	215	273	261	254	261	265	266	270	245	250	233
Eastview, t.	212	21	13	14	11	16	25	16	20	18	25	12	21
Cochrane.....	1654	127	117	146	167	136	138	143	150	143	132	119	136
Rural.....	957	73	69	94	107	78	89	77	80	75	70	66	79
Urban.....	697	54	48	52	60	58	49	66	70	68	62	53	57
Cochrane, t.	141	18	8	12	17	18	6	14	13	6	10	9	10
Iroquois Falls, t.	50	4	3	4	1	4	8	7	4	6	.....	7	2
Timmins, t.	506	32	37	36	42	36	35	45	53	56	52	37	45
Dufferin.....	279	16	19	22	28	28	31	14	32	21	28	17	23
Rural.....	215	14	16	17	23	17	26	10	26	19	17	15	15
Urban.....	64	2	3	5	5	11	5	4	6	2	11	2	8
Orangeville, t.	64	2	3	5	5	11	5	4	6	2	11	2	8
Dundas.....	288	23	12	27	23	26	24	26	35	27	21	17	27
Rural.....	288	23	12	27	23	26	24	26	35	27	21	17	27
Durham.....	456	29	31	49	41	35	43	32	52	38	32	36	38
Rural.....	222	12	16	21	20	14	20	17	24	18	19	20	21
Urban.....	234	17	15	28	21	21	23	15	28	20	13	16	17
Bowmanville, t.	121	7	6	14	11	12	11	9	15	12	8	8	8
Port Hope, t.	113	10	9	14	10	9	12	6	13	8	5	8	9
Elgin.....	643	50	39	45	59	66	63	40	61	55	58	50	57
Rural.....	295	23	14	23	26	38	26	16	25	27	28	20	29
Urban.....	348	27	25	22	33	28	37	24	36	28	30	30	28
St. Thomas, t.	322	25	24	20	29	27	33	22	34	27	26	29	26
Aylmer, t.	26	2	1	2	4	1	4	2	2	1	4	1	2
Essex.....	4038	352	305	349	371	400	357	349	350	294	319	298	294
Rural.....	974	78	75	97	98	90	85	78	85	69	80	66	73
Urban.....	3064	274	230	252	273	310	272	271	265	225	239	232	221
Windsor, c.	1510	128	106	106	136	164	141	127	148	102	124	116	112
East Windsor, c.	372	29	33	26	40	30	34	33	26	32	36	28	25
Amherstburg, t.	52	7	2	5	3	3	7	4	3	4	6	5	5
Essex, t.	42	4	3	4	4	4	3	1	2	3	5	5	.....
Kingsville, t.	52	7	2	4	5	3	5	5	3	7	6	4	1
Leamington, t.	88	10	6	9	12	7	5	9	8	6	3	5	8
Riverside, t.	91	9	9	10	6	6	4	6	11	9	11	8	2
Sandwich, t.	196	23	16	8	16	31	18	17	16	13	8	14	16
Walkerville, t.	661	57	53	80	51	62	58	64	48	51	44	46	47
Frontenac.....	974	74	71	87	74	83	88	90	90	92	83	71	71
Rural.....	315	21	27	28	30	26	30	31	27	27	20	21	27
Urban.....	659	53	44	59	44	57	58	59	63	65	63	50	44
Kingston, c.	659	53	44	59	44	57	58	59	63	65	63	50	44
Gleгарry.....	335	32	29	20	25	42	27	26	30	30	33	22	19
Rural.....	278	28	28	18	22	32	22	19	27	25	26	17	14
Urban.....	57	4	1	2	3	10	5	7	3	5	7	5	5
Alexandria, t.	57	4	1	2	3	10	5	7	3	5	7	5	5
Grenville.....	241	22	20	23	24	22	21	24	22	16	10	21	16
Rural.....	188	21	16	20	14	17	15	16	17	15	8	15	14
Urban.....	53	1	4	3	10	5	6	8	5	1	2	6	2
Prescott, t.	53	1	4	3	10	5	6	8	5	1	2	6	2
Grey.....	1074	83	65	114	92	87	113	104	105	96	74	75	66
Rural.....	573	45	35	64	44	47	60	52	58	56	36	31	45
Urban.....	501	38	30	50	48	40	53	52	47	40	38	44	21
Owen Sound, c.	313	18	20	28	33	24	35	35	32	25	21	27	15
Durham, t.	63	2	2	8	5	5	7	11	4	7	7	8	1
Hanover, t.	73	10	4	1	6	7	3	3	7	7	6	8	2
Meaford, t.	52	8	4	3	4	4	8	3	4	5	4	2	3

Table 3—Births (exclusive of Still-births) by Months, Classified as Rural and Urban, for the Province of Ontario by Counties, 1930—Continued

Province and Counties	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Haldimand.....	352	30	32	21	21	36	38	32	26	25	29	30	32
Rural.....	256	20	21	17	14	29	32	23	20	17	23	23	17
Urban.....	96	10	11	4	7	7	6	9	6	8	6	7	15
Dunnville, t.....	96	10	11	4	7	7	6	9	6	8	6	7	15
Haliburton.....	147	7	15	14	11	18	12	18	12	11	9	6	14
Rural.....	147	7	15	14	11	18	12	18	12	11	9	6	14
Halton.....	336	24	23	40	26	25	28	40	24	30	24	24	28
Rural.....	196	15	16	21	13	16	17	28	13	20	14	8	15
Urban.....	140	9	7	19	13	9	11	12	11	10	10	16	13
Burlington, t.....	33	2	1	3	5	2	3	4	2	2	3	5	2
Georgetown, t.....	20	2	1	1	4	2	3	4	1	2	2	3	2
Milton, t.....	33	2	2	8	4	2	1	4	2	2	3	3	3
Oakville, t.....	54	3	4	7	3	3	4	3	5	5	6	7	7
Hastings.....	1310	99	90	114	104	118	110	122	126	109	96	101	121
Rural.....	749	50	47	70	63	72	65	63	75	61	58	57	68
Urban.....	561	49	43	44	41	46	45	59	51	48	38	44	53
Belleville, c.....	395	31	30	33	31	37	28	42	32	38	25	30	38
Deseronto, t.....	24	5	1	.....	3	2	.....	2	1	3	4	3	4
Trenton, t.....	142	13	12	11	10	6	15	17	17	9	10	10	12
Huron.....	805	71	62	67	70	73	84	72	65	55	65	73	48
Rural.....	527	52	39	45	47	43	56	41	48	35	43	46	32
Urban.....	278	19	23	22	23	30	28	31	17	20	22	27	16
Clinton, t.....	55	5	5	6	6	6	4	4	5	1	5	5	3
Goderich, t.....	86	5	3	9	5	9	7	6	5	7	10	12	8
Seaforth, t.....	78	5	9	5	9	8	8	11	3	8	4	5	3
Wingham, t.....	59	4	6	2	3	7	9	10	4	4	3	5	2
Kenora.....	461	43	50	35	48	46	30	39	44	25	45	30	26
Rural.....	131	15	18	20	19	17	6	11	6	4	7	4	4
Urban.....	330	28	32	15	29	29	24	28	38	21	38	26	22
Dryden, t.....	72	5	7	3	2	8	2	6	11	5	10	7	6
Kewatin, t.....	28	2	.....	1	2	3	5	2	4	1	2	6	.....
Kenora, t.....	168	17	19	8	24	13	11	13	16	8	18	9	12
Sioux Lookout, t.....	62	4	6	3	1	5	6	7	7	7	8	4	4
Kent.....	1342	113	124	107	113	116	101	136	99	102	123	86	122
Rural.....	546	54	59	48	41	55	31	52	28	43	52	38	45
Urban.....	796	59	65	59	72	61	70	84	71	59	71	48	77
Chatham, c.....	565	44	52	32	54	44	46	64	55	50	47	25	52
Blenheim, t.....	32	2	2	5	2	5	1	7	2	1	.....	3	2
Dresden, t.....	25	.....	2	6	1	4	2	.....	1	2	3	4	4
Ridgeway, t.....	30	2	1	7	.....	1	2	3	5	.....	5	1	3
Tilbury, t.....	38	3	5	6	3	2	2	1	3	2	3	6	2
Wallaceburg, t.....	106	8	5	7	7	8	15	7	6	5	14	10	14
Lambton.....	996	88	72	91	85	78	88	85	74	88	82	77	88
Rural.....	439	39	36	39	38	31	34	34	28	41	38	34	47
Urban.....	557	49	36	52	47	47	54	51	46	47	44	43	41
Sarnia, c.....	450	36	31	44	41	38	37	45	39	37	31	36	35
Forest, t.....	19	4	1	1	1	2	1	.....	2	1	4	1	1
Petrolia, t.....	88	9	4	7	5	7	16	6	5	9	9	6	5
Lanark.....	683	50	64	65	48	74	58	68	56	67	48	41	44
Rural.....	193	23	16	18	12	20	15	17	15	19	11	14	13
Urban.....	490	27	48	47	36	54	43	51	41	48	37	27	31
Almonte, t.....	98	2	7	8	7	11	10	12	8	14	7	7	5
Carleton Place, t.....	67	5	8	6	3	6	6	5	7	6	5	4	6
Perth, t.....	140	9	15	8	12	14	15	17	10	11	12	8	9
Smith's Falls, t.....	185	11	18	25	14	23	12	17	16	17	13	8	11
Leeds.....	681	56	67	52	65	60	58	63	57	50	48	50	55
Rural.....	314	25	32	21	32	29	25	24	30	27	17	22	30
Urban.....	367	31	35	31	33	31	33	39	27	23	31	28	25
Brockville, t.....	270	24	30	23	25	22	21	28	18	21	19	21	18
Ganoquoque, t.....	97	7	5	8	8	9	12	11	9	2	12	7	7
Lenox.....	193	12	13	22	18	16	14	19	13	12	22	14	18
Rural.....	137	7	13	15	13	13	7	15	10	11	13	9	11
Urban.....	56	5	.....	7	5	3	7	4	3	1	9	5	7
Napanee, t.....	56	5	.....	7	5	3	7	4	3	1	9	5	7
Lincoln.....	1069	80	81	93	92	101	96	92	102	85	82	85	80
Rural.....	319	28	19	36	31	23	33	26	30	30	24	22	17
Urban.....	750	52	62	57	61	78	63	66	72	55	58	63	63
St. Catharines, c.....	671	50	60	48	54	65	59	60	61	47	54	59	54
Grimmsby, t.....	39	1	2	3	2	8	2	2	5	5	2	2	3
Merrittton, t.....	20	1	.....	4	3	2	1	2	3	1	.....	2	3
Niagara, t.....	20	.....	2	2	3	1	2	3	2	2	.....	2	1
Manitoulin.....	233	20	20	17	25	22	18	21	19	20	12	25	14
Rural.....	233	20	20	17	25	22	18	21	19	20	12	25	14
Middlesex.....	2010	168	145	192	211	187	195	137	165	155	143	152	160
Rural.....	415	34	29	35	40	39	45	23	43	32	28	30	37
Urban.....	1595	134	116	157	171	148	150	114	122	123	115	122	123
London, c.....	1485	121	110	148	162	140	143	101	114	118	104	107	117
Parkhill, t.....	13	2	1	.....	1	1	2	.....	2	3	1	.....	.....
Strathroy, t.....	97	11	5	9	8	7	5	13	8	3	8	14	6
Muskoka.....	432	38	30	39	38	44	41	32	41	37	41	19	32
Rural.....	199	18	12	20	17	24	21	19	17	14	14	9	14
Urban.....	233	20	18	19	21	20	20	13	24	23	27	10	18
Bracebridge, t.....	92	9	6	7	4	8	7	6	9	13	10	5	8

Table 3—Births (exclusive of Still-births) by Months, Classified as Rural and Urban, for the Province of Ontario by Counties, 1930—Continued

Province and Counties	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Muskoka—Continued													
Gravenhurst, t.	40	2	2	7	2	4	2	3	5	3	4	2	4
Huntsville	101	9	10	5	15	8	11	4	10	7	13	3	6
Nipissing	1182	107	106	119	119	103	100	111	82	92	77	67	99
Rural	514	39	44	50	57	44	45	46	34	47	35	26	47
Urban	668	68	62	69	62	59	55	65	48	45	42	41	52
North Bay, c.	417	44	35	36	44	40	36	40	32	28	23	25	34
Mattawa, t.	73	7	8	8	10	4	8	8	6	5	2	2	5
Sturgeon Falls, t.	178	17	19	25	8	15	11	17	10	12	17	14	13
Norfolk	627	61	55	49	57	65	62	45	51	45	48	50	39
Rural	404	35	44	29	33	44	38	29	37	31	29	35	20
Urban	223	26	11	20	24	21	24	16	14	14	19	15	19
Simcoe, t.	223	26	11	20	24	21	24	16	14	14	19	15	19
Northumberland	533	43	44	39	43	49	52	39	42	49	50	38	45
Rural	345	23	30	26	25	32	32	29	29	27	38	24	30
Urban	188	20	14	13	18	17	20	10	13	22	12	14	15
Campbellford, t.	40	5	4	5	3	3	6	2	4	4	8	1	3
Cobourg, t.	148	15	10	8	15	14	14	10	11	18	8	13	12
Ontario	1238	117	86	111	124	122	102	118	115	72	100	91	80
Rural	484	42	31	43	50	43	48	44	45	28	37	42	31
Urban	754	75	55	68	74	79	54	74	70	44	63	49	49
Oshawa, c.	686	67	50	63	65	76	49	69	59	40	59	47	42
Uxbridge, t.	23	3	2	3	6	2	1	2	1	1	1	2	2
Whitby, t.	45	5	3	2	3	3	3	4	9	3	2	5	5
Oxford	905	67	61	68	90	65	90	95	79	68	82	77	63
Rural	387	33	24	28	39	24	38	38	40	28	28	39	23
Urban	518	34	37	40	51	41	52	57	39	40	54	38	35
Woodstock, c.	272	19	20	20	22	22	26	33	26	20	22	24	18
Ingersoll, t.	139	6	12	13	16	14	9	15	10	13	17	5	9
Tillsonburg, t.	107	9	5	7	13	5	17	9	3	7	15	9	8
Parry Sound	592	42	56	45	37	64	49	61	57	54	48	37	42
Rural	442	31	48	32	25	46	44	38	43	40	36	28	31
Urban	150	11	8	13	12	18	5	23	14	14	12	9	11
Parry Sound, t.	150	11	8	13	12	18	5	23	14	14	12	9	11
Peel	423	37	32	42	29	31	34	36	31	38	35	37	41
Rural	245	22	20	25	10	18	16	17	19	27	24	24	23
Urban	178	15	12	17	19	13	18	19	12	11	11	13	18
Brampton, t.	178	15	12	17	19	13	18	19	12	11	11	13	18
Perth	904	79	83	86	84	69	79	73	74	88	65	63	61
Rural	361	32	44	30	37	29	37	29	24	28	24	29	18
Urban	543	47	39	56	47	40	42	44	50	60	41	34	43
Stratford, c.	406	39	29	41	29	32	33	31	34	47	31	26	34
Listowel, t.	63	4	3	7	7	4	6	6	9	5	4	4	4
Mitchell, t.	24	2	2	3	1	1	3	4	4	3	1	1	1
St. Mary's, t.	50	4	5	6	8	3	2	4	3	4	3	3	5
Peterborough	894	73	68	89	79	81	87	77	71	82	68	53	66
Rural	255	20	21	20	24	23	29	24	22	21	14	16	21
Urban	639	53	47	69	55	58	58	53	49	61	54	37	45
Peterborough, c.	639	53	47	69	55	58	58	53	49	61	54	37	45
Prescott	710	56	63	71	59	74	52	73	56	68	49	51	38
Rural	476	34	41	47	40	51	35	52	37	47	35	36	21
Urban	234	22	22	24	19	23	17	21	19	21	14	15	17
Hawkesbury, t.	190	19	16	21	17	17	15	20	10	19	9	10	17
Vankleek Hill, t.	44	3	6	3	2	6	2	1	9	2	5	5	5
Prince Edward	304	20	30	31	16	25	23	28	24	32	24	21	30
Rural	212	13	19	22	14	19	14	20	22	22	15	13	19
Urban	92	7	11	9	2	6	9	8	2	10	9	8	11
Pictou, t.	92	7	11	9	2	6	9	8	2	10	9	8	11
Rainy River	367	20	27	41	35	31	44	23	38	32	26	22	28
Rural	161	10	9	20	16	14	15	13	16	14	14	9	11
Urban	206	10	18	21	19	17	29	10	22	18	12	13	17
Fort Frances, t.	171	9	17	16	16	12	22	9	20	12	11	12	15
Rainy River, t.	35	1	5	3	5	7	1	2	6	1	1	1	2
Renfrew	1275	110	92	116	106	123	106	114	105	112	88	95	108
Rural	715	68	58	66	59	74	54	57	65	62	45	52	55
Urban	560	42	34	50	47	49	52	57	40	50	43	43	53
Arnprior, t.	90	4	8	9	5	4	13	9	8	6	7	8	9
Pembroke, t.	328	25	18	28	25	34	27	31	23	32	29	23	33
Renfrew, t.	142	13	8	13	17	11	12	17	9	12	7	12	11
Russell	517	43	45	51	45	42	56	36	47	39	35	41	37
Rural	459	41	42	45	35	36	49	33	40	34	33	37	34
Urban	58	2	3	6	10	6	7	3	7	5	2	4	3
Rockland, t.	58	2	3	6	10	6	7	3	7	5	2	4	3
Simcoe	1570	107	104	135	143	152	150	141	136	122	134	125	121
Rural	632	47	35	48	59	76	59	51	50	52	56	54	45
Urban	938	60	69	87	84	76	91	90	86	70	78	71	76
Alliston, t.	57	4	12	4	2	6	6	9	1	4	4	5	5
Barrie, t.	201	13	11	21	16	14	18	21	20	17	12	17	21
Collingwood, t.	144	7	10	3	12	10	19	17	17	12	18	9	10
Midland, t.	181	13	14	17	17	19	15	12	15	16	18	14	11
Orillia, t.	250	17	16	26	26	23	22	23	17	17	21	22	20
Penetanguishene, t.	105	10	14	8	9	8	11	11	8	7	5	5	9
Stormont	890	68	65	75	79	84	76	75	72	67	92	62	75
Rural	408	30	33	44	29	49	34	36	26	26	35	26	40

Table 3—Births (exclusive of Still-births) by Months, Classified as Rural and Urban, for the Province of Ontario by Counties, 1930—Continued

Province and Counties	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<i>Stormont—Continued</i>													
Urban.....	482	38	32	31	50	35	42	39	46	41	47	36	35
Cornwall, t.....	482	38	32	31	50	35	42	39	46	41	47	36	35
<i>Sudbury</i>	1752	160	129	164	134	154	141	166	130	150	146	128	150
Rural.....	837	81	55	79	66	75	62	77	66	82	64	52	78
Urban.....	915	79	74	85	68	79	79	89	64	68	82	76	72
Capreol, t.....	61	10	2	5	5	8	4	7	4	3	5	6	2
Chelmsford, t.....	29	2	3	7	3	3	2	1	2	1	2	3	3
Copper Cliff, t.....	105	7	9	10	9	9	13	6	8	10	6	7	11
Sudbury, c.....	720	60	60	63	51	59	60	75	50	54	69	63	56
<i>Thunder Bay</i>	1376	96	114	142	129	132	118	122	130	108	99	82	104
Rural.....	189	21	17	15	17	15	13	14	14	21	11	12	19
Urban.....	1187	75	97	127	112	117	105	108	116	87	88	70	85
Port William, c.....	623	45	50	66	57	62	50	57	63	37	56	33	47
Port Arthur, c.....	564	30	47	61	55	55	55	51	53	50	32	37	38
<i>Temiskaming</i>	912	92	70	80	60	73	79	78	85	80	65	82	68
Rural.....	654	67	44	61	38	54	62	60	59	53	47	59	50
Urban.....	258	25	26	19	22	19	17	18	26	27	18	23	18
Cobalt, t.....	87	8	11	8	12	8	5	6	6	8	3	8	4
Haileybury, t.....	81	8	6	4	5	4	8	1	11	13	8	8	5
New Liskeard, t.....	90	9	9	7	5	7	4	11	9	6	7	7	9
<i>Victoria</i>	462	35	32	51	40	43	38	32	38	37	42	34	40
Rural.....	254	23	16	32	22	26	16	13	18	21	25	16	26
Urban.....	208	12	16	19	18	17	22	19	20	16	17	18	14
Lindsay, t.....	208	12	16	19	18	17	22	19	20	16	17	18	14
<i>Waterloo</i>	1896	164	187	194	155	154	171	178	141	130	157	146	119
Rural.....	470	40	45	47	45	31	42	40	43	31	36	34	36
Urban.....	1426	124	142	147	110	123	129	138	98	99	121	112	83
Galt, c.....	311	21	33	37	21	23	35	31	15	26	27	24	18
Kitchener, c.....	829	72	80	74	65	79	68	92	61	56	68	66	48
Elmira, t.....	32	3	5	3	3	3	2	1	4	2	4	1	1
Hespeler, t.....	40	3	4	5	4	5	5	2	5	3	2	10	2
Preston, t.....	93	9	8	12	5	8	7	6	6	11	7	10	5
Waterloo, t.....	121	16	12	16	12	8	13	5	7	6	9	8	9
<i>Welland</i>	1688	147	121	149	124	159	150	156	148	132	123	127	152
Rural.....	592	64	42	51	45	52	54	42	49	41	41	59	59
Urban.....	1096	83	79	98	79	107	98	102	106	83	82	86	93
Niagara Falls, c.....	438	35	32	34	38	44	39	42	37	39	28	35	35
Welland, c.....	298	20	20	28	20	27	24	29	37	17	21	29	26
Bridgeburg, t.....	71	7	6	5	3	6	12	4	9	5	7	2	5
Port Colborne, t.....	197	12	12	23	15	19	12	21	16	15	21	11	20
Thorold, t.....	92	9	9	8	3	11	11	6	7	7	5	9	7
<i>Wellington</i>	1184	83	101	102	106	111	107	94	111	97	105	79	88
Rural.....	650	44	53	60	46	68	55	61	63	49	62	37	52
Urban.....	534	39	48	42	60	43	52	33	48	48	43	42	36
Guelph, c.....	409	29	43	32	50	27	42	25	39	37	29	30	26
Harriston, t.....	24	3	1	1	3	2	1	3	2	2	2	5	1
Mount Forest, t.....	67	5	1	4	4	10	6	4	4	6	9	7	7
Palmerston, t.....	34	2	3	5	3	4	3	1	5	3	3	3	2
<i>Wentworth</i>	3811	317	312	359	290	339	343	309	350	314	302	300	276
Rural.....	332	26	28	35	24	29	27	22	32	28	23	36	22
Urban.....	3479	291	284	324	266	310	316	287	318	286	279	264	254
Hamilton, c.....	3394	286	279	318	262	301	310	275	311	274	273	259	246
Dundas, t.....	85	5	5	6	4	9	6	12	7	12	6	5	8
<i>York</i>	17506	1389	1399	1547	1570	1587	1474	1614	1426	1457	1409	1298	1336
Rural.....	3365	286	254	308	291	314	272	318	305	288	221	242	266
Urban.....	14141	1103	1145	1239	1279	1273	1202	1296	1121	1169	1188	1056	1070
Toronto, c.....	13591	1068	1101	1195	1222	1223	1151	1245	1076	1116	1145	1013	1036
Aurora, t.....	26	2	3	4	3	2	3	2	4	4	2	2	1
Mimico, t.....	162	12	9	12	14	11	17	14	20	15	13	11	14
Newmarket, t.....	135	8	14	11	16	14	7	13	11	12	12	10	7
New Toronto, t.....	157	8	14	11	15	17	13	19	11	14	11	13	11
Weston, t.....	70	5	4	6	9	6	11	3	3	8	7	7	1

Table 4—Total Births (exclusive of Still-births) and Births in Public Institutions, Showing the Number of Mothers Non-resident in the Province of Ontario, 1930

	ALL BIRTHS		IN PUBLIC INSTITUTIONS	
	Total	Births to mothers non-resident in Province	Total	Births to mothers non-resident in Province
Total in Province.....	71,263	767	26,410	514

Table 5—Births (exclusive of Still-births) to Resident and Non-Resident Mothers, and Births in Public Institutions, in Cities and Towns of 5,000 Population and over, in the Province of Ontario, 1930.

Cities and Towns	ALL BIRTHS				BIRTHS IN PUBLIC INSTITUTIONS				BIRTHS ELSEWHERE THAN IN PUBLIC INSTITUTIONS			
	Total	To resident mothers	To mothers non-resident in city or town where birth occurred		Total	To resident mothers	To mothers non-resident in city or town where birth occurred		Total	To resident mothers	To mothers non-resident in city or town where birth occurred	
			Resident in Province	Non-resident in Province			Resident in Province	Non-resident in Province			Resident in Province	Non-resident in Province
Cities:												
Belleville.....	395	242	150	3	282	134	145	3	113	108	5	.....
Brantford.....	732	621	105	6	496	391	99	6	236	230	6	.....
Chatham.....	565	330	221	14	377	156	211	10	188	174	10	4
East Windsor.....	372	365	5	2	.....	.....	.....	.....	372	365	5	2
Fort William.....	623	521	93	9	339	257	73	9	284	264	20	.....
Galt.....	311	224	86	1	182	100	81	1	129	124	5	.....
Guelph.....	409	333	75	1	217	147	69	1	192	186	6	.....
Hamilton.....	3394	3121	254	19	1752	1512	229	11	1642	1609	25	8
Kingston.....	659	443	203	13	473	270	191	12	186	173	12	1
Kitchener.....	829	701	123	5	416	302	111	3	413	399	12	2
London.....	1485	1171	298	16	1076	773	289	14	409	398	9	2
Niagara Falls.....	438	389	43	6	189	147	38	4	249	242	5	2
North Bay.....	417	366	49	2	98	67	31	.....	319	299	18	2
Oshawa.....	686	613	69	4	301	238	59	4	385	375	10	.....
Ottawa.....	3028	2450	373	205	2035	1487	361	187	993	963	12	18
Owen Sound.....	313	235	77	1	177	114	62	1	136	121	15	.....
Peterborough.....	639	465	170	4	533	365	165	3	106	100	5	1
Port Arthur.....	564	413	148	3	369	247	119	3	195	166	29	.....
St. Catharines.....	671	523	139	9	410	275	129	6	261	248	10	3
St. Thomas.....	322	244	70	8	237	164	69	4	85	80	1	4
Sarnia.....	450	370	68	12	276	201	64	11	174	169	4	1
Sault Ste. Marie.....	642	576	59	7	209	171	34	4	433	405	25	3
Stratford.....	406	331	73	2	234	165	68	1	172	166	5	1
Sudbury.....	720	610	108	2	262	176	86	.....	458	434	22	2
Toronto.....	13591	12644	850	97	8273	7418	775	80	5318	5226	75	17
Welland.....	298	235	59	4	112	54	57	1	186	181	2	3
Windsor.....	1510	1247	243	20	598	355	224	19	912	892	19	1
Woodstock.....	272	188	81	3	167	89	75	3	105	99	6	.....
Towns:												
Barrie.....	201	135	65	1	97	42	54	1	104	93	11	.....
Brockville.....	270	189	73	8	238	160	71	7	32	29	2	1
Cobourg.....	148	113	35	.....	76	45	31	.....	72	68	4	.....
Collingwood.....	144	103	40	1	69	32	36	1	75	71	4	.....
Cornwall.....	482	362	102	18	293	180	97	16	189	182	5	2
Eastview.....	212	206	5	1	.....	.....	.....	.....	212	206	5	1
Hawkesbury.....	190	172	7	11	26	13	6	7	164	159	1	4
Ingersoll.....	139	97	41	1	75	34	40	1	64	63	1	.....
Kenora.....	168	126	36	6	113	76	31	6	55	50	5	.....
Lindsay.....	208	150	58	.....	126	71	55	.....	82	79	3	.....
Midland.....	181	136	44	1	91	52	38	1	90	84	6	.....
Orillia.....	250	158	91	1	147	79	68	.....	103	79	23	1
Pembroke.....	328	236	74	18	130	66	56	8	198	170	18	10
Preston.....	93	89	4	.....	1	.....	.....	.....	92	88	4	.....
Smith's Falls.....	185	143	41	1	114	75	39	.....	71	68	2	1
Trenton.....	142	136	5	1	3	1	2	.....	139	135	3	1
Walkerville.....	661	183	463	15	575	103	459	13	86	80	4	2
Waterloo.....	121	116	5	.....	1	.....	.....	.....	120	115	5	.....
Brampton.....	178	95	83	.....	118	42	76	.....	60	53	7	.....
Dundas.....	85	70	15	.....	37	24	13	.....	48	46	2	.....
Fort Frances.....	171	152	18	1	26	24	2	.....	145	128	16	1
Leamington.....	88	75	12	1	13	8	4	1	75	67	8	.....
Mimico.....	162	104	56	2	63	18	45	.....	99	86	11	2
New Toronto.....	157	139	18	.....	35	21	14	.....	122	118	4	.....
Port Colborne.....	197	189	7	1	14	9	4	1	183	180	3	.....
Renfrew.....	142	92	45	5	73	29	40	4	69	63	5	1
Sandwich.....	196	193	2	1	.....	.....	.....	.....	196	193	2	1
Thorold.....	92	86	6	.....	9	6	3	.....	83	80	3	.....
Timmins.....	506	482	22	2	61	48	13	.....	445	434	9	2
Whitby.....	45	37	8	.....	6	3	3	.....	39	34	5	.....

Ingersoll.....	77	139	75	60	135	2	2	4	74	61	135	3	1	21
Brampton.....	76	178	75	100	175	1	1	3	74	102	176	2	1	1
Dundas.....	38	85	36	46	82	2	2	3	38	47	85	1	1	1
Fort Frances.....	88	171	81	81	162	7	7	9	88	83	171	1	1	1
Leamington.....	40	88	39	47	86	1	1	2	38	46	84	2	2	2
Mimico.....	84	78	74	66	140	10	12	22	82	78	160	2	1	1
New Toronto.....	82	157	82	75	157	.....	.....	.....	80	75	155	2	2	1
Port Colborne.....	89	108	107	108	197	.....	.....	.....	89	106	195	2	2	1
Renfrew.....	82	142	81	59	140	.....	.....	.....	82	60	142	10	10	10
Timmins.....	258	506	248	244	492	10	4	14	248	238	486	10	10	10
Whitby.....	26	45	24	17	41	2	2	4	26	19	45	5	1	3
Sandwich.....	102	196	99	92	191	3	2	5	97	93	190	5	1	3
Thorold.....	51	92	50	41	91	1	.....	1	51	41	92	.....	.....	.....

Table 7—Births (exclusive of Still-births)

Age of Father	Total	AGE OF																
		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Under 16 years.....																		
16 years.....	4				1	1		2										
17 ".....	31			1	4		7	4	4	2	1						1	
18 ".....	113			1	10	24	27	18	13	8	3	2						1
19 ".....	344			4	24	56	83	75	47	24	16	7	4	2	1			1
20 ".....	656			3	27	61	121	129	124	74	54	24	14	9	4	5	3	
21 ".....	1362		2	3	16	89	189	249	241	216	156	85	57	26	8	14	4	
22 ".....	1911		1	3	28	81	187	292	331	303	276	165	122	52	34	11	5	
23 ".....	2449		1	2	18	71	163	269	348	365	400	326	200	111	78	42	22	
24 ".....	2872			3	23	50	142	257	333	365	418	421	347	209	133	70	42	
25 ".....	3224			3	16	48	97	216	262	352	456	448	420	373	229	121	63	
26 ".....	3377		1	2	8	29	87	170	220	295	374	447	437	390	403	200	128	
27 ".....	3606			2	5	23	70	129	200	281	305	395	425	436	410	355	238	
28 ".....	3700			9	25	60	107	132	225	271	359	406	405	433	350	376		
29 ".....	3759		1		2	19	41	69	110	187	228	308	364	379	410	392	376	
30 ".....	4008				4	13	31	59	112	133	186	242	286	351	376	381	438	
31 ".....	3090			3	2	8	20	26	69	103	125	135	190	212	288	276	290	
32 ".....	3266				2	7	11	34	43	80	146	124	146	187	231	267	322	
33 ".....	3078					6	24	43	45	78	112	133	144	196	237	239		
34 ".....	2972				1	2	8	22	19	40	56	80	117	114	161	161	227	
35 ".....	2918					1	7	16	31	42	59	73	91	139	115	140	183	
36 ".....	2577					1	10	8	20	24	40	50	55	62	133	118	146	
37 ".....	2287			1	4	3	8	10	15	20	17	44	72	82	101	87		
38 ".....	2387			2	1	4	2	6	4	13	27	40	37	55	66	93	118	
39 ".....	2088					1	1	2	5	10	21	33	32	34	51	58	81	
40 ".....	2044					5	3	4	12	17	20	16	42	45	52	57		
41 ".....	1491					1	1	2	6	14	14	20	15	34	25	46		
42 ".....	1580					1	2		4	4	6	10	13	22	28	35	39	
43 ".....	1215							2	3	4	10	13	12	13	17	24	24	
44 ".....	1054					1	1	2	3	1	3	5	12	8	11	16	20	
45 ".....	954						1	2	1		3	5	8	13	12	13	29	
46 ".....	702								3	3	5	3	5	3	8	11	13	
47 ".....	618						1				4	6	2	6	6	11	9	
48 ".....	530						1	1	1	2	5	2	4	8	3	10	13	
49 ".....	462						1	1	1		4	2	2	2	3	7	10	
50 ".....	320								1		1	2	1	2	2	3	6	
51 ".....	219									1		1	1	1	3	1	1	
52 ".....	235							1	1			2	2	2	10	4	4	
53 ".....	164									1	1	2	1	2	3	2	1	
54 ".....	121									1		1	1	1	1	1	1	
55 ".....	103										1	1	2	2	3	1	1	
56 ".....	79										1		2	2	1	3		
57 ".....	51								1			1	1	1	3	2		
58 ".....	63									1	1		1	1	1		1	
59 ".....	46											1		2	1		1	
60 ".....	32														1		1	
61 ".....	17																1	
62 ".....	19																1	
63 ".....	13												1					
64 ".....	14						1									1		
65 and over.....	56									1		1		2	2	2	1	
Not stated.....	331				1	2	1	1	3	2	3	3	1	4	1	2	1	
Children born to married mothers.....	68612			6	32	203	637	1387	2204	2749	3241	3797	3986	4031	3913	4038	3621	3674*
Children born to unmarried mothers.....	2651		5	27	72	146	198	249	294	293	200	207	143	145	97	91	54	51
Children born to all mothers.....	71263		5	33	104	349	835	1636	2498	3042	3441	4004	4129	4176	4010	4129	3675	3725

Table 8—Births (exclusive of Still-births) Classified According to Racial Origin of Parents for the Province of Ontario, 1930

Racial Origin of Father	RACIAL ORIGIN OF MOTHER																						Total													
	English	Irish	Scottish	Welsh	French	Armenian	Austrian	Belgian	Bulgarian	Chinese	Czech and Slovak	Danish	Dutch	Finnish	German	Greek	Hindu	Hungarian	Icelandic	Indian	Italian	Japanese		Jewish	Negro	Norwegian	Polish	Roumanian	Russian	Serb and Croat	Swedish	Swiss	Syrian	Ukrainian*	Other	Not specified
	25485	18321	20000	1006	645	36	2	9	...	...	6	14	171	32	479	2	3	...	...	21	25	...		...	5	1	14	22	1	6	...	24	13	5	2	...
English	18321	2554	20000	1006	645	36	2	9	...	...	6	14	171	32	479	2	3	...	...	21	25	...	...	5	1	14	22	1	6	...	24	13	5	2	...	8
Irish	11537	2873	1884	44	727	...	2	6	...	5	3	185	12	313	...	3	10	...	...	3	10	...	...	2	2	13	26	1	1	...	16	4	2	5	4	26
Scottish	9005	2976	4834	59	307	...	4	3	...	1	3	105	15	262	...	2	2	...	...	2	19	...	...	8	1	15	8	4	4	...	13	10	3	3	24	4
Welsh	315	132	83	63	...	...	3	10	...	...	2	2	28	11	95	...	1	...	...	1	19	...	...	3	5	31	1	1	...	6	4	1	2	2	12	4
French	8528	576	261	5	6856	...	3	10	...	...	2	2	28	11	95	...	1	...	...	1	19	...	...	3	5	31	1	1	...	6	4	1	2	2	12	4
Armenian	43	...	3	...	4	36	3	10	...	...	2	2	28	11	95	...	1	...	...	1	19	...	...	3	5	31	1	1	...	6	4	1	2	2	12	4
Austrian	161	...	3	...	4	36	3	10	...	...	2	2	28	11	95	...	1	...	...	1	19	...	...	3	5	31	1	1	...	6	4	1	2	2	12	4
Belgian	206	13	3	...	11	...	2	1	...	...	1	1	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bulgarian	34	4	2	3	1	...	1	163	...	...	1	1	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chinese	44	2	3	...	...	...	1	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Czech and Slovak	308	3	4	...	4	...	1	...	...	28	273	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Danish	142	26	11	15	...	...	1	...	...	2	2	57	23	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dutch	754	219	111	116	2	38	1	5	...	1	1	223	5	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Finnish	454	7	4	...	38	...	1	...	...	...	...	1	427	5	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
German	3223	517	225	11	106	...	6	1	...	4	2	24	3	1994	1	10	1	1	...	...	1	2	...	...	4	15	1	6	2	4	5	1	1	1	1	8
Greek	158	20	6	5	5	...	1	1	...	1	2	109	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hindu	468	4	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hungarian	8	1	1	1	...	...	...	...	...	...	447	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Icelandic	525	22	10	7	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Indian	1495	66	32	1	52	...	3	1	...	1	1	1	7	11	...	...	...	...	...	...	11260	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Italian	970	10	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Japanese	138	5	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Negro	120	26	8	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Norwegian	1006	16	10	11	24	1	4	1	...	1	3	1	1	1	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Polish	83	8	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Roumanian	300	7	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Russian	243	3	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Serb and Croat	215	38	11	10	12	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Swedish	85	20	8	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Swiss	78	3	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Syrian	678	18	6	4	1	9	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ukrainian*	102	3	3	2	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other	79	16	41	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Not specified	696	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Children born to married mothers...	68612	10863	9960	296	8876	37	193	200	20	28	308	86	705	552	3257	114	486	11	562	1324	4	963	128	103	1104	130	185	231	185	70	68	696	80	718		
M.	35057	13283	5099	143	4535	20	92	113	12	13	164	44	363	276	1672	70	342	6	274	639	2	517	79	47	564	58	97	128	93	31	36	354	48	374		
F.	33555	12777	4861	153	4341	17	101	87	8	15	144	42	362	273	1585	44	244	5	283	685	2	446	49	56	540	81	88	103	92	39	32	342	32	344		

Children born to un-	2651	965	437	9	340	9	1	8	3	18	30	107	11	111	12	11	9	3	48	6	7	3	7	2	2	31	2	93						
married mothers. M.	1335	489	216	6	168	3	1	2	12	15	56	5	5	50	11	4	7	1	28	6	6	3	3	2	15	2	50							
F.	1316	476	221	3	172	6	6	3	6	15	51	6	6	61	1	7	2	2	20	1	1	4	4	2	16	43	43							
Children born to all	71263	27025	10397	305	9216	37	28	316	89	723	582	3364	114	497	11	673	1336	4	974	137	106	1152	145	192	234	192	72	70	727	82	811			
mothers. M.	36392	13772	5315	149	4703	20	95	113	13	13	166	44	355	294	1728	70	247	6	329	650	2	521	86	48	592	64	103	131	96	33	36	369	50	424
F.	34871	13253	5082	156	4513	17	107	87	8	15	150	45	368	288	1636	44	250	5	344	686	2	453	51	58	560	81	89	103	96	39	34	358	32	887

*Including "Galician" and "Bukovinian."

Table 9—Legitimate Births (exclusive of Still-births) Classified According

Racial Origin of Mother	Total	AGE OF														
		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
English.....	26060	1	8	69	240	567	893	1154	1321	1470	1604	1534	1481	1538	1395	1392
Irish.....	10863	1	5	25	82	186	304	388	444	544	558	599	578	583	504	581
Scotch.....	9960			14	67	144	270	296	431	503	515	621	588	610	549	551
Welsh.....	296			2	2	4	7	15	14	13	16	16	16	23	13	17
French.....	8876	2	14	47	111	243	316	389	446	544	515	487	486	498	432	456
Armenian.....	37				1	3	1	1	1	1	2	4	2	1	4	
Austrian.....	193				2	6	6	7	8	16	11	12	11	9	12	10
Belgian.....	200				2	5	3	7	4	13	10	10	12	9	18	14
Bulgarian.....	20							3	1	1		3	1	1	2	
Chinese.....	28					1	1			1	2	2				
Czech and Slovak.....	308				1	3	10	6	17	11	20	23	26	23	26	28
Danish.....	86					4	1	1	2	10	5	6	5	6	8	6
Dutch.....	705	1	1	2	11	18	18	31	38	40	41	31	39	39	56	33
Finnish.....	552		1	2	5	19	21	37	34	39	41	45	34	29	36	23
German.....	3257			8	26	42	95	120	139	158	202	190	219	183	170	176
Greek.....	114					1	4	2	6		3	9	9	10	8	10
Hindu.....																
Hungarian.....	486			1	5	5	13	21	21	26	25	32	43	39	39	26
Icelandic.....	11							1		2				1	1	1
Indian.....	562		1	3	6	16	36	16	24	31	25	31	16	38	23	26
Italian.....	1324	1	1	12	21	34	51	64	68	80	70	56	54	77	86	63
Japanese.....	4														1	
Jewish.....	963				2	2	20	30	58	74	80	83	60	63	55	54
Negro.....	128			1	3	4	3	3	3	11	6	6	9	10	8	4
Norwegian.....	103		1		2	4	5	4	7	3	5	5	5	7	12	5
Polish.....	1104			3	12	25	34	46	58	70	71	90	85	88	68	60
Roumanian.....	139			1	2	5	4	8	6	7	8	6	13	8	9	9
Russian.....	185				2	6	10	3	7	11	16	5	22	14	5	10
Serb and Croat.....	231				4	3	10	8	7	13	17	13	18	16	19	16
Swedish.....	185				2	4	6	6	13	13	5	14	10	10	10	14
Swiss.....	70						1	3	3	1	4	8	6	2	5	5
Syrian.....	68					1	3	3	4	1	4	5	6	4		2
Ukrainian*.....	696			10	17	19	30	41	31	57	59	56	36	55	34	43
Other.....	80					1	4	5	3	2	5	8	4	10	2	5
Not specified.....	718			3	8	12	24	28	25	24	40	23	19	32	15	28
Total.....	68,612	6	32	203	637	1387	2204	2749	3241	3797	3986	4031	3913	4038	3621	3674

*Including "Galician" and "Bukovinian".

to Age and Racial Origin of Mothers for the Province of Ontario, 1930

MOTHER

29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50 and over	Not stated
1337	1334	1019	1137	1017	968	855	746	639	630	433	362	271	266	158	101	59	23	14	7	3	1	13
567	612	488	534	463	478	426	364	330	311	251	189	159	120	77	67	21	11	5	3	1	1	5
545	626	469	445	426	362	366	329	259	243	208	163	124	104	60	42	8	9	5	2	1	1	5
17	15	16	12	10	15	12	6	9	5	8	3	4	1	2	2	1	1	1	1	1	1	1
428	383	316	344	337	313	279	273	235	242	169	183	91	110	83	44	24	11	3	2	1	1	20
9	14	6	8	3	7	5	5	4	6	2	4	2	3	3	1	1	1	1	1	1	1	1
18	19	10	7	8	7	4	2	4	2	3	4	2	3	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	3	1	2	1	2	1	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1
21	24	6	10	11	5	12	8	2	4	2	4	2	1	1	1	1	1	1	1	1	1	1
3	7	5	2	4	3	2	2	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1
46	29	25	19	31	29	25	15	27	13	9	11	9	6	4	5	1	1	1	1	1	1	1
34	36	18	19	14	10	9	8	2	9	6	5	6	4	1	2	1	1	1	1	1	1	1
145	177	141	134	137	118	115	90	87	92	82	49	48	37	30	24	14	4	2	2	1	1	1
6	4	1	2	4	5	4	5	2	4	3	2	1	1	2	1	2	1	1	1	1	1	1
24	30	22	25	21	15	18	9	8	6	2	4	1	3	1	1	1	1	1	1	1	1	1
1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	38	21	25	13	20	15	16	8	18	12	14	8	6	6	1	3	2	1	1	1	1	13
46	66	46	68	52	42	38	43	45	32	30	28	13	12	11	2	2	2	1	1	1	1	7
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53	65	31	38	25	37	27	28	18	16	16	14	4	3	1	3	1	1	1	1	1	1	3
8	9	3	9	8	5	6	3	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1
4	3	4	7	2	2	1	3	4	5	1	1	1	1	1	1	1	1	1	1	1	1	1
41	41	29	38	24	29	35	38	22	20	14	15	8	10	5	5	2	3	1	1	1	1	15
7	8	3	6	4	4	4	2	2	3	7	4	1	1	1	1	1	1	1	1	1	1	1
10	10	12	7	6	7	7	2	3	2	1	3	2	1	1	1	1	1	1	1	1	1	1
21	12	5	7	2	5	3	5	3	6	3	3	3	5	2	1	3	1	1	1	1	1	1
4	4	2	3	4	4	2	2	2	2	1	1	2	2	2	2	1	1	1	1	1	1	1
6	2	3	2	2	2	3	5	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1
25	22	10	13	14	20	14	14	14	12	13	2	2	2	2	1	2	1	1	1	1	1	3
4	8	3	4	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	24	20	32	14	9	22	14	16	16	7	10	5	7	4	3	1	1	1	1	1	1	216
3490	3637	3755	2985	2664	2522	2323	2051	1751	1716	1286	1089	767	713	460	309	146	68	30	17	4	2	308

Table 10—Births (exclusive of Still-births) Classified According

Birthplace of Father	Total	BIRTHPLACE														
		Canada									British Isles					
		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Province not specified	England	Ireland	Scotland	Wales	Other
Canada	45,265	18	254	199	2803	34,912	289	156	59	63	250	3128	309	987	73	15
Prince Edward Island	59	5	5	2	2	30	2					3		4		
Nova Scotia	385	2	108	18	20	139	5	3	4	1		38	2	15	1	
New Brunswick	281		11	94	19	99	3	1	2			27	1	5		
Quebec	3,242		10	18	1497	1,397	9	8	6	4	5	111	11	39	2	2
Ontario	40,374	11	115	65	1244	32,920	203	119	42	54	22	2857	284	865	66	12
Manitoba	324		1	2	11	158	58	12	1	3		22	4	10	3	
Saskatchewan	130		2		4	72	4	13	1			13	1	8		1
Alberta	54				2	30	3		2			7	1	5		
British Columbia	49		2			37	2		1	1		1		2		
Province not specified	367				4	30					222	49	5	34	1	
British Isles	13,531	5	62	32	155	4,154	67	19	12	13	107	4891	1003	2384	160	30
England	8,694	3	36	20	104	2,941	47	9	7	10	80	4179	212	632	74	12
Ireland	1,550		6	4	13	404	7	1	1		9	198	687	182	5	
Scotland	2,982	2	18	7	33	727	10	7	4	2	17	415	99	1556	14	7
Wales	242		2		2	61	3	2			1	81	4	10	67	2
Other	63			1	3	21	4				1	18	1	4		9
British Possessions	404	4	9	8	9	98	3				4	53	7	28	2	
Newfoundland	217	2	8	6	5	46	1				2	18	2	14	1	
Other	187	2	1	2	4	52	2				2	35	5	14	1	
Europe	7,027	2	11	6	81	689	88	24	3	2	22	170	21	43	2	
Austria	302				2	19	16	5		1	3	3				
Belgium	201		1		1	15	1	1				10				
Denmark	118			1	1	20	2					11	3	6		
Finland	426					40	1					1	1	1		
France	58				5	22						1	3	1	1	
Germany	212				5	58	3	1				4	10	4	4	
Holland	146		1		1	15	1			1		14		1		
Hungary	479		1			4	1	4	1		1	1	1			
Italy	1,347	1	2	2	28	201	1	1			5	30	6	8		
Norway	80			1	2	24	3					7		1		
Poland*	1,423		1		8	64	23	2			3	10	1	5		
Roumania†	283		3		7	23	8	6			1	7	2	1		
Russia‡	946		2		12	83	22	1	2		3	34	3	5		
Sweden	139			2	1	40	2	1				9		4		
Other	867			2	8	61	5	2				20		7	1	
Asia	168			1	6	24				4	1	8	1	4		
China	44				2	8				2		4	1	3		
Japan	6			1		1				1		4		1		
Other	118			1	4	15				1	1	4				
United States	1,923	1	11	14	102	1,145	28	8	4	4	17	170	20	42	3	
Various	35				1	14						5		1		
Not specified	259				7	24		1				9		2		
Children born to married mothers	68,612	30	347	260	3164	41,060	475	208	78	86	401	8434	1361	3490	241	45
Children born to unmarried mothers	2,651	1	21	2	114	1,670	24	6	6	3	31	244	74	182	8	1
Children born to all mothers	71,263	31	368	262	3278	42,730	499	214	84	89	432	8678	1435	3672	249	46

*Including Galicia.

†Including Bukovina.

‡Including the Ukraine.

to Birthplace of Parents, for the Province of Ontario, 1930

OF MOTHER

British Possessions		Europe																Asia			United States		Various		Not specified
Newfoundland	Other	Austria	Belgium	Denmark	Finland	France	Germany	Holland	Hungary	Italy	Norway	Poland*	Roumaniat	Russia†	Sweden	Other	China	Japan	Other	United States	Various	Not specified			
55	37	12	12	5	29	15	33	13	5	13	8	48	11	39	16	9	6	4	1	1359	5	15			
1	4	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	18	17			
1	2	2	1	1	3	1	1	1	1	1	1	3	1	3	1	1	1	1	1	99	5	14			
46	32	10	11	4	21	13	31	12	2	12	7	37	5	28	15	8	5	1	1	1174	5	14			
1	1	2	1	1	21	13	1	1	2	12	7	5	3	5	1	1	1	1	1	19	7	14			
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2			
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3			
49	39	4	10	2	15	9	5	7	2	2	1	15	3	9	5	11	1	1	2	15	5	2			
34	29	4	6	2	11	5	2	7	1	1	1	14	3	6	3	6	1	1	2	188	3	1			
3	4	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	1	1			
9	6	2	2	1	1	1	2	1	1	1	1	1	1	1	2	2	1	1	1	33	2	1			
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3			
103	60	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	12	1	1			
102	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	4	4			
1	59	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4	4			
3	4	275	164	57	406	24	127	102	459	998	37	1366	220	659	62	718	1	4	4	167	6	4			
1	1	203	157	53	8	2	1	5	2	3	1	14	6	6	2	1	1	1	1	10	4	4			
1	1	1	1	1	365	17	96	7	95	3	1	5	2	6	1	1	1	1	1	4	4	4			
1	2	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	2	2			
1	1	2	1	1	5	4	1	1	439	990	30	4	4	2	7	7	1	1	1	2	2	2			
2	8	1	2	1	2	1	3	1	1	1	1	1	1	5	1	1	1	1	1	3	3	3			
7	43	17	3	1	1	1	1	1	3	1	1	1190	17	52	1	4	1	1	1	21	1	1			
8	1	17	6	1	1	1	1	1	1	1	1	23	165	16	4	6	1	1	1	6	6	6			
1	8	4	1	4	6	1	1	1	10	2	3	113	22	565	3	3	1	1	1	20	2	2			
1	1	1	1	1	1	1	1	1	1	1	1	13	3	10	53	1	1	1	1	7	7	7			
1	5	4	3	4	2	2	1	1	3	6	4	2	1	1	4	1	22	3	82	15	1	1			
1	1	1	1	1	1	1	1	1	1	5	5	1	2	4	4	1	22	3	82	6	6	6			
216	145	295	187	64	455	51	170	122	467	1025	50	1438	236	713	87	739	30	7	90	2088	21	236			
9	6	15	1	2	18	10	1	10	5	2	43	7	15	3	15	15	30	7	90	63	1	38			
225	151	310	188	66	473	51	180	123	477	1030	52	1481	243	728	90	754	30	7	90	2151	22	274			

Table 11—Legitimate Births (exclusive of Still-births) Classified According

Birthplace of Mother	Total	AGE OF																
		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Canada.....	46,109	6	31	185	555	1184	1724	2041	2366	2700	2686	2656	2549	2594	2310	2352	2237	
Prince Edward Island.....	30									3		3			3		1	
Nova Scotia.....	347			1	2	4	13	16	16	23	17	22	17	23	18	18	26	
New Brunswick.....	260			1	2	4	7	6	14	10	14	18	11	9	15	12	26	
Quebec.....	3,164	1	2	7	32	63	101	114	142	162	157	155	167	180	151	174	174	
Ontario.....	41,060	4	29	167	486	1062	1525	1829	2102	2399	2415	2376	2298	2315	2056	2089	1954	
Manitoba.....	475			5	12	14	31	19	35	44	35	40	25	21	33	19	19	
Saskatchewan.....	208			3	11	13	20	23	23	18	20	11	11	8	7	11	5	
Alberta.....	78				4	6	6	7	5	10	5	5	2	5	3	3	3	
British Columbia.....	86				6	6	1	6	4	8	4	3	3	6	4	6	5	
Province not specified.....	401	1		1	6	12	20	21	25	23	19	23	15	26	20	20	24	
British Isles.....	13,571			7	32	97	244	384	500	629	730	823	813	869	738	869	790	
England.....	8,434			3	18	65	152	234	285	373	464	477	461	499	458	483	478	
Ireland.....	1,361			3	1	7	28	44	57	79	65	102	85	99	60	69	82	
Scotland.....	3,490			1	13	21	62	96	140	164	186	230	247	249	207	221	212	
Wales.....	241					4	2	10	17	11	14	13	17	19	12	16	14	
Other.....	45								1	2	1	1	3	3	1	5	4	
British Possessions.....	361				1	2	6	10	14	12	20	20	20	30	28	19	18	
Newfoundland.....	216						4	4	9	8	11	14	14	17	17	15	12	
Other.....	145				1	2	2	6	5	4	9	6	6	13	11	4	6	
Europe.....	6,099		1	5	30	68	144	213	246	340	397	407	426	428	419	383	321	
Austria.....	295				1	3	6	9	13	17	24	20	14	18	15	14	12	
Belgium.....	187				2	5	3	7	1	11	10	9	10	9	17	13	19	
Denmark.....	64					1		1	9	4	5	4	6	5	4	2	2	
Finland.....	455					8	11	21	24	27	28	37	33	26	33	22	36	
France.....	51					1	1	1	4	5	3	1	3		3	4	4	
Germany.....	170			1		1	3	9	6	10	17	8	18	9	8	11	9	
Holland.....	122				1	2	4	2	4	8	7	12	6	16	9	9	9	
Hungary.....	467				3	3	11	16	17	23	24	30	43	38	38	26	24	
Italy.....	1,025		1	3	11	11	22	35	41	47	48	40	44	64	66	53	39	
Norway.....	50					1		1	2	1	1	1	4	3	10	4	2	
Poland*.....	1,438				5	13	35	50	69	103	117	119	110	120	91	89	58	
Roumania†.....	236				1	6	4	7	9	11	10	15	20	14	17	17	12	
Russia‡.....	713				2	7	18	19	31	40	54	51	48	58	37	48	43	
Sweden.....	87				2	2	2	2	5	1		10	3	2	4	9	3	
Other.....	739		1	3	6	25	32	25	31	47	52	62	52	62	61	49	49	
Asia.....	127					2		1	3		8	8	7	8	2	4	9	
China.....	30								1		3	1	1	2	1		1	
Japan.....	90								2	1	5	7	6	6	1		7	
Other.....	7					2	2	1	2	1								
United States.....	2,088			6	19	33	82	97	110	114	144	112	96	103	123	120	114	
Various.....	21								1	1	1	4	1	2	1			
Not specified.....	236					1	2	3	1			1	1	4		2	1	
Total.....	68,612	6	32	203	637	1387	2204	2749	3241	3797	3986	4031	3913	4038	3621	3674	3490	

*Including Galicia.
†Including Bukovina.
‡Including the Ukraine.

to Age and Birthplace of Married Mothers, for the Province of Ontario, 1930

MOTHER

30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50 and over	Not stated
2217	1807	1913	1740	1661	1523	1330	1160	1157	867	731	535	504	329	210	100	45	21	11	3	2	67
4	1	2	3	1	2	2	1	3	7	4	1	4	2	1	1						
22	13	17	12	13	8	8	13	5	5	4	3	3	2	1							
21	12	15	9	14	10	6	4	5	5	4	3	3									
153	132	145	134	110	92	116	89	91	77	76	32	55	37	18	11	5	2	1			6
1967	1621	1694	1548	1491	1388	1167	1035	1035	768	633	490	435	279	189	87	39	19	10	3	2	54
17	9	15	11	17	5	16	6	7	6	5	1	4	4								
5	1	5	4	1	2		2				1		3								
3	3	2			2					2			1								
7	5	2	1	1	4	4	3	1		1	1										
18	10	16	18	13	10	11	7	9	4	6	6	3	3	2	1						7
889	619	693	605	584	518	460	386	370	268	227	156	125	89	68	29	14	8	4	1		8
517	383	466	388	375	349	308	256	257	173	149	113	91	64	48	24	11	5	2	1		4
99	57	59	55	58	45	39	48	35	29	21	8	8	6	1							2
257	163	158	149	136	115	107	73	75	57	54	32	25	16	12	4	3	2	1			2
13	15	8	8	11	6	6	7	1	8	2	3	1	1	2							
3	1	2	5	4	3	2	2	2	1	1											
20	11	25	19	10	12	18	9	10	8	5	4	4	3	2							1
10	8	15	9	6	7	9	5	7	5	5	4										1
10	3	10	10	4	5	9	4	3	3			4	3	2							
377	231	266	206	184	189	168	130	130	97	101	48	56	32	18	13	6	1				18
20	10	10	8	13	14	8	7	11	6	7	5	4	3	1	2						1
19	10	7	7	6	3	2	4	1	3	4		4		1							
5	6	2	1	2		2	1		1				1								
33	19	18	14	9	9	9	2	8	6	5	6	4	2	2	1	1					1
3	6	3	3	1	3	1	2	1	2	1											
5	10	3	10	6	3	4	5	3	1	5	2	1	2								
7	2	3	8	1	3	3	3	3	3	3	2	1	1		1						
31	23	24	20	15	21	10	8	6	2	5	1	3	1	1							
59	41	64	45	40	37	41	38	31	30	26	13	12	11	2	2	2	1				5
2	1	6		1	1		4	2			1	2									
80	33	51	32	45	43	39	27	27	22	23	7	10	4	4	2	3					7
15	15	11	10	6	4	7	6	8	3		1	3	1	2							1
45	27	30	24	20	23	15	15	10	11	4	4	1	3	1							1
8	4	3	2	2	3	2	2	5	2	1	2	5	1	2							
45	24	31	22	18	24	17	7	8	7	10	5	4	2	3	2						2
11	7	7	8	6	6	6	3	4	5	1	1	3	1		1						1
1	3	2	2	1	1	1	1	3	2	1		1									
2		2	1		1																
8	4	3	5	5	4	5	2	1	3		1	2	1		1						1
119	79	79	86	73	75	68	63	44	41	23	22	21	6	10	3	2			1		
4		2		2		1															1
	1			2				1		1	1			1					1		212
3637	2755	2985	2664	2522	2323	2051	1751	1716	1286	1089	767	713	460	309	146	68	30	17	4	2	308

Table 12—Plural Births Classified to Show Number of Children Born Alive and Still-born by Sex, for the Province of Ontario, 1930

Classification of Births	Total
Cases of twins.....	839
Two males (both living).....	256
One male and one female (both living).....	245
Two females (both living).....	249
One male living and one male still-born.....	36
One male living and one female still-born.....	5
One male still-born and one female living.....	13
One female living and one female still-born.....	15
Two males (both still-born).....	10
One male and one female (both still-born).....	3
Two females (both still-born).....	7
Cases of triplets.....	6
Three males (all living).....	1
Two males and one female (all living).....	2
One male and one female living and one female still-born.....	1
One male and one female living and one male still-born.....	1
Three females (all still-born).....	1
Total multiple births.....	No. 845
	M. 880
	F. 816
Total single living births.....	No. 69,681
	M. 35,585
	F. 34,096
Total single still-births.....	No. 2,599
	M. 1,425
	F. 1,174
Total confinements.....	73,125

Table 13—Marriages in Ontario by Months, for the Province of Ontario, 1930

	Total Marriages	Months											
		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total for Province..	25,605	1,433	1,528	1,509	1,847	1,798	3,538	2,158	2,516	3,007	2,432	2,242	1,597

Table 14—Marriages—Conjugal Condition of Contracting Parties, for the Province of Ontario, 1930

	Total marriages	MARRIAGES BETWEEN									Per cent. of Bridegrooms who were			Per cent. of Brides who were		
		Bachelors and			Widowers and			Divorced men and			Bachelors	Widowers	Divorced	Spinsters	Widows	Divorced
		Spinsters	Widows	Divorced	Spinsters	Widows	Divorced	Spinsters	Widows	Divorced						
Total for the Province..	25,605	22,609	570	106	1,248	838	34	161	24	15	90.9	8.3	0.8	93.8	5.6	0.6

Table 15—Marriages Reported in Rural and Urban Parts of Counties, for the Province of Ontario, 1930

COUNTIES	Total	Rural	Urban	COUNTIES	Total	Rural	Urban
Ontario.....	25,605	5,934	19,671	Manitoulin.....	77	77	.....
Addington.....	25	25	.....	Middlesex.....	812	160	652
Algoma.....	353	79	274	Muskoka.....	130	41	89
Brant.....	378	73	305	Nipissing.....	283	108	175
Bruce.....	300	200	100	Norfolk.....	177	122	55
Carleton.....	1,159	133	1,026	Northumberland.....	165	97	68
Cochrane.....	378	158	220	Ontario.....	374	115	259
Dufferin.....	87	61	26	Oxford.....	287	100	187
Dundas.....	72	72	.....	Parry Sound.....	163	124	39
Durham.....	140	73	67	Peel.....	147	106	41
Elgin.....	265	89	176	Perth.....	288	92	196
Essex.....	1,430	130	1,300	Peterborough.....	285	81	204
Frontenac.....	309	78	231	Prescott.....	132	93	39
Glengarry.....	91	68	23	Prince Edward.....	94	56	38
Grenville.....	93	58	35	Rainy River.....	85	26	59
Grey.....	363	151	212	Renfrew.....	284	137	147
Haldimand.....	144	104	40	Russell.....	102	90	12
Haliburton.....	27	27	.....	Simcoe.....	516	202	314
Halton.....	162	49	113	Stormont.....	202	49	153
Hastings.....	420	169	251	Sudbury.....	589	148	441
Huron.....	244	161	83	Thunder Bay.....	468	30	438
Kenora.....	111	12	99	Temiskaming.....	253	166	87
Kent.....	414	116	298	Victoria.....	165	78	87
Lambton.....	306	131	175	Waterloo.....	707	100	607
Lanark.....	208	69	139	Welland.....	730	160	570
Leeds.....	205	78	127	Wellington.....	358	145	213
Lennox.....	72	26	46	Wentworth.....	1,638	128	1,510
Lincoln.....	430	90	340	York.....	7,908	623	7,285

NOTE:—"Urban" includes cities and towns of 1,000 population and over, "Rural" the remaining parts.

Table 19—Marriages—Literacy of Bridegrooms and Brides Classified by Birthplace in the Province of Ontario, 1930

Birthplace	Bridegrooms			Brides		
	Total	Illiterate	Per cent. Illiterate	Total	Illiterate	Per cent. Illiterate
Total.....	25,605	242	0.9	25,605	245	1.0
Canada.....	15,816	183	1.2	17,244	126	0.7
Prince Edward Island.....	17			8		
Nova Scotia.....	145			101		
New Brunswick.....	99	1	1.0	78		
Quebec.....	805	19	2.4	643	14	2.2
Ontario.....	13,898	161	1.2	15,377	108	0.7
Manitoba.....	149			172	2	1.2
Saskatchewan.....	65			106		
Alberta.....	29			50		
British Columbia.....	39			31		
Province not specified.....	570	2	0.4	678	2	0.3
British Isles.....	5,427	3	0.1	4,735	2	**
England.....	3,309	3	0.1	2,620		
Ireland.....	648			543		
Scotland.....	1,363			1,499	1	0.1
Wales.....	106			72	1	1.4
Other.....	1			1		
British Possessions.....	150			108	1	0.9
Newfoundland.....	79			67	1	1.5
Other.....	71			41		
Europe.....	3,047	52	1.7	2,586	106	4.1
Austria.....	138	2	1.4	125	11	8.8
Belgium.....	43			35	5	14.3
Denmark.....	67			33		
Finland.....	372	9	2.4	401	10	2.5
France.....	13			11		
Germany.....	132			97	3	3.1
Holland.....	47			29		
Hungary.....	213	2	0.9	179	7	3.9
Italy.....	210	7	3.3	112	5	4.5
Norway.....	29			20		
Poland*.....	859	8	0.9	845	27	3.2
Roumania†.....	135	5	3.7	128	11	8.6
Russia‡.....	301	14	4.7	219	10	4.6
Sweden.....	63			22		
Other.....	425	5	1.2	330	17	5.2
Asia.....	49	2	4.1	35	3	8.6
China.....	14			7		
Japan.....	3			2		
Other.....	32	2	6.3	26	3	11.5
United States.....	1,098	2	0.2	882	6	0.7
Various.....	16			8		
Not specified.....	2			7	1	14.3

*Including Galicia.

†Including Bukovina.

‡Including the Ukraine.

**Less than one-tenth of one per cent.

Table 20—Deaths of Children under One Year (exclusive of Still-births) in the Province of Ontario, by Months, Classified as Rural and Urban by Counties, 1930

Province and Counties	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Ontario.....	5260	420	420	519	495	469	364	358	395	620	525	327	348
Rural.....	1773	170	187	189	163	160	114	123	128	201	165	103	120
Urban.....	3487	250	233	330	332	309	250	235	267	419	360	224	228
Addington.....	10	1	1	1	3	.....	1	.....	1	.....	2	.....	.....
Rural.....	10	1	1	1	3	.....	1	.....	1	.....	2	.....	.....
Algoma.....	83	10	7	12	5	10	6	7	5	6	4	8	3
Rural.....	20	6	2	5	1	1	.....	2	.....	1	.....	1	1
Urban.....	63	4	5	7	4	9	6	5	5	5	4	7	2
Sault Ste. Marie	51	4	4	7	3	9	4	4	2	2	4	7	1
Blind River, t.	12	.....	1	.....	1	.....	2	1	3	.....	.....	.....	1
Brant.....	97	7	7	8	9	4	6	4	6	19	10	12	5
Rural.....	19	.....	3	2	3	1	.....	2	.....	2	.....	1	5
Urban.....	78	7	4	6	6	3	6	2	6	17	9	7	5
Brantford, c.	74	7	4	6	5	3	5	1	6	17	9	6	5
Paris, t.	4	.....	.....	.....	1	.....	1	1	.....	.....	.....	1	.....
Bruce.....	46	4	3	2	6	4	3	1	4	13	1	3	2
Rural.....	32	3	3	2	4	3	1	1	2	9	1	2	1
Urban.....	14	1	.....	.....	2	1	2	.....	2	4	.....	1	1
Chesley, t.	3	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....
Kincardine, t.	5	.....	.....	.....	.....	.....	.....	.....	1	2	.....	1	1
Southampton, t.	2	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....
Walkerton, t.	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Warton, t.	3	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....
Carleton.....	391	28	31	32	34	40	23	33	27	49	37	27	30
Rural.....	36	2	4	1	4	3	2	3	3	5	4	2	3
Urban.....	355	26	27	31	30	37	21	30	24	44	33	25	27
Ottawa, c.	331	25	26	31	25	35	18	29	22	40	33	24	23
Eastview, t.	24	1	1	.....	5	2	3	1	2	4	.....	1	4
Cochrane.....	177	14	12	6	11	11	14	15	25	32	18	11	8
Rural.....	98	7	9	5	4	7	10	11	10	14	11	4	6
Urban.....	79	7	3	1	7	4	4	4	15	18	7	7	2
Cochrane, t.	20	3	1	1	.....	1	.....	2	5	4	.....	2	1
Iroquois Falls, t.	6	.....	.....	.....	.....	1	1	1	2	2	.....	.....	.....
Trimins, t.	53	4	2	.....	7	3	3	1	8	12	7	5	1
Dufferin.....	14	.....	.....	1	2	4	2	3	1	1	.....	.....	.....
Rural.....	6	.....	.....	.....	1	.....	2	1	1	.....	.....	.....	.....
Urban.....	8	.....	.....	.....	1	1	4	2	.....	.....	.....	.....	.....
Orangeville, t.	4	.....	.....	.....	1	1	.....	2	.....	.....	.....	.....	.....
Dundas.....	21	2	3	1	1	2	3	.....	1	3	1	.....	4
Rural.....	33	2	3	1	1	2	3	.....	1	3	1	.....	4
Durham.....	31	2	1	2	5	1	3	.....	3	7	4	2	3
Rural.....	25	1	1	1	4	.....	2	.....	3	6	3	2	2
Urban.....	8	1	.....	1	1	1	1	.....	.....	1	1	.....	1
Bowmanville, t.	4	.....	.....	.....	1	1	1	.....	.....	1	1	.....	.....
Port Hope, t.	4	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Elgin.....	50	4	1	9	6	1	5	4	3	4	8	2	3
Rural.....	22	2	.....	4	3	1	2	2	1	2	3	1	1
Urban.....	28	2	1	5	3	.....	3	2	2	2	5	1	2
St. Thomas, c.	27	2	1	5	2	.....	3	2	2	2	5	1	2
Aylmer, t.	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Essex.....	279	18	36	32	25	19	16	24	24	16	29	18	22
Rural.....	73	5	8	7	6	3	1	7	11	5	8	6	6
Urban.....	206	13	28	25	19	16	15	17	13	11	21	12	16
Windsor, c.	111	8	13	16	8	10	6	9	7	8	10	8	8
East Windsor, c.	22	2	4	3	2	1	2	.....	2	.....	4	.....	2
Amherstburg, t.	3	1	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
Essex, t.	5	.....	2	.....	.....	1	1	.....	.....	.....	.....	.....	1
Kingsville, t.	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
Leamington, t.	10	1	.....	1	2	.....	.....	1	1	1	2	.....	1
Riverside, t.	6	.....	2	2	1	.....	.....	.....	1	.....	.....	.....	.....
Sandwich, t.	12	.....	1	1	1	.....	1	3	1	1	2	.....	1
Walkerville, t.	36	1	6	1	5	4	5	3	1	1	3	3	3
Frontenac.....	85	5	6	1	7	6	6	4	8	16	9	6	11
Rural.....	19	1	3	.....	1	1	2	3	1	3	1	1	2
Urban.....	66	4	3	1	6	5	4	1	7	13	8	5	9
Kingston, c.	66	4	3	1	6	5	4	1	7	13	8	5	9
Glengarry.....	26	1	4	2	2	7	2	1	1	1	4	.....	1
Rural.....	25	1	4	2	2	7	1	1	1	1	4	.....	1
Urban.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Alexandria, t.	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Grenville.....	17	2	.....	1	1	.....	3	2	2	4	1	.....	1
Rural.....	8	2	.....	1	1	.....	1	.....	1	1	.....	.....	1
Urban.....	9	.....	.....	.....	.....	.....	2	2	1	3	1	.....	.....
Prescott, t.	9	.....	.....	.....	.....	.....	2	2	1	3	1	.....	.....
Grey.....	51	8	6	6	5	1	4	3	6	6	6	3	2
Rural.....	26	5	4	4	2	.....	3	2	1	3	1	1	1
Urban.....	25	3	2	2	3	1	1	1	5	3	2	1	1
Owen Sound, c.	14	1	.....	1	1	.....	1	.....	1	5	3	.....	1
Durham, t.	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hanover, t.	7	2	1	.....	2	1	.....	.....	.....	.....	.....	.....	.....
Meaford, t.	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....

Table 20—Deaths of Children under One Year (exclusive of Still-births) in the Province of Ontario, by Months, Classified as Rural and Urban by Counties, 1930—Continued

Province and Counties	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Haldimand	30	1	3	1	3	3	2	3	1	4	3	5	1
Rural	21	1	2	1	2	3	1	1	1	2	3	4	
Urban	9		1		1		1	2		2		1	1
Dunnville, t.	9		1		1		1	2		2		1	1
Haliburton	16		1	3	2	5		2		2	1		
Rural	16		1	3	2	5		2		2	1		
Halton	25	1	3	3	3	4	2	1		1	4	1	2
Rural	12	1	2	1	1	2	2			1	2	1	1
Urban	13		1	2	3	2		1			2	1	1
Burlington, t.	4			1	1			1			1		
Georgetown, t.	3				1							1	1
Milton, t.	4		1	1	1						1		
Oakville, t.	2					2							
Hastings	118	10	7	10	9	11	6	4	9	18	16	6	12
Rural	69	7	5	9	5	7	3	3	4	6	10	2	8
Urban	49	3	2	1	4	4	3	1	5	12	6	4	4
Belleville, c.	27	1	1	1	3	3	2	1	2	6	2	3	2
Deseronto, t.	3				3	1	1		1				
Trenton, t.	19	2	1		1				2	6	4	1	2
Huron	45	5	3	4	5	4	6	4	2	4	5	1	2
Rural	26	3	2	4	2	3	5	1	3	3	2	1	1
Urban	19	2	1		3	1	1	3	2	1	3	1	1
Clinton, t.	2				1					1			
Goderich, t.	4		1				1				2		
Seaforth, t.	7	1			1			2	1		1	1	
Wingham, t.	6	1			1	1							1
Kenora	39	3	1	7	3	7	2	3	4	2	4	2	1
Rural	18	1	1	4	1	6	1	1	1	2	2	1	1
Urban	21	2		3	3	1	1	2	4	1	2	1	1
Dryden, t.	3				3	1		1			1		
Kenora, t.	3			3	2	1	1	1	3	1	1	1	
Siox Lookout, t.	5	2			3	2	1						
Kent	98	8	8	10	5	5	6	1	10	14	9	5	17
Rural	36	3	1	4	2	2	4	5	3	8	5	1	3
Urban	62	5	7	6	3	3	2	6	7	6	9	4	4
Chatham, c.	47	4	4	5	3	2	1	4	6	5	8	2	3
Blenheim, t.	1	1											1
Dresden, t.	2					1						1	1
Ridgetown, t.	2		1										
Tilbury, t.	1						1						
Wallaceburg, t.	9	2	1				2	1		1	1	1	
Lambton	56	6	4	2	5	4	6	6	4	5	7	4	3
Rural	29	3	4	1	3	1	3	2	1	2	4	2	3
Urban	27	3		1	2	3	3	4	3	3	3	2	
Sarnia, c.	22			1	2	2	3	3	3	3	3	2	
Petrolia, t.	5	3			1		1						
Lanark	43	2	3	1	7	8	4	3	1	4	5	3	2
Rural	9	1	1		2	1	1	1	1		2	1	1
Urban	34	1	2	1	5	8	4	2		4	5	1	1
Carleton Place, t.	4				2	1				1			
Perth, t.	17	1	2		3	2	2	1		2	3		1
Smith's Falls, t.	13			1	2	4	1	1		1	2	1	
Leeds	40	3	5	4	3	5	6	5	3	3	2	5	1
Rural	16	1	1	1	1	2	3		2		2	3	
Urban	24	2	4	3	2	3	3		1	3		2	1
Brockville, t.	22	2	4	3	2	3	2		1	3		2	
Gananoque, t.	2					1							1
Lennox	6			1		1		1		1	1		1
Rural	3			1						1			1
Urban	3					1		1			1		
Napanee, t.	3					1					1		
Lincoln	69	1	5	4	6	6	4	1	8	9	8	10	7
Rural	22		1	2	2	2	1		6	2	1	2	3
Urban	47	1	4	2	4	4	3	1	2	7	7	8	4
St. Catharines, c.	42	1	4	2	4	3	3	1	2	4	7	8	3
Grimsby, t.	2									2			
Merriton, t.	1					1							
Niagara, t.	2									1			1
Manitowlin	19	1		2	1	1	1	1	2	4		4	2
Rural	19	1		2	1	1	1	1	2	4		4	2
Middlesex	137	10	14	13	18	9	9	5	12	15	19	1	12
Rural	27	2	3	4	2	3	2	1	4	2	3		3
Urban	110	8	11	9	16	6	7	4	8	13	16	1	9
London, c.	102	8	9	8	15	5	7	4	8	13	16	1	8
Parkhill, t.	1					1							
Strathroy, t.	7		2	1	1	1							1
Muskoka	29	1	1	6	5	3	1	1	3	2	1	1	4
Rural	12		1		1	3			2	1	1		3
Urban	17	1		6	4		1	1	1	1		1	1
Bracebridge, t.	6			4								1	1
Gravenhurst, t.	4	1			3								
Huntsville, t.	7			2			1	1	1	1			

Table 20—Deaths of Children under One Year (exclusive of Still-births) in the Province of Ontario, by Months, Classified as Rural and Urban by Counties, 1930—Continued

Province and Counties	Total	MONTHS											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Nipissing.....	140	15	8	15	11	20	8	10	10	16	12	10	5
Rural.....	70	9	5	10	5	9	3	5	3	10	3	5	3
Urban.....	70	6	3	5	6	11	5	5	7	6	9	5	2
North Bay, c.....	47	3	.....	3	4	8	3	5	5	4	8	2	2
Mattawa, t.....	4	.....	.....	1	1	.....	.....	.....	.....	1	.....	.....	.....
Sturgeon Falls, t.....	19	3	3	2	1	2	2	.....	2	1	1	2	.....
Norfolk.....	51	3	1	7	3	1	3	6	3	11	8	2	3
Rural.....	34	2	1	7	2	1	2	4	3	7	3	2	3
Urban.....	17	1	.....	.....	1	.....	.....	.....	.....	4	5	.....	.....
Simcoe, t.....	17	1	.....	.....	.....	1	2	.....	2	7	5	.....	.....
Northumberland.....	31	6	2	5	2	1	1	1	3	2	5	2	1
Rural.....	14	4	1	4	.....	1	1	1	1	1	3	1	.....
Urban.....	17	2	1	1	2	.....	.....	.....	2	1	2	.....	.....
Campbellford, t.....	5	.....	.....	2	1	.....	.....	.....	.....	2	.....	.....	.....
Cobourg, t.....	12	1	.....	2	1	.....	1	2	.....	1	1	1	.....
Ontario.....	101	11	11	8	10	6	5	5	9	15	17	3	1
Rural.....	31	5	3	.....	4	2	2	4	2	2	5	1	1
Urban.....	70	6	8	8	6	4	3	1	7	13	12	2	.....
Oshawa, c.....	66	5	7	8	5	4	2	1	7	13	12	2	.....
Uxbridge, t.....	2	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Windsor, t.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Oxford.....	54	4	4	2	5	8	7	1	3	7	7	4	2
Rural.....	25	3	1	1	1	4	5	1	.....	4	2	2	1
Urban.....	29	1	3	1	4	4	2	.....	3	3	5	2	1
Woolstock, c.....	15	1	1	1	3	2	.....	.....	3	1	2	2	.....
Ingersoll, t.....	10	1	2	.....	2	2	.....	.....	.....	2	.....	.....	1
Tillsonburg, t.....	4	.....	.....	1	.....	.....	.....	.....	.....	2	1	.....	.....
Parry Sound.....	48	4	2	4	4	4	3	4	4	7	8	2	2
Rural.....	42	4	2	3	4	3	1	4	3	7	7	2	2
Urban.....	6	.....	.....	1	.....	1	2	.....	1	.....	1	.....	.....
Peel.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Parry Sound, t.....	21	4	2	4	.....	1	1	.....	3	2	1	2	1
Rural.....	11	2	1	2	.....	.....	.....	.....	3	1	1	1	.....
Urban.....	10	2	1	2	.....	1	1	.....	.....	1	.....	.....	1
Brampton, t.....	10	2	1	2	.....	1	1	.....	.....	1	.....	1	1
P Perth.....	47	4	1	4	3	5	7	.....	5	5	5	2	6
Rural.....	24	3	.....	1	1	4	5	.....	1	2	4	.....	3
Urban.....	23	1	1	3	2	1	2	.....	4	3	1	2	3
Stratford, c.....	17	1	1	3	1	.....	1	.....	3	2	1	2	.....
Listowel, t.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Mitchell, t.....	2	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....
St. Mary's, t.....	3	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1
Peterborough.....	59	4	7	7	7	5	2	3	1	2	8	6	7
Rural.....	12	2	1	1	1	1	.....	1	.....	2	.....	1	2
Urban.....	47	2	6	6	6	4	2	2	1	.....	8	5	5
Peterborough, c.....	47	2	6	6	6	4	2	2	1	.....	8	5	5
Prescott.....	70	6	7	10	9	7	3	7	6	9	3	2	1
Rural.....	46	4	3	8	9	4	3	2	2	6	3	2	.....
Urban.....	24	2	4	2	.....	3	.....	5	4	3	.....	.....	1
Hawkesbury, t.....	21	1	4	2	.....	2	.....	4	4	3	.....	.....	1
Vankleek Hill, t.....	3	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Prince Edward.....	21	4	.....	3	.....	1	2	1	3	3	3	.....	1
Rural.....	15	3	.....	.....	.....	1	.....	1	3	3	3	.....	1
Urban.....	6	1	.....	3	.....	.....	2	.....	.....	.....	.....	.....	.....
Picton, t.....	6	1	.....	3	.....	.....	2	.....	.....	.....	.....	.....	.....
Rainy River.....	28	1	2	3	2	3	2	3	3	3	3	1	2
Rural.....	12	1	2	1	.....	3	1	1	1	.....	.....	.....	2
Urban.....	16	.....	.....	2	2	.....	1	2	2	3	2	1	1
Fort Francis, t.....	15	.....	.....	2	.....	1	2	.....	2	3	.....	.....	1
Rainy River, t.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Renfrew.....	116	11	11	9	12	8	7	7	12	15	10	8	6
Rural.....	55	6	7	7	6	2	2	6	5	4	2	4	4
Urban.....	61	5	4	2	6	6	5	1	7	11	8	4	2
Arnprior, t.....	5	1	.....	1	.....	.....	.....	1	.....	.....	.....	1	.....
Pembroke, t.....	45	4	2	.....	5	2	5	.....	6	9	8	2	2
Renfrew, t.....	11	.....	2	1	.....	4	.....	.....	1	2	.....	1	.....
Russell.....	49	6	3	4	3	2	5	3	4	6	6	7	.....
Rural.....	43	6	3	4	3	2	3	3	3	6	4	6	.....
Urban.....	6	.....	.....	.....	.....	.....	.....	.....	1	.....	2	1	.....
Rockland, t.....	6	.....	.....	.....	.....	.....	.....	.....	1	.....	2	1	.....
Simcoe.....	111	10	10	10	11	10	8	11	5	14	9	5	8
Rural.....	47	8	3	4	5	6	3	1	3	4	3	3	4
Urban.....	64	2	7	6	6	4	5	10	2	10	6	2	4
Alliston, t.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Barrie, t.....	6	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	3
Collingwood, t.....	15	1	1	.....	1	1	3	.....	1	.....	2	1	1
Midland, t.....	15	1	.....	.....	1	.....	1	2	.....	7	2	.....	.....
Orillia, t.....	14	.....	3	3	2	2	1	2	.....	1	1	.....	.....
Penetanguishene, t.....	13	.....	2	2	2	1	1	2	.....	1	.....	1	.....
Stormont.....	79	5	7	8	7	3	3	5	4	11	8	7	5
Rural.....	40	3	4	5	4	2	3	7	4	4	4	2	3
Urban.....	39	2	3	3	3	1	3	2	4	7	4	5	2
Corwall, t.....	39	2	3	3	3	1	3	2	4	7	4	5	2

Table 21—Total Deaths (exclusive of Still-births) and Deaths in Public Institutions of Children Under One Year of Age, Showing the Number Non-Resident in the Province of Ontario, 1930

	All Deaths under One Year						Deaths in Public Institutions					
	Total			Non-resident in Province			Total			Non-resident in Province		
	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.
Total for the Province . . .	5,260	2,962	2,298	34	15	19	2,098	1,186	912	31	15	16

Table 23—Deaths of Children under One Year (exclusive of Still-births), by Age at Death, in the Province of Ontario, 1930

Ages	Total
All infants.....	5,260
	M. 2,962
	F. 2,298
Under 1 day.....	1,089
	M. 611
	F. 478
1 day.....	301
	M. 176
	F. 125
2 days.....	245
	M. 141
	F. 104
3 days.....	177
	M. 110
	F. 67
4 days.....	123
	M. 72
	F. 51
5 days.....	95
	M. 51
	F. 44
6 days.....	53
	M. 22
	F. 31
Under 1 week.....	2,083
	M. 1,183
	F. 900
1 week and under 2 weeks.....	290
	M. 152
	F. 138
2 weeks and under 3 weeks.....	202
	M. 108
	F. 94
3 weeks and under 1 month.....	186
	M. 98
	F. 88
Under 1 month.....	2,761
	M. 1,541
	F. 1,220
1 month and under 2 months.....	446
	M. 253
	F. 193
2 months and under 3 months.....	355
	M. 198
	F. 157
3 months and under 4 months.....	303
	M. 178
	F. 125
4 months and under 5 months.....	260
	M. 149
	F. 111
5 months and under 6 months.....	202
	M. 113
	F. 89
6 months and under 7 months.....	223
	M. 131
	F. 92
7 months and under 8 months.....	189
	M. 101
	F. 88
8 months and under 9 months.....	155
	M. 91
	F. 64
9 months and under 10 months.....	173
	M. 104
	F. 69
10 months and under 11 months.....	117
	M. 64
	F. 53
11 months and under 12 months.....	76
	M. 39
	F. 37

Table 24—Deaths of Children under One Year of Age (exclusive of Still-births) Classified According to Racial Origin of Decedents, in the Province of Ontario, 1930

Racial Origin	Total
All origins.....	5,260
English.....	1,880
Irish.....	722
Scotch.....	578
Welsh.....	11
French.....	998
Armenian.....	6
Austrian.....	31
Belgian.....	14
Bulgarian.....	4
Chinese.....	4
Czech and Slovak.....	20
Danish.....	11
Dutch.....	47
Finnish.....	36
German.....	184
Greek.....	15
Hindu.....	..
Hungarian.....	40
Icelandic.....	1
Indian.....	106
Italian.....	100
Japanese.....	..
Jewish.....	39
Negro.....	19
Norwegian.....	3
Polish.....	117
Roumanian.....	19
Russian.....	35
Serb and Croat.....	30
Swedish.....	19
Swiss.....	2
Syrian.....	6
Ukrainian*.....	59
Other.....	5
Not specified.....	99

*Including "Galician" and "Bukovinian."

Asia.....	17	2	25	15	369	3084	36	17	5	1104	522	103	231	11	2	14	8	36	14	9	41	1	19	15	40	68	2108	21	66	13	74	1	7	1	7		
China.....	6				1	3							1																								
Japan.....	11				1	65				7	3										1																
Other.....	122	2	1	12	1					9	27	8	10								1		3														
United States.....	352	2	1	42	200	2	2			9	27	8	10								1		3														
Various.....																																					
Not specified.....																																					
Total.....	5260	2	25	15	369	3084	36	17	5	1104	522	103	231	11	2	14	8	36	14	9	41	1	19	15	40	68	2108	21	66	13	74	1	7	1	7	1	7

*Including "Galicia."
 †Including "Bukovina."
 ‡Including the "Ukraine."

Table 26—Deaths of Children (exclusive of Still-births) from Certain Specified Causes in First Year of Life by Months, Ontario, 1930

CAUSES OF DEATH	MONTH OF DEATH																									
	Total under 1 year		Jan.		Feb.		March		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Total	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.
ALL CAUSES, Total	5260	2962	2298	232	188	211	209	281	238	294	201	284	185	216	148	205	224	171	349	271	301	224	171	156	194	154
7. Measles	24	19	5	2	1	1	4	3	6	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
8. Scarlet fever	127	72	55	9	4	7	4	6	4	8	9	9	4	5	2	4	3	3	16	4	8	1	3	2	5	6
9. Whooping-cough	16	8	8	1	2	2	1	2	2	1	1	1	1	2	2	2	2	2	4	8	1	3	2	2	5	6
10. Diphtheria	85	54	31	6	3	3	1	8	5	5	4	5	4	1	3	1	2	2	6	7	9	6	3	2	2	1
11. Influenza	36	19	17	3	2	1	2	3	3	2	3	2	3	5	1	2	2	2	2	6	7	9	6	3	2	2
21. Erysipelas	9	6	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22. Acute poliomyelitis	2	2	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23. Meningococcus meningitis	9	6	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24. Tetanus	2	2	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29. Tuberculosis of the respiratory system	20	13	7	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31. Tuberculosis of the meninges and central nervous system	15	10	5	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33-37. Tuberculosis, other forms	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38. Syphilis	25	13	12	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41. Pyloric infection, septicæmia	23	7	16	1	1	1	7	1	2	2	2	2	2	1	1	1	1	1	2	2	2	2	1	1	1	1
56. Rickets	34	17	17	1	1	2	3	1	2	1	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62. Diseases of the thymus	59	27	32	1	4	2	3	4	5	3	3	3	2	1	3	1	2	6	2	2	4	4	1	1	1	2
67. Eczema	6	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70. Encephalitis	40	22	18	1	1	3	2	1	1	5	1	3	2	2	3	1	1	1	2	2	1	6	2	2	1	1
71A. Simple meningitis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71B. Non-purulent cerebrospinal meningitis	57	32	25	5	1	3	1	4	4	1	7	5	1	1	1	3	2	2	1	1	4	3	4	1	5	5
80. Convulsions	25	15	10	1	3	1	7	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
86. Diseases of the ear and of the mastoid process	34	20	14	1	1	3	4	1	4	3	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1
99. Bronchitis	343	192	151	18	16	33	18	30	27	21	25	12	9	2	7	5	5	4	10	8	13	7	13	16	10	10
100. Broncho-pneumonia	187	105	82	14	11	11	5	15	13	25	8	10	6	4	3	3	1	4	3	5	5	11	4	3	10	9
101. Pneumonia	43	21	22	3	2	3	3	3	1	4	3	2	2	1	2	1	2	1	2	5	4	1	2	1	1	1
110-112. Diseases of the stomach	856	490	366	17	10	10	9	14	12	12	6	18	16	18	13	15	19	90	45	157	125	96	72	26	28	17
113. Diarrhoea and enteritis	36	25	11	2	2	4	1	1	4	2	2	2	2	2	2	1	2	2	5	4	4	1	1	1	1	2
118. Hernia, intestinal obstruction	7	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
128. Nephritis	10	6	4	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
153. Acute abscess	45	26	19	19	17	29	16	29	18	31	17	17	11	21	11	18	15	17	16	24	17	24	13	17	8	18
159. Malformations	32	19	13	2	1	4	1	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
159A. Congenital hydrocephalus	175	111	64	7	7	9	2	10	4	14	10	16	7	6	4	12	3	4	5	11	7	11	4	6	3	5
159B. Congenital malformations of the heart	247	138	109	12	11	10	11	18	8	11	8	14	10	14	7	6	12	12	10	12	9	10	8	7	5	12
159C. Others under this title	391	233	158	8	9	20	18	15	6	15	25	20	15	10	29	13	12	9	31	17	25	14	13	17	15	10
160. Congenital debility icterus and sole-remia	1456	796	660	56	63	49	66	76	70	88	69	83	61	81	53	71	51	60	47	52	46	66	49	53	43	61
161A. Premature birth	297	176	121	18	9	9	19	23	18	19	13	21	5	13	11	12	6	9	8	13	10	15	9	10	7	14
161B. Injury at birth	254	128	126	12	14	9	15	14	18	13	8	15	8	13	10	15	13	5	8	7	4	7	5	7	11	11
162. Other diseases peculiar to early infancy	254	128	126	12	14	9	15	14	18	13	8	15	8	13	10	15	13	5	8	7	4	7	5	7	11	11

162A. Specified diseases.....	241	120	121	12	13	9	14	13	17	12	8	14	8	13	10	13	12	5	7	7	4	6	5	6	11	10	12	
162B. Unspecified causes under 3 months....	13	8	5	1	1	1	1	1	1	1	1	2	1	1	1	1	1
175-203. External causes.....	72	36	36	6	2	4	1	6	4	3	3	3	2	2	7	3	2	4	1	2	3	3	2	3	6
Other specified causes.....	184	104	80	14	9	10	13	12	11	15	4	9	5	8	6	5	7	1	4	7	6	8	6	8	5	7	4	
204-205. Unspecified or ill-defined causes....	21	12	9	2	.....	2	.....	2	1	1	1	1	.....	.....	3	2	.....	1	1	1	.....	.....	.....	.....	3	1	.....

Table 27—Deaths of Children (exclusive of Still-births) from Certain Specified

CAUSES OF DEATH	Total	Total under 1 year		Under 1 day		1 day and under 1 week		1 week and under 2 weeks		2 weeks and under 3 weeks	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
		ALL CAUSES. Total.....	5,260	2,962	2,298	611	478	572	422	152	138	108	94
7. Measles.....	24	19	5								
8. Scarlet fever.....	2		2								
9. Whooping-cough.....	127	72	55							1	
10. Diphtheria.....	16	8	8								
11. Influenza.....	85	54	31			1				2	
21. Erysipelas.....	36	19	17					2	1	1	3
22. Acute poliomyelitis.....	5	2	3								
24. Meningococcus meningitis.....	9	6	3								
29. Tetanus.....	2					1				1	
31. Tuberculosis of the respiratory system.....	20	13	7								
32. Tuberculosis of the meninges and central nervous system.....	15	10	5								
33-37. Tuberculosis, other forms.....	4	4									
38. Syphilis.....	25	13	12	2	3	1	1	1	1		2
41. Purulent infection, septicaemia.....	23	7	16				1	1	1	2	2
56. Rickets.....	34	17	17								
62. Diseases of the thymus.....	59	27	32	2		7	9		2		1
70. Encephalitis.....	6	3	3								
71A. Simple meningitis.....	40	22	18			2				1	
71B. Non-epidemic, cerebrospinal meningitis.....	1	1									
80. Convulsions.....	57	32	25	1	2	10	9	1	2	3	2
86. Diseases of the ear and of the mastoid process.....	25	15	10								2
99. Bronchitis.....	34	20	14					3			1
100. Broncho-pneumonia.....	343	192	151			11	4	7	1	9	9
101. Pneumonia.....	187	105	82	2		3	5	2	3	3	1
110-112. Diseases of the stomach.....	42	21	22			1		1	2	2	2
113. Diarrhoea and enteritis.....	856	490	366	1		4	6	11	8	8	7
118. Hernia, intestinal obstruction.....	36	25	11			2	1				
128. Nephritis.....	7	4	3								
153. Acute abscess.....	10	6	4								
159. Malformations.....	454	268	186	54	32	84	54	22	22	7	8
159A. Congenital hydrocephalus.....	32	19	13	5	3	2	6	1			
159B. Congenital malformations of the heart.....	175	111	64	26	11	46	29	5	5	3	1
159C. Others under this title.....	247	138	109	23	18	36	19	16	17	4	7
160. Congenital debility, icterus and sclerema.....	391	233	158	24	16	48	35	19	11	16	13
161A. Premature birth.....	1,456	796	660	405	328	243	180	53	58	25	24
161B. Injury at birth.....	297	176	121	55	43	97	63	9	8	9	2
162. Other diseases peculiar to early infancy.....	254	128	126	48	42	48	47	15	16	11	8
162A. Specified diseases.....	241	120	121	43	41	47	45	14	15	11	8
162B. Unspecified causes under 3 months.....	13	8	5	5	1	1	2	1	1		
175-203. External causes.....	72	36	36	12	8	1	2		2		
Other specified causes.....	184	104	80	2	3	7	3	4		7	7
204-205. Unspecified or ill-defined causes.....	21	12	9	3	1	1	2				

Causes in First Year of Life, by Ages, for the Province of Ontario, 1930

AGE AT DEATH

3 weeks & under 1 month		1 month & under 2 months		2 months & under 3 months		3 months & under 4 months		4 months & under 5 months		5 months & under 6 months		6 months & under 7 months		7 months & under 8 months		8 months & under 9 months		9 months & under 10 months		10 months & under 11 months		11 months & under 12 months	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
98	88	253	193	198	157	178	125	149	111	113	89	131	92	101	88	91	64	104	69	64	53	39	37
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	20	9	6	9	7	8	6	6	4	2	1	4	5	4	6	4	4	4	4	3	3	2	2
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	6	4	7	3	7	1	5	1	1	3	4	4	5	3	3	2	1	6	2	6	3	2	2
2	10	8	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	2	3	1	1	2	1	2	1	1	1	1	2	1	1	1	1	2	1	1	2	2	1
1	1	1	1	5	1	1	1	1	1	1	1	1	2	3	3	2	2	4	2	1	2	1	1
3	6	4	2	2	3	3	1	1	2	1	2	1	2	1	2	2	1	1	2	1	2	1	1
2	2	2	2	3	3	1	1	1	2	1	1	1	1	1	1	1	1	1	2	1	2	1	1
1	4	4	1	1	2	1	2	1	2	1	3	3	2	2	1	1	1	4	1	3	1	1	1
1	1	1	4	1	2	2	2	1	4	1	2	2	1	3	1	1	1	1	2	1	1	1	1
1	2	1	2	1	3	1	3	1	1	2	2	1	1	3	1	1	1	1	1	1	1	1	1
1	3	5	1	4	3	1	3	1	3	1	3	1	1	1	1	1	2	2	1	1	1	1	1
7	2	21	15	16	17	18	16	15	13	13	11	19	14	13	15	13	12	11	8	11	10	8	4
4	4	7	8	15	8	9	11	13	6	4	7	9	8	3	3	6	2	11	7	11	6	3	3
1	3	4	1	1	4	1	3	2	2	3	1	2	2	1	1	4	1	4	1	1	1	1	1
16	14	41	45	57	37	57	45	65	47	52	33	52	25	34	29	38	26	3	22	11	12	10	10
1	1	2	3	1	5	2	1	4	2	2	1	2	3	4	1	1	2	2	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	9	28	14	12	13	15	9	6	7	6	2	6	4	6	6	2	3	5	2	3	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1
1	1	4	2	4	4	9	3	3	2	1	1	2	2	4	2	1	2	2	1	1	1	1	1
10	7	23	12	7	9	5	2	4	3	1	3	1	1	1	1	3	1	1	2	1	1	1	1
12	14	47	26	38	20	7	6	5	3	4	8	2	2	2	3	2	1	1	1	1	1	1	1
24	25	28	27	8	13	7	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	3	2	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	5	3	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	4	2	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	2	1	6	3	3	3	1	1	1	2	2	2	3	4	2	1	2	2	2	2	2	2
6	1	6	7	8	5	13	6	9	11	6	8	6	3	8	8	3	4	7	5	8	3	4	6
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Table 28—Total Deaths (exclusive of Still-births and Deaths in Public Institutions, Showing the Number Non-Resident in the Province of Ontario, 1930

	All Deaths						In Public Institutions					
	Total			Non-resident in Province			Total			Non-resident in Province		
	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.
Total for the Province	37,313	19,827	17,486	491	312	179	12,513	7,024	5,489	289	178	111

Table 29—Total Deaths (exclusive of Still-births) and Deaths in Public Towns of 5,000 Population and

Cities and Towns	ALL DEATHS												DEATHS		
										Total					
	Total			Residents			Non-resident in City or Town where Death Occurred and								
	Total	M.	F.	Total	M.	F.	Resident in Province			Non-resident in Province			Total	M.	F.
Total							M.	F.	Total	M.	F.				
Cities:															
Belleveille.....	242	142	100	172	101	71	66	39	27	4	2	2	123	74	49
Brantford.....	395	186	209	324	145	179	66	39	27	5	2	3	209	103	106
Chatham.....	320	169	151	217	109	108	101	59	42	2	1	1	167	86	81
East Windsor.....	58	30	28	55	28	27	2	1	1	1	1	1			
Fort William.....	208	127	81	189	110	79	17	15	2	2	2		113	67	46
Galt.....	189	93	96	159	74	85	28	18	10	2	1	1	93	52	41
Guelph.....	233	129	104	165	83	82	59	40	19	9	6	3	132	74	58
Hamilton.....	1506	759	747	1343	663	680	154	87	67	9	9		717	388	329
Kingston.....	512	277	235	345	168	177	157	100	57	10	9	1	329	188	141
Kitchener.....	348	180	168	283	141	142	64	38	26	1	1	1	166	96	70
London.....	1080	538	542	871	392	479	199	139	60	10	7	3	619	347	272
Niagara Falls.....	209	110	99	169	84	85	34	21	13	6	5	1	85	47	38
North Bay.....	180	105	75	144	81	63	34	22	12	2	2		72	50	22
Oshawa.....	234	114	120	208	100	108	26	14	12				108	54	54
Ottawa.....	1747	932	815	1443	759	684	180	108	72	124	65	59	1026	563	463
Owen Sound.....	157	87	70	126	68	58	30	18	12	1	1		54	33	21
Peterborough.....	304	165	139	248	135	113	54	28	26	2	2		159	85	74
Port Arthur.....	241	139	102	182	100	82	58	39	19	1		1	157	94	63
St. Catharines.....	322	156	166	238	103	135	79	51	28	5	2	3	154	87	67
St. Thomas.....	228	129	99	184	96	88	35	25	10	9	8	1	118	69	49
Sarnia.....	238	141	97	200	117	83	38	24	14				87	54	33
Sault Ste. Marie.....	230	137	93	214	128	86	14	7	7	2	2		71	47	24
Stratford.....	208	115	93	179	98	81	26	14	12				96	57	39
Sudbury.....	296	195	101	214	136	78	75	54	21	7	5	2	158	114	44
Toronto.....	7057	3661	3396	6356	3264	3092	668	377	291	33	20	13	3605	2023	1582
Welland.....	165	86	79	110	56	54	52	29	23	3	1	2	93	48	45
Windsor.....	612	340	302	473	238	235	124	65	59	15	7	8	264	132	132
Woodstock.....	162	80	82	126	60	66	34	19	15	2	1	1	75	42	33
Towns:															
Barrie.....	110	63	47	76	44	32	33	18	15	1	1		47	24	23
Brockville.....	187	96	91	122	57	65	57	35	22	8	4	4	125	68	57
Cobourg.....	126	48	78	103	34	69	22	13	9	1	1		62	23	39
Collingwood.....	119	64	55	84	44	40	35	20	15				51	30	21
Cornwall.....	225	118	107	144	71	73	75	42	33	6	5	1	152	76	76
Eastview.....	54	24	30	53	24	29	1		1						
Hawkesbury.....	82	41	41	64	34	30	10	3	7	8	4	4	23	9	14
Ingersoll.....	56	29	27	45	22	23	11	7	4				21	13	8
Kenora.....	63	40	23	45	29	16	15	10	5	3	1	2	45	27	18
Lindsay.....	122	61	61	87	40	47	35	21	14				55	34	21
Midland.....	66	35	31	54	26	28	12	9	3				33	15	18
Orillia.....	144	71	73	101	47	54	42	24	18	1		1	57	31	26
Pembroke.....	189	102	87	120	64	56	57	32	25	12	6	6	111	62	49
Preston.....	38	21	17	29	13	16	7	6	1	2	2		5	4	1
Smith's Falls.....	97	55	42	72	42	30	25	13	12				44	19	25
Trenton.....	76	41	35	74	40	34	1		1	1	1				
Walkerville.....	203	132	71	54	34	20	145	95	50	4	3	1	161	106	55
Waterloo.....	52	27	25	49	25	24	3	2	1				17	12	5
Brampton.....	87	44	43	77	38	39	10	6	4				27	9	18
Dundas.....	67	34	33	62	32	30	5	2	3				16	4	2
Fort Frances.....	59	43	16	50	35	15	7	6	1	2	2		26	4	2
Leamington.....	55	31	24	51	29	22	4	2	2				3	2	1
Mimico.....	37	13	24	32	12	20	5	1	4				2	1	1
New Toronto.....	77	44	33	51	30	21	26	14	12				46	26	20
Port Colborne.....	47	22	25	47	22	25							1		1
Renfrew.....	73	35	38	51	22	29	19	11	8	3	2	1	33	21	12
Sandwich.....	76	34	42	59	26	33	16	8	8	1		1	13	4	9
Thorold.....	41	21	20	38	19	19	3	2	1						
Timmins.....	126	78	48	115	73	42	11	5	6				56	34	22
Whitby.....	161	85	76	121	61	60	40	24	16				128	70	58

Institutions, Classified According to Residence of Decedents in Cities and Over, in the Province of Ontario, 1930

IN PUBLIC INSTITUTIONS									DEATHS ELSEWHERE THAN IN PUBLIC INSTITUTIONS																	
Residents			Non-resident in City or Town where Death Occurred and									Total			Residents			Non-resident in City or Town where Death Occurred and								
			Resident in Province			Non-resident in Province												Resident in Province			Non-resident in Province					
Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.						
62	38	24	59	36	23	2	1	2	119	68	51	110	63	47	7	3	4	2	2	1						
142	63	79	64	39	25	3	1	2	186	83	103	182	82	100	2	2	2	2	1	1						
74	31	43	91	54	37	2	1	1	153	83	70	143	78	65	10	5	5	1	1	1						
99	55	44	14	12	2	2	1	1	95	60	35	55	28	27	2	1	1	2	2	2						
64	33	31	27	18	9	2	1	1	96	41	55	90	55	35	3	3	3	1	1	1						
69	31	38	54	37	17	9	6	3	101	55	46	96	52	44	5	3	2	2	2	2						
570	302	268	139	78	61	8	8	1	789	371	418	773	361	412	15	9	6	1	1	1						
174	86	88	146	93	53	9	9	1	183	89	94	171	82	89	11	7	4	1	1	1						
109	62	47	56	33	23	1	1	1	182	84	98	174	79	95	8	5	3	1	1	1						
423	210	213	189	132	57	7	5	2	461	191	270	448	182	266	10	7	3	3	2	1						
50	25	25	30	18	12	5	4	1	124	63	61	119	59	60	4	3	1	1	1	1						
42	29	13	28	19	9	2	2	2	108	55	53	102	52	50	6	3	3	1	1	1						
83	40	43	25	14	11	1	1	1	126	60	66	125	60	65	1	2	1	1	1	1						
745	404	341	168	99	69	113	60	53	721	369	352	698	355	343	12	9	3	11	5	6						
26	16	10	27	16	11	1	1	1	103	54	49	100	52	48	3	2	1	1	1	1						
105	56	49	52	27	25	2	2	2	145	80	65	143	79	64	2	1	1	1	1	1						
105	60	45	52	34	18	1	1	1	84	45	39	77	40	37	6	5	1	1	1	1						
75	37	38	57	48	27	4	2	2	168	69	99	163	66	97	4	3	1	1	1	1						
80	42	38	31	21	10	7	6	1	110	60	50	104	54	50	4	4	2	2	2	2						
59	37	22	28	17	11	1	1	1	151	87	64	141	80	61	10	7	3	1	1	1						
58	39	19	12	7	5	1	1	1	159	90	69	156	89	67	2	2	2	1	1	1						
71	44	27	25	13	12	1	1	1	112	58	54	108	54	34	1	1	3	3	3	3						
85	61	24	68	49	19	5	4	1	138	81	57	129	75	54	7	5	2	1	1	1						
2994	1662	1332	590	347	243	21	14	7	3452	1638	1814	3362	1602	1760	78	30	48	12	6	6						
41	19	22	49	28	1	3	1	2	72	38	34	69	37	32	3	1	2	2	2	2						
138	66	72	116	61	55	10	5	5	348	178	170	335	172	163	8	4	4	5	2	3						
42	23	19	32	19	13	1	1	1	87	38	49	84	37	47	2	2	2	1	1	1						
20	10	10	26	13	13	1	1	1	63	39	24	56	34	22	7	5	2	1	1	1						
61	30	31	56	34	22	8	4	4	62	28	34	61	27	34	1	1	1	1	1	1						
41	11	30	20	11	9	1	1	1	64	25	39	62	23	39	2	2	2	1	1	1						
21	12	9	30	18	12	1	1	1	68	34	34	63	32	31	5	2	3	1	1	1						
72	30	42	75	42	33	5	4	1	73	42	31	72	41	31	1	1	1	1	1	1						
7	2	5	10	3	7	6	4	2	54	24	30	53	24	29	1	1	1	1	1	1						
10	6	4	11	7	4	2	2	2	35	16	19	35	16	19	1	1	1	1	1	1						
29	18	11	14	9	5	2	2	2	18	13	5	16	11	5	1	1	1	1	1	1						
22	14	8	33	20	13	1	1	1	67	27	40	65	26	39	2	1	1	1	1	1						
23	8	15	10	7	3	1	1	1	33	20	13	31	18	13	2	2	2	1	1	1						
22	12	10	34	19	15	1	1	1	87	40	47	79	35	44	8	5	3	1	1	1						
45	26	19	55	30	25	11	6	5	78	40	38	75	38	37	2	2	2	1	1	1						
1	1	1	3	3	1	1	1	1	33	17	16	28	13	15	4	3	1	1	1	1						
22	8	14	22	11	11	1	1	1	53	36	17	50	34	16	3	2	1	1	1	1						
15	10	5	142	93	49	4	3	1	76	41	35	74	40	34	1	1	1	1	1	1						
12	8	4	5	4	1	1	1	1	42	26	16	39	24	15	3	2	1	1	1	1						
24	9	15	3	3	3	1	1	1	52	27	25	49	25	24	3	2	1	1	1	1						
12	10	2	3	3	1	1	1	1	70	32	38	65	30	35	5	2	3	1	1	1						
2	1	1	1	1	1	1	1	1	40	25	15	38	23	15	2	2	1	1	1	1						
25	13	12	21	13	8	1	1	1	43	29	14	38	25	13	4	3	1	1	1	1						
1	1	1	1	1	1	1	1	1	52	29	23	49	28	21	3	1	2	1	1	1						
15	10	5	16	9	7	2	2	2	35	12	23	32	12	20	3	3	3	1	1	1						
1	1	1	1	1	1	1	1	1	31	18	13	26	17	9	5	1	4	1	1	1						
48	31	17	8	3	5	1	1	1	46	22	24	46	22	24	3	2	1	1	1	1						
91	47	44	37	23	14	1	1	1	40	14	26	36	12	24	3	2	1	1	1	1						
									63	30	33	58	26	32	4	4	1	1	1	1						
									41	21	20	38	19	19	3	2	1	1	1	1						
									70	44	26	67	42	25	3	2	1	1	1	1						
									33	15	18	30	14	16	3	1	2	1	1	1						

Table 30—Deaths (exclusive of Still-births) by Single Years of Age and by Age Groups in the Province of Ontario, 1930

AGES	TOTAL FOR PROVINCE			AGES	TOTAL FOR PROVINCE		
	Total	Male	Female		Total	Male	Female
All ages.....	37,313	19,827	17,486	50 years.....	362	190	172
Under 1 year.....	5,260	2,962	2,298	51 ".....	328	176	152
1 year.....	624	344	280	52 ".....	409	232	177
2 years.....	278	160	118	53 ".....	331	187	144
3 ".....	214	119	95	54 ".....	354	194	160
4 ".....	179	100	79	Total, 50-54 years.....	1,784	979	805
Total under 5 years.....	6,555	3,685	2,870	55 years.....	389	205	184
5 years.....	159	82	77	56 ".....	394	244	170
6 ".....	153	100	53	57 ".....	392	207	185
7 ".....	126	81	45	58 ".....	450	230	220
8 ".....	133	82	51	59 ".....	427	216	211
9 ".....	118	67	51	Total, 55-59 years.....	2,052	1,082	970
Total 5-9 years.....	689	412	277	60 years.....	528	300	228
10 years.....	102	59	43	61 ".....	448	235	213
11 ".....	90	50	40	62 ".....	483	260	223
12 ".....	84	49	35	63 ".....	543	306	237
13 ".....	86	53	33	64 ".....	557	309	248
14 ".....	120	56	64	Total, 60-64 years.....	2,559	1,410	1,149
Total 10-14 years.....	482	267	215	65 ".....	694	379	315
15 years.....	117	70	47	66 ".....	600	349	251
16 ".....	158	92	66	67 ".....	626	305	321
17 ".....	165	93	72	68 ".....	708	367	341
18 ".....	149	82	67	69 ".....	665	361	304
19 ".....	170	85	85	Total, 65-69 years.....	3,293	1,761	1,532
Total 15-19 years.....	759	422	337	70 years.....	830	442	388
20 years.....	185	96	89	71 ".....	669	361	308
21 ".....	175	101	74	72 ".....	818	429	389
22 ".....	170	87	83	73 ".....	777	404	373
23 ".....	173	100	73	74 ".....	784	441	343
24 ".....	206	116	90	Total, 70-74 years.....	3,878	2,077	1,801
Total 20-24 years.....	909	500	409	75 years.....	822	404	418
25 years.....	172	85	87	76 ".....	719	382	337
26 ".....	161	72	89	77 ".....	655	353	302
27 ".....	181	89	92	78 ".....	697	374	323
28 ".....	168	99	69	79 ".....	663	339	324
29 ".....	179	96	83	Total, 75-79 years.....	3,556	1,852	1,704
Total, 25-29 years.....	861	441	420	80 years.....	648	328	320
30 years.....	198	108	90	81 ".....	519	249	270
31 ".....	157	73	84	82 ".....	548	273	275
32 ".....	176	88	88	83 ".....	531	246	285
33 ".....	180	88	92	84 ".....	458	202	256
34 ".....	175	95	80	Total, 80-84 years.....	2,704	1,298	1,406
Total, 30-34 years.....	886	452	434	85 years.....	434	210	224
35 years.....	218	120	98	86 ".....	372	165	207
36 ".....	208	101	107	87 ".....	332	160	172
37 ".....	228	117	111	88 ".....	263	113	150
38 ".....	237	122	115	89 ".....	224	104	120
39 ".....	221	126	95	Total, 85-89 years.....	1,625	752	873
Total, 35-39 years.....	1,112	586	526	90 years.....	225	83	142
40 years.....	281	151	130	91 ".....	127	63	64
41 ".....	210	107	103	92 ".....	132	54	78
42 ".....	281	156	125	93 ".....	97	52	45
43 ".....	242	124	118	94 ".....	70	34	36
44 ".....	243	115	128	Total, 90-94 years.....	651	286	365
Total, 40-44 years.....	1,257	653	604	95 years.....	42	22	20
45 years.....	299	163	136	96 ".....	41	15	26
46 ".....	259	135	124	97 ".....	39	11	28
47 ".....	301	165	136	98 ".....	14	6	8
48 ".....	303	164	139	99 ".....	12	4	8
49 ".....	336	188	148	Total, 95-99 years.....	148	58	90
Total, 45-49 years.....	1,498	815	683	100 years and over.....	33	18	15
				Not stated.....	22	21	1

Table 31—Deaths (exclusive of Still-births) Classified by Racial Origin of Decedents in the Province of Ontario, 1930

RACIAL ORIGIN	ONTARIO			RACIAL ORIGIN	ONTARIO		
	Total	Male	Female		Total	Male	Female
All origins.....	37,313	19,827	17,486	Hungarian.....	99	60	39
English.....	13,428	7,169	6,259	Icelandic.....	2	1	1
Irish.....	8,069	4,108	3,961	Indian.....	520	276	244
Scotch.....	6,430	3,249	3,181	Italian.....	311	196	115
Welsh.....	123	75	48	Japanese.....	.....	.....	.....
French.....	3,284	1,769	1,515	Jewish.....	350	201	149
German.....	1,665	860	805	Negro.....	150	90	60
Armenian.....	10	7	3	Norwegian.....	45	30	15
Austrian.....	95	60	35	Polish.....	349	212	137
Belgian.....	40	26	14	Roumanian.....	58	39	19
Bulgarian.....	15	9	6	Russian.....	124	89	35
Chinese.....	60	56	4	Serb and Croat.....	60	42	18
Czech and Slovak.....	48	35	13	Swedish.....	89	56	33
Danish.....	47	27	20	Swiss.....	32	21	11
Dutch.....	592	320	272	Syrian.....	19	8	11
Finnish.....	240	160	80	Ukrainian†.....	171	99	72
Greek.....	58	41	17	Other.....	30	24	6
Hindu.....	.....	.....	.....	Not specified.....	700	412	288

†Including "Galician" and "Bukovinian."

Toronto.....Total	7057	5	36	31	126	4081	15	2	7	3	66	1194	330	426	17	9	28	27	34	1	4	13	6	20	4	8	45	4	120	15	107	3	44	28	...	4	135	2	57	
M.	3661	5	13	15	68	2056	9	1	5	1	28	638	168	220	10	4	10	13	16	...	4	8	2	10	1	5	29	2	70	9	69	2	30	27	...	2	69	1	41	
F.	3396	..	23	16	58	2025	6	1	2	2	38	556	162	206	7	5	18	14	18	1	...	5	4	10	3	3	16	2	50	6	38	1	14	1	...	2	66	1	16	
Windsor.....Total	612	..	4	4	22	400	1	1	..	1	...	55	6	23	...	...	...	2	5	3	...	1	...	2	...	2	9	...	4	6	1	2	3	...	4	44	...	1	...
M.	310	..	3	1	13	207	..	1	..	..	...	26	2	9	...	...	...	...	...	1	...	1	...	...	...	2	7	...	3	5	1	1	1	3	...	1	22	...	...
F.	302	..	1	3	9	193	1	1	...	29	4	14	2	5	2	2	1	1	5	...	1	...	3	22	1	...

*Including Galicia. †Including Bukovina. ‡Including the Ukraine.

TABLE 34—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1930

CAUSES OF DEATH	AGES—YEARS																			100 to over	Not and stat- ed						
	Sex		1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65			70	75	80	85	90	95
	Total	Un- der 1	1	2	3	4	5	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	to 50	to 55	to 60	to 65			to 70	to 75	to 80	to 85	to 90	to 95
DEATHS—ALL CAUSES. Total	37313	5260	624	278	214	179	689	482	759	909	861	886	1112	1257	1498	1784	2052	2559	3293	3878	3556	2704	1625	651	148	33	22
M 19827	2962	344	160	119	100	412	267	422	500	441	452	586	653	815	979	1082	1410	1761	2077	1852	1298	752	286	58	18	21	
F 17486	2298	280	118	95	79	277	215	337	409	420	434	526	604	683	805	970	1149	1533	1801	1704	1406	873	365	90	15	1	
4086	408	196	93	73	69	245	136	241	322	277	222	222	222	186	185	204	172	183	150	167	143	94	69	24	4	1	
M 2133	233	95	39	33	33	137	64	103	157	133	102	116	109	106	131	98	114	87	86	73	42	32	9	1	1	1	
F 1953	175	101	54	40	36	108	72	138	165	144	120	106	77	79	73	74	69	63	81	70	52	37	15	3	1	1	
50	28	1	1	1	2	4	8	7	7	5	1	3	1	2	1	4	1	1	4	1	1	1	1	1	1	1	
1. Typhoid and paratyphoid fever	28	1	1	1	1	2	5	4	1	3	2	3	1	2	1	4	1	1	1	1	1	1	1	1	1	1	
1A. Typhoid fever	48	1	1	1	1	2	4	8	7	6	5	1	3	1	4	1	1	3	1	1	1	1	1	1	1	1	
1B. Paratyphoid fever	28	1	1	1	1	2	5	4	1	3	2	3	1	2	1	2	1	1	1	1	1	1	1	1	1	1	
4. Undulant fever	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5. Malaria	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6. Small-pox	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7. Measles	51	19	18	4	2	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8. Scarlet fever	44	5	21	4	2	1	4	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9. Whooping-cough	51	2	17	4	4	3	12	5	5	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10. Diphtheria	85	72	15	1	2	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11. Influenza	184	8	11	6	15	9	48	9	2	1	1	1	1	3	3	2	2	1	1	1	1	1	1	1	1	1	
11A. Influenza, sole cause	402	54	14	13	5	3	9	4	16	8	11	5	11	9	17	26	21	29	26	32	43	30	25	7	1	1	
11B. Influenza, with phthisis	34	13	3	1	2	1	5	3	8	8	14	8	16	9	15	23	30	31	22	46	51	41	31	13	3	1	
11C. Influenza, with bronchitis	7	3	3	1	2	1	5	3	5	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11D. Influenza, with pneumonia	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11E. Influenza, with other respiratory diseases	168	19	6	2	2	2	9	5	8	2	7	4	8	13	6	13	12	13	12	14	10	7	2	2	2	2	
11F. Influenza, with diseases and accidents of pregnancy and parturition	148	5	5	4	1	2	2	2	3	1	6	3	4	11	18	14	6	11	19	10	10	6	1	1	1	1	
	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

CLASS I.—EPIDEMIC, ENDEMIC AND INFECTIOUS DISEASES.

TABLE 34—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1930—Continued

CAUSES OF DEATH	Sex	Total	Un- der 1	AGES—YEARS																		100 Not and stat- over cd						
				1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70		75	80	85	90	95	
				to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to		to	to	to	to	to	to
37. Disseminated tuberculosis.....	M	34	2	1	1	1	1	5	1	4	5	4	2	2	2	2	3	2	1	1	1	1	1	1	1	37		
F	30	6	1	1	1	1	1	1	1	7	4	3	1	1	1	1	2	1	1	1	1	1	1	1	1	1	37	
37A. Disseminated tuberculosis, acute.....	M	18	2	1	1	1	1	2	1	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	37A	
F	20	5	1	1	1	1	1	1	1	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	37A	
37B. Disseminated tuberculosis, chronic or unstage.....	M	16	1	1	1	1	1	3	1	3	3	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	37B	
F	10	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	37B	
38. Syphilis.....	M	89	13	1	1	1	1	1	1	1	3	1	2	8	11	9	15	11	6	1	5	1	1	1	1	1	38	
F	40	12	1	1	1	1	1	1	1	3	1	2	2	6	4	2	3	1	1	1	1	1	1	1	1	1	38	
39. Soft chancre.....	M	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	39	
F	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	39	
40. Gonococcus infection.....	M	4	1	1	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	40	
F	4	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	40	
41. Purulent infection, septicaemia	M	86	7	2	1	1	1	2	1	6	3	2	6	4	2	8	6	4	7	10	7	3	1	3	1	1	41	
F	79	16	5	2	1	1	2	5	3	5	3	5	4	9	2	2	2	5	2	5	4	3	1	3	1	1	41	
42. Other infectious diseases.....	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	42	
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	42	
Total.....		5329	125	25	15	10	8	45	39	37	40	60	83	160	240	315	428	555	638	833	718	539	271	105	34	4	1	1
43-49. Cancer.....	M	2366	61	15	12	6	6	19	16	15	23	20	45	59	83	106	171	203	284	380	364	283	130	49	15	4	1	1
F	2963	64	10	3	4	2	26	23	22	17	40	38	101	157	209	252	354	453	354	453	354	283	141	56	19	4	1	1
M	1644	1	1	2	1	1	1	1	1	2	1	6	27	32	54	68	123	144	212	294	281	218	111	43	12	4	1	1
F	1991	1	1	1	1	1	1	1	1	3	5	16	27	61	128	150	192	248	259	296	231	183	49	15	4	1	1	
43. Cancer of the buccal cavity.....	M	108	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	43	
F	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	43
44. Cancer of the stomach and liver	M	673	21	6	4	2	6	12	12	12	17	17	33	42	57	71	86	103	120	124	88	42	14	3	2	1	1	1
F	527	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45. Cancer of the peritoneum, in- testines and rectum.....	M	313	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
F	316	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46. Cancer of the female genital organs.....	M	400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
F	412	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47. Cancer of the breast.....	M	50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
F	37	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48. Cancer of the skin.....	M	497	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
F	283	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49. Cancer of other or unspecified organs.....	M	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
F	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49A. Cancer of eye and ear.....	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

CLASS II.—GENERAL DISEASES
NOT INCLUDED IN CLASS I.

TABLE 34—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1930—Continued

CAUSES OF DEATH	Sex	Total	Under 1	AGES—YEARS																	100 Not over							
				1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65		70	75	80	85	90	95	
				der	1	2	3	4	to 5	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	to 50	to 55	to 60		to 65	to 70	to 75	to 80	to 85	to 90	to 95
65A. Leukaemia.....	M	33	2	1			1	1	1	1	3	1	1	1	1	1	2	1	2	3	3	1					65A	
65B. Lymphadenoma (Hodgkin's disease).....	F	36	2	1			2	2	1	1	1	2	2	4	4	5	2	1	2	5	2	2	1				65B	
66. Alcoholism.....	M	24					2				1	1	1	5	2	2	2	1	1	2	1	2	3				66	
66A. Delirium tremens.....	F	8					1				2	2	5	10	12	10	7	5	6	1	1	1	1				66A	
66B. Acute alcoholism.....	F	51					1	1	1	1	1	1	2	4	5	7	10	8	5	4	5	1	1				66B	
66C. Chronic alcoholism.....	M	11					5	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1				66C	
67. Chronic poisonings by mineral substances.....	F	3					1	1	1	1		1	1	1	1	1	1	1									67	
67A. Chronic lead poisoning.....	M	2					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				67A	
68. Chronic organic poisoning.....	M	3					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				68	
68A. Chronic morphinism.....	F	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				68A	
68C. Other organic poisoning.....	M	3					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				68C	
69. Other general diseases.....	F	2					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				69	
69A. Diabetes insipidus.....	M	26	8	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	4	2	4	2	1				69A	
69B. Haemophilia.....	M	2					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				69B	
69C. Purpura haemorrhagica.....	F	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				69C	
69D. Others under this title.....	M	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				69D	
	F	12	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
	F	10	3				1	1	1	1	1	1	1	1	1	1	1	1	1	1	2							
Total.....		2663	137	44	17	9	12	40	42	41	45	45	42	62	76	125	160	170	212	296	348	314	251	127	36	9	3	
CLASS III.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.		1322	77	24	14	9	7	20	26	27	25	32	17	40	33	62	82	85	104	141	168	150	104	55	12	2		
	M	1341	60	20	3	5	20	16	14	20	13	25	22	43	63	78	85	108	149	180	147	72	24	7	3			
70. Encephalitis.....	F	44	3	2	3	2	1	1	3	4	3	1	4	2	5	1	4	1	4	2	1	2	1				70	
70A. Abscess of brain.....	F	41	3	2	1	1	1	1	6	3	4	5	2	4	1	5	2	4	1	1	1	1	1				70A	
70B. Encephalitis.....	F	13	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1				70B	
	M	14	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
	M	31	2	2	3	1	1	1	2	2	3	2	2	2	2	2	2	2	2	2	2	2	1	1				
	F	27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				

TABLE 34—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1930—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS															100 and over	Not and stat- ed										
			Un- der	1	2	3	4	5	10	15	20	25	30	35	40	45	50			55	60	65	70	75	80	85	90	95	
Total	M	9505	2	11	6	4	4	37	43	64	53	56	77	146	185	306	419	584	864	1202	1624	1580	1198	714	261	53	8	4	
	F	5051	2	6	3	2	1	20	38	25	29	33	44	75	105	173	249	340	492	669	905	808	556	338	118	24	5	4	
	M	4454		5	3	2	3	17	23	26	28	27	34	81	133	170	244	372	533	719	772	772	642	376	143	29	3		
	F	2969		6	2	2	1	19	20	36	25	23	40	60	75	111	180	220	302	393	501	431	278	159	65	12	4		
	F	2665		3	3	2	2	17	22	26	26	25	31	61	59	88	108	162	227	305	404	448	354	196	78	17	1		
87-90. Diseases of the heart	M	15	1					3	1	1	1	2											1					87	
	F	8						2	1	1												1							
88. Endocarditis and myocarditis (acute)	M	73	3					6	3	1	5	3	3	4	2	8	2	4	1	6	5	5	7	3					88
	F	67						5	2	4	2	2	4	2	4	7	2	2	3	5	9	3	2						
88A. Acute endocarditis	M	36	2					4	2	1	2	3	2	4	1	5	2	2	1	2	2	2	1						88A
	F	34						5	2	4	3	1	3	1	3														
88B. Acute myocarditis	M	37	1					2	1	1	1	1	1	1	1	3	1	1	1	4	4	4	4	2					88B
	F	33						2	1	1	1	1	1	1	1	1	1	1	1	1	3	7	3	2					
89. Angina pectoris	M	508							1	1	1	2	2	7	17	21	42	53	83	84	91	63	35	5	1				89
	F	205						3	6	14	19	23	39	36	6	14	19	23	39	36	39	39	18	6	1				
90. Other diseases of the heart	M	2373	2	1				10	15	33	20	16	35	49	56	81	134	163	218	302	404	362	235	151	64	12	4		90
	F	2385	2	1				10	19	21	22	22	27	59	52	75	91	141	201	260	359	406	333	189	77	17	1		
90A. Valvular disease	M	362						3	5	9	7	4	5	8	7	9	17	33	32	38	66	48	45	18	8				90A
	F	386						2	3	6	11	4	7	16	14	15	15	15	35	43	57	62	52	19	5				
90B. Fatty degeneration of the heart	M	8	1						1	1	1	1	2	2	1	2	2	2	1	1	2	1	2	1					90B
	F	8							1	1	1	1	2	1	1	2	1	1	1	1	2	1	3	1					
90C. Aortic insufficiency	M	14							1	1	1	2	2	1	1	1	2	2	1	1	1	3	1						90C
	F	5							1	1	1	2	1	1	1	1	1	1	2	1	1	2							
90D. Chronic endocarditis	M	323	1					4	6	12	9	4	11	13	17	11	18	25	37	31	43	40	24	10	5	2			90D
	F	318						4	11	8	6	12	6	14	12	17	13	26	33	33	39	43	18	16	6				
90E. Chronic myocarditis	M	1294	1					3	6	3	5	13	21	21	21	47	78	82	100	180	233	220	121	99	46	8	3	2	90E
	F	1349						2	5	2	4	14	23	18	32	51	78	100	154	214	237	207	131	60	14	1	1		
90F. Others under this title	M	372	1					3	1	6	1	3	4	7	10	13	20	19	47	52	59	52	42	22	5	2	1		90F
	F	318						2	3	2	2	2	2	5	8	10	12	16	31	28	46	62	56	23	6	3			
91. Diseases of the arteries	M	1925	1					1	2	2	2	2	2	2	5	18	50	56	99	167	255	387	365	273	175	53	12	1	91
	F	1703						1	1	1	1	2	2	2	8	16	37	56	71	138	219	303	310	284	178	65	12	2	
91A. Aneurysm	M	33							1	1	1	1	1	1	1	2	3	4	5	8	4	3	1						91A
	F	21							1	1	1	1	1	1	1	1	2	3	2	2	4	3	4	1					
91B. Arterio-sclerosis	M	1877						1	1	1	1	1	1	1	1	16	45	50	94	158	249	383	359	273	174	52	12	1	91B
	F	1672						1	1	1	1	1	2	7	16	34	54	69	131	216	297	307	282	177	65	12	2		
91C. Other diseases of the arteries	M	15							1	1	1	1	1	1	1	2	2	2	3	3	3	3	3	1					91C
	F	10							1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2				
92. Embolism and thrombosis (not cerebral)	M	129	1									4	2	6	8	11	10	18	20	18	14	11	3	3					92
	F	51										1	1	1	1	1	1	3	9	5	6	3	1	1					

TABLE 34—CAUSES OF DEATH BY SEX AND AGE IN THE PROVINCE OF ONTARIO, 1930—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																	100 Not to and stat-ed								
			Un-der 1	1	2	3	4	5	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64		65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	
102. Pleurisy.....	M	70	6	5	2	3	5	6	6	3	3	3	7	7	5	4	3	4	3	2	4	3	2	4	2	2	1	102
103. Congestion and hæmorrhagic infarct of the lung.....	M	43	4	2	1	1	1	1	4	5	1	1	2	2	1	2	3	7	7	2	4	3	2	4	2	5	3	103
104. Gangrene of the lung.....	M	61	4	1	1	1	1	1	1	1	1	1	2	1	2	4	8	16	13	5	10	11	10	11	11	3	1	104
105. Asthma.....	M	2	2	1	1	1	1	1	1	1	1	1	2	4	8	3	4	2	1	1	2	4	3	4	2	1	1	105
105. Pulmonary emphysema.....	F	32	1	1	1	1	1	1	3	3	3	2	2	2	3	5	4	3	3	2	3	5	4	3	2	1	1	106
105. Other diseases of the respiratory system (tuberculosis excluded).....	F	24	1	1	1	1	1	1	1	1	1	1	2	2	2	3	2	2	2	2	3	5	4	3	2	1	1	106
107. Chronic interstitial pneumonia, including occupational diseases of the lungs	M	47	4	1	1	1	1	1	2	3	8	6	9	3	2	1	1	2	1	1	2	1	2	1	1	1	1	107
107A. Others under this title.....	F	19	3	1	1	1	1	1	2	1	1	2	1	2	1	1	1	2	1	2	1	2	1	2	1	1	1	107A
107C. Others under this title.....	M	9	2	1	1	1	1	1	1	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	107C
107C. Others under this title.....	F	38	4	1	1	1	1	2	2	5	6	6	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	107C
107C. Others under this title.....	F	17	3	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	107C
Total		3160	989	124	42	37	24	96	58	93	71	64	83	96	115	133	140	153	161	164	180	139	112	57	23	6	6	
108. Diseases of the mouth and annexa.....	M	1772	568	75	24	23	14	60	23	62	44	32	49	58	55	88	72	85	97	90	88	73	54	24	11	3	3	
108. Diseases of the mouth and annexa.....	F	1388	421	49	18	14	10	36	35	31	27	32	34	38	60	45	68	68	64	74	92	66	58	33	12	3	3	
109. Diseases of the pharynx and tonsils (including adenoid vegetations).....	M	29	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	108
109. Diseases of the pharynx and tonsils (including adenoid vegetations).....	F	29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	108
109B. Pharynx and tonsils.....	M	87	21	6	4	2	8	4	6	5	3	3	3	4	5	4	3	2	3	3	3	4	2	3	1	2	2	109
109B. Pharynx and tonsils.....	F	71	15	2	1	4	2	5	1	6	5	2	3	4	5	4	3	2	3	2	3	4	2	3	1	2	2	109
109B. Pharynx and tonsils.....	M	87	21	6	4	2	8	4	6	5	3	3	3	4	5	4	3	2	3	3	4	2	3	1	2	2	2	109B
109B. Pharynx and tonsils.....	F	71	15	2	1	4	2	5	1	6	5	2	1	1	6	1	4	2	2	3	4	2	3	1	2	2	2	109B
110. Diseases of the oesophagus.....	M	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	110
110. Diseases of the oesophagus.....	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	110
111. Ulcer of the stomach and duodenum.....	M	176	50	10	6	4	5	3	10	19	12	21	16	17	24	18	3	8	5	9	7	3	5	5	9	7	3	111
111A. Ulcer of the stomach.....	F	50	10	6	4	5	3	10	19	12	21	16	17	24	18	3	8	5	9	7	3	5	5	9	7	3	111A	
111B. Ulcer of the duodenum.....	M	87	21	6	4	2	8	4	6	5	3	3	3	4	5	4	3	2	3	3	4	2	3	1	2	2	2	111A
111B. Ulcer of the duodenum.....	F	29	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	111A
111B. Ulcer of the duodenum.....	M	89	22	7	4	3	5	4	7	9	6	5	11	10	11	10	11	11	10	11	10	11	11	10	11	11	11	111B
111B. Ulcer of the duodenum.....	F	21	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	111B

CLASS VI.—DISEASES OF THE DIGESTIVE SYSTEM.

112. Other diseases of the stomach (cancer excepted).....	M	72	21	5	2	1	.....	1	1	.....	2	3	3	2	6	3	8	4	8	.....	1	.....	112		
	F	60	22	.....	2	.....	.....	1	2	.....	1	2	.....	3	1	2	3	4	7	.....	2	.....	113
113. Diarrhoea and enteritis (under 2 years of age).....	M	538	490	48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	114
	F	405	366	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	116
114. Diarrhoea and enteritis (2 years or over).....	M	107	.....	.....	17	12	6	10	.....	1	2	2	.....	3	2	6	7	5	11	6	7	3	114		
	F	110	9	5	3	7	5	2	1	2	3	1	1	2	8	6	8	14	11	5	1	116					
116. Diseases due to other intestinal parasites.....	M	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	116C
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
116C. Nematodes (other than ankylostoma).....	M	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	118
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	118A
117. Appendicitis and typhlitis.....	M	295	1	2	5	2	2	4	31	16	39	25	17	21	16	17	23	24	18	14	8	5	117						
	F	175	1	3	2	2	4	14	19	18	13	8	12	7	14	9	12	11	7	6	4	2	118						
118. Hernia, intestinal obstruction	M	206	25	5	2	1	1	4	2	7	4	2	5	9	5	12	12	10	12	26	13	14	16	118					
	F	166	11	1	1	2	2	5	1	5	4	13	9	6	13	17	11	22	13	9	118A					
118A. Hernia.....	M	70	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	118B
	F	42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	119
118B. Intestinal obstruction.....	M	127	20	5	1	1	4	2	7	4	1	2	2	2	2	2	8	4	6	5	3	5	1	118B					
	F	124	11	1	1	2	5	4	11	7	4	11	9	7	5	16	7	5	8	4	3	2	119					
119. Other diseases of the intestines	M	33	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	120
	F	25	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	121
120. Acute yellow atrophy of the liver.....	M	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	122
	F	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	122A
121. Hydatid tumour of the liver.....	M	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	122B
	F	43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	123
122. Cirrhosis of the liver.....	M	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	124
	F	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	125
122A. Specified as alcoholic.....	M	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	126
	F	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
122B. Not specified as alcoholic.....	M	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
	F	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
123. Biliary calculi.....	M	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
	F	65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
124. Other diseases of the liver.....	M	109	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
	F	137	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
125. Diseases of the pancreas.....	M	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
	F	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
126. Peritonitis without specified cause.....	M	30	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
	F	35	4	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	128
Total.....		2627	21	2	4	6	15	22	23	32	41	48	70	116	126	148	149	224	314	395	356	300	141	66	6	2	
	M	1485	13	1	3	5	10	11	11	8	11	17	11	32	40	50	62	79	141	190	253	193	90	36	3	1	
	F	1142	8	1	1	5	11	15	21	24	37	38	38	76	76	86	70	83	124	142	131	107	51	30	3	1
128. Acute nephritis (including unspecified, under 10 years of years of age).....	M	57	4	1	1	8	1	3	2	2	1	2	3	8	3	4	2	2	2	4	128	
	F	30	3	1	2	1	1	128	

CLASS VII.—NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.

128. Acute nephritis (including unspecified, under 10 years of years of age).....

CLASS XIII.—OLD AGE.																													
Total.....		553	72	45	42	36	42	137	97	166	210	171	181	174	195	169	154	128	104	117	145	136	101	86	41	9	1	15	
M	230																												
F	323																												
M	230																												
F	323																												
164. Senility.....																													
Total.....																													
CLASS XIV.—EXTERNAL CAUSES.																													
Total.....		2774	72	45	42	36	42	137	97	166	210	171	181	174	195	169	154	128	104	117	145	136	101	86	41	9	1	15	
M	2023																												
F	751																												
M	301																												
F	103																												
165-174. Suicides.....																													
165. Suicide by solid or liquid poisons (corrosive substances excepted).....																													
M	25																												
F	10																												
166. Suicide by corrosive substances.....																													
M	36																												
F	31																												
167. Suicide by poisonous gas.....																													
M	23																												
F	15																												
168. Suicide by hanging or strangulation.....																													
M	73																												
F	17																												
169. Suicide by drowning.....																													
M	37																												
F	13																												
170. Suicide by firearms.....																													
M	65																												
F	5																												
171. Suicide by cutting or piercing instruments.....																													
M	27																												
F	6																												
172. Suicide by jumping from high places.....																													
M	9																												
F	4																												
173. Suicide by crushing.....																													
M	4																												
F	2																												
174. Other suicides.....																													
M	2																												
F	3																												
175. Poisoning by food.....																													
M	2																												
F	3																												
176. Poisoning by venomous animals.....																													
M	2																												
F	1																												
177. Other acute accidental poisonings (gas excepted).....																													
M	14																												
F	13																												
178. Conflagration.....																													
M	47																												
F	19																												
179. Accidental burns and scalds (conflagration excepted).....																													
M	53																												
F	64																												

164

165-174

175

176

177

178

179

CLASS VII.—NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.

Total.

128. Acute nephritis (including unspecified, under 10 years of age).....	445	3	2	1	1	3	5	12	8	14	21	23	32	31	31	42	49	60	52	31	17	6	1	128
M	237	2	1	1	2	1	4	6	5	10	10	14	13	16	16	28	26	35	28	21	11	3	1	129
F	208	1	1	1	1	1	4	8	2	9	11	13	18	15	14	23	25	25	24	10	6	3	1	131
M	8	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	132
F	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	133
M	125	1	1	1	1	1	2	4	3	7	6	8	10	11	17	9	16	14	9	5	2	2	1	134
F	137	1	1	1	1	1	2	3	3	4	4	10	13	11	10	19	23	23	6	5	2	2	1	134A
M	15	2	1	1	1	1	1	1	1	1	1	2	3	1	2	3	3	3	3	2	1	1	1	134B
F	17	1	1	1	1	1	1	2	1	2	1	3	3	1	1	2	1	2	1	1	1	1	1	135
M	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	137
F	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	138
M	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	139
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	140
M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	141
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	142
M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	143
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	143A
M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	143B
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	143C
M	72	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	144
F	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145
F	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145A
F	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145B
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145C
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145D
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145E
F	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	146
F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	146E
Total	98	6	14	29	22	19	8	8	8	19	22	19	8	8	19	22	19	8	8	19	22	19	8	40

CLASS VIII.—THE PUERPERAL STATE.

Total.

143. Accidents of pregnancy.....	11	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	143
143A. Abortion.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	143A
143B. Ectopic gestation.....	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	143B
143C. Others under this title.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	143C
144. Puerperal haemorrhage.....	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	144
145. Other accidents of labour.....	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145
145A. Caesarean section.....	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145A
145B. Difficult labour.....	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145B
145C. Uncontrollable vomiting.....	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145C
145D. Rupture of uterus in labour, etc.....	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145D
146. Puerperal septicaemia.....	40	3	7	10	9	8	3	8	8	19	22	19	8	8	19	22	19	8	8	19	22	19	8	40

CLASS XI.—MALFORMATIONS.		88	81	2	2	2	1	2	1	159	159A	159B	159C	160	161	161A	161B	162	162A	164	
Total		M 46	F 42	44	37	2	1	2	1												
159. Congenital malformations (still-births not included).....		M 46	F 42	44	37	2	1	2	1												
159A. Congenital hydrocephalus.....		M 3	F 5	3	4																
159B. Congenital malformations of the heart.....		M 19	F 14	18	13		1														
159C. Others under this title.....		M 24	F 23	23	20	2	1														
Total		M 466	F 466																		
CLASS XII.—DISEASES OF EARLY INFANCY.		M 264	F 202	264	202																
Total		M 264	F 202	264	202																
160. Congenital debility, icterus and sclerema.....		M 20	F 16	29	16																
161. Premature birth, injury at birth.....		M 211	F 150	211	150																
161A. Premature birth.....		M 137	F 134	137	134																
161B. Injury at birth.....		M 74	F 16	90	16																
162. Other diseases peculiar to early infancy.....		M 24	F 36	24	36																
162A. Specified diseases.....		M 24	F 36	24	36																
Total		M 44	F 44							4	2	9	16	10	3						
CLASS XIII.—OLD AGE.		M 16	F 28	16	28					1	3	5	6	1							
Total		M 16	F 28	16	28					3	2	6	11	4	2						
164. Senility.....		M 16	F 28	16	28					1	3	5	6	1							
Total		M 16	F 28	16	28					3	2	6	11	4	2						

182. Accidental drowning.....	M	13																	1							182	
183. Accidental traumatism by fire-arms.....	F	3		1																						183	
184. Accidental traumatism by cutting or piercing instruments	M	1							1										3							184	
185. Accidental traumatism by fall	F	49		3															2							185	
186. Accidental traumatism in mines and quarries.....	M	1																	1							186	
186B. Other mines.....	M	1																								186B	
187. Accidental traumatism by machines.....	M	6			1															1						187	
188. Accidental traumatism by other crushing (vehicles, railways, landslides, etc.)...	M	71		1	2	9	4	2	1	5	6	1	5	3	4	5	6	5	3							188	
188A. Railroad accidents.....	F	26					6				2		1		1	1	1	4								188A	
188B. Street car accidents.....	M	12				1					2		2		1	1	1	1								188B	
188C. Automobile accidents.....	F	6																								188C	
188D. Aeroplane and balloon accidents.....	M	46		1	2	8	3	1	1	2	4	2	2	2	5	5	2	3								188D	
188E. Injuries by other vehicles.....	M	21				5					1	2	1	1	1	4	3									188E	
188F. Other crushing.....	F	1																								188F	
189. Injuries by animals (poisoning excepted).....	M	5																								189	
192. Starvation (deprivation of food or water).....	F	1																								192	
194. Excessive heat.....	F	1																								194	
196. Other accidental electric shocks.....	M	3																								196	
197-199. Homicides.....	F	8																								197-199	
197. Homicide by firearms.....	F	7						2	1	1																197	
198. Homicide by cutting or piercing instruments.....	F	2																								198	
199. Homicide by other means.....	F	1																								199	
201. Fracture (cause not specified)	M	4																								201	
202. Other external violence (cause specified).....	F	2							1																	202	
Total.....	F	11					3			2		1	1														
	F	3					1				1																
	F	5						1			1														2		
	M	3					1																		1		
	F	2																							1		
204. Sudden death.....	F	1																									204

CLASS XV.—UNDEFINED DISEASES.

Total

TABLE 37—CAUSES OF DEATH BY SEX AND AGE—OTTAWA, 1930

CAUSES OF DEATH	Sex	Total	AGES—YEARS																		100 to and over	Not stat- ed							
			Un-der 1		1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64			65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99
			1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69			70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	
DEATHS—ALL CAUSES. Total...		1747	331	50	12	10	14	39	25	34	42	44	43	44	55	92	89	101	136	129	143	130	109	53	17	5			
M		932	194	20	10	5	8	25	15	13	22	21	14	26	27	53	51	60	75	83	67	67	51	19	4	2			
F		815	137	30	2	6	6	14	10	21	20	23	29	18	28	39	38	41	61	46	76	63	58	34	13	3			
CLASS I.—EPIDEMIC, ENDEMIC AND INFECTIOUS DISEASES.																													
Total		191	21	12	4	5	5	17	8	12	18	19	10	5	11	7	8	6	8	4	6	2	2	1					
1. Typhoid and paratyphoid fever	M	83	8	1	3	1	2	9	5	3	10	7	2	2	9	2	4	3	4	3	3	1	1						
1A. Typhoid fever	M	108	13	11	1	4	3	8	3	9	8	12	8	3	2	5	4	3	4	1	3	1	1						
4. Undulant fever	M	4									1	2			1														
7. Measles	M	1																											
8. Scarlet fever	M	3																											
9. Whooping-cough	F	3	1	3																									
10. Diphtheria	M	13	5	1	2	1	2	6	2																				
11. Influenza	M	17	5	1	2	1	2	3	1																				
11A. Influenza, sole cause	M	8	1																										
11B. Influenza, with pneumonia	F	2																											
11G. Influenza, with other causes	M	3	1																										
13. Mumps	F	3																											
16. Dysentery	M	2																											
21. Erysipelas	M	5	1																										
23. Lethargic encephalitis	F	2	1																										
24. Meningococcus meningitis	F	1	1																										
25. Other epidemic and endemic diseases	M	1	1																										
25A. Chicken-pox	M	1	1																										
29. Tetanus	M	1	1																										
31-37. Tuberculosis	M	33																											
	F	55	1			2	1	2	1	2	7	3	2	2	6	2	2	3	1	2	1	2	1	2	1				

CLASS III.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.

	115	9	6	1		2	1	2	1	2	5	3	2	2	5	8	10	8	11	10	12	12	3	2	1
M	62	6	5	1		2	1	1		1	3	1	1	2	3	6	2	9	3	7	5	2	1		
F	53	3	1								1	3	1		2	5	4	6	2	7	5	1	2		
M	4										1				1	1	1	1		1					70
F	1																			1					70A
M	1										1				1	1	1	1		1					70B
M	3																			1					71
F	1		3			2					1									1					71A
M	2		1			2					1									1					71B
F	2		3			2					1									1					72
M	2					1					1				1	1	3	1	1	1					73
M	3																			1					74
F	5					1					1				1	3	2	1	6	1	5	3	2		74A
M	21							2			1				1	3	3	3	2	4	6	1	1		74B
F	27										1				1	2	1	1	1	1	2	1	1		74C
M	8										1				1	1	1	4	1	5	2	1	1		75
F	15										1				1	3	3	3	2	2	4	1	1		75A
M	18										1				1	1	1	1	1	1	1	1	1		75B
F	18										1				1	1	1	2	1	1	1	1	1		76
M	2																			1					77
F	1																			1					78
M	4																			1					80
F	9																			1					81
M	3																			1					82
F	5																			1					83
M	1																			1					84
F	1																			1					85
M	11																			1					86
F	6																			1					86A
M	11		5	1		1					2									1					86B
F	6		3																	1					
M	1		1								1									1					
F	3		1								1									1					
M	10		4	1		1					2									1					
F	3		2																	1					

CLASS VII.—NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.

	135	4	1	1	3	3	1	2	4	5	8	11	10	8	11	14	18	18	10	2	1	
Total.																						
128. Acute nephritis (including unspecified, under 10 years of age)	M	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	128
	F	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	129
129. Chronic nephritis (Bright's disease)	M	38	1	1	1	1	1	1	1	3	2	2	3	4	2	6	4	8	2	1	1	
	F	50	1	1	2	1	1	1	4	2	4	6	6	3	3	1	9	6	6	1	1	
131. Other diseases of the kidneys and annexa	M	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	131
	F	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
132. Calculi of the urinary passages	M	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	132
133. Diseases of the bladder	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	133
	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	134
135. Diseases of the prostate, male genital organs	M	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	135
136. Non-veneral diseases of the female genital organs	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	136
	F	6	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	137
139. Benign tumours of the uterus	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	139
141. Other diseases of the female genital organs	F	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	141
Total.		23	2	3	3	6	4	4	1													
144. Puerperal haemorrhage	F	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	144
146. Puerperal septicaemia	F	12	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	146
147. Puerperal piletigmasia alba dolens, puerperal embolism, sudden death in puerperium	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	147
148. Puerperal albuminuria and convulsions	F	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	148
149. Following child-birth (not otherwise defined)	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	149
Total.		13	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
151. Gangrene	M	11	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	151
152. Furuncle	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	152
153. Acute abscess	M	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	153
	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
154. Other diseases of the skin and annexa	M	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	154

CLASS VIII.—THE PUERPERAL STATE.

	144	146	147	148	149
Total.					
144. Puerperal haemorrhage	F	5	1	1	1
146. Puerperal septicaemia	F	12	1	1	1
147. Puerperal piletigmasia alba dolens, puerperal embolism, sudden death in puerperium	F	1	1	1	1
148. Puerperal albuminuria and convulsions	F	4	1	1	1
149. Following child-birth (not otherwise defined)	F	1	1	1	1
Total.		23	5	5	5

CLASS IX.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.

	151	152	153	154
Total.				
151. Gangrene	M	11	4	1
152. Furuncle	F	1	1	1
153. Acute abscess	M	3	2	1
	F	1	1	1
154. Other diseases of the skin and annexa	M	3	2	1

161A. Premature birth.....	M	40	40																						161A	
	F	32	32																						161B	
161B. Injury at birth.....	M	9	9																							
	F	5	5																							
162. Other diseases peculiar to early infancy.....	M	9	9																						162	
	F	9	9																						162A	
162A. Specified diseases.....	M	9	9																							
	F	9	9																							
	M	19	19																							
	F	8	8																							
	F	11	11																							
164. Senility.....	M	8	8																						164	
	F	11	11																							
	M	110	110	3	2	3		3	7	6	4	5	3	2	5	9	10	6	6	7	5	6	7	7	3	1
	F	76	76	3	3	3	1	5	4	3	4	3	2	5	7	9	6	5	4	4	4	3	1	4	4	
	F	34	34	2	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	3	1	3	6	3	3	1
165-174. Suicides.....	M	4	4										1	2	1	1	1	1							165-174	
	F	2	2																							
166. Suicide by corrosive substances.....	M	1	1										1													166
	F	1	1																							
170. Suicide by firearms.....	M	2	2											2												170
	F	1	1																							
171. Suicide by cutting or piercing instruments.....	M	1	1														1									171
177. Other acute accidental poisonings (gas excepted).....	M	1	1														1									177
	F	1	1																							
178. Conflagration.....	M	1	1																							178
179. Accidental burns and scalds (conflagration excepted).....	M	4	4	1	2	1																				179
	F	6	6																							
181. Accidental absorption of irritable or poisonous gas.....	M	1	1																							181
182. Accidental drowning.....	M	15	15																							182
185. Accidental traumatism by fall.....	M	14	14																							185
	F	14	14																							
187. Accidental traumatism by machines.....	M	1	1																							187
188. Accidental traumatism by other crushing (vehicles, railways, landslides, etc.).....	M	28	28	2			3	2	1	2	1	3	3	1	1	1	1	3	3	1	1	1	1	1	1	188
	F	6	6				2	1																		188A
188A. Railroad accidents.....	M	2	2																							188A
188B. Street car accidents.....	F	2	2																							188B

CLASS XIII.—OLD AGE.

Total.....

CLASS XIV.—EXTERNAL CAUSES.

Total.....

TABLE 38—CAUSES OF DEATH BY SEX AND AGE—LONDON, 1930—Continued

CAUSES OF DEATH	Sex	Total	AGES—YEARS																		100 Not to and stat- ed								
			Un- der	1	2	3	4	5	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69		70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99		
			1	1	2	3	4	9	14	19	24	29	34	39	44	49	54	59	64	69		74	79	84	89	94	99		
31. Tuberculosis of the respiratory system.....	M	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31	
	F	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	32
32. Tuberculosis of the meninges and central nervous system.....	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	33
	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	34
33. Tuberculosis of the intestines and peritoneum.....	M	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	35
	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	36
35. Tuberculosis of the joints.....	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	36B
36. Tuberculosis of other organs.....	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	37	
36b. Tuberculosis of the bones (vertebral column excepted)	M	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	37A	
37. Disseminated tuberculosis.....	M	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	37B	
37A. Disseminated tuberculosis, acute.....	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	38	
37B. Disseminated tuberculosis, chronic or unstated.....	M	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	41	
38. Syphilis.....	M	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	37A
	F	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	37B
41. Purulent infection, septicaemia.....	M	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	38
	F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	41
Total		167	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
43-49. Cancer.....	M	57	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	43-49
	F	75	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	43-49
43. Cancer of the buccal cavity.....	M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	43
	F	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	43
44. Cancer of the stomach and liver.....	M	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44
	F	29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44
45. Cancer of the peritoneum, intestines and rectum.....	M	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45
	F	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45
46. Cancer of the female genital organs.....	M	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	46
	F	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	46
47. Cancer of the breast.....	M	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	47
	F	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	47

CLASS II.—GENERAL DISEASES NOT INCLUDED IN CLASS I.

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO

Not stated	NATIVITY					MONTHS											
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
1	28055	6380	879	1750	249	3234	3124	3551	3447	3327	2969	2790	2735	3105	3177	2838	3016
14678	3345	473	1143	188	1681	1615	1827	1833	1803	1600	1512	1495	1680	1692	1479	1610	
13377	3035	406	607	61	1553	1509	1724	1614	1524	1369	1278	1240	1425	1485	1359	1406	
....	3211	526	82	242	25	374	355	401	432	422	319	276	286	319	348	280	274
....	1615	283	45	172	18	197	170	207	227	220	150	151	156	177	180	147	151
....	1596	243	37	70	7	177	185	194	205	202	169	125	130	142	168	133	123
....	41	4	1	4	3	1	1	1	3	2	3	4	9	9	11	3	1
....	23	2	2	1	3	2	2	2	2	2	2	2	4	6	4	5	5
....	40	3	1	4	3	1	1	1	3	2	2	4	9	8	11	3	1A
....	23	2	2	1	3	2	2	2	2	2	2	4	6	4	5	5	5
....	1	1									1			1			1B
....	2									1			1				4
....	3			1							2	1		1			
....	1							1									5
....	1				1								1				
....	49	1	1		5	8	7	13	5	3	2	2	2	2	1	1	6
....	42	2			4	7	9	7	7	3	5	1	1	1			7
....	54	2	2	2	6	6	8	9	8	3	5	3	1	5	4	2	8
....	48		3		7	4	5	7	6	6	2	5	1	2	2	4	4
....	95				13	5	6	6	11	6	4	4	17	10	5	8	9
....	84	1			7	7	7	11	6	8	5	5	8	4	7	10	10
....	107	5	2		12	9	5	12	9	6	9	11	4	11	9	17	10
....	85			3	4	10	7	5	12	5	4	6	5	11	11	8	6
....	320	61	12	15	38	49	46	64	47	21	15	10	18	42	33	26	11
....	349	79	8	8	50	48	66	66	44	28	10	8	24	46	24	31	11A
....	26	5	2	1	5	3	3	4	2	1	4	1	4	5	1	4	11A
....	26	3		2	5	1	3	2	2	2		2	4	5	1	4	11A
....	5		1	1					3		1				1	2	11B
....	6	1			3		1		1				1	1			11C
....	4				1	1					1				1		11C
....	10	2			2	1	5	3	1								11D
....	134	21	2	11	19	21	25	33	19	9	1	2	1	13	18	7	11D
....	112	27	4	5	19	19	25	26	15	10	4	3	1	7	7	12	11D
....	13	3			3	2	3	2	2	1				3			11E
....	8	2			1	1		3	3					1	1		11E
....	4	4			2		2		2	1							11F
....	138	32	7	2	11	22	17	25	21	10	8	7	13	21	12	13	11G
....	183	40	4	1	18	26	30	32	20	15	6	3	18	31	15	15	11G
....	1			1		1					2		1		1		13
....	2	1			1	1					1	3	10	4	1		16
....	19	4		1	1	1					2	1	7	10			21
....	25	1		1	1	1				3	2	1	4	5	2	5	21
....	63	15	1	1	8	10	6	5	14	9	3	4	5	2	1	6	21
....	57	10		1	6	9	12	10	12	4	1	1	1	13	10	7	22
....	51	4			1						5	12	12	11	7	1	22
....	34	2	1			1		1			1	7	9	11	1	1	23
....	13	4	1	1		1	3	1	2	2	2	3	5	1	2	2	23
....	21	2		1	2	6		1	3	2	2	1	1	2	2		23
....	29	2	2		1	4	6	5	5	2	3	1		2	2	2	24
....	23		1		2		2	4	3	2	3	3		2	3		24
....	4				1				2					1			25
....	8				1		1		1		2				2		25
....	4				1				2				1		1		25A
....	3						1		1						1		25A
....	1				1												25B
....	4										2		1		1		25C
....	14	3					1		1	4	3	1	5	1	1	1	29
....	7	3	1							4	1	1	1	1	3		29

TABLE 39—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION												
			Under 15	Single					Married					Widowed	
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated		
30. Mycoses.....	M	9	1			1						4	2		1
	F	4										1			
31-37. Tuberculosis.....	M	926	100	159	147	53	15			10	166	160	50		66
	F	865	112	185	119	33	7			61	194	77	20		57
31. Tuberculosis of the respiratory system.....	M	768	45	130	130	48	14			10	147	139	44		61
	F	708	51	159	106	29	6			52	178	59	16		52
32. Tuberculosis of the meninges and central nervous system.....	M	38	28	3	1						3	3			
	F	54	42	5	3	1				1	1				1
33. Tuberculosis of the intestines and peritoneum...	M	35	9	8	3	1					5	6	1		2
	F	31	5	10	4					1	4	4	1		1
34. Tuberculosis of the vertebral column.....	M	19	3	4	3	1	1				4	1	1		1
	F	10	1		1	2					2	4			
35. Tuberculosis of the joints	M	11	3		3						1	2	2		
	F	7	3	3							1				
36. Tuberculosis of other organs.....	M	21	3	5	2	2					4	3	1		1
	F	25	1	2	2	1				2	5	7	3		2
36B. Tuberculosis of the bones (vertebral column excepted).....	M	1		1											
	F	3			1						1		1		
36C. Tuberculosis of the lymphatic system (mesenteric, and retroperitoneal glands excepted)	M	3	3												
	F	4			1								2		
36D. Tuberculosis of the genito-urinary system.	M	16		4	2	2					4	3	1		
	F	17		2		1				2	4	6			2
36E. Tuberculosis of the organs other than above.....	M	1													1
	F	1	1												
37. Disseminated tuberculosis	M	34	9	9	5	1					2	6	1		1
	F	30	9	6	3					5	3	3			1
37A. Disseminated tuberculosis, acute.....	M	18	6	6	2						1	3			
	F	20	8	3	1					3	2	2			1
37B. Disseminated tuberculosis, chronic or un- stated.....	M	16	3	3	3	1					1	3	1		1
	F	10	1	3	2					2	1	1			
38. Syphilis.....	M	89	15	2	6	8					18	30	5		5
	F	40	15	3	1	1					10	6	1		3
39. Soft chancre.....	M	1										1			
40. Gonococcus infection.....	M	4	1		1						2				
	F	14	5	1	1					3	4				
41. Purulent infection, septi- caemia.....	M	86	14	8	6	5	2			1	7	18	13		12
	F	79	31	5	4	1	3			1	15	5	4		10
42. Other infectious diseases.	M	1										1			
CLASS II—GENERAL DISEASES NOT INCLUDED IN CLASS I.															
Total.....		5329	267	67	115	293	290			10	407	1392	1206		1281
	M	2366	135	35	58	121	122			3	141	576	738		437
	F	2963	132	32	57	172	168			7	266	816	468		844
43-49. Cancer.....	M	1644	6	12	33	76	89			1	82	423	585		337
	F	1991	9	4	44	133	126			4	179	583	294		609
43. Cancer of the buccal cavity	M	108		1	1	6	12				5	21	29		33
	F	16				1	3					5	1		6
44. Cancer of the stomach and liver.....	M	673		3	11	34	37				28	186	239		135
	F	527		1	2	35	32			1	24	129	99		204
45. Cancer of the peritoneum, intestines and rectum..	M	313	2	1	7	12	13				18	93	104		63
	F	316			7	21	20				25	74	53		116
46. Cancer of the female genital organs.....	F	400	1	1	8	26	21				56	142	49		96

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
54	4					13	1	1	1	2	1			1		1	130	
618 677	146 117	19 18	128 50	15 3	90 81	64 82	100 65	88 77	93 89	78 94	80 77	83 67	69 64	65 67	52 51	64 51	31-37	
495 548	130 102	19 15	109 40	15 3	83 61	51 67	84 54	78 65	82 72	60 79	63 65	66 51	57 56	55 54	42 44	47 40	31	
32 48	3 2		3 4		1 4	1 3	5 3	3 6	4 10	7 3	3 6	6 6	1 4	1 5	2 2	4 2	32	
28 24	5 6		2 1		1 1	7 4		4 3	2 4	3 3	3 5	2 1	1 3	4 1	3 3	5 2	33	
17 8 8 5	1 2 1		1 2 1		1 1 4		3 1 1		1 1 1	3 3 1	2 1 2	2 3	2 3	2 1	1 2	1 3	34	
16 19	2 3		3 2		3 5		3 2	1 2	1 1	1 2	4 1	3 2	3 3				36	
1 2			1				1					1	1				36B	
3 2	2				1	1	1	1				1		2			36C	
11 14	2 1		3 1		3 4		3	1	1	1	3	2	1				36D	
1 1 22 25			8 2		1 6	4 4	4 2	2 3	2 1	4 4	3 1	1 3	5 3	4 1	2 1	2 4	37	
12 17	1 1		5 1		1 6	1 3	2 2	2 3		1 3	1 1	1 1	3 3	4 3			37A	
10 8 54 31 1 3 12	3 1 15 7		3 1 17 1			3 1 10 4	2 1 3 1		2 1 9 6	3 1 11 3	2 1 9 3	2 1 9 3	2 3 7 5	2 1 7 5	2 1 3 2	2 1 6 3	37B	
69 60 1	13 15	2 2	2 2		6 5	8 5	7 12	11 9	6 10	8 4	8 6	3 7	9 4	9 4	5 7	6 4	41	
1																	42	
1	3736	1156	130	293	14	451	388	467	479	452	427	426	444	431	488	405	471	
1	1602 2134	529 627	61 69	163 130	11 3	205 246	181 207	182 285	214 265	213 239	199 228	183 243	195 246	185 246	230 258	164 241	215 256	
1	1071 1393	400 459	40 48	127 88	6 3	142 156	124 133	115 176	137 174	143 159	147 153	127 168	139 168	132 178	161 180	123 163	154 183	43-49
	84 11	20 4	1 1	3		8 3	10 3	8 1	21 2	7 2	7 2	16 1	7 2	13 1	4 1	4 3	43	
	419 369	176 124	10 11	66 23	2	50 45	58 35	45 47	61 53	50 45	49 50	63 42	44 37	54 45	74 48	54 43	71 37	44
	202 226	82 74	6 4	21 12	2	19 22	17 18	20 32	34 22	22 20	27 37	17 20	35 35	27 30	24 27	29 32	32 31	45
	267	99	9	24	1	29	31	34	30	32	31	32	44	34	32	33	38	46

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930—Continued

Not stated	NATIVITY					MONTHS											
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
1	3										2						147
313	77	10	11	1	30	24	39	38	29	26	48	30	39	38	32	39	548
39	8	1	2		9	5	4	4	2	4	6	1	1	4	5	2	
26	8	2	1		5	3	4	4	3	2	1	3	2	2	4	6	
324	114	22	35	2	56	41	36	30	48	48	34	43	43	46	31	41	49
181	73	11	17	1	25	19	19	28	29	18	21	19	26	30	16	33	49A
4	1					2			1				1	1			
5	3				1			1			2		1	2		1	
19	6	1	1	1	4	4	1	1	2				5	3	4	1	249B
19	10				4	1	1	1			3		4	1	4	2	6
35	29	5	8		9		3	4	11	10	5	3	5	8	6	13	49C
29	14	3	3		3	3	4	5	6	4	3	1	8	7	1	4	
34	18	1	5		7	3	7	3	2	5	2	4	7	7	6	5	49D
34	16	2	5		5	7	6	5	5	5	6	4	3	5	2	4	
183	44	10	15	1	30	24	16	18	28	24	20	22	23	18	13	17	49E
48	10	4	5		6	3	6	9	7	4	4	4	1	7	7	9	
10	5		1		3	2	1	1	1	1			2	4		1	49F
17	6				4			3	4			1	6	3		2	
33	9	5	4		3	6	7	3	7	5	6	2	3	3	3	3	49G
25	10	1	4	1	4	1	1	4	3	7	2	3	5	5	2	4	3
5	2						1					1	2		1	2	49H
2	3							1									3
1																	49I
2	1				2						1						1
20	8	2	1		6	1	2	4	2	2		2	5	2	1	4	50
23	6	1	4		2	1	7	5	1	1	4	3	3	4	3		
46	9	1	2		8	5	4	5	9	1	7	5	6	4	2	2	51
51	7	1	7		8	3	10	3	10	5	6	3	1	6	6	5	
13	1		1		1	2	3		2		3	1		2	1		52
24	3	1	1		4	3	3	5	1	2	1	2	2	2		2	
1								1								1	
1	1							1		1							54
26		1	1	1	1	2	3	5	6	1		1	1	4	2	3	56
20					1	2	1	1	4	2		1	2	3	2	1	
133	43	6	7	1	15	15	17	15	14	18	16	14	15	18	12	21	57
197	65	8	17		31	21	28	23	18	22	17	29	19	25	24	30	
116	27	4	5		9	14	17	19	14	13	13	10	7	14	11	11	58
158	42	4	6		20	18	24	20	18	14	14	15	22	11	18	16	
110	23	4	4		9	12	17	19	14	11	11	8	6	13	10	11	58A
141	38	4	5		16	15	21	18	18	13	14	15	20	11	14	13	
6	4		1			2				2	2	2	1	1	1		58B
17	4		1		4	3	3	2		1			2		4	3	
1					1												59
3	1							2			1	1					
31	5	1	4		5	4	1	7	4	2	3	1	5	4	4	1	60
152	26	5	5		11	15	19	21	18	17	21	16	14	14	14	8	
23	4	1	1		4	2		6	4	2	2	4	3	1	1	60A	
97	16	2	3		4	11	9	14	13	10	16	11	6	11	8	5	
8	1		3		1	2	1	1			1	1	1	1	3		60B
55	10	3	2		7	4	10	7	5	7	5	5	8	3	6	3	
8						2	1	1	2		2						61
6							2	2		1	1	1	1				
29	2		4		1	2	4	3	3	3	4	3	2	4	1	1	62
39					4	3	6	2	3	1	2	7	2	4	2	3	
4			1			1	1					1		1		1	63
8	2					1				3	1	1	1	1	1	1	
3	2		1				1	1	1			2				1	64
2	1													3			
35	12	4	6		4	3	6	6	3	6	5	6	5	6	3	4	65
39	5				3	3	6	7	3	6	4	2	2	3	3	4	
23	6	2	2		4	2	4	3	2	2	2	3	3	5	3	3	65A
32	4				3	2	5	7	2	6	1			3	3	4	

TABLE 39—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid-owed		
			Under 15	Single					Married						
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated	
65B. Lymphadenoma (Hodg-kin's disease).....	M	24	2		1						8	6	5		2
	F	8	1	1							3	1	1		1
66. Alcoholism.....	M	66		1	7	11	4				15	19	3		6
	F	8									4	2	1		1
66A. Delirium tremens.....	M	4		1							2	1			
66B. Acute alcoholism.....	M	51			6	8	3				10	16	3		5
	F	5									3		1		1
66C. Chronic alcoholism.....	M	11			1	3	1				3	2			1
	F	3									1	2			
67. Chronic poisoning by mineral substances.....	M	2									1	1			
67A. Chronic lead poisoning.....	M	2									1	1			
68. Chronic organic poisoning.....	M	3			1	2									
	F	3		1								1	1		
68A. Chronic morphinism.....	F	1											1		
68C. Other organic poisoning.....	M	3			1	2									
	F	2		1								1			
69. Other general diseases.....	M	26	15		1	1	2				1	1	3		2
	F	19	9			1					4	2	2		1
69A. Diabetes insipidus.....	M	1					2								
	F	1	1												
69B. Haemophilia.....	M	5			1										
	F	1	1												
69C. Purpura haemorrhagica.....	M	7									1		2		1
	F	7				1					2		1		
69D. Others under this title.....	M	12	8			1						1	1		1
	F	10	4								2	2	1		1
CLASS III.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.															
Total.....		2663	301	76	101	143	182			10	119	433	546		752
	M	1322	177	49	63	75	75			3	58	231	341		250
	F	1341	124	27	38	68	107			7	61	202	205		502
70. Encephalitis.....	M	44	13	4	7	1	2				5	8	3		1
	F	41	5	8	4	2	1			1	5	8	4		3
70A. Abscess of brain.....	M	13	4	2		1					3	2	1		
	F	14	2	6	1						2	2			1
70B. Encephalitis.....	M	31	9	2	7		2				2	6	2		1
	F	27	3	2	3	2	1			1	3	6	4		2
71. Meningitis.....	M	73	56	8	2	1					3	1	1		1
	F	46	32	2	2	2				1	2	3			2
71A. Simple meningitis.....	M	71	55	8	2	1					3	1			1
	F	45	32	2	2	2				1	2	3			1
71B. Non-epidemic, cerebro-spinal meningitis.....	M	2	1										1		
	F	1													1
72. Tabes dorsalis (locomotor ataxia).....	M	22				5	1				2	6	3		5
	F	5										1	1		3
73. Other diseases of the spinal cord.....	M	70	3	3	1	5	5				5	17	20		11
	F	57	2	2	2	4	2				4	12	10		19
74. Cerebral haemorrhage, apoplexy.....	M	577	3	2	6	34	41				8	105	220		158
	F	642		2	3	22	63				14	100	113		325
74A. Apoplexy.....	M	227			1	13	21					34	88		70
	F	251				6	26					32	41		144
74B. Cerebral haemorrhage.....	M	317	2	2	5	18	18				5	63	119		85
	F	348		2	3	14	33				10	64	60		162
74C. Cerebral thrombosis and embolism.....	M	33	1			3	2				3	8	13		3
	F	43				2	4				2	4	12		19
75. Paralysis without specified cause.....	M	94	2	1	2	3	9				1	15	30		31
	F	107	1			2	14					13	25		52
75A. Hemiplegia.....	M	70			2	2	8				1	10	22		25
	F	82	1			2	8					11	21		36
75B. Others under this title.....	M	24	2	1		1	1					5	8		6
	F	25					3					2	4		16
76. General paralysis of the insane.....	M	40			8	3	2				6	14	2		5
	F	15				1	1			1	3	3	2		4

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930—Continued

Not stated	NATIVITY				MONTHS													
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.		Dec.
			USA	Other														
12	6	2	4			1	2	3	1	4	3	3	2	1	3	1	65B	
7	1					1	1	1	1	1	3	2	2					
38	16	2	7	3	8	1	7	7	7	4	2	7	4	7	3	9	66	
4	2		2			1		1	1	1			2	1	1			
2	1		1		1		1						1	1			66A	
32	10	2	5	2	6	1	5	6	5	1	2	5	4	6	3	7	66B	
3	1		1			1		1	1	1				1	1			
4	5		1	1	1			1	1	2	3		1			2	66C	
1	1		1			1							2					
	2									1							1	67
	2									1							1	67A
2	1									1			1	1				68
1	2						1		1								1	68A
2	1									1			1	1				68C
	2							1										
	1																	
	2																	
	25	1			4	5		4	1	2	1	2	2	3		2	69	
13	5	1			6	3	2							1	2		2	
	2						1				1	1						69A
	5					1	2				1						1	69B
1												1						
6	1				1	1			3			1						69C
6	1				2	2								1	1		1	
12					2	2		1	1					2	2		1	69D
5	4	1			4	1	1					2	1		1		1	
....	2048	423	62	113	17	244	240	245	223	244	214	194	174	222	213	202	248	
....	1006	199	29	77	11	118	122	116	111	122	101	81	99	117	100	109	126	
....	1042	224	33	36	6	126	118	129	112	122	113	113	75	105	113	93	122	
....	39	3		1	1	7	8	3	4	2	3	4	3	5	1	3	1	70
....	32	6	1	2		3	2	4	6	4	3	5	3	3	1	2	5	
....	12	1				4	2	1			1	2	1	2				70A
....	12	1	1			1	1	1		3	2	1	1	2			2	
....	27	2		1	1	3	6	2	4	2	2	2	2	3	1	3		70B
....	20	5		2		2	1	3	6	1	4	4	2	1	1	2	3	
....	65	6		1	1	4	7	4	6	16	8	4	1	5	4	7	7	71
....	41	2	3			2	4	6	3	5	8	2	1	2	7	1	5	
....	63	6		1	1	4	7	4	6	16	8	4	1	5	4	7	5	71A
....	40	2	3			2	4	6	3	5	8	2	1	2	7	1	4	
....	2																	71B
....	1																	
....	14	6		2		2	4	1	2	1	1		1	3	1	4	2	72
....	4	1						1		1					1	1	1	
....	48	14	2	5	1	8	3	4	6	10	6	1	4	5	6	12	5	73
....	45	10	2			7	1	6	4	4	4	3	4	6	8	5	5	
....	421	94	14	43	5	38	57	47	48	51	45	39	45	53	51	40	63	74
....	483	119	16	21	3	60	58	68	64	60	44	48	35	44	54	39	68	
....	171	34	4	16	2	12	19	19	19	21	17	21	16	20	15	22	26	74A
....	193	34	8	13	3	19	35	29	11	20	15	22	13	26	22	16	23	
....	230	53	10	21	3	23	34	25	26	27	27	18	25	30	34	16	32	74B
....	258	77	6	7		37	22	34	45	36	26	25	19	15	30	22	37	
....	20	7		6		3	4	3	3	3	1		4	3	2	2	5	74C
....	32	8	2	1		4	1	5	8	4	3	1	3	3	2	1	8	
....	72	16	4	1	1	11	10	10	10	4	8	4	6	11	2	13	7	75
....	92	11	1	3		8	10	15	9	4	5	12	10	12	4	11	7	
....	53	14	3			10	9	8	8	3	6	3	5	7	1	8	2	75A
....	70	10		2		8	6	13	7	3	3	9	7	9	3	8	6	
....	19	2	1	1	1	1	1	2	2	1	2	1	1	4	1	5	3	75B
....	22	1	1	1			4	2	2	1	2	3	3	3	1	3	1	
....	23	6	1	9	1	4	3	5	3	2	4	2	4	1	2	2	8	76
....	13	2				2	1	1	2	2		1	3		1	1	1	

TABLE 39—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid-owed		
			Under 15	Single					Married						
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated	
77. Other forms of mental alienation.....	M	70	1	5	9	11	5				4	17	11		7
	F	120	1	4	8	17	12			1	10	21	21		25
78. Epilepsy.....	M	68	3	12	18	6	4				4	3	11		7
	F	75	10	4	14	10	3				3	8	8		15
79. Convulsions (non-puerperal, 5 years or over)...	M	3	1		1								1		
80. Infantile convulsions (under 5 years of age).....	M	38	38												
	F	36	36												
81. Chorea.....	M	1										1			
	F	2		1						1					
82. Neuralgia and neuritis...	M	12			1		2					2	3		4
	F	9				1					1		3		4
83. Softening of the brain...	M	6				1							4		1
	F	2					1						1		
84. Other diseases of the nervous system.....	M	131	18	6	4	4	3			1	14	34	29		18
	F	135	13	3	5	7	10			1	8	29	15		44
85. Diseases of the eye and annexa.....	M	5	1									2	2		
	F	2										1	1		
86. Diseases of the ear and of the mastoid process.....	M	68	38	8	4	1	1			2	6	6	1		1
	F	47	24	1						12	2	2	1		6
86A. Diseases of the ear.....	M	31	20	4			1				2	4			
	F	28	15	1						1	7	1			3
86B. Diseases of the mastoid process.....	M	37	18	4	4	1				2	4	2	1		1
	F	19	9								5	1	1		3
CLASS IV.—DISEASES OF THE CIRCULATORY SYSTEM.															
Total.....		9505	107	96	110	291	792	2	20	335	1574	2666	1	3511	
	M	5051	54	57	66	181	403	2	6	185	954	1841	1	1301	
	F	4454	53	39	44	110	389		14	150	620	825		2210	
87-90. Diseases of the heart...	M	2969	50	56	53	120	214	2	5	143	607	1004	1	714	
	F	2665	49	38	36	66	210		13	126	391	478		1258	
87. Pericarditis.....	M	15	5	1	2		1					1	3	2	
	F	8	4	1			1					1	1		
88. Endocarditis and myocarditis (acute).....	M	73	14	5	3	7	4			1	9	6	11	13	
	F	67	13	8	3	2	6				8	10	6	11	
88A. Acute endocarditis.....	M	36	10	3	3	3	1				7	4	3	2	
	F	34	11	7	3	2	2				4	2	1	2	
88B. Acute myocarditis.....	M	37	4	2		4	3			1	2	2	8	11	
	F	33	2	1			4				4	8	5	9	
89. Angina pectoris.....	M	508	1	1	7	19	24				20	163	187	86	
	F	205			1	7	17				3	44	45	88	
90. Other diseases of the heart	M	2374	30	49	41	94	185	2	4	114	437	803	1	613	
	F	2385	32	29	32	57	186		13	115	336	426		1159	
90A. Valvular disease.....	M	362	8	14	9	12	29		2	15	68	122		83	
	F	386	6	9	5	11	30		8	34	55	73		155	
90B. Fatty degeneration of the heart.....	M	8				2						4	1	1	
	F	9		1								4	1	2	
90C. Aortic insufficiency.....	M	14					1				3	1	7	2	
	F	5										1	1	2	
90D. Chronic endocarditis.....	M	323	11	20	9	11	21			1	35	63	77	75	
	F	318	16	10	8	6	12			3	33	62	48	120	
90E. Chronic myocarditis.....	M	1294	6	8	15	52	100			1	45	231	480	355	
	F	1349	4	6	13	32	111			1	39	171	249	723	
90F. Others under this title...	M	372	5	7	8	17	34	2			16	70	116	97	
	F	318	6	3	5	8	32		1	9	43	54		157	
91. Diseases of the arteries...	M	1925	1		7	54	183		1	22	289	803		564	
	F	1703			5	41	171			20	206	336		924	
91A. Aneurysm.....	M	33		1	2	2					1	16	3	6	
	F	21					1				1	9	3	7	
91B. Arterio-sclerosis.....	M	1877	1		5	52	180		1	20	268	794		556	
	F	1672			5	39	168			18	199	332		914	
91C. Other diseases of the arteries.....	M	15					1			1	5	6		2	
	F	10				2	2			1	1	1		3	

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930—Continued

Not stated	NATIVITY				MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
55	10	1	3	1	12	2	9	3	6	5	6	8	5	6	4	4	77
85	26	3	4	2	16	12	4	3	10	14	15	9	13	8	6	10	
53	10	2	3	3	8	5	5	4	7	8	5	4	9	3	3	7	78
63	8	.....	4	.....	5	9	6	4	8	8	7	2	7	10	6	3	
3	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	179
37	.....	.....	1	.....	6	3	2	4	9	1	.....	2	2	4	4	1	80
36	.....	.....	.....	.....	1	.....	5	3	7	3	4	2	.....	3	1	7	
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	81
1	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7	3	2	.....	.....	1	2	1	1	1	.....	.....	1	.....	1	1	3	82
7	1	1	.....	.....	1	1	2	.....	1	1	.....	.....	1	1	1	.....	.....
6	.....	.....	.....	.....	.....	2	1	.....	1	.....	.....	.....	1	.....	.....	.....	83
1	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
99	21	3	8	.....	11	11	12	11	6	8	11	4	9	15	12	11	84
101	30	3	.....	1	12	14	7	10	12	19	12	15	13	13	12	6	.....
4	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3	1	.....	.....	.....	85
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....
59	9	.....	.....	.....	7	5	12	8	6	4	3	3	6	3	4	7	86
36	6	3	2	.....	9	4	4	4	4	3	3	1	4	2	5	4	.....
26	5	.....	.....	.....	3	3	5	5	3	1	.....	1	3	1	2	4	86A
21	5	1	1	.....	6	4	1	3	3	1	1	1	3	.....	2	3	.....
33	4	.....	.....	.....	4	2	7	3	3	3	3	2	3	2	2	3	86B
15	1	2	1	.....	3	.....	3	1	1	2	2	.....	1	2	3	1	.....
.....
6691	2096	284	382	52	864	858	974	882	803	738	663	627	685	759	793	859	.....
3526	1110	148	231	36	456	441	509	468	421	398	329	342	373	406	431	477	.....
3165	986	136	151	16	408	417	465	414	382	340	334	285	312	353	362	382	.....
2073	637	80	156	23	260	257	309	300	265	246	196	204	209	229	262	232	87-90
1905	576	81	96	27	260	240	288	253	239	191	204	164	198	205	205	218	.....
10	3	.....	2	.....	2	.....	4	1	1	2	.....	1	.....	1	3	.....	87
5	.....	2	1	.....	1	.....	1	1	1	.....	2	.....	1	.....	.....	.....	.....
56	9	4	4	.....	6	12	11	4	9	9	1	6	4	2	8	1	88
51	13	2	1	.....	8	5	7	3	7	6	6	5	8	4	2	6	.....
27	4	2	3	.....	4	7	3	1	7	3	1	3	1	2	4	.....	88A
27	5	1	1	.....	4	3	3	1	3	1	5	4	5	2	.....	3	.....
29	5	2	1	.....	2	5	8	3	2	6	.....	3	3	.....	4	1	88B
24	8	1	.....	.....	4	2	4	2	4	5	1	1	3	2	2	3	.....
381	88	20	16	3	51	44	44	48	41	42	37	32	33	44	50	42	89
150	41	10	4	.....	19	14	33	19	24	18	9	11	16	12	15	15	.....
1626	537	56	134	20	201	201	250	247	214	193	158	165	172	182	201	189	90
1699	522	67	90	7	232	221	247	230	207	167	187	148	173	189	188	199	.....
258	70	11	20	3	32	29	37	35	25	25	27	29	33	28	37	25	90A
285	79	7	15	.....	42	33	34	42	30	26	31	23	30	28	37	30	.....
7	1	.....	.....	.....	.....	3	1	.....	.....	.....	2	1	.....	.....	.....	.....	90B
9	.....	.....	.....	.....	3	1	.....	.....	.....	1	.....	.....	.....	2	1	.....	.....
13	1	.....	.....	.....	.....	4	5	.....	.....	1	1	.....	.....	.....	.....	.....	90C
3	1	1	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
225	66	7	22	3	30	29	34	23	32	18	20	22	26	25	34	30	90D
219	70	16	12	1	32	33	45	24	27	22	25	14	25	15	23	33	.....
862	318	30	77	7	106	109	140	144	122	118	83	92	84	99	97	100	90A
947	312	36	50	4	126	131	129	136	122	92	101	90	91	124	100	107	.....
261	81	8	15	7	33	30	34	40	34	32	25	20	29	29	33	33	90F
236	60	7	13	2	29	22	37	27	27	26	30	21	27	20	27	25	.....
1365	431	59	60	10	185	168	190	152	143	140	117	126	154	164	156	230	91
1197	393	52	53	8	143	167	169	153	133	141	126	112	110	143	150	156	.....
16	4	.....	.....	.....	3	2	7	3	2	1	1	3	2	4	1	4	91A
16	4	.....	.....	.....	2	3	3	.....	1	1	2	.....	4	1	1	3	.....
1341	412	55	59	10	180	162	180	148	141	139	116	122	152	158	155	224	91B
1174	387	51	52	8	139	162	166	153	131	140	123	112	106	141	148	151	.....
9	4	1	1	.....	2	4	3	1	.....	.....	.....	.....	.....	2	.....	.....	91C
7	2	1	.....	.....	2	2	.....	.....	1	.....	1	.....	.....	1	1	2	.....

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930—Continued

Not stated	NATIVITY				Not stated	MONTHS											
	Canada	British	Foreign			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
69	36	9	12	3	6	14	9	14	11	8	14	9	10	11	11	12	
35	10	3	2	1	3	6	7	5	3	4	4	4	2	5	4	4	
11	3	2	3	1	1	1	1	1	1	3	2	1	1	1	2	1	
13	6	1	1	1	1	2	1	3	3	1	1	3	1	1	2	2	
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2150	491	63	105	20	291	361	378	360	289	188	115	91	113	186	215	242	
1179	267	28	73	14	155	208	204	215	163	101	69	47	57	97	112	133	
971	224	35	32	6	136	153	174	145	126	87	46	44	56	89	103	109	
9	3	1	2	2	2	2	1	2	1	2	1	1	1	3	3	97	
12	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
51	14	2	3	1	3	5	12	10	4	5	2	4	3	4	9	98D	
47	9	2	2	1	6	9	9	8	4	3	2	3	4	2	6	5	
18	4	1	1	1	1	2	8	4	2	2	1	1	1	2	1	2	
20	2	1	1	1	1	7	3	2	4	1	1	1	1	2	2	2	
17	5	1	3	1	1	7	1	4	1	1	2	4	3	2	3	3	
16	6	1	1	1	3	1	3	5	1	1	2	1	3	2	3	3	
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8	5	1	1	1	2	2	3	1	1	2	1	1	1	1	1	1	
6	1	1	1	1	1	1	3	1	1	2	1	1	1	1	1	1	
343	47	8	14	6	45	60	61	54	44	21	15	13	18	22	28	37	
313	61	9	6	1	44	48	54	51	26	18	11	13	21	35	34	35	
341	47	8	14	6	45	60	60	54	44	21	15	13	18	21	28	37	
308	60	9	6	1	42	48	54	50	25	18	11	13	21	34	33	35	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
612	153	18	36	6	81	113	104	129	90	56	32	14	24	51	56	75	
485	115	20	22	4	69	80	90	69	75	52	22	21	20	36	55	57	
392	113	10	25	3	60	77	65	85	58	37	16	10	17	35	39	44	
307	82	10	15	4	44	52	54	49	52	38	11	14	13	11	38	37	
220	40	8	11	3	21	36	39	44	32	19	16	4	7	16	17	31	
178	33	10	7	1	25	28	36	20	23	14	11	7	7	20	17	20	
51	14	1	4	1	6	7	8	3	9	8	7	3	4	7	3	5	
32	10	1	1	1	6	3	7	6	6	2	1	3	3	3	3	3	
43	16	1	1	1	11	4	6	9	7	3	4	4	3	6	4	4	
38	20	4	1	1	6	9	4	6	6	8	2	1	4	8	4	4	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18	8	1	4	1	3	10	2	3	1	2	3	2	2	4	2	105	
20	3	1	1	1	1	2	5	3	4	1	1	2	1	4	1	1	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

TABLE 39—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION												
			Under 15	Single					Married					Widowed	
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated		
107. Other diseases of the respiratory system (tuberculosis excepted).....	M	47	7	1	2	4					4	20	4		5
	F	19	4	2		1	1				3	2	3		3
107A. Chronic interstitial pneumonia, including occupational diseases of the lungs.....	M	9				1					1	5	2		
	F	2									1		1		
107C. Others under this title..	M	38	7	1	2	3					3	15	2		5
	F	17	4	2		1	1				2	2	2		3
CLASS VI.—DISEASES OF THE DIGESTIVE SYSTEM.															
Total.....		3160	1370	145	83	98	65			19	269	426	295		340
	M	1772	787	101	59	61	29			5	132	255	197		146
	F	1388	583	44	24	37	36			14	137	171	98		244
108. Diseases of the mouth and annexa.....	M	29	4		2	2	1				3	9	6		2
	F	29	5		1	1	3				6	6	1		6
109. Diseases of the pharynx and tonsils (including adenoid vegetations)..	M	87	45	10	7	4				1	8	5	3		4
	F	71	28	7	2	1	3			4	8	8	3		7
109B. Pharynx and tonsils...	M	87	45	10	7	4				1	8	5	3		4
	F	71	28	7	2	1	3			4	8	8	3		7
110. Diseases of the oesophagus.....	M	2											2		
	F	1													1
111. Ulcer of the stomach and duodenum.....	M	176	1	6	10	14	5				34	59	25		22
	F	50			1	10	2			2	7	8	6		14
111A. Ulcer of the stomach...	M	87	1	2	3	6	2				18	34	10		11
	F	29				2	2			2	3	6	4		10
111B. Ulcer of the duodenum.	M	89		4	7	8	3				16	25	15		11
	F	21			1	8					4	2	2		4
112. Other diseases of the stomach (cancer excepted).....	M	72	30	1			5				3	11	13		9
	F	60	26		2						4	1	7		20
113. Diarrhoea and enteritis (under 2 years of age).	M	538	538												
	F	405	405												
114. Diarrhoea and enteritis (2 years or over).....	M	107	45	3	1	3	5				5	8	20		17
	F	110	29	3	2	5	5				5	12	7		42
116. Diseases due to other intestinal parasites....	M	3	3												
	F	1	1												
116C. Nematodes (other than ankylostoma).....	M	3	3												
	F	1	1												
117. Appendicitis and typhilitis.....	M	295	62	62	21	12				2	49	65	14		8
	F	175	45	28	6	2	2			3	35	32	10		12
118. Hernia, intestinal obstruction.....	M	206	40	9	8	10	3			2	12	39	46		37
	F	166	22	1	4	6	7				26	34	19		47
118A. Hernia.....	M	79	6		5	3	1				5	18	18		23
	F	42	1			1	1				4	13	7		15
118B. Intestinal obstruction..	M	127	34	9	3	7	2			2	7	21	28		14
	F	124	21	1	4	5	6				22	21	12		32
119. Other diseases of the intestines.....	M	33	4	1	2	1	2				4	1	14		4
	F	25	2	1		1	2				2	3	4		10
120. Acute yellow atrophy of the liver.....	M	5	1		1								1		2
	F	7	1								1				1
121. Hydatid tumour of the liver.....	F	1											1		
122. Cirrhosis of the liver...	M	45		1		4	1				2	18	10		9
	F	43	1	1		1	1				7	8	5		19
122A. Specified as alcoholic..	M	4				2					1	1			
	F	3									1	2			

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
.....	26	11	.....	10	.....	4	2	6	2	6	2	3	6	5	5	5	1	107
.....	15	4	.....	.....	.....	3	.....	2	2	.....	3	2	2	2	.....	2	2	107A
.....	3	3	.....	3	.....	1	.....	1	1	.....	.....	3	1	.....	1	.....	1	107C
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	23	8	.....	7	.....	3	2	5	1	5	2	3	3	4	5	4	1	107C
.....	14	3	.....	.....	.....	3	.....	2	1	2	.....	3	2	2	1	.....	1	1
.....	2575	405	58	109	13	221	182	217	208	224	209	188	342	550	407	226	186	
.....	1431	223	38	73	7	115	110	121	119	137	114	104	192	301	235	118	106	
.....	1144	182	20	36	6	106	72	96	89	87	95	84	150	249	172	108	80	
.....	20	4	1	4	.....	3	3	5	2	.....	2	1	5	3	1	2	2	103
.....	24	3	1	1	.....	1	1	1	5	.....	3	2	1	2	3	4	6	6
.....	71	10	2	4	.....	11	8	12	9	12	5	2	.....	6	5	14	3	109
.....	57	10	2	2	.....	10	7	11	4	3	6	3	6	4	1	7	9	9
.....	71	10	2	4	.....	11	8	12	9	12	5	2	.....	6	5	14	3	109B
.....	57	10	2	2	.....	10	7	11	4	3	6	3	6	4	1	7	9	9
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	110
.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	112	46	3	15	.....	14	16	12	22	14	18	14	7	17	11	13	18	111
.....	34	13	1	.....	2	3	6	3	6	6	4	3	4	5	3	5	2	.....
.....	55	20	3	9	.....	9	7	6	11	6	11	8	4	7	4	7	7	111A
.....	17	10	.....	2	.....	2	4	2	4	3	2	2	3	2	1	2	2	.....
.....	57	26	.....	6	.....	5	9	6	11	8	7	6	3	10	7	6	11	111B
.....	17	3	1	.....	.....	1	2	1	2	3	2	1	1	3	2	3	.....	.....
.....	61	7	.....	3	1	7	10	8	3	10	.....	3	6	8	9	3	5	112
.....	50	9	.....	1	.....	9	5	5	3	3	6	3	4	9	7	5	1	.....
.....	534	.....	4	.....	.....	19	11	17	13	20	20	18	100	167	107	27	19	113
.....	401	2	1	.....	1	13	9	16	6	17	15	20	52	135	78	32	12	.....
.....	82	16	7	1	1	2	4	2	2	4	7	4	17	33	21	7	4	114
.....	87	21	1	.....	1	5	1	3	5	4	3	5	15	33	18	13	5	.....
.....	3	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	116
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
.....	3	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	116C
.....
.....	226	43	9	16	1	18	31	19	21	34	23	20	22	24	41	20	22	117
.....	133	33	2	6	1	10	11	18	16	18	14	10	15	17	21	18	7	.....
.....	150	35	4	15	2	20	16	21	18	16	20	16	17	23	16	14	9	118
.....	125	27	5	8	1	19	12	11	10	9	17	13	19	25	11	6	14	.....
.....	57	15	.....	6	1	8	6	9	7	8	6	4	7	6	6	8	4	118A
.....	28	7	2	5	.....	4	5	4	3	5	4	3	2	7	2	1	2	.....
.....	93	20	4	9	1	12	10	12	11	8	14	12	10	17	10	6	5	118B
.....	97	20	3	3	1	15	7	7	7	4	13	10	17	18	9	5	12	.....
.....	19	12	.....	2	.....	2	.....	3	4	2	4	3	2	2	5	4	2	119
.....	18	5	1	1	.....	2	.....	1	2	1	1	2	3	2	4	3	4	.....
.....	3	1	.....	1	.....	.....	.....	.....	2	.....	1	.....	.....	1	.....	1	.....	120
.....	6	1	.....	.....	.....	1	.....	.....	2	.....	.....	.....	.....	.....	2	.....	2	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	29	9	2	4	1	3	3	2	3	5	4	6	3	6	4	.....	6	121
.....	27	12	1	3	.....	2	6	3	3	5	8	4	4	4	3	1	.....	122
.....	1	2	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	1	.....	.....	122A
.....	1	1	.....	1	.....	.....	.....	.....	.....	.....	1	.....	1	1	1	.....	.....	.....

TABLE 39—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION												
			Single					Married					Wid-owed		
			Under 15	15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated	
122E. Not specified as alcoholic.....	M	41		1		2	1				1	17	10		9
	F	40	1	1		1	1				6	6	5		19
123. Biliary calculi.....	M	25		1		2	2				1	8	7		4
	F	65			1	2	1			1	11	20	11		18
124. Other diseases of the liver	M	109	8	3		3	6	4			7	23	31		24
	F	137	7		3	8	10			1	14	29	23		42
125. Diseases of the pancreas	M	10	1		1							2	4		2
	F	7									3	3			1
126. Peritonitis without specified cause.....	M	30	5	4	3	3	1				4	7	1		2
	F	35	11	3	2					2	5	7	1		4
CLASS VII.—NON-VEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.															
Total.....		2627	70	39	60	88	186			15	203	467	694		805
	M	1485	43	16	33	49	108			3	65	243	530		395
	F	1142	27	23	27	39	78			12	138	224	164		410
128. Acute nephritis (including unspecified, under 10 years of age).....	M	57	16	5	5	4	1				3	13	5		5
	F	30	7	2	2		1				6	3	2		7
129. Chronic nephritis (Bright's disease).....	M	921	15	10	24	30	68			1	43	175	324		231
	F	838	11	14	12	34	65			3	61	144	148		346
131. Other diseases of the kidneys and annexa...	M	82	9	1	1	2	5			1	8	9	25		21
	F	79	8	2	1		3			4	7	20	8		26
132. Calculi of the urinary passages.....	M	28			2	1	1			1	4	5	9		5
	F	18					1				3	8	1		5
133. Diseases of the bladder.	M	42				2	2				2	4	18		14
	F	12	1	1								2	2		6
134. Diseases of the urethra, urinary abscess, etc....	M	17			1	2					5	5	3		1
	F	1													
134A. Stricture of the urethra	M	13				2					5	5	1		
134B. Other diseases of the urethra.....	M	4			1								2		1
	F	1			1										
135. Diseases of the prostate	M	333				8	31					31	146		117
136. Non-venereal diseases of the male genital organs	M	5	3									1			1
137. Cysts and other benign tumours of the ovary...	F	38			2	2	3				12	11	1		7
138. Salpingitis and pelvic abscess.....	F	30		3	2					3	16	4			2
139. Benign tumours of the uterus.....	F	49			4	2	3				16	21			
140. Non-puerperal uterine haemorrhage.....	F	6									2	4			
141. Other diseases of the female genital organs...	F	38		1	2	1	2			2	14	7	2		7
142. Non-puerperal diseases of the breast (cancer excepted).....	F	3			1						1				1
CLASS VIII.—THE PUERPERAL STATE.															
Total.....		440	1	27	12					92	295	9			4
143. Accidents of pregnancy.	F	28		1						5	22				
143A. Abortion.....	F	3									3				
143B. Ectopic gestation.....	F	17								2	15				
143C. Others under this title.	F	7		1						1	4				
143D. Abortion, self-induced.	F	1							1						
144. Puerperal haemorrhage.	F	39		3	2					10	23				1
145. Other accidents of labour	F	52		3	2					7	37	3			
145A. Caesarean section.....	F	14								3	10	1			

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930

Not stated	NATIVITY					MONTHS													
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
			USA	Other															
.....	28	7	1	4	1	3	2	2	3	5	4	5	2	5	4	.....	6	122B	
.....	26	11	1	2	.....	2	6	3	3	5	7	4	3	4	2	1	.....	1	123
.....	19	4	1	1	.....	1	2	5	3	3	2	3	1	.....	2	2	.....	1	123
.....	45	13	2	5	.....	9	4	12	4	4	6	4	6	4	7	2	.....	3	124
.....	68	29	4	7	1	12	5	14	14	11	6	8	10	7	8	6	.....	8	124
.....	100	29	2	6	.....	19	7	6	20	12	8	11	16	9	13	7	.....	9	125
.....	8	2	.....	.....	.....	.....	.....	.....	1	1	1	2	.....	2	.....	1	.....	3	125
.....	6	1	.....	.....	.....	.....	.....	1	1	1	2	1	.....	.....	.....	.....	.....	1	126
.....	24	5	1	.....	.....	3	1	1	2	5	1	4	2	2	3	2	.....	4	126
.....	29	3	1	2	.....	3	2	5	2	4	2	3	5	.....	2	2	.....	5	126
.....	1887	513	73	145	9	236	209	244	249	242	223	210	184	207	208	202	213	.....	.....
.....	1057	296	38	88	6	134	131	134	140	130	117	128	104	119	109	115	124	.....	.....
.....	830	217	35	57	3	102	78	110	109	112	106	82	80	88	99	87	89	.....	.....
.....	44	8	.....	4	1	6	4	6	4	4	6	3	5	6	5	5	3	128	.....
.....	21	6	3	.....	.....	3	.....	10	3	4	2	4	1	1	.....	1	1	.....	.....
.....	669	166	24	61	1	94	95	71	88	83	72	78	61	72	64	63	80	129	.....
.....	617	155	22	42	2	81	53	74	77	78	75	52	61	64	83	68	68	.....	.....
.....	59	13	3	6	1	7	1	6	11	7	7	7	5	6	5	10	5	131	.....
.....	62	13	2	2	.....	7	6	5	8	12	9	4	5	6	7	5	11	.....	.....
.....	18	8	1	1	.....	2	6	5	5	1	1	1	2	2	2	2	5	132	.....
.....	14	2	1	1	.....	2	5	5	.....	1	2	2	3	1	1	1	.....	.....	.....
.....	34	5	2	1	.....	1	5	7	5	.....	2	2	4	8	6	2	.....	133	.....
.....	8	1	1	2	.....	2	1	.....	.....	1	3	1	.....	1	.....	1	2	.....	.....
.....	10	4	.....	3	.....	1	.....	2	2	3	1	2	1	2	1	2	.....	134	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	6	4	.....	3	.....	.....	.....	2	1	2	1	2	1	2	1	1	.....	134A	.....
.....	4	.....	.....	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	1	134B	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	219	91	8	12	3	24	24	35	24	32	28	34	27	23	26	30	26	135	.....
.....	4	1	.....	.....	.....	1	.....	1	1	.....	.....	1	.....	.....	.....	1	.....	136	.....
.....	26	10	.....	2	.....	3	1	4	4	5	4	6	2	2	1	3	3	137	.....
.....	19	7	1	3	.....	2	3	3	2	1	1	3	3	5	1	3	3	138	.....
.....	31	12	2	4	.....	3	5	5	10	4	4	3	2	4	4	2	3	139	.....
.....	4	2	.....	.....	.....	1	.....	.....	1	4	.....	.....	.....	.....	.....	.....	.....	140	.....
.....	25	8	3	1	1	2	6	3	3	2	6	2	3	3	2	3	3	141	.....
.....	2	1	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	1	.....	.....	.....	142	.....
.....	295	97	9	39	.....	38	36	34	46	44	37	48	44	27	30	26	30	.....	.....
.....	18	6	.....	4	.....	3	1	1	2	3	2	4	3	3	1	2	3	143	.....
.....	3	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	143A	.....
.....	8	6	.....	3	.....	1	1	.....	1	1	1	3	3	2	.....	1	3	143B	.....
.....	7	.....	.....	.....	.....	1	.....	.....	1	1	1	1	.....	1	.....	1	.....	143C	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	143D	.....
.....	29	5	.....	5	.....	4	5	3	2	5	3	.....	4	4	2	3	4	144	.....
.....	31	14	1	6	.....	5	4	3	7	2	6	6	8	2	5	2	2	145	.....
.....	8	3	1	2	.....	.....	1	.....	1	.....	1	1	4	1	4	.....	1	145A	.....

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930

Not stat- ed	NATIVITY					MONTHS												
	Can- ada	Brit- ish	Foreign		Not stat- ed	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
.....	6	4	.....	1	.....	1	1	1	1	.....	4	2	.....	.....	.....	1	.....	145B
.....	2	1	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	1	.....	.....	.....	145C
.....	6	3	.....	1	.....	1	2	.....	3	.....	.....	.....	3	.....	1	.....	.....	145D
.....	9	3	.....	2	.....	3	.....	2	2	1	.....	3	1	.....	.....	1	.....	145E
.....	95	37	5	16	.....	11	21	16	15	14	12	16	12	8	9	9	10	146
.....	30	11	.....	1	.....	2	3	3	7	3	2	4	7	1	5	2	3	147
.....	86	19	1	7	.....	10	2	8	13	14	12	16	9	8	8	8	5	148
.....	6	5	2	.....	.....	3	.....	.....	.....	3	.....	.....	1	1	.....	.....	3	149
.....	167	44	4	6	4	24	18	21	15	23	21	22	15	19	17	14	16	
.....	89	25	4	4	1	13	9	11	7	11	10	14	12	13	8	9	6	
.....	78	19	.....	2	3	11	9	10	8	12	11	8	3	6	9	5	10	
.....	38	17	3	1	.....	9	4	3	.....	5	4	11	4	7	5	5	2	151
.....	37	11	.....	1	1	3	5	5	7	6	4	6	2	3	4	4	1	
.....	8	4	1	1	.....	1	.....	2	.....	2	1	.....	2	2	2	.....	2	152
.....	12	1	.....	2	2	2	.....	.....	.....	3	1	1	.....	1	3	.....	4	
.....	23	4	.....	2	2	2	4	3	6	2	2	.....	4	4	.....	1	1	153
.....	15	1	.....	1	.....	2	3	2	.....	2	.....	.....	1	.....	.....	.....	.....
.....	20	.....	.....	1	.....	1	1	3	1	2	3	3	2	.....	1	3	.....	154
.....	14	6	.....	.....	.....	4	1	3	1	1	4	1	.....	2	2	.....	1	
.....	71	15	.....	6	.....	14	12	9	3	12	5	4	4	10	4	9	6	
.....	38	9	.....	4	.....	11	5	4	3	3	4	3	2	6	2	6	2	
.....	33	6	.....	2	.....	3	7	5	.....	9	1	1	2	4	2	3	4	
.....	30	5	.....	3	.....	8	4	4	3	2	3	1	2	6	1	3	1	155
.....	25	4	.....	.....	.....	1	7	3	.....	8	1	1	1	2	2	2	1	
.....	7	2	.....	1	.....	3	.....	.....	.....	1	2	.....	.....	.....	1	2	.....	156
.....	7	1	.....	1	.....	2	.....	2	.....	.....	.....	.....	1	1	.....	.....	3	
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	157
.....	1	2	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	.....	158
.....	.....	1	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....
.....	493	3	1	1	.....	42	41	49	53	53	34	36	33	46	39	29	43	
.....	286	2	1	1	.....	23	22	31	31	35	22	19	17	25	25	20	20	
.....	207	1	.....	.....	.....	19	19	18	22	18	12	17	16	21	14	9	23	
.....	286	2	1	1	.....	23	22	31	31	35	22	19	17	25	25	20	20	159
.....	207	1	.....	.....	.....	19	19	18	22	18	12	17	16	21	14	9	23	
.....	23	.....	.....	.....	.....	2	.....	4	4	3	1	.....	1	1	3	6	.....	159A
.....	17	.....	.....	.....	.....	1	4	1	1	.....	.....	.....	1	2	2	.....	2	
.....	120	2	1	1	.....	8	10	11	16	18	7	13	4	12	12	6	7	159B
.....	74	1	.....	.....	.....	7	4	6	11	8	5	4	5	9	4	3	9	
.....	143	.....	.....	.....	.....	13	12	19	11	14	14	6	12	12	10	8	12	159C
.....	116	.....	.....	.....	.....	11	11	8	10	10	7	13	10	10	8	6	12	

TABLE 39—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid-owed				
			Under 15	Single					Married								
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated			
CLASS XII.—DISEASES OF EARLY INFANCY.																	
Total		2403	2403														
	M	1336	1336														
	F	1067	1067														
160. Congenital debility, icterus and sclerema..	M	233	233														
	F	158	158														
161. Premature birth, injury at birth.....	M	972	972														
	F	781	781														
161A. Premature birth.....	M	796	796														
	F	660	660														
161B. Injury at birth.....	M	176	176														
	F	121	121														
162. Other diseases peculiar to early infancy.....	M	128	128														
	F	126	126														
162A. Specified diseases.....	M	120	120														
	F	121	121														
162B. Unspecified causes under 3 months.....	M	8	8														
	F	5	5														
163. Lack of care.....	M	3	3														
	F	2	2														
CLASS XIII.—OLD AGE.																	
Total		553				1	68					3	111				370
	M	230				1	29					1	75				124
	F	323					39					2	36				246
164. Senility.....	M	230				1	29					1	75				124
	F	323					39					2	36				246
CLASS XIV.—EXTERNAL CAUSES.																	
Total		2774	471	329	263	124	97	13	46	444	373	210	2	402			
	M	2023	319	289	236	106	55	13	29	351	302	154	2	167			
	F	751	152	40	27	18	42		17	93	71	56		235			
165-174. Suicides.....	M	301	2	23	49	31	8	6	2	67	75	16		22			
	F	103		6	9	3	1		6	38	21	4		15			
165. Suicide by solid or liquid poisons (corrosive substances excepted).....	M	25	1	1	3					8	11	1					
	F	10		2	1				2	1	2	1		1			
166. Suicide by corrosive substances.....	M	36		2	1	5	2		1	17	7						1
	F	31		3	3				2	13	4			5			
167. Suicide by poisonous gas.....	M	23		2	4	3				6	6			2			
	F	15			4					6	2			3			
168. Suicide by hanging or strangulation.....	M	73	1	7	14	10	2	1		13	17	3		5			
	F	17							1	6	6	1		3			
169. Suicide by drowning....	M	37		3	6	1	1	3		8	11	2		2			
	F	13				1			1	5	5			1			
170. Suicide by firearms.....	M	65		5	12	9	1			11	15	5		7			
	F	5								4				1			
171. Suicide by cutting or piercing instruments..	M	27			4	3	2	1	1	2	5	4		5			
	F	6			1			1		2	2						
172. Suicide by jumping from high places.....	M	9		2	1					2	3	1					
	F	4				2				1							
173. Suicide by crushing....	M	4			3			1									
	F	2		1	1												
174. Other suicides.....	M	2															
	F	2										1		1			

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930

Not stated	NATIVITY				MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
.....	2396	.....	1	2	4	199	207	240	241	238	207	210	158	180	191	161	171
.....	1332	.....	.....	2	2	104	88	128	136	144	123	127	85	103	113	83	101
.....	1064	.....	1	.....	2	95	119	112	105	94	84	83	72	77	78	78	70
.....	232	.....	.....	1	.....	18	20	15	15	25	15	29	12	31	25	13	15
.....	157	.....	1	.....	.....	9	18	6	15	20	10	13	9	17	14	17	10
.....	970	.....	.....	.....	2	74	58	99	107	104	94	83	69	65	81	63	75
.....	780	.....	.....	.....	1	72	85	88	82	66	64	57	55	56	58	50	48
.....	794	.....	.....	.....	2	56	49	76	88	83	81	71	60	52	66	53	61
.....	659	.....	.....	.....	1	63	66	70	69	61	53	51	47	46	49	43	42
.....	176	.....	.....	.....	.....	18	9	23	19	21	13	12	9	13	15	10	14
.....	121	.....	.....	.....	.....	9	19	18	13	5	11	6	8	10	9	7	6
.....	128	.....	.....	.....	.....	12	9	14	13	15	13	15	5	7	7	7	11
.....	125	.....	.....	.....	1	14	15	18	8	8	10	13	8	4	5	11	12
.....	120	.....	.....	.....	.....	12	9	13	12	14	13	13	5	7	6	6	10
.....	120	.....	.....	.....	1	13	14	17	8	8	10	12	7	4	5	11	12
.....	8	.....	.....	.....	.....	.....	.....	1	1	1	.....	2	.....	.....	1	1	1
.....	5	.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	1	.....	.....	.....	.....
.....	2	.....	.....	1	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	355	159	17	22	.....	53	43	54	50	45	28	37	39	46	51	55	52
.....	143	69	10	8	.....	24	16	22	25	16	10	19	16	18	23	19	22
.....	212	90	7	14	.....	29	27	32	25	29	18	18	23	28	28	36	30
.....	143	69	10	8	.....	24	16	22	25	16	10	19	16	18	23	19	22
.....	212	90	7	14	.....	29	27	32	25	29	18	18	23	28	28	36	30
.....	1873	439	92	283	87	165	159	203	195	229	306	352	281	244	229	211	200
.....	1304	326	69	245	79	114	103	147	131	183	245	277	218	180	159	143	123
.....	569	113	23	38	8	51	56	56	64	46	61	75	63	64	70	68	77
.....	172	63	4	43	19	24	12	32	31	33	28	25	25	25	27	25	14
.....	73	22	1	5	2	6	3	11	8	7	13	8	8	9	7	10	13
.....	17	5	.....	3	.....	2	1	1	4	4	.....	3	5	2	2	1	.....
.....	7	2	.....	.....	1	.....	.....	1	2	1	.....	1	2	1	.....	.....	2
.....	21	10	.....	5	.....	3	2	1	2	3	3	2	3	6	4	3	4
.....	20	9	1	1	.....	2	.....	6	2	1	4	5	2	.....	2	1	6
.....	12	5	3	1	2	4	.....	1	2	3	3	.....	3	3	1	2	1
.....	12	3	.....	.....	.....	2	.....	1	2	.....	3	.....	2	2	1	.....	2
.....	39	11	.....	16	7	6	4	10	7	8	8	8	4	3	6	8	1
.....	12	4	.....	1	.....	1	2	1	1	.....	2	2	1	2	1	2	2
.....	17	8	.....	7	5	.....	.....	3	4	5	3	7	3	3	4	3	2
.....	10	1	.....	1	1	.....	.....	1	1	3	2	1	1	.....	2	2	.....
.....	39	16	.....	7	3	4	3	7	6	6	4	4	4	6	9	5	5
.....	3	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	1	1	1	1
.....	19	5	.....	1	2	3	1	9	3	4	1	1	2	1	.....	2	.....
.....	5	1	.....	.....	.....	1	.....	.....	.....	1	1	.....	2	.....	.....	.....	171
.....	6	2	1	.....	.....	1	1	.....	2	.....	3	.....	1	.....	.....	.....	1
.....	2	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	2	.....
.....	1	1	.....	2	.....	1	.....	.....	.....	.....	1	.....	.....	.....	1	1	.....
.....	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	173
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	174

TABLE 39—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid- owed			
			Under 15	Single					Married							
				15-24	25-44	45-64	65 and over	Age not stat- ed	15-24	25-44	45-64	65 and over		Age not stat- ed		
175. Poisoning by food.....	M	2	1										1			
	F	3	2													
176. Poisoning by venomous animals.....	M	2	1													1
	F	1	1													
177. Other acute accidental poisonings (gas excepted)	M	14	5	1	3							2	1	2		
	F	13	6		1						1	1	1	1		2
178. Conflagration.....	M	47	21	4	7	3			3			4	3			2
	F	19	13							1	4			1		
179. Accidental burns and scalds (conflagration excepted).....	M	53	19	4	4		1					12	7	2		4
	F	64	41	1	1		1			1		6	1	3		9
180. Accidental mechanical suffocation.....	M	19	13		1	1						1	2	1		
	F	16	16													
180A. Overlying.....	M	4	4													
	F	6	6													
180B. Asphyxia.....	M	15	9		1	1						1	2	1		
	F	10	10													
181. Accidental absorption of irrespirable or poison- ous gas.....	M	33	2	2	1	1	1			2		5	13	3	1	2
	F	10	2	1	1		1					2		1		3
182. Accidental drowning....	M	310	93	97	37	19	3	2		5	29	18	3			4
	F	31	16	8	3					1	2	1				
183. Accidental traumatism by firearms.....	M	46	9	16	5	1				3	7	3	1			1
	F	6		4							1					1
184. Accidental traumatism by cutting or piercing instruments.....	M	3		1	2											
185. Accidental traumatism by fall.....	M	221	13	15	15	8	13			3	15	29	52			58
	F	229	4	1	1	4	27				6	16	29			141
186. Accidental traumatism in mines and quarries..	M	36		5	7					2	19	3				
186B. Other mines.....	M	34		4	7					2	18	3				
186C. Quarries.....	M	2		1							1					
187. Accidental traumatism by machines.....	M	56	2	3	6	2		1		4	19	12	3			4
	F	1										1				
188. Accidental traumatism by other crushing (vehicles, railways, landslides, etc.).....	M	656	104	97	75	31	19	1		8	120	108	46	1		46
	F	165	39	14	10	9	5			3	22	27	12			24
188A. Railroad accidents....	M	147	7	23	28	7	3	1		2	30	26	6			14
	F	16	7		2	1						1	2			3
188B. Street car accidents...M		11				2	1			1	1		4			2
	F	5	1				1				1					2
188C. Automobile accidents..M		383	80	57	34	15	12			3	68	61	28	1		24
	F	134	29	12	6	8	3			3	21	25	9			18
188D. Aeroplane and balloon accidents.....	M	13		5	3							5				
	F	2		1												
188E. Injuries by other vehicles.....	M	45	11	6	1	2	3				4	11	5			2
	F	6	2	1			1					1	1			
188F. Other crushing.....	M	57	6	6	9	5				2	12	10	3			4
	F	2			1											1
189. Injuries by animals (poisoning excepted)..	M	21	6	1	1	1	1				2	3	4			2
	F	7	3									1				3
192. Starvation (deprivation of food or water).....	M	9	1	1	1	1						1	2			2
	F	2				1										1
193. Excessive cold.....	M	12			2	2	2					2	2			2
	F	1														1
194. Excessive heat.....	M	14	1		1		2					1	4	4		1
	F	4	1								1	1				1
195. Lightning.....	M	5		1								3		1		
196. Other accidental electric shocks.....	M	36	2	7	6	1						11	6	1		2
	F	1										1				
197-199. Homicides.....	M	40	12	6	4	1	1					10	5			1
	F	28	8	4	1		1			3	7	2				2

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930—Continued

Not stated	NATIVITY				MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
2						1									1		175
3						1				1		1					
2											1	1					176
1													1				
12	1			1		1	1	2	1			4		1	4		177
10	2			1		1	4				1	1		1		2	3
29	4	3		5	6	3	8	11	2	2	1	3	4	1	3	3	6
17				2		3	3	2			1	1				6	3
41	6			6		7	2	6	4	1	7	8	4	2	1	5	6
55	3	1		5		7	8	4	6	4	3	3	5	3	10	2	9
15				4		1	2	1	3	1		3	2	1	2	3	180
4		1				2	1	1	2	1	1		1	1	2	2	2
6						1	1		1			1	1			1	180A
6						1	1		1							2	1
11				4		1	2	1	2	1		2	1	1	2	2	180B
9		1				1		1	1	1	1		1	1	2		1
23	7			2	1	2	5	3	2	5	1	1		6	1	2	5
8	2					3		1	1	1	1					1	2
205	43	26	28	8	8	5	6	7	10	36	55	92	51	29	9	5	5
28	1	1	1			2	1	2	1	2	1	3	9	4			182
40	3			3		4	5	8		2	3	1	4	3	5	6	5
4	2											1		2			3
	1			2			1							2			184
146	56	4	11	4	18	9	20	18	13	22	31	19	16	21	14	20	185
162	47	8	11	1	16	21	19	22	14	16	22	12	22	22	27	16	
7	9	1	19		2	4	2	3	4	2	5	6	1	2	3	2	186
6	8	1	19		2	2	2	3	4	2	5	6	1	2	3	2	186B
1	1					2											186C
32	13		10	1	2	5	7	3	6	8	3	3	4	7	6	2	187
			1					1									
433	98	21	80	24	30	31	27	33	64	91	74	75	71	61	55	44	188
123	25	9	8		4	8	6	11	11	20	21	18	16	22	14	14	
79	20		31	17	8	10	6	6	13	31	15	14	15	17	10	2	188A
13	2		1		2		1	1	1	4	3	1	1	1	1	1	
5	4		1	1		2		1	1	1	1	2	1	1	1	1	188B
3	1				1			1		1	1	1		1			
264	60	17	38	4	10	14	10	19	39	42	43	50	49	34	38	35	188C
97	22	9	6		1	6	5	7	9	15	17	16	14	20	11	13	
9	2	2					3		1	3	1	2	2		1		188D
2															2		
42	2	1			5	3	5	1	6	5	9	4	1	3	1	2	188E
6					2	2		1	2				1				
34	10	1	10	2	7	2	3	6	4	9	5	3	3	6	4	5	188F
2								1				1					
17	2		2			1		4	1	1	3	4	3	2		2	189
6	1											2	3		1	1	
6	2		1						1	1		1	1	1	2	2	192
2																2	
8	2	1	1	3	3	2	1	2	2								2
1					1												
7	4	1	2							1	1	8	3	1			194
4											1	3	1				
5								3	1			1					195
25	6	2	3		2		3	1	3	6	3	5	7	2	3	1	196
1												1					
18		5	5	12	4	2	3	4	1	4	6	5	3	3	3	2	197-
15	3	1	4	5	3		6	6	2		2	1	1	3	3	1	199

TABLE 39—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION												
			Under 15	Single					Married					Wid-owed	
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated		
197. Homicide by firearms...	M	12		2	1						7	1			1
	F	7		1			1			2	2				1
198. Homicide by cutting or piercing instruments..	M	4		1	1	1						1			
	F	4	1							2					
199. Homicide by other means	M	24	12	3	2		1			3	3				
	F	17	7	2	1					1	3	2			1
201. Fracture (cause not specified)	M	22	1				1				1	9			10
	F	41					6					5			30
202. Other external violence (cause specified)	M	64	11	4	9	3	3			24	5	2			3
	F	6	2			1				1					2
203. External violence (cause not specified)	M	1		1											
CLASS XV.—ILL-DEFINED DISEASES.															
Total		129	43	6	3	5	8	1		4	19	12			28
	M	84	28	4	3	5	6	1		2	14	10			11
	F	45	15	2			2			2	5	2			17
204. Sudden death.....	M	12	4		1	1	2				1	1			2
	F	7	3							1					2
205. Cause of death not specified or ill-defined.....	M	72	24	4	2	4	4	1		2	13	9			9
	F	38	12	2			2			1	4	2			15
205A. Ill-defined.....	M	13	12			1									
	F	3	2	1											
205B. Not specified or unknown.....	M	21	10	3	1	1		1		1	2				2
	F	15	9	1							2				3
205C. Heart failure.....	M	38	2	1	1	2	4			1	11	9			7
	F	20	1				2			1	2	2			12

DITION, NATIVITY, AND MONTH OF DEATH—ONTARIO, 1930—Continued

Not stat- ed	NATIVITY					MONTHS												
	Can- ada	Brit- ish	Foreign		Not stat- ed	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
6	5	1	4	1	1	1	1	1	1	3	3	1	1	1	1	1	1	197
2	2	1	1	2	1	1	2	2	3	1	2	1	1	1	1	1	1	198
10	8	1	1	2	11	3	2	2	3	1	2	3	1	2	3	2	1	199
19	36	2	4	1	1	2	5	2	4	5	2	4	2	2	1	2	3	201
42	5	4	1	16	1	3	7	12	5	4	8	4	2	4	5	5	5	202
1						2	1	1	1	1	1						1	203
107	13	3	2	4	18	15	15	11	7	13	9	13	6	7	10	5		
70	37	7	2	2	3	12	9	11	6	5	6	8	9	6	5	3	4	
8	5	2	1	1	1	2	3	1	2	1	1	2	1	1	1	1	1	204
62	32	5	1	1	3	10	6	10	6	4	5	6	9	6	4	2	4	205
12	3	4	1	1	1	6	5	2	5	2	5	1	4	4	2	6	1	205A
18	14	5	1	1	2	2	2	3	1	2	1	3	4	1	1	1	2	205B
32	15	3	1	1	1	7	4	6	4	1	3	2	4	1	4	1	1	205C
15		3	1	1	1	4	3	3	3	1	1	3	3	1	1	4		

DITION, NATIVITY, AND MONTH OF DEATH—TORONTO, 1930

Not stated	NATIVITY					MONTHS											
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
.....	4,372	2,031	135	462	57	652	573	714	685	648	562	483	490	536	569	542	603
.....	2,201	1,063	69	287	41	352	296	352	335	344	314	228	261	282	296	266	335
.....	2,171	968	66	175	16	300	277	362	350	304	248	255	229	254	273	276	268
.....	488	134	10	41	6	68	48	76	89	69	65	50	39	42	38	46	49
.....	241	80	6	32	4	39	21	37	43	39	33	27	24	23	22	24	31
.....	247	54	4	9	2	29	27	39	46	30	32	23	15	19	16	22	18
.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2	1
.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2	1A
.....	13	.....	1	.....	.....	2	.....	3	2	3	1	1	.....	.....	1	.....	7
.....	9	.....	.....	.....	.....	.....	.....	2	3	.....	2	.....	.....	.....	.....	1	8
.....	8	.....	.....	.....	.....	1	.....	.....	.....	.....	3	1	.....	2	1	.....	9
.....	4	.....	.....	.....	.....	.....	.....	3	.....	.....	1	.....	.....	.....	.....	.....	.....
.....	31	3	1	.....	.....	4	2	1	3	6	1	2	3	1	4	3	5
.....	30	.....	.....	1	.....	1	2	5	2	4	3	2	2	3	2	5	.....
.....	38	10	1	2	.....	7	5	8	13	5	3	1	.....	.....	3	2	4
.....	42	22	1	.....	.....	8	9	10	13	6	4	1	1	1	4	2	6
.....	4	1	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....	2
.....	3	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	1	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	11B
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	11C
.....	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	16	4	.....	.....	.....	4	2	2	8	.....	.....	.....	.....	.....	2	.....	2
.....	12	10	.....	.....	.....	3	2	4	6	1	3	.....	1	.....	1	1	11D
.....	2	2	.....	.....	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....
.....	2	1	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....	1	.....	11E
.....
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	14	3	1	2	.....	2	2	5	3	4	2	1	.....	.....	.....	1	.....
.....	22	10	1	.....	.....	3	5	4	6	3	1	1	.....	.....	3	1	.....
.....	19	8	.....	.....	.....	4	4	3	2	2	5	1	1	1	.....	.....	5
.....	20	3	.....	.....	.....	2	2	6	4	5	2	.....	1	.....	.....	1	.....
.....	18	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	6	6	4	.....
.....	9	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	3	3	.....
.....	3	3	.....	1	.....	.....	.....	1	1	1	1	.....	1	2	.....	.....	.....
.....	4	.....	.....	1	.....	.....	.....	1	.....	1	.....	.....	1	1	1	.....	.....
.....	6	.....	.....	.....	.....	.....	.....	1	2	1	.....	.....	1	.....	1	.....	.....
.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	1	.....
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	1	.....
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	4	.....	.....	.....	.....	.....	1	.....	2	1	.....	.....	1	.....	.....	.....
.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	68	39	3	24	2	10	10	14	13	16	15	13	10	8	7	7	13
.....	96	22	3	6	.....	15	10	7	17	10	15	12	8	12	4	7	10
.....	45	35	3	18	2	7	9	11	12	14	10	8	7	5	6	5	9
.....	65	18	2	3	.....	7	6	5	14	6	12	8	6	11	.....	6	7
.....	8	2	.....	1	.....	1	.....	1	1	2	2	.....	2	.....	.....	1	.....
.....	12	.....	.....	1	.....	.....	1	1	1	2	.....	3	1	.....	2	.....	.....
.....	4	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
.....	6	.....	.....	.....	.....	.....	.....	.....	1	1	.....	1	1	.....	1	.....	.....

TABLE 40—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION												
			Under 15	Single					Married					Widowed	
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated		
34. Tuberculosis of the vertebral column.....	M	3	1								1				1
	F	2									1		1		
35. Tuberculosis of the joints.....	M	2	1									1			
	F	3	2	1											
36. Tuberculosis of other organs.....	M	4		1	1						1	1			
	F	4				1						1	1		1
36c. Lymphatic system (mesenteric, and retroperitoneal glands excepted).....	F	1											1		
36d. Genito-urinary system.....	M	4		1	1						1	1			
	F	3				1						1			1
37A. Disseminated tuberculosis.....	M	9	2	4	1						1	1			
	F	11	5	1	2					1		1			1
37. Disseminated tuberculosis, acute.....	M	5	2	2	1										
	F	10	5	1	1					1		1			1
37B. Disseminated tuberculosis, chronic or un-stated.....	M	4		2							1	1			
	F	1			1										
38. Syphilis.....	M	27	7	1	3	2					4	8	1		1
	F	11	6	1							3	1			
40. Gonococcus infection..	M	3	1								2	1			
	F	9	2	1	1					2	3				
41. Purulent infection, septicaemia.....	M	11				1				1	1	3	3		2
	F	13	6							1	3	1	1		
CLASS II.—GENERAL DISEASES NOT INCLUDED IN CLASS I.															
Total.....		1,202	56	22	36	72	57			4	107	350	225		273
	M	530	30	9	16	33	13			3	39	154	146		87
	F	672	26	13	20	39	44			1	68	196	79		186
43-49. Cancer.....	M	380	4	3	10	21	10			1	26	114	122		69
	F	463	2	3	17	30	32			1	53	143	51		131
43. Cancer of the buccal cavity.....	M	15				1	1				1	6	3		3
	F	3				1						2			
44. Cancer of the stomach and liver.....	M	145		1	1	7	5				13	40	46		32
	F	100				5	3				6	24	16		46
45. Cancer of the peritoneum, intestines and rectum.....	M	91	2		1	6	1				6	30	31		14
	F	77			3	4	10				9	19	9		23
46. Cancer of the female genital organs.....	F	104		1	4	7	5				15	38	10		24
47. Cancer of the breast.....	M	1													1
	F	88			6	9	6				11	35	5		16
48. Cancer of the skin....	M	3											1		2
	F	8			1		1				1	1	3		1
49. Cancer of other or un-specified organs.....	M	125	2	2	8	7	3				1	6	38	41	17
	F	83	2	2	3	4	7			1	11	24	8		21
49A. Cancer of eye and ear.	F	1										1			
49B. Cancer of circulatory system.....	M	2		1	1										
	F	4				1					1	1	1		
49C. Cancer of respiratory system.....	M	32		1	4	2					2	12	7		4
	F	18		2			1			1	2	6	2		4
49D. Cancer of digestive system.....	M	21				1					2	9	5		4
	F	23			1	1	4				1	7	4		5
49E. Cancer of genito-urinary system.....	M	54	1		1	2	3			1		13	25		8
	F	20	1			2	2				1	5			9

DITION, NATIVITY, AND MONTH OF DEATH—TORONTO, 1930—Continued

Not stat- ed	NATIVITY				Not stat- ed	MONTHS											
	Can- ada	Brit- ish	Foreign			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
	3					1							1	1		34	
		2				1				1							
	1	1									1	1				135	
	2			1		2					1						
	2			2		1				1	1	1				36	
	2	2				1		1	1				1				
		1							1							36C	
	2			2		1				1	1	1				36D	
	2	1				1				1			1				
	5	1		3		1		1			1	2		2	1	137	
	9		1	1		5	2	1			1				1	1	
	3	1		1		1					1			2		137A	
	8		1	1		5	2	1			1				1	1	
									1								
	2			2				1			1	1			1	37B	
	15	7		4	1	5		3	2	2	1	3	3	1	4	338	
	9	1		1	1	1		1	3	2		1	1	1			
	2			1		1			2	1	1					40	
	7	4				1				3		1		1			
	9	4				1		1	5	1	1	2				41	
						1		5	2	1	2	2					
....	625	445	32	95	5	102	89	118	118	92	105	86	88	94	115	90	105
....	235	219	15	58	3	49	43	41	50	44	56	28	34	39	56	36	54
....	390	226	17	37	2	53	46	77	68	48	49	58	54	55	59	54	51
....	145	174	14	46	1	34	25	26	33	31	44	19	25	30	44	29	40
....	259	167	10	25	2	33	32	46	48	37	34	40	34	37	43	38	41
....																	43-49
....	8	6	1			1	1	4	1	2		1	2	1	2		143
....	2	1								1				1			
....	48	70	6	21		11	12	10	15	8	14	6	6	10	22	11	20
....	52	42		6		13	5	8	11	5	13	10	7	8	8	7	544
....	37	42	2	10		10	5	5	9	4	16	4	7	10	8	6	745
....	51	22	1	3		3	2	9	9	6	8	6	7	7	5	8	7
....	58	38	1	6	1	8	11	9	10	7	9	7	7	8	10	7	1146
....	1										1						
....	53	28	3	3	1	6	4	15	3	5	3	10	10	6	8	9	947
....	2	1					2			1							48
....	5	3						1		1					4	2	
....	49	55	5	15	1	12	5	7	8	16	13	8	10	9	12	12	1349
....	38	33	5	7		3	10	4	15	12	1	7	3	7	8	5	8
....		1							1								49A
....				1	1	1										1	49B
....	2	2				1								1	1	1	
....	8	18	1	5		3		1		6	3	2	1	1	4	4	749C
....	8	7		3			3	1	3	3		2		3	3		
....	6	13		2		3	1	1	1		3	1	1	1	2	4	349D
....	10	10	1	2		1	5		3	2	1	4	3	1	2		1
....	29	17	3	5		4	4	3	7	8	4	2	6	6	4	3	349E
....	12	4	3	1		1	1	2	4	5		1		2	2	2	

DITION, NATIVITY, AND MONTH OF DEATH—TORONTO, 1930—Continued

Not stated	NATIVITY					MONTHS											
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
.....	1	2	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	1	1	.....	49F
.....	2	3	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	3	.....	.....	.....
.....	4	3	1	1	.....	1	.....	.....	.....	1	3	2	2	.....	.....	2	49G
.....	4	3	1	1	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	2	.....
.....	1	2	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	1	.....	49H
.....	.....	3	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2
.....	2	1	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	.....	50
.....	2	2	1	.....	.....	.....	1	2	.....	.....	.....	1	.....	.....	1	.....	51
.....	5	4	.....	.....	.....	1	1	.....	.....	2	.....	.....	1	1	2	.....	.....
.....	12	4	.....	1	.....	2	1	6	1	3	.....	1	.....	.....	2	.....	1
.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	52
.....	2	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	54
.....	8	.....	.....	.....	.....	.....	1	1	2	1	.....	.....	1	.....	.....	1	56
.....	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	1	.....	.....	.....	.....
.....	24	16	1	4	.....	4	5	3	3	4	6	5	1	3	3	2	5
.....	33	16	1	7	.....	5	3	8	5	5	5	3	5	3	5	7	6
.....	13	8	.....	1	.....	4	3	3	3	2	1	2	1	1	3	1	2
.....	26	17	3	1	.....	6	5	6	3	1	2	4	6	7	3	3	1
.....	12	7	.....	.....	.....	3	3	3	3	2	1	1	1	.....	2	1	2
.....	24	17	3	1	.....	6	5	6	3	1	2	4	6	5	3	3	1
.....	1	1	.....	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....	1	.....	58B
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	59
.....	5	1	.....	3	.....	1	2	1	2	1	.....	.....	.....	1	.....	1	60
.....	31	11	2	2	.....	5	4	3	4	4	3	7	4	7	3	1	1
.....	2	1	.....	.....	.....	2	4	.....	1	1	.....	.....	.....	2	2	1	.....
.....	16	7	.....	1	.....	.....	.....	.....	2	2	1	5	3	2	.....	.....	60A
.....	3	.....	.....	3	.....	.....	2	1	1	1	.....	.....	.....	1	.....	1	.....
.....	15	4	2	1	.....	3	.....	3	2	2	2	2	1	5	1	.....	.....
.....	7	1	.....	.....	.....	1	.....	1	.....	2	2	1	1	1	1	.....	62
.....	8	.....	.....	.....	.....	1	.....	3	1	1	.....	1	1	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	63
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	64
.....	10	4	.....	1	.....	2	3	2	2	1	.....	1	.....	.....	1	1	2
.....	7	1	.....	.....	.....	1	.....	2	2	.....	2	1	.....	.....	1	.....	.....
.....	17	3	.....	1	.....	2	2	2	1	1	.....	.....	.....	.....	1	.....	2
.....	5	1	.....	.....	.....	.....	1	2	.....	2	.....	.....	.....	.....	.....	1	65A
.....	3	1	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.....	1	65B
.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....
.....	11	8	.....	2	2	5	1	3	3	2	2	.....	2	2	1	1	1
.....	1	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	1	1	1	.....	66A
.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	11	6	.....	1	1	4	1	2	2	2	1	.....	2	2	1	1	1
.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....
.....	.....	2	.....	.....	1	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....	66C
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	68
.....	1	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....
.....	2	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	1	.....	.....	68C
.....	4	1	.....	.....	.....	1	1	.....	1	.....	.....	1	.....	.....	.....	2	69
.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	69B
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	69C
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	3	1	.....	.....	.....	1	1	.....	.....	.....	.....	1	.....	.....	.....	1	69D

TABLE 40—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION												
			Under 15	Single					Married					Widowed	
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated		
CLASS III.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.															
Total		460	60	19	13	29	17			3	40	87	78		114
	M	232	34	10	8	14	6			2	19	59	47		33
	F	228	26	9	5	15	11			1	21	28	31		81
70. Encephalitis	M	6	2	2							1	1			
	F	7	1	3							1	1	1		
70A. Abscess of brain	M	3		1							1	1			
	F	3	1	2											
70B. Encephalitis	M	3	2	1											
	F	4		1							1	1	1		
71. Meningitis	M	18	11	2	1	1					2	2	1		
	F	12	8							1	2	1			
71A. Simple meningitis	M	18	11	2	1	1					2	2	1		
	F	12	8							1	2	1			
72. Tabes dorsalis (locomotor ataxia)	M	8				3	1					2	1		1
	F	1										1			
73. Other diseases of the spinal cord	M	14				1					4	3	2		4
	F	13	1	1		2						3	3		3
74. Cerebral haemorrhage, apoplexy	M	88		1	2	6	3				4	29	26		17
	F	100			1	5	8				6	13	16		51
74A. Apoplexy	M	17					1					5	9		2
	F	14					2					2	3		7
74B. Cerebral haemorrhage	M	65		1	2	6	2				2	21	17		14
	F	78			1	4	6				6	11	12		38
74C. Cerebral thrombosis and embolism	M	6									2	3			1
	F	8				1							1		6
75. Paralysis without specified cause	M	16					2					2	7		5
	F	14				1	1					2	5		5
75A. Hemiplegia	M	15					2					1	7		5
	F	12				1	1					2	5		3
75B. Others under this title	M	1											1		
	F	2													2
76. General paralysis of the insane	M	9			1	2					1	3	2		
	F	3									1	1			1
77. Other forms of mental alienation	M	5			2							2	1		
	F	16		2	1	2					3	1	3		4
78. Epilepsy	M	6				1							4		1
	F	12	1		2	3						2			4
80. Infantile convulsions (under 5 years of age)	M	1	1												
	F	2	2												
81. Chorea	M	1										1			
82. Neuralgia and neuritis	M	2													2
	F	2											1		1
84. Other diseases of the nervous system	M	32	3	2	2					1	5	12	4		3
	F	27	3	2	1	2	2				2	2	2		11
85. Diseases of the eye and annexa	F	1										1			
86. Diseases of the ear and of the mastoid process	M	26	17	3						1	2	3			
	F	18	10	1							6				1
86A. Diseases of the ear	M	18	13	2							1	2			
	F	11	7	1							2				1
86B. Diseases of the mastoid process	M	8	4	1						1	1	1			
	F	7	3								4				

DITION, NATIVITY, AND MONTH OF DEATH—TORONTO, 1930—Continued

Not stat- ed	NATIVITY					MONTHS											
	Can- ada	Brit- ish	Foreign		Not stat- ed	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
....	303	125	7	25	....	44	33	45	40	44	37	27	32	37	38	38	45
....	152	60	2	18	....	19	21	24	18	18	22	11	20	19	14	21	25
....	151	65	5	7	....	25	12	21	22	26	15	16	12	18	24	17	20
....	6	.....	.....	.....	.....	.....	.....	1	1	.....	1	.....	1	1	.....	1	70
....	6	1	.....	.....	.....	1	1	1	1	1	.....	.....	1	.....	.....	.....	1
....	3	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	1	1	.....	.....	70A
....	3	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	1
....	3	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	1	.....	.....	.....	70B
....	3	1	.....	.....	.....	1	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....
....	12	4	.....	1	.....	.....	2	2	1	6	1	.....	.....	1	.....	2	71
....	12	.....	.....	.....	.....	.....	3	2	2	1	1	.....	1	.....	3	.....	.....
....	13	4	.....	1	.....	.....	2	2	1	6	1	.....	1	.....	1	2	71A
....	12	.....	.....	.....	.....	.....	.....	3	2	1	1	.....	1	.....	3	.....	.....
....	7	1	.....	.....	.....	1	2	.....	2	.....	.....	.....	.....	1	.....	1	72
....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
....	5	6	.....	3	.....	3	1	.....	1	2	.....	.....	.....	2	1	3	73
....	9	4	.....	.....	.....	2	.....	2	.....	3	.....	.....	.....	.....	2	3	1
....	57	23	1	7	.....	7	8	10	4	6	7	5	15	5	5	7	9
....	56	38	3	3	.....	10	5	8	10	11	11	5	6	9	9	6	10
....	11	5	.....	1	.....	2	5	1	.....	2	1	1	1	2	.....	2	74A
....	7	6	.....	1	.....	1	.....	.....	.....	2	2	1	1	4	1	2	.....
....	43	17	1	4	.....	4	3	8	3	4	6	4	13	3	4	5	8
....	45	28	3	2	.....	7	5	7	9	8	9	4	3	5	8	4	9
....	3	1	.....	2	.....	1	.....	1	1	.....	.....	.....	1	.....	1	.....	74C
....	4	4	.....	.....	.....	2	.....	1	1	1	.....	.....	2	.....	.....	.....	1
....	12	3	.....	1	.....	.....	1	.....	2	2	4	1	1	2	.....	2	75
....	8	4	1	1	.....	2	1	3	.....	.....	.....	2	.....	1	.....	2	1
....	12	3	.....	1	.....	.....	1	.....	2	2	3	1	1	2	.....	2	75A
....	8	3	.....	.....	.....	2	.....	2	2	.....	.....	2	.....	1	.....	2	1
....	.....	1	.....	1	.....	.....	1	1	.....	.....	1	.....	.....	.....	.....	.....	75B
....	3	2	.....	4	.....	2	.....	1	1	.....	2	1	1	.....	.....	.....	76
....	1	2	.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....
....	2	2	.....	1	.....	1	.....	.....	2	1	1	1	1	1	1	1	77
....	6	6	1	1	.....	.....	1	.....	2	.....	1	1	2	3	3	1	1
....	2	3	1	.....	.....	1	1	1	.....	.....	2	.....	.....	1	.....	.....	78
....	9	2	.....	1	.....	1	1	1	.....	3	.....	1	.....	.....	3	.....	2
....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	80
....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	81
....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	82
....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
....	20	11	.....	1	.....	3	4	2	4	.....	2	3	1	2	4	2	5
....	22	5	.....	.....	.....	4	2	.....	2	2	2	4	1	3	3	2	2
....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	85
....	21	5	.....	.....	.....	1	2	6	2	2	2	.....	1	3	1	2	4
....	14	3	.....	1	.....	5	.....	2	2	3	.....	1	.....	1	1	1	2
....	16	2	.....	.....	.....	1	2	4	2	1	1	.....	.....	2	.....	2	3
....	8	2	.....	1	.....	4	.....	.....	2	2	.....	1	.....	.....	.....	.....	86A
....	5	3	.....	.....	.....	.....	.....	2	.....	1	1	.....	1	1	1	.....	1
....	6	1	.....	.....	.....	1	.....	2	.....	1	.....	.....	1	1	1	1	86B

TABLE 40—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											Widowed			
			Under 15	Single					Married								
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated				
CLASS IV.—DISEASES OF THE CIRCULATORY SYSTEM.																	
Total		1,889	24	28	29	75	140			4	99	385	446			659	
	M	994	14	18	15	44	64			1	48	256	316			218	
	F	895	10	10	14	31	76			3	51	129	130			441	
87-90. Diseases of the heart	M	550	14	17	13	26	30			1	35	149	154			111	
	F	449	8	9	10	19	39			2	47	78	66			221	
87. Pericarditis	M	4	2		2												
	F	2	2														
88. Endocarditis and myocarditis (acute)	M	19	2	2	2	2	1				5	3				2	
	F	15	2	1		2	2				2	2				4	
88A. Acute endocarditis	M	11	1	1	2	1					4	2					
	F	7	2	1	2						1	2				1	
88B. Acute myocarditis	M	8	1	1		1	1				1	1				2	
	F	8					2				1	2				3	
89. Angina pectoris	M	107	1		1	5	4				5	35	36			20	
	F	47				3	6				2	7	10			19	
90. Other diseases of the heart	M	420	9	15	8	19	25			1	25	111	118			89	
	F	435	4	8	10	14	31			2	43	69	56			198	
90A. Valvular disease	M	54	3	3	1		2				4	18	10			13	
	F	74		2	1	1	5				9	15	8			33	
90B. Fatty degeneration of the heart	M	1				1											
	F	2					1					1					
90C. Aortic insufficiency	M	1														1	
	F	1															
90D. Chronic endocarditis	M	64	4	7		3				1	9	13	11			16	
	F	65	2	4	3	1	2			1	15	11	7			19	
90E. Chronic myocarditis	M	271	2	4	7	15	19				11	71	89			53	
	F	260	1	2	5	11	22			1	16	38	35			129	
90F. Others under this title	M	28		1			3				1	8	8			7	
	F	35	1		1	1	2				3	5	6			16	
91. Diseases of the arteries	M	394		1	1	14	33				8	90	148			99	
	F	374			3	11	37				3	42	62			216	
91A. Aneurysm	M	15		1			1				1	8	2			2	
	F	10										3	2			5	
91B. Arterio-sclerosis	M	374			1	14	31				7	79	146			96	
	F	362			3	11	36				3	38	60			211	
91C. Other diseases of the arteries	M	5					1					3				1	
	F	2					1					1					
92. Embolism and thrombosis (non cerebral)	M	46			1	3	1				4	16	14			7	
	F	14				1				1		7	2			3	
93. Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	M	3				1					1	1					
	F	5	1	1							1	1				1	
94. Diseases of the lymphatic system (lymphangitis, etc.)	F	1	1														
95. Haemorrhage without specified cause	M	1														1	
96. Other diseases of the circulatory system	F	2			1							1					
CLASS V.—DISEASES OF THE RESPIRATORY SYSTEM.																	
Total		562	163	16	27	21	24			2	62	95	53			99	
	M	308	89	10	25	11	14				31	57	29			42	
	F	254	74	6	2	10	10			2	31	38	24			57	
97. Diseases of the nasal fossae and their annexa	M	7	1	1	2							3					
	F	4	2								1					1	
98. Diseases of the larynx	M	4	2								1	1				1	
98B. Laryngitis	M	1	1														
98C. Croup	M	1	1														
98D. Other diseases of the larynx	M	2									1	1					

TABLE 40—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											Wid-owed	
			Under 15	Single					Married						
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated		
99. Bronchitis.....	M	19	9				1					3	3		3
	F	13	6				2				2	1	1		1
99A. Bronchitis, acute.....	M	10	7										1		2
	F	8	6				1				1				
99B. Bronchitis, chronic.....	M	5					1					2	2		
	F	4									1	1	1		1
99C. Bronchitis, not otherwise defined, under 5 years of age.....	M	1	1												
99D. Bronchitis, not otherwise defined, 5 years or over.....	M	3	1									1			1
	F	1					1								
100. Broncho-pneumonia (including capillary bronchitis).....	M	102	47	4	5	1	6				5	13	7		14
	F	89	38	1		3	2			1	7	8	8		21
100A. Broncho-pneumonia.....	M	102	47	4	5	1	6				5	13	7		14
	F	89	38	1		3	2			1	7	8	8		21
101. Pneumonia.....	M	133	22	3	15	7	5				23	28	14		16
	F	120	21	5	2	6	5			1	20	23	12		25
101A. Pneumonia, lobar.....	M	116	16	3	13	5	4				22	26	12		15
	F	108	17	4	2	6	2			1	19	22	12		23
101B. Pneumonia, not otherwise defined.....	M	17	6		2	2	1				1	2	2		1
	F	12	4	1			3				1	1			2
102. Pleurisy.....	M	18	6	2	1	3					1	1	1		3
	F	10	5			1						2	1		1
103. Congestion and haemorrhagic infarct of the lung.....	M	4			1		1						1		1
	F	8					1						1		6
104. Gangrene of the lung.....	M	1	1												
105. Asthma.....	M	10	1				1					2	2		4
	F	5										3	1		1
106. Pulmonary emphysema.....	F	1	1												
107. Other diseases of the respiratory system (tuberculosis excepted).....	M	10			1						1	6	1		1
	F	4	1								1	1			1
107A. Chronic interstitial pneumonia including occupational diseases of the lungs.....	M	1										1			
	F	9			1						1	5	1		1
107C. Others under this title.....	M	4	1								1	1			1
	F	4													
CLASS VI.—DISEASES OF THE DIGESTIVE SYSTEM.															
Total		658	267	32	24	31	7			5	65	104	53		70
	M	372	162	21	19	18	1			1	39	61	34		16
	F	286	105	11	5	13	6			4	26	43	19		54
108. Diseases of the mouth and annexa.....	M	5			1						1	2	1		
	F	5				1						2			2
109. Diseases of the pharynx and tonsils (including adenoid vegetations).....	M	31	22	2	1	1					1	3			1
	F	24	12	4	1	1	1				1	2			1
109B. Pharynx and tonsils.....	M	31	22	2	1	1					1	3			1
	F	24	12	4	1	1	1				1	2			1
110. Diseases of the oesophagus.....	F	1													
111. Ulcer of the stomach and duodenum.....	M	47		2	5	7					10	15	3		5
	F	22				5	1			1	3	4	2		6
111A. Ulcer of the stomach.....	M	19			1	3					4	7	2		2
	F	12				1				1	1	3	1		5
111B. Ulcer of the duodenum.....	M	28		2	4	4					6	8	1		3
	F	10				5					2	1	1		1
112. Other diseases of the stomach (cancer excepted).....	M	6										3	3		
	F	6	2									1	1		2

DITION, NATIVITY, AND MONTH OF DEATH—TORONTO, 1930—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
.....	14	4	.....	1	.....	.....	2	6	2	2	1	.....	1	1	.....	2	2	99
.....	9	2	.....	1	.....	.....	4	1	3	2	1	.....	1	1	.....	.....	.....	99A
.....	7	1	.....	.....	.....	.....	2	4	2	.....	1	.....	.....	.....	.....	.....	1	.....
.....	3	1	.....	1	.....	.....	4	1	1	2	.....	.....	.....	.....	.....	.....	.....	99B
.....	2	1	.....	1	.....	.....	.....	.....	2	.....	1	.....	.....	1	1	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	99C
.....	1	2	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	99D
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
.....	62	29	1	5	5	10	12	16	10	12	6	2	1	7	9	7	10	100
.....	63	18	4	4	5	10	6	13	14	5	2	1	5	7	7	11	8	.....
.....	62	29	1	5	5	10	12	16	10	12	6	2	1	7	7	7	7	100A
.....	63	18	4	4	.....	10	6	13	14	5	2	1	5	7	7	11	8	.....
.....	80	42	1	8	2	19	11	11	26	20	9	3	4	6	6	7	11	101
.....	76	33	3	6	2	12	21	17	12	16	11	.....	4	5	4	7	11	.....
.....	69	36	1	8	2	15	11	10	24	15	8	3	2	5	5	7	11	101A
.....	67	31	2	6	2	9	20	15	11	16	10	.....	4	4	2	7	10	.....
.....	11	6	.....	.....	.....	4	.....	1	2	5	1	.....	2	1	1	.....	.....	101B
.....	9	2	1	.....	.....	3	1	.....	1	.....	1	.....	.....	1	2	.....	.....	.....
.....	13	5	.....	.....	.....	.....	1	1	2	5	2	3	1	1	2	1	1	102
.....	8	2	.....	.....	.....	.....	1	2	2	1	.....	.....	.....	2	1	1	1	.....
.....	2	2	.....	.....	.....	1	.....	.....	1	1	.....	.....	1	.....	.....	.....	.....	103
.....	3	5	.....	.....	.....	2	3	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	104
.....	2	5	.....	3	.....	1	1	2	2	.....	.....	1	1	.....	1	.....	.....	105
.....	3	1	.....	1	.....	.....	.....	1	1	2	.....	.....	1	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	106
.....	2	5	.....	3	.....	.....	2	2	1	.....	.....	.....	2	1	1	1	.....	107
.....	2	2	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1	1	.....	.....	.....
.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	107A
.....	2	4	.....	3	.....	.....	2	2	1	.....	.....	.....	1	1	1	1	.....	107C
.....	2	2	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	1	.....	.....	.....
.....	473	141	9	32	3	48	54	51	52	60	41	34	70	92	72	42	42	.....
.....	267	80	6	18	1	28	38	28	27	35	23	18	38	52	38	26	21	.....
.....	206	61	3	14	2	20	16	23	25	25	18	16	32	40	34	16	21	.....
.....	1	1	1	2	.....	.....	1	2	.....	.....	1	.....	.....	.....	.....	.....	1	108
.....	4	.....	.....	1	.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....	.....	2
.....	29	.....	.....	2	.....	5	5	6	5	1	1	1	.....	3	1	2	1	109
.....	19	4	.....	1	.....	5	5	3	2	1	2	.....	2	1	1	1	2	.....
.....	29	.....	.....	2	.....	5	5	6	5	1	1	1	.....	3	1	2	1	109B
.....	19	4	.....	1	.....	5	5	3	2	1	2	.....	2	1	.....	1	2	.....
.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	110
.....	24	20	.....	3	.....	4	5	3	7	4	3	6	.....	7	1	3	4	111
.....	12	9	.....	.....	1	1	3	2	2	4	.....	1	2	2	2	1	2	.....
.....	9	8	.....	2	.....	2	2	.....	4	2	1	2	.....	3	2	1	.....	111A
.....	5	6	.....	1	.....	1	1	1	.....	2	.....	1	1	2	1	.....	.....	.....
.....	15	12	.....	1	.....	2	3	3	3	2	2	4	.....	4	1	1	3	111B
.....	7	3	.....	.....	.....	2	2	1	2	2	.....	.....	1	1	1	.....	.....	.....
.....	3	1	.....	2	.....	.....	.....	2	1	.....	.....	.....	1	1	1	.....	.....	112
.....	4	2	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	1	2	.....	.....	.....

TABLE 40—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											Wid- owed		
			Un- der 15	Single					Married							
				15-24	25-44	45-64	65 and over	Age not stat- ed	15-24	25-44	45-64	65 and over	Age not stat- ed			
113. Diarrhoea and enteritis (under 2 years of age)	M	116	116													
	F	77	77													
114. Diarrhoea and enteritis (2 years or over)...	M	14	5			1					1	4	2			1
	F	10	1					1			2	1	1			4
117. Appendicitis and typhlitis.....	M	59	7	12	5	5					16	12	1			1
	F	34	4	6		1	1			1	6	7	3			5
118. Hernia, intestinal obstruction.....	M	37	7	1	3	1				1	4	8	10			2
	F	32	3		2	3					3	7	5			9
118A. Hernia.....	M	16	1		2						2	6	4			1
	F	9	1								2	1	4			3
118B. Intestinal obstruction	M	21	6	1	1	1				1	2	2	6			1
	F	23	2		2	3					3	6	1			6
119. Other diseases of the intestines.....	M	6	1										4			1
	F	2														2
120. Acute yellow atrophy of the liver.....	M	2			1								1			
	F	2									1					1
122. Cirrhosis of the liver..	M	8		1		2					1	2	1			1
	F	12				1					2	4	2			3
122A. Specified as alcoholic	M	4				2					1	1				
	F	3									1	2				
122B. Not specified as alcoholic.....	M	4		1								1	1			1
	F	9				1					1	2	2			3
123. Biliary calculi.....	M	3						1				1	1			
	F	11									4	3	2			2
124. Other diseases of the liver.....	M	24	1	1	1	1					3	8	6			3
	F	33			2	1	2				3	9	2			14
125. Diseases of the pancreas.....	M	5			1							2	1			1
	F	2									1	1				
126. Peritonitis without specified cause.....	M	9	3	2	1						2	1				
	F	13	6	1						1		2	1			2
CLASS VII.—NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.																
Total.....		445	10	11	19	17	16			5	44	100	82			141
	M	237	5	4	12	8	8			1	18	56	63			62
	F	208	5	7	7	9	8			4	26	44	19			79
128. Acute nephritis (in- cluding unspecified, under 10 years of age)	M	8		2	2						1	3				
	F	6	2	2							1	1				
129. Chronic nephritis (Bright's disease)...	M	125	2	2	7	5	3				12	37	24			33
	F	137	1	3	3	6	6				7	29	17			65
131. Other diseases of the kidneys and annexa.	M	15	3		1	1	1				1	1	4			3
	F	17	2				1			1	2	4	1			6
132. Calculi of the urinary passages.....	M	9			2					1	2	3				1
	F	6										2	1			3
133. Diseases of the bladder	M	7									1		3			3
	F	1														1
134. Diseases of the urethra, urinary abscess, etc.	M	1										1				
	F	1			1											
134A. Stricture of the urethra.....	M	1										1				
134B. Other diseases of the urethra.....	F	1			1											
135. Diseases of the prostate	M	72				2	4					12	32			22
137. Cysts and other benign tumours of the ovary	F	10				1					4	3				2

DITION, NATIVITY, AND MONTH OF DEATH—TORONTO, 1930—Continued

Not stated	NATIVITY				MONTHS													
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.		Dec.
			USA	Other														
116					7	5	2	2	12	5	3	23	30	17	7	3	113	
74	1	1		1	6	1	3	2	7	4	2	8	21	17	3	3		
8	5	1				2			1	1		2	3	4	1		114	
5	5						1	2		1		2	2		1	1		
36	19	1	3		3	9	3	3	9	4	2	4	2	7	6	7	117	
20	12		2		2	3	2	2	2	3	1	2	3	6	5	3		
19	13	1	3	1	5	6	4	3		5	3	2	2	2	3	2	118	
19	9	1	3		4	4	2	4	1	3	3	3	7	1	1	2		
7	8			1	2	2	2	1		3	1	2	1		1	1	118A	
5	2		2		1	1	1		2	1	1		1	1		1		
12	5	1	3		3	4	2	2	2	2	2	2	1	2	2	2	118B	
14	7	1	1		3		3	2	2		2	3	6		1	1		
3	3				2			1	1					1	1		119	
1			1									1				1		
	1		1					1		1							120	
2	3	1				2	1		2		1						122	
4	6	1	1					1	2	3	2	2	1	1	1		122A	
4	2	1			1					1	1	1	1					
1	1		1								1	1		1			122B	
3	1					1	1			1				1				
3	5	1					1	1	2	2	2	1			1		123	
2		1					1	1	1		1	1						
6	3		2			1	2			1	2		1	2		1		
12	10		2			2	3	3	4	1	1	3	2	3	1	1	124	
24	8		1		1	1	4	6	3	1	2	5	2	3	2	3		
3	2								1		1		1		1	1	125	
1	1									1	1							
7	2				2	1	1		2			1				2	126	
10	1		2			1	3		2	1	1	3			1	1		
	228	144	12	58	3	48	28	48	42	38	34	29	32	34	45	30	37	
116	80	6	32	3	26	16	28	20	15	24	21	20	13	19	14	21		
112	64	6	26		22	12	20	22	23	10	8	12	21	26	16	16		
4	1		3		2		1	1				2	1				128	
4	2						3	1	1	1								
59	40	2	24		16	9	16	11	10	7	11	11	5	9	8	12	129	
71	43	4	19		17	10	9	14	13	6	6	6	13	20	11	12		
9	3	1	1	1	2		1		2	3	3	1		2		1	131	
12	4	1			3		1	2	3	1		2	2	2		1		
4	4		1			1	3	1			1		1	1		1	132	
4	1		1			1	1				1	2		1			133	
5	2					1	2					1	2	1				
1															1			
	1									1							134	
											1						134A	
	1																134B	
35	29	3	3	2	6	5	5	7	3	13	6	5	4	6	6	6	135	
4	5		1		1	1		1	2			1	1		2	1	137	

TABLE 40—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid- owed			
			Un- der 15	Single					Married							
				15-24	25-44	45-64	65 and over	Age not stat- ed	15-24	25-44	45-64	65 and over		Age not stat- ed		
138. Salpingitis and pelvic abscess.....	F	7		2							2	3				
139. Benign tumours of the uterus.....	F	13			2	1						7	2		1	
140. Non-puerperal uterine haemorrhage.....	F	1											1			
141. Other diseases of the female genital organs..	F	8			1	1	1			1	1	2			1	
142. Non-puerperal diseases of the breast (cancer excepted).....	F	1										1				
CLASS VIII—THE PUERPERAL STATE.																
Total		98		6	3						14	74			1	
143. Accidents of pregnancy.	F	11									2	9				
143A. Abortion.....	F	1										1				
143B. Ectopic gestation.....	F	9									1	8				
143C. Others under this title..	F	1									1					
144. Puerperal haemorrhage..	F	1											4			
145. Other accidents of labour	F	12			1						2	4				
145A. Caesarean section.....	F	7									2	2				
145B. Difficult labour.....	F	3									1	2				
145C. Difficult labour.....	F	4										4				
145D. Uncontrollable vomiting	F	3									1	2				
145E. Rupture of uterus in labour, etc.....	F	2										2				
146. Puerperal septicaemia...	F	40		5	1						5	28			1	
147. Puerperal phlegmasia alba dolens, puerperal embolism, sudden death in puerperium.....	F	10		1							1	8				
148. Puerperal albuminuria and convulsions.....	F	18			1						2	15				
CLASS IX.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.																
Total		45	9	3		2	2			2	2	9	9		7	
	M	27	5	3			1				2	7	7		2	
	F	18	4			2	1			2		2	2		5	
151. Gangrene.....	M	5					1						3		1	
	F	6				1	1						2		2	
152. Furuncle.....	M	7		1							1	2	2		1	
	F	6	2			1				1		1			1	
153. Acute abscess.....	M	9	2	1							1	4	1			
	F	2	1									1				
154. Other diseases of the skin and annæxa.....	M	6	3	1							1	1	1			
	F	4	1							1					2	
CLASS X.—DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION.																
Total		27	10			1	1				8	2	2		3	
	M	19	8			1	1				6	1	2			
	F	8	2								2	1			3	
155. Diseases of the bones (mastoid and tuberculosis excepted).....	M	14	6				1				6	1				
	F	4	2												2	
156. Diseases of the joints (tuberculosis and rheumatism excepted).....	M	4	2			1							1			
	F	4								2		1			1	
158. Other diseases of the organs of locomotion....	M	1											1			

TABLE 40—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid- owed	
			Un- der 15	Single					Married					
				15-24	25-44	45-64	65 and over	Age not stat- ed	15-24	25-44	45-64	65 and over		Age not stat- ed
CLASS XI.—MALFORMATIONS.														
Total		88	87		1									
	M	46	45		1									
	F	42	42											
159. Congenital malforma- tions (still-births not included).....	M	46	45		1									
	F	42	42											
159A. Congenital hydro- cephalus.....	M	3	3											
	F	5	5											
159B. Congenital malforma- tions of the heart.....	M	19	18		1									
	F	14	14											
159C. Others under this title..	M	24	24											
	F	23	23											
CLASS XII.—DISEASES OF EARLY INFANCY.														
Total	M	466	466											
	M	264	264											
	F	202	202											
160. Congenital debility, icterus and sclerema..	M	29	29											
	F	16	16											
161. Premature birth, injury at birth.....	M	211	211											
	F	150	150											
161A. Premature birth.....	M	167	167											
	F	134	134											
161B. Injury at birth.....	M	44	44											
	F	16	16											
162. Other diseases peculiar to early infancy.....	M	24	24											
	F	36	36											
162A. Specified diseases.....	M	24	24											
	F	36	36											
CLASS XIII.—OLD AGE.														
Total		44					4					15		25
	M	16					1					10		5
	F	28					3					5		20
164. Senility.....	M	16					1					10		5
	F	28					3					5		20
CLASS XIV.—EXTERNAL CAUSES.														
Total		389	63	29	36	18	20	1	6	65	54	40		57
	M	250	36	21	29	13	11	1	3	48	42	31		15
	F	139	27	8	7	5	9		3	17	12	9		42
165-174. Suicides.....	M	64		6	10	5	1	1		21	14	3		3
	F	25		3	4	1			1	8	2	2		4
165. Suicide by solid or liquid poisons (corrosive sub- stances excepted).....	M	4								2	1	1		
	F	5		2	1				1			1		
166. Suicide by corrosive sub- stances.....	M	8		1						5	2			
	F	5								3	1			1

DITION, NATIVITY, AND MONTH OF DEATH—TORONTO, 1930—Continued

Not stated	NATIVITY				Not stated	MONTHS											
	Canada	British	Foreign			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
....	87	1	.....	.....	.....	8	4	8	5	8	11	11	2	10	4	8	9
....	46	1	.....	.....	.....	3	3	3	3	6	7	4	2	2	3	7	3
....	41	1	.....	.....	.....	5	1	5	2	2	7	7	.....	8	1	1	6
....	46	.....	.....	.....	.....	3	3	3	3	6	7	4	2	2	3	7	3
....	41	1	.....	.....	.....	5	1	5	2	2	4	7	.....	8	1	1	6
....	3	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	159
....	5	.....	.....	.....	.....	1	1	2	.....	.....	.....	.....	1	.....	.....	.....	159A
....	19	.....	.....	.....	.....	1	1	1	1	2	2	2	1	1	2	4	1
....	13	1	.....	.....	.....	2	.....	1	2	.....	2	.....	.....	3	1	1	2
....	24	.....	.....	.....	.....	1	2	2	2	4	5	2	1	1	1	1	2
....	23	.....	.....	.....	.....	2	.....	2	.....	2	2	7	.....	4	.....	.....	4
....	463	.....	1	.....	2	38	41	52	54	44	33	51	25	30	32	29	37
....	262	.....	.....	.....	2	25	18	27	30	24	19	31	12	18	21	14	25
....	201	.....	1	.....	.....	13	23	25	24	20	14	20	13	12	11	15	12
....	29	.....	.....	.....	.....	3	4	3	2	3	.....	6	.....	3	3	.....	2
....	15	.....	1	.....	.....	1	2	1	2	4	1	.....	.....	3	1	.....	1
....	209	.....	.....	.....	2	20	14	21	26	17	16	21	12	13	17	14	20
....	150	.....	.....	.....	.....	8	18	19	18	12	11	15	12	8	9	12	8
....	165	.....	.....	.....	2	17	11	17	21	12	14	16	9	10	11	12	17
....	134	.....	.....	.....	.....	8	15	16	17	11	9	14	12	7	8	9	8
....	44	.....	.....	.....	.....	3	3	4	5	5	2	5	3	3	6	2	3
....	16	.....	.....	.....	.....	.....	3	3	1	1	1	.....	1	1	3	.....	161B
....	24	.....	.....	.....	.....	2	.....	3	2	4	3	4	.....	2	1	.....	3
....	36	.....	.....	.....	.....	4	3	5	4	4	2	5	1	1	1	3	3
....	24	.....	.....	.....	.....	2	.....	3	2	4	3	4	.....	2	1	.....	3
....	36	.....	.....	.....	.....	4	3	5	4	4	2	5	1	1	1	3	3
....	20	23	1	.....	.....	3	1	6	1	7	1	4	7	.....	3	5	6
....	8	8	.....	.....	.....	2	.....	1	1	3	.....	2	4	.....	1	1	1
....	12	15	1	.....	.....	1	1	5	.....	4	1	2	3	.....	2	4	5
....	8	8	.....	.....	.....	2	.....	1	1	3	.....	2	4	.....	1	1	1
....	12	15	1	.....	.....	1	1	5	.....	4	1	2	3	.....	2	4	5
....	235	103	3	36	12	30	21	39	36	38	27	27	28	33	34	32	44
....	148	64	3	25	10	20	12	28	18	30	22	15	18	22	21	17	27
....	87	39	.....	11	2	10	9	11	18	8	5	12	10	11	13	15	17
....	37	13	1	8	5	5	2	9	8	7	4	2	8	7	6	4	2
....	14	10	.....	1	.....	1	.....	2	2	1	2	3	5	2	2	1	4
....	3	.....	.....	1	.....	1	.....	.....	2	.....	.....	.....	.....	.....	.....	1	.....
....	3	2	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	2
....	3	3	.....	2	.....	1	.....	.....	.....	.....	.....	.....	1	4	2	.....	166
....	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2	.....	.....	.....	1

TABLE 40—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											Wid- owed		
			Under 15	Single					Married							
				15-24	25-44	45-64	65 and over	Age not stat- ed	15-24	25-44	45-64	65 and over	Age not stat- ed			
167. Suicide by poisonous gas	M	17		2	3	3					5	2				2
	F	7			2						3					2
168. Suicide by hanging or strangulation	M	8		1	3	1					3					
	F	3									1	1				1
169. Suicide by drowning	M	10		1	2			1	1		2	3				
170. Suicide by firearms	M	9			1	1					2	3	1			1
	F	1									1					
171. Suicide by cutting or piercing instruments	M	2			1						1					
	F	1			1											
172. Suicide by jumping from high places	M	6		1							1	3	1			
	F	2		1		1										
174. Other suicides	M	1														
	F	1											1			
175. Poisoning by food	M	1										1				
	F	1								1						
177. Other acute accidental poisonings (gas excepted)	M	4	2		1										1	
	F	5	3		1										1	
178. Conflagration	M	1		1												
179. Accidental burns and scalds (conflagration excepted)	M	9	5								2	1	1			
	F	13	10					1								2
180. Accidental mechanical suffocation	F	2	2													
180B. Asphyxia	F	2	2													
181. Accidental absorption of irrespirable or poisonous gas	M	12		2				1			2	4	2			1
	F	4		1	1						1					1
182. Accidental drowning	M	13	5	4	1					1		2				
183. Accidental traumatism by firearms	M	3		1	1						1					
	F	1		1												
184. Accidental traumatism by cutting or piercing instruments	M	1			1											
185. Accidental traumatism by fall	M	38		3	3	3		5		1	2	5	9			7
	F	49						6			2	6	5			30
186. Accidental traumatism in mines and quarries	M	1									1					
186B. Other mines	M	1									1					
187. Accidental traumatism by machines	M	6		1							3	1	1			
188. Accidental traumatism by other crushing (vehicles, railways, landslides, etc.)	M	71	16	2	7	4		3		1	10	12	12			4
	F	26	7	1	1	3		2			4	3	1			4
188A. Railroad accidents	M	12	1	1	1			1			4	3				1
188B. Street car accidents	M	6						1			1		2			1
	F	3						1								2
188C. Automobile accidents	M	46	14	1	5	3		1		1	3	8	8			2
	F	21	6		1	3		1			4	3	1			2
188D. Aeroplane and balloon accidents	M	1									1					
188E. Injuries by other vehicles	M	1	1													
	F	2	1		1											
188F. Other crushing	M	5			1						1	1	2			
189. Injuries by animals (poisoning excepted)	F	1	1													
192. Starvation (deprivation of food or water)	F	1				1							1			
194. Excessive heat	M	2														
	F	1														
196. Other accidental electric shocks	M	3			1						2					
197-199. Homicides	M	8	3	1			1	1			2					
	F	7	2	2						1	1					1
197. Homicide by firearms	M	2									2					
	F	2								1						1

DITION, NATIVITY, AND MONTH OF DEATH—TORONTO, 1930—Continued

Not stat- ed	NATIVITY					MONTHS											
	Cana- da	Brit- ish	Foreign		Not stat- ed	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
9	4	1	1	2	2		1	1	3	2		3	2	1	2		167
6	1				1		1	1					2	1		1	
5	1		1	1	1		4					2		1			168
5	3			2			1	1	3	1	2			1	1	1	169
6	3						1	1	2	1			1	1	2		170
1	1							2						1			
4	2						1		2		1		1				172
1	1							1		1						1	174
1	1						1										175
3	1					1	1		1					1			177
4	1					1	1									2	178
			1				1										
6	3					1		2			1	1				2	2179
11	1			1		1		2	2	1		1	1	1	1	3	3
2									1				1				180
2									1					1			180B
9	3					2		1		4	1			1	1	1	181
3	1					1			1	1					1	1	1
9	3			1					1	3	3		1	3	1	1	182
2				1		1	1				1						183
1														1			
				1			1										184
20	17		1			2		5	5	2	3	5	4		4	1	7185
24	19		6			3	6	3	4	3	3	5		3	6	9	4
				1				1									186
				1				1									186B
1	2			3				2		1	1				1	1	187
42	21	1		6	1	5	5	4	2	9	3	6	5	10	6	4	12188
19	5			2		1	2	2	5			3	2	3	4	2	2
8	3			1		1	2	2	1	1				1	2	1	188A
1	3			1	1					1		1	1	1	1	1	188B
2	1					1			1			1					
29	13	1		3		2	3	1		7	3	5	3	6	3	2	11188C
15	4			2			1	2	3			2	2	3	4	2	2
															1		188D
1						1											188E
2							1		1								188F
3	1			1		1		1	1						1	1	
1																	189
1																	192
1				1						1		1					194
1													1				
3										1	1						196
4				1	3	2	1	1	1	1	2						197-
3	1			1	2	1		1	1	3	1			1			199
1				1				1									197
1	1								1					1			

DITION, NATIVITY, AND MONTH OF DEATH—TORONTO, 1930—Continued

Not stat- ed	NATIVITY					MONTHS												
	Can- ada	Brit- ish	Foreign		Not stat- ed	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	198
.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	.....	.....	3	2	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	199
.....	1	.....	.....	1	2	1	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	201
.....	8	1	.....	1	1	.....	.....	1	1	1	2	.....	.....	.....	2	3	1	202
.....	2	1	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....
.....	3	2	.....	.....	.....	.....	2	1	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	3	.....	.....	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	204
.....	3	.....	.....	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	205
.....	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	3	.....	.....	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	205c
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....

TABLE 41—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION											
			Under 15	Single					Married					Widowed
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated	
CLASS 11.—GENERAL DISEASES NOT INCLUDED IN CLASS I.														
Total.....		243	7	3	2	17	7			35	69	47		55
	M	96	3	3		5	3			16	29	23		14
	F	147	4	2		12	4			19	40	24		41
43-49. Cancer.....	M	70		1		3	3			9	23	19		12
	F	98			2	9	4			14	27	16		25
43. Cancer of the buccal cavity	M	2									1			1
44. Cancer of the stomach and liver.	M	32				2	2			2	9	8		9
	F	30				1	2			2	6	5		14
45. Cancer of the peritoneum, intestines and rectum...	M	10					1			3	3	2		1
	F	17				2				3	5	3		4
46. Cancer of the female genital organs.....	F	23				3	2			5	9	2		2
47. Cancer of the breast.....	F	11			2					2	3	2		1
48. Cancer of the skin.....	M	1										1		
	F	1												1
49. Cancer of other or unspecified organs.....	M	25		1		1				4	10	8		1
	F	16				3				2	4	4		3
49A. Cancer of the eye and ear	M	1												1
49B. Cancer of circulatory system.....	M	2								1	1			
	F	4				1				1	1	1		
49C. Cancer of respiratory system.....	M	2									1	1		
	F	3				2						1		
49D. Cancer of digestive system.....	M	2		1										
	F	1												1
49E. Cancer of genito-urinary organs.....	M	10				1				1	3	5		
	F	1												1
49F. Cancer of bones and joints	M	2									2			
49G. Cancer of other specified organs.....	M	5								1	2	2		
	F	6									3	2		1
49H. Generalized cancer.....	M	1									1			
49I. Unspecified.....	F	1												
50. Benign tumours and tumours not returned as malignant (tumours of female genital organs excepted).....	M	1									1			
	F	3								1	2			
51. Acute rheumatic fever.....	M	1				1								
	F	2		1										1
52. Chronic rheumatism, osteo-arthritis, gout.....	M	1										1		
	F	2												2
56. Rickets.....	F	1	1											
57. Diabetes mellitus.....	M	7		1							3	2		1
	F	18								1	6	4		7
53. Anaemia, chlorosis.....	M	3									2	1		
	F	7				1				1	2	1		2
58A. Pernicious anaemia.....	M	3									2	1		
	F	6				1					2	1		2
58B. Other anaemias and chlorosis.....	F	1									1			
60. Diseases of the thyroid gland.....	M	3		1							1	1		
	F	10				1				1	3	2		3
60A. Exophthalmic goiter.....	M	3		1							1	1		
	F	6				1				1	1			3
60B. Other diseases of the thyroid gland.....	F	4									2	2		
61. Diseases of the parathyroid glands.....	M	1	1											
62. Diseases of the thymus.....	M	1	1											
	F	1	1											
63. Diseases of the adrenals (Addison's disease).....	M	1									1			

TABLE 41—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid-owed			
			Under 15	Single					Married							
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated		
65. Leukaemia, lymphadenoma	M	4									3					1
	F	3	1			1								1		
65A. Leukaemia	M	3	1			1								1		
65B. Lymphadenoma (Hodgkin's disease)	F	1														1
66. Alcoholism	M	4				1					3					1
	F	1														
66B. Acute alcoholism	M	1														1
66C. Chronic alcoholism	F	1														1
69. Other general diseases	M	1				1										
	F	1	1								1					
69C. Purpura haemorrhagica	M	1														
	F	1									1					
69D. Others under this title	M	1	1													
	F	1									1					
CLASS III.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.																
Total		110	14	3	2	5	6			4	22	18				36
	M	58	10	2		5	3			2	12	13				11
	F	52	4	1	2		3			2	10	5				25
70. Encephalitis	F	3			1					1	1					
70A. Abscess of brain	F	1								1						
70B. Encephalitis	F	2			1						1					
71. Meningitis	M	10	9	1							1					
71A. Simple meningitis	M	10	9	1												
72. Tabes dorsalis (locomotor ataxia)	M	1													1	
73. Other diseases of the spinal cord	M	3				1					1	1				
	F	2			1											1
74. Cerebral haemorrhage, apoplexy	M	34		1		3	2			1	9	8				10
	F	34		1			2			1	7	4				19
74A. Apoplexy	M	9					1				1	4				3
	F	6					1									5
74B. Cerebral haemorrhage	M	25		1		3	1			1	8	4				7
	F	28		1			1			1	7	4				14
75. Paralysis without specified cause	M	2					1								1	
	F	1														1
75A. Hemiplegia	M	2					1								1	
	F	1														1
77. Other forms of mental alienation	F	1														
78. Epilepsy	F	2									1	1				
79. Convulsions (non-epileptic, 5 years or over)	M	1													1	
80. Infantile convulsions (under 5 years of age)	M	1	1													
	F	3	3													
84. Other diseases of the nervous system	M	5				1					2	1				1
	F	6	1				1				1					3
86. Diseases of the ear and of the mastoid process	M	1									1					
86A. Diseases of the ear	M	1									1					
CLASS IV.—DISEASES OF THE CIRCULATORY SYSTEM.																
Total		354	3	7	2	14	22			2	22	80	74			128
	M	163	1	5	2	6	8			12	42	46				41
	F	191	2	2		8	14			2	10	38	28			87
87-99. Diseases of the heart	M	103	1	5	1	4	5			9	25	27				26
	F	115	2	2		2	8			2	7	27	15			50
88. Endocarditis and myocarditis (acute)	F	3		1							1	1				
88A. Acute endocarditis	F	2		1							1					

DITION, NATIVITY, AND MONTH OF DEATH—HAMILTON, 1930—Continued

Not stated	NATIVITY					MONTHS											
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
			2		2					1	1		1		1		65
	3								1		1				1		65A
	3								1		1				1		65B
	1		2		2					1	1		1		1		66
	1										1						66B
	1										1						66C
	1								1						1		69
	2								1								69C
	1		1			1				1						1	69D
	1														1		
	1					1											
			1														
	53	44	3	10		3	9	12	13	15	8	7	5	9	9	9	11
	26	23	2	7		2	3	8	7	10	3	3	2	5	5	4	6
	27	21	1	3		1	6	4	6	5	5	4	3	4	4	5	5
	1	2						1				1				1	70
	1	1						1				1					70A
	1	1						1								1	70B
	9	1					1	1	1	2	2			1		1	71
	9	1					1	1	1	2	2			1		1	71A
															1		72
		2		1				1									73
	2											1					1
	12	15	2	5		2	2	4	5	6	1	1	1	3	4	1	4
	15	16	1	2		1	2	2	4	5	3	2	3	3	4	1	4
	4	3	1	1		2	1			3			1	1		1	74A
	3	2		1		1	1	1	1					1			1
	8	12	1	4		1	1	2	5	3	1	1		2	4	1	3
	12	14	1	1		1	2	3	4	3	2	3	2	2	4		4
	1	1						1				1					75
	1															1	
	1	1						1				1					75A
	1															1	
	1			1										1			77
	1						2										78
	1																79
				1						1							80
	3								2							1	
	3	2						1		1		1	1				84
	3	3	3				2	1			2					1	
			1						1								86
		1							1								86A
	190	132	13	18	1	33	33	32	40	32	30	22	29	20	27	32	24
	90	59	5	9		11	12	18	26	16	12	12	13	7	12	15	9
	100	73	8	9	1	22	21	14	14	16	18	10	16	13	15	17	15
	54	41	3	5		7	8	13	22	12	7	5	6	4	6	8	5
	52	49	5	9		18	12	11	8	11	10	5	8	9	8	8	7
																	87-90
	1	2				1					1					1	88
		2				1					1						88A

TABLE 41—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid-owed			
			Under 15	Single				Married								
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated		
88B. Acute myocarditis.....	F	1											1			
89. Angina pectoris.....	M	13			1		2					1	5	2		2
	F	5					1						1	1		
90. Other diseases of the heart	M	90	1	5		4	3					8	20	25		24
	F	107	2	1		2	7			2		6	25	14		48
90A. Valvular disease.....	M	14		3			1					1	3	6		2
	F	12				1	1			1		3	1	3		
90C. Aortic insufficiency.....	M	13		1								1	4	1		
90D. Chronic endocarditis.....	M	13		1		1						4	4	1		
	F	11	2	1		1						1	6			2
90E. Chronic myocarditis.....	M	57		1		3	2				2	13	17			20
	F	68					3				2	14	10			39
90F. Others under this title.....	M	5	1	1								4	1			2
	F	16					3			1		1	4	1		7
91. Diseases of the arteries.....	M	49				2					1	12	18			14
	F	74				6	6				2	11	13			36
91B. Arterio-sclerosis.....	M	48				2	2				1	12	17			14
	F	74				6	6				2	11	13			36
91C. Other diseases of the arteries.....	M	1												1		
92. Embolism and thrombosis (not cerebral).....	M	9			1		1				2	3	1			1
	F	2									1					1
93. Diseases of the veins (varices, haemorrhoids, phlebitis, etc.).....	M	1											1			
96. Other diseases of the circulatory system.....	M	1											1			
CLASS V.—DISEASES OF THE RESPIRATORY SYSTEM.																
Total.....		153	54	4	5	1	6				18	24	13			28
	M	83	33	2	4	1	2				11	15	9			6
	F	70	21	2	1		4				7	9	4			22
97. Diseases of the nasal fossae and their annexa.....	M	1			1											
98. Diseases of the larynx.....	M	1	1													
98A. Laryngismus stridulus.....	M	1	1													
99. Bronchitis.....	M	1												1		
	F	2														2
99A. Bronchitis, acute.....	F	1														1
99B. Bronchitis, chronic.....	M	1												1		
	F	1														1
100. Broncho-pneumonia (including capillary bronchitis).....	M	31	21								1	3	2			4
	F	19	13		1		2									3
100A. Broncho-pneumonia.....	M	31	21								1	3	2			4
	F	19	13		1		2									3
101. Pneumonia.....	M	41	8	2	3	1	2				9	10	4			2
	F	42	7	2			2				5	8	3			15
101A. Pneumonia, lobar.....	M	30	4	1	3	1	1				9	6	3			2
	F	29	4	2			1				5	7	2			8
101B. Pneumonia, not otherwise defined.....	M	11	4	1			1					4	1			
	F	13	3				1					1	1			7
102. Pleurisy.....	M	2	1								1					
	F	2									1	1				
103. Congestion and haemorrhagic infarct of the lung	M	4	2										2			
105. Asthma.....	M	1										1				
	F	1														1
107. Other diseases of the respiratory system (tuberculosis excepted).....	M	1										1				
	F	4	1								1		1			1
107A. Chronic interstitial pneumonia including occupational diseases of the lungs.....	F	1									1					
107C. Others under this title.....	M	1										1				
	F	3	1										1			1

DITION, NATIVITY, AND MONTH OF DEATH—HAMILTON, 1930—Continued

Not stat- ed	NATIVITY				Not stat- ed	MONTHS											
	Can- ada	Brit- ish	Foreign			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
1																1	88D
9	4					2		1	2	3		1	2			1	189
2	3									1						2	1
45	37	3	5		7	6	12	20		9	7	4	4	6	7	4	90
49	44	5	9		17	12	10	8	10	9	5	8	9	8	5	6	90A
7	7				2	1	1	1		1	3		1	2	1	1	90B
6	5		1				2			1	1			3	2	1	90C
1																	90D
5	4	1	3		1	1	2	1	1	1					2	1	90E
6	3	2			1	1	2	1		1	1	2	2				90F
6	4																
27	26	2	2		4	4	5	16	8	3	1	3	3	4	4	2	
28	30	3	7		11	9	5	6	7	5	2	4	4	6	3	6	
5							1	1	1	2	2	1					90F
9	6				3	2	1	1	1	2	2	2	2		1		
32	14	1	2		4	3	5	4	2	4	6	5	1	6	5	4	91
46	24	3		1	4	8	3	6	5	8	5	8	4	7	9	7	
32	14	1	1		4	3	5	4	2	4	6	5	1	5	5	4	91B
46	24	3		1	4	8	3	6	5	8	5	8	4	7	9	7	
			1												1		91C
	3	3	1	2		1			2	1		1	2		2		92
	2					1										1	
	1											1					93
		1											1				95
97	45	2	9		14	18	22	19	12	16	7	7	4	7	11	16	
56	20	2	5		4	11	14	14	7	7	2	3	1	4	7	9	
41	25		4		10	7	8	5	5	9	5	4	3	3	4	7	
			1						1								97
1						1											98
1						1											98A
1													1				99
1	1				1		1										99A
1	1											1					99B
1					1												
25	5	1			1	3	6	5	3	2		2	1		3	5	100
16	3				5	2	2	2	2	2		2	1	1	1	2	
25	5	1			1	3	6	5	3	2		2	1	1	3	5	100A
16	3				5	2	2	2	2	2		2	1	1	1	2	
24	12	1	4		3	6	7	6	3	5	1			3	3	4	101
20	18		4		4	5	4	4	3	7	3	2	1	2	3	4	
17	9	1	3		2	4	5	4	3	3	1			2	3	3	101A
15	12		2		2	4	3	3	2	5		2	1	1	3	3	
	7	3			1	2	2	2	2	2					1		101B
5	6		2		2	1	1	1	1	2	3			1		1	
2						1											102
												1	1				
	3	1						1	1						1	1	103
		1						1									105
		1						1									
		1															
	2	2							1			1					107
		1							1								107A
		1										1					107C
	2	1										2				1	

TABLE 41—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid-owed		
			Under 15	Single					Married						
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated	
CLASS VI.—DISEASES OF THE DIGESTIVE SYSTEM.															
Total		123	38	8	6	5	2	.....	1	12	23	8	1	20
	M	69	22	7	3	2	.....	.....	.....	10	10	5	.....	10
	F	54	16	1	3	3	2	.....	1	2	13	3	.....	10
108. Diseases of the mouth and annexa.....	M	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
109. Diseases of the pharynx and tonsils (including adenoid vegetations)...	M	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
109B. Pharynx and tonsils...	M	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
111. Ulcer of the stomach and duodenum.....	M	8	.....	.....	1	.....	.....	.....	.....	3	1	.....	.....	3
	F	3	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
111A. Ulcer of the stomach...	M	4	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	2
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
111B. Ulcer of the duodenum.	M	4	.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	1
	F	2	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
112. Other diseases of the stomach (cancer accepted).....	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
113. Diarrhoea and enteritis (under 2 years of age).	M	17	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	9	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
114. Diarrhoea and enteritis (2 years or over).....	M	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
	F	4	2	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....
117. Appendicitis and typhilitis.....	M	18	1	5	1	.....	.....	.....	.....	3	6	1	.....	1
	F	8	5	1	.....	.....	.....	.....	.....	1	1	.....	.....	.....
118. Hernia, intestinal obstruction.....	M	10	1	1	1	.....	.....	.....	.....	.....	1	2	.....	3
	F	11	.....	.....	.....	1	1	.....	.....	.....	5	.....	.....	4
118A. Hernia.....	M	5	1	.....	1	.....	.....	.....	.....	.....	.....	1	.....	2
	F	4	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	1
118B. Intestinal obstruction...	M	5	.....	1	.....	1	.....	.....	.....	.....	1	1	.....	1
	F	7	.....	.....	.....	1	1	.....	.....	.....	2	.....	.....	3
119. Other diseases of the intestines.....	M	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
122. Cirrhosis of the liver...	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	F	3	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1
122B. Not specified as alcoholic.....	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	F	3	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1
123. Biliary calculi.....	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
	F	4	.....	.....	1	.....	.....	.....	.....	.....	2	.....	.....	1
124. Other diseases of the liver	M	6	.....	1	1	.....	.....	.....	.....	1	2	1	.....	.....
	F	7	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	3
125. Diseases of the pancreas	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
126. Peritonitis without specified cause.....	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	F	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
CLASS VII.—NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.															
Total		110	6	.....	3	5	2	.....	.....	9	21	30	.....	34
	M	62	5	.....	3	2	1	.....	.....	3	9	22	.....	17
	F	48	1	.....	.....	3	1	.....	.....	6	12	8	.....	17
128. Acute nephritis (including unspecified, under 10 years of age).....	M	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	2	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
129. Chronic nephritis (Bright's disease).....	M	37	3	.....	3	1	1	.....	.....	1	7	12	.....	9
	F	32	1	.....	.....	2	1	.....	.....	1	8	6	.....	13
131. Other diseases of the kidneys and annexa...	M	4	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2
	F	5	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	3

DITION, NATIVITY, AND MONTH OF DEATH—HAMILTON, 1930—Continued

Not stated	NATIVITY				MONTHS													
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.		Dec.
			USA	Other														
	12			1		1	1		3	2		1	3	1			1	
	7			1			1		1	1		1	2	1			1	
	5					1			2	1			1					
	7			1			1		1	1		1	2	1			1	159
	5					1			2	1			1					
	1								1									159A
	2			1					1			1		1				159B
	5						1			1			2				1	159C
	4					1			1	1			1					
	84					4	7	7	6	12	8	4	5	9	9	6	7	
	49					3	2	3	5	8	4	1	3	6	6	4	4	
	35					1	5	4	1	4	4	3	2	3	3	2	3	
	9						1	1		1				2	2	2		160
	5						1			1	1	1					1	
	36					3	1	2	4	6	3	1	3	4	4	2	3	161
	26					1	3	3	1	3	3	1	1	3	3	2	2	
	29					3	1	1	4	5	2	1	2	3	4	1	2	161A
	25					1	3	3	1	3	3	1	1	3	2	2	2	
	7					1		1	1	1	1		1	1		1	1	161B
	1														1			
	4								1	1	1							162
	3								1			1	1					162A
	4								1	1	1							
	3							1				1	1					
	1						1											163
	4	5	1	1		1	1	1		3			1	1	2	1		
	2									1					1			
	4	3	1	1		1	1	1		2			1	1	1	1		
	2									1					1			164
	4	3	1	1		1	1	1		2			1	1	1	1		
	79	40	5	16	2	9	10	8	12	8	18	17	20	10	13	7	10	
	49	33	4	15	2	5	9	6	10	4	13	12	15	6	11	6	6	
	30	7	1	1	1	4	1	2	2	4	5	5	5	4	2	1	4	
	5	7		3	1	1	1	2	2		1	1	4		1	2	1	165-
	3	3									3	1				1	1	174
		1											1					165
		2					1	1					1					166
	1	3										3	1					167
	1																	168
		2							2		1	1						169
		1							1				1					

DITION, NATIVITY, AND MONTH OF DEATH—OTTAWA, 1930

Not stated	NATIVITY					MONTHS											
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
.....	1,449	189	35	64	10	145	160	171	163	147	103	144	124	159	155	129	147
.....	762 687	100 89	20 15	44 20	6 4	79 66	76 84	89 82	85 78	89 58	50 53	76 68	69 55	91 68	82 73	69 60	77 70
.....	161	19	4	7	.....	20	23	18	15	23	13	10	16	14	17	9	13
.....	67 94	9 10	3 1	4 3	.....	10 10	6 17	9 9	7 8	12 11	3 10	2 8	9 7	6 8	9 8	3 6	7 6
.....	3	.....	.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	1	1
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	3	.....	.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	1	1A
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	4
.....	4	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	1	.....	7
.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
.....	3	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	13	.....	.....	.....	.....	3	1	2	1	.....	1	.....	2	.....	1	.....	2
.....	14	.....	.....	.....	.....	1	3	1	1	2	2	.....	.....	1	1	1	1
.....	4	2	1	.....	.....	1	.....	1	3	.....	.....	.....	.....	.....	1	.....	1
.....	6	1	.....	1	.....	.....	1	2	1	2	1	1	.....	.....	.....	.....	.....
.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	11A
.....	2	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
.....	3	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....
.....	2	2	1	.....	.....	1	.....	1	1	.....	.....	.....	.....	.....	1	.....	1
.....	2	1	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	4	1	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	1	.....	.....	1	.....
.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
.....	4	.....	.....	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	.....	.....	.....
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	1	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	24	5	1	3	.....	4	2	3	2	6	2	1	5	2	4	1	1
.....	46	7	.....	2	.....	6	9	4	4	6	5	3	4	4	4	4	2
.....	21	4	1	3	.....	4	1	3	2	5	1	1	4	2	4	1	1
.....	37	6	.....	1	.....	5	7	3	3	4	3	1	4	4	4	4	2
.....	.....	1	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....
.....	2	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	5	.....	.....	.....	.....	1	.....	1	.....	2	1	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
.....	5	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	1	.....	2	.....	.....
.....	6	.....	.....	.....	.....	.....	.....	.....	1	.....	1	1	1	1	1	.....	.....

TABLE 42—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION												
			Under 15	Single					Married					Widowed	
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated		
40. Gonococcus infection	F	3	3												
41. Purulent infection, septicaemia	M	1									1				
	F	4	3									1			
CLASS II—GENERAL DISEASES NOT INCLUDED IN CLASS I.															
Total		243	15	4	6	19	22				17	64	42		54
	M	113	9	1	2	7	9				8	28	32		17
	F	130	6	3	4	12	13				9	36	10		37
43-49. Cancer	M	70		1	1	4	7				5	20	20		12
	F	88			3	10	8				4	27	7		29
43. Cancer of the buccal cavity	M	4				2						1			1
	F	3					2								1
44. Cancer of the stomach and liver	M	29		1	1	1	5					9	9		3
	F	26				3	3					7	1		12
45. Cancer of the peritoneum, intestines and rectum	M	15				1					2	3	5		4
	F	17			1	2	2					3	3		6
46. Cancer of the female genital organs	F	16			1		1				1	9			4
47. Cancer of the breast	F	17				3					3	6	1		4
48. Cancer of the skin	M	2											1		1
	F	3										1	1		1
49. Cancer of other or unspecified organs	M	20					2				3	7	5		3
	F	6			1	2						1	1		1
49B. Cancer of circulatory system	M	2					1					1			
	F	1											1		
49C. Cancer of respiratory system	M	3										2	1		
49D. Cancer of digestive system	M	2									1		1		
	F	1				1									
49E. Cancer of genito-urinary organs	M	11					1				1	4	3		2
49G. Cancer of other specified system	M	2										1			1
	F	4			1	1						1			1
50. Benign tumours and tumours not returned as malignant (tumours of female genital organs excepted)	M	4			1							2	1		
51. Acute rheumatic fever	M	3		1											1
	F	2				1						1			
52. Chronic rheumatism, osteo-arthritis, gout	M	2											2		
56. Rickets	M	3		3											
	F	2		2											
57. Diabetes mellitus	M	11					1					2	4		3
	F	9					1				1	2			3
58. Anaemia, chlorosis	M	3		2								1			1
	F	3					1					1			1
58A. Pernicious anaemia	M	12					4				2	2	1		3
	F	3					1					1			1
58B. Other anaemias and chlorosis	M	10					4				2	1	1		2
	F	2										1			1
60. Diseases of the thyroid gland	F	7		1	1							3			2
60A. Exophthalmic goitre	F	6			1							3			2
60B. Other diseases of the thyroid gland	F	1		1											
62. Diseases of the thymus	M	4		4											
	F	3		3											
63. Diseases of the adrenals (Addison's disease)	M	1											1		
	F	1									1				
65. Leukaemia, lymphadenoma	M	8		1							3	1	3		
	F	3					1				1	1			

DITION, NATIVITY, AND MONTH OF DEATH—OTTAWA, 1930—Continued

Not stated	NATIVITY					MONTHS											
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
.....	3	.....	.....	.....	.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	3	.....	1	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	1	41
.....	189	37	5	10	2	10	13	17	24	20	16	21	25	27	28	17	25
.....	84	18	2	7	2	4	6	10	11	9	8	9	14	14	13	6	9
.....	105	19	3	3	.....	6	7	7	13	11	8	12	11	13	15	11	16
.....	54	10	.....	6	.....	4	3	5	4	6	4	7	9	10	6	5	7
.....	70	13	2	3	.....	6	5	6	7	10	5	5	8	10	9	6	11
.....	3	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	2	1	.....	.....	43
.....	2	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
.....	22	5	.....	2	.....	2	3	1	2	2	1	3	3	4	4	2	2
.....	20	2	2	2	.....	2	1	2	2	6	2	.....	1	2	4	1	4
.....	10	3	.....	2	.....	.....	2	2	2	2	1	2	1	1	.....	2	2
.....	14	3	.....	.....	.....	1	3	1	2	1	3	1	2	1	2	.....	45
.....	15	1	.....	.....	.....	2	.....	.....	.....	2	1	1	3	2	.....	2	3
.....	15	2	.....	.....	.....	2	2	2	3	.....	1	1	1	3	3	1	47
.....	2	.....	.....	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	48
.....	2	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
.....	17	.....	.....	1	.....	2	.....	1	.....	2	2	1	3	4	2	1	2
.....	4	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	2	1	1	.....	49
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	49B
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	49C
.....	3	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	49C
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	49D
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49D
.....	10	.....	.....	1	.....	1	.....	1	.....	2	1	.....	2	2	1	.....	49E
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	49G
.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	49G
.....	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2	.....	.....	50
.....	2	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	1	.....	1	.....	51
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	52
.....	2	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	.....	56
.....	2	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....
.....	8	2	.....	1	.....	.....	.....	2	3	.....	2	.....	1	.....	1	1	57
.....	7	2	.....	.....	.....	1	.....	1	2	.....	2	.....	.....	2	.....	1	.....
.....	2	.....	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	58
.....	10	2	.....	.....	.....	.....	.....	1	.....	1	1	3	2	1	1	1	2
.....	2	.....	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	58A
.....	8	2	.....	.....	.....	.....	.....	.....	1	.....	1	3	2	1	1	.....	1
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	58B
.....	7	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	3	1	.....	.....	1	60
.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1	.....	.....	1	60A
.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	60B
.....	4	.....	.....	.....	.....	1	.....	.....	1	1	.....	1	.....	.....	.....	.....	62
.....	3	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	63
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	3	4	1	.....	.....	.....	.....	2	2	.....	1	.....	1	1	1	.....	65
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	1

DITION, NATIVITY, AND MONTH OF DEATH—OTTAWA, 1930—Continued

Not stat- ed	NATIVITY				MONTHS														
	Can- ada	Brit- ish	Foreign		Not stat- ed	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.		Dec.	
			USA	Other															
.....	2	1	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	1	.....	.....	65A
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
.....	1	3	1	.....	.....	.....	.....	2	1	.....	.....	.....	.....	1	1	.....	.....	.....	65B
.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	66
.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	66B
.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	66B
.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....	.....	.....	69
.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	69
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	69A
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	69C
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	69D
.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....
.....	96	12	2	5	.....	10	11	10	8	12	7	17	7	11	5	9	8	.....	.....
.....	50	6	2	4	.....	5	7	7	3	9	2	8	2	7	3	5	4	.....	.....
.....	46	6	.....	1	.....	5	4	3	5	3	5	9	5	4	2	4	4	.....	.....
.....	4	.....	.....	.....	.....	.....	1	.....	1	.....	.....	2	.....	.....	.....	.....	.....	.....	70
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	70A
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	70B
.....	3	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	7	.....	.....	.....	.....	.....	3	.....	.....	.....	2	.....	.....	1	.....	1	.....	.....	71
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
.....	7	.....	.....	.....	.....	.....	3	.....	.....	.....	2	.....	.....	1	.....	.....	.....	.....	71A
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
.....	1	1	.....	1	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	72
.....	3	.....	1	1	.....	.....	.....	.....	1	3	.....	.....	.....	.....	.....	.....	1	.....	73
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....
.....	13	5	1	2	.....	1	2	2	.....	1	2	5	1	2	1	2	2	.....	74
.....	23	3	.....	1	.....	3	3	2	2	3	2	4	3	1	2	.....	.....	.....	74
.....	4	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	74A
.....	5	.....	1	.....	.....	2	1	.....	.....	.....	.....	2	.....	1	2	.....	.....	.....	74A
.....	8	4	1	2	.....	1	1	.....	.....	1	2	5	1	1	1	.....	.....	.....	74B
.....	17	1	.....	.....	.....	1	2	2	2	3	2	2	3	.....	.....	.....	.....	.....	74B
.....	1	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	74C
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	4	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	75
.....	9	.....	.....	.....	.....	.....	.....	1	2	.....	.....	2	2	1	.....	.....	1	.....	.....
.....	3	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75A
.....	5	.....	.....	.....	.....	.....	.....	1	2	.....	.....	1	1	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75B
.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	76
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	78
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	80
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	2	.....	.....	.....	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	84
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	85
.....	11	.....	.....	.....	.....	2	.....	3	1	.....	.....	.....	1	2	.....	.....	.....	.....	86
.....	6	.....	.....	.....	.....	1	1	.....	.....	.....	1	1	.....	.....	.....	.....	2	.....	.....
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	86A
.....	3	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	10	.....	.....	.....	.....	1	.....	3	1	.....	.....	.....	1	2	.....	.....	.....	.....	86B
.....	3	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....

TABLE 42—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid- owed	
			Under 15	Single					Married					
				15-24	25-44	45-64	65 and over	Age not stat- ed	15-24	25-44	45-64	65 and over		Age not stat- ed
CLASS IV.—DISEASES OF THE CIRCULATORY SYSTEM.														
Total		369	2	5	6	14	31	.....	9	68	87	.....	147
	M	192	2	1	5	9	13	.....	5	51	62	.....	44
	F	177	.....	4	1	5	18	.....	4	17	25	.....	103
87-90. Diseases of the heart ..	M	133	2	1	5	9	10	.....	4	35	42	.....	25
	F	118	.....	4	1	3	10	.....	3	17	16	.....	64
87. Pericarditis.....	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
88. Endocarditis and myocar- ditis (acute).....	M	3	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....
	F	3	.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....
88A. Acute endocarditis.....	M	3	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....
	F	2	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
88B. Acute myocarditis.....	F	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
89. Angina pectoris.....	M	29	.....	.....	1	3	1	.....	.....	15	6	.....	3
	F	11	.....	.....	.....	.....	1	.....	.....	2	2	.....	6
90. Other diseases of the heart	M	100	1	1	4	5	9	.....	4	20	35	.....	21
	F	79	.....	2	1	3	9	.....	3	15	13	.....	58
90A. Valvular disease.....	M	7	.....	.....	2	.....	.....	.....	.....	1	3	.....	1
	F	5	.....	.....	.....	1	.....	.....	.....	2	.....	.....	2
90C. Aortic insufficiency.....	M	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	5
90D. Chronic endocarditis.....	M	13	.....	1	1	.....	1	.....	.....	2	2	.....	4
	F	14	.....	1	.....	.....	.....	.....	2	4	.....	.....	.....
90E. Chronic myocarditis.....	M	57	1	.....	1	2	8	.....	1	11	23	.....	10
	F	79	.....	1	.....	3	7	.....	1	8	10	.....	49
90F. Others under this title..	M	22	.....	.....	.....	3	.....	.....	1	6	7	.....	5
	F	6	.....	.....	.....	.....	1	.....	.....	1	.....	.....	3
91. Diseases of the arteries..	M	52	.....	.....	.....	.....	3	.....	.....	12	19	.....	18
	F	54	.....	.....	.....	2	7	.....	1	.....	9	.....	35
91B. Arterio-sclerosis.....	M	52	.....	.....	.....	.....	3	.....	.....	12	19	.....	18
	F	53	.....	.....	.....	2	7	.....	1	.....	9	.....	34
91C. Other diseases of the arteries.....	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
92. Embolism and thrombosis (not cerebral).....	M	4	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	1
	F	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
93. Diseases of the veins, varices, haemorrhoids, phlebitis, etc.).....	M	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
94. Diseases of the lymphatic system (lymphangitis, etc.).....	F	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
95. Haemorrhage without specified cause.....	F	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	M	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
CLASS V.—DISEASES OF THE RESPIRATORY SYSTEM.														
Total		153	70	3	6	8	2	6	22	18	18
	M	92	39	2	4	3	1	4	17	14	8
	F	61	31	1	2	5	1	2	5	4	10
97. Diseases of the nasal fossae and their annexa.....	M	2	1	1
	F	1	1
98. Diseases of the larynx... 98B. Laryngitis.....	M	3	3
	M	1	1
98D. Other diseases of the larynx.....	M	2	2
99. Bronchitis.....	M	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
	F	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
99A. Bronchitis, acute.....	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
99B. Bronchitis, chronic.....	M	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
99D. Bronchitis, not otherwise defined, 5 years or over	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
100. Broncho-pneumonia (in- cluding capillary bron- chitis).....	M	25	20	.....	.....	1	.....	.....	.....	1	2	.....	1
	F	28	23	.....	.....	.....	2	.....	.....	1	.....	.....	2

TABLE 42—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION												
			Under 15	Single					Married					Widowed	
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated		
100A. Broncho-pneumonia...	M	24	19			1						1	2		1
	F	27	22									1			2
100B. Capillary bronchitis...	M	1	1												
	F	1	1												
101. Pneumonia.....	M	47	12	1		2	3		1	2	15	8			3
	F	25	5	1		2	2		1	1	4	4			5
101A. Pneumonia, lobar.....	M	39	10	1		1	2		1	2	13	6			3
	F	21	2	1		2	2		1	1	3	4			5
101B. Pneumonia, not otherwise defined.....	M	8	2			1	1				2	2			
	F	4	3								1				
102. Pleurisy.....	M	6	3							1			2		
	F	1	1												
103. Congestion and haemorrhagic infarct of the lung	M	3				1									2
	F	1					1								
105. Asthma.....	M	3									1	1			1
	F	1													1
107. Other diseases of the respiratory system (tuberculosis excepted)	M	1	1												
	F	1								1					
107c. Other under this title...	M	1									1				
	F	1													
CLASS VI.—DISEASES OF THE DIGESTIVE SYSTEM.															
Total.....		213	109	11	3	6			1	21	37	10			15
	M	127	67	8	3	4			1	8	23	9			5
	F	86	42	3		2				13	14	1			10
108. Diseases of the mouth and annexa.....	M	1									1				
	F	2								2					
109. Diseases of the pharynx and tonsils (including adenoid vegetations)...	M	3	1	1							1				
	F	4	4												
109B. Pharynx and tonsils...	M	3	1	1							1				
	F	4	4												
111. Ulcer of the stomach and duodenum.....	M	10		2						1	5				2
	F	4				1				2	1				
111A. Ulcer of the stomach...	M	5		1						1	2				1
	F	2								1	1				
111B. Ulcer of the duodenum	M	5		1							3				1
	F	2				1				1					
112. Other diseases of the stomach (cancer excepted).....	M	5	3								1	1			
	F	2	2												
113. Diarrhoea and enteritis (under 2 years of age)	M	50	50												
	F	32	32												
114. Diarrhoea and enteritis (2 years or over).....	M	4	1									3			
	F	3									2				1
117. Appendicitis and typhilitis.....	M	26	7	4	2					3	7	2			1
	F	10	3	3							3	1			
118. Hernia, intestinal obstruction.....	M	11	4			3				1	2				1
	F	15	1							7	4				3
118A. Hernia.....	M	1									1				
	F	4								1	3				
118B. Intestinal obstruction...	M	10	4			3				1	1				1
	F	11	1							6	1				3
119. Other diseases of the intestines.....	M	1									1				
	F	1										1			
122. Cirrhosis of the liver...	M	1													
	F	3									1				2
122B. Not specified as alcoholic.....	M	1									1				
	F	3									1				2
123. Biliary calculi.....	M	2									1				
	F	5							1	1	2				1

DITION, NATIVITY, AND MONTH OF DEATH—OTTAWA, 1930—Continued

Not stated	NATIVITY					MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
.....	6	.....	.....	.....	.....	1	.....	1	.....	1	1	.....	1	.....	.....	.....	1	124
.....	3	1	.....	.....	.....	1	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....	125
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	5	1	.....	.....	.....	1	.....	.....	1	2	.....	1	.....	.....	.....	.....	1	126
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	109	16	4	5	1	16	11	19	9	9	9	11	6	10	12	12	11	.....
.....	52	12	3	4	.....	10	7	8	5	3	3	8	4	6	4	7	6	.....
.....	57	4	1	1	1	6	4	11	4	6	6	3	2	4	8	5	5	.....
.....	4	.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	1	.....	.....	128
.....	3	.....	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	26	6	2	4	.....	5	5	2	2	2	1	4	1	5	2	5	4	129
.....	45	3	.....	1	1	5	2	7	3	5	4	2	2	4	7	4	5	.....
.....	5	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	131
.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
.....	3	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1	1	.....	132
.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	133
.....	1	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	13	5	.....	.....	.....	1	1	5	1	1	2	2	2	1	.....	1	1	135
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	4	1	1	.....	.....	.....	1	1	1	.....	1	.....	.....	.....	1	1	.....	139
.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	15	5	1	2	.....	2	2	.....	1	1	.....	5	2	2	1	4	3	.....
.....	3	1	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	1	.....	1	1	144
.....	8	2	1	1	.....	1	1	.....	.....	.....	.....	4	1	.....	1	3	1	146
.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	3	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	148
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	149
.....	11	.....	1	.....	1	5	1	2	1	.....	.....	1	.....	.....	.....	2	1	.....
.....	10	.....	1	.....	1	3	1	2	1	.....	.....	1	.....	.....	.....	2	1	.....
.....	1	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	4	.....	1	.....	.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	1	1	151
.....	3	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	152
.....	1	.....	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	153
.....	3	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....

DITIGN, NATIVITY, AND MONTH OF DEATH—OTTAWA, 1930—Continued

Not stated	NATIVITY				MONTHS												
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
	5					1			1	1				1			1
	3					1			1					1			
	2									1							1
	3					1			1					1			
	1									1							155
	1																156
	30					4	3	2	4	2	2	1	2	3	2	3	2
	18					3			4	1	1	1	2	1	2	2	1
	12					1	3	2		1	1			2		1	1
	18					3			4	1	1	1	2	1	2	2	1
	12					1	3	2		1	1			2		1	1
	2								2								159A
	3							1						1			1
	6					1					1	1	1		1	1	159B
	4						2	1			1						
	10					2			2	1			1	1	1	1	159C
	5					1	1			1				1		1	
	121					7	10	11	8	13	12	14	8	11	11	6	10
	70					3	3	3	4	10	8	10	5	6	7	3	8
	51					4	7	8	4	3	4	4	3	5	4	3	2
	15						1			3	2	3		3	2		1
	8						1	1		2		2	1		1		
	46					3	1	3	4	7	4	6	3	2	5	2	6
	37					3	5	7	4	1	3	2	2	4	2	2	2
	40					3	1	2	2	6	4	6	3	2	3	2	6
	32					3	4	6	3	1	3	2	2	4	1	1	2
	6							1	2	1					2		161B
	5						1	1	1						1	1	
	9						1				2	1	2	1		1	162
	6					1	1				1			1	2		
	9						1				2	1	2	1		1	162A
	6					1	1				1			1	2		

TABLE 42—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid-owed	
			Under 15	Single					Married					
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated
CLASS XIII.—OLD AGE.														
Total		19					2					2		15
	M	8					2					1		5
	F	11										1		10
164. Senility.....	M	8					2					1		5
	F	11										1		10
CLASS XIV.—EXTERNAL CAUSES.														
Total		110	24	7	6	7	7	2	12	19	6			20
	M	76	16	7	6	7	3		10	16	4			7
	F	34	8				4	2	2	3	2			13
165-174. Suicides.....	M	4			1	1				2				1
	F	2								1				
166. Suicide by corrosive substances.....	M	1								1				
	F	1									1			
170. Suicide by firearms.....	M	2			1					1				
	F	1												1
171. Suicide by cutting or piercing instruments...	M	1				1								
177. Other acute accidental poisonings (gas excepted).....	M	1												
	F	2								1				
178. Conflagration.....	M	1								1				
179. Accidental burns and scalds (conflagration excepted).....	M	1								1				
	F	4	2								2			
181. Accidental absorption of irrespirable or poisonous gas.....	M	1										1		
182. Accidental drowning.....	M	6	3			2				1				
185. Accidental traumatism by fall.....	M	15	1	3			2			2	4			3
	F	14					3				1	1		9
187. Accidental traumatism by machines.....	M	1									1			
188. Accidental traumatism by other crushing (vehicles, railways, landslides, etc.).....	M	28	7	3	4	3				1	6	2		2
	F	6	3								1			2
188A. Railroad accidents.....	M	2			1						1			
188B. Street car accidents.....	M	2				1								1
188C. Automobile accidents.....	M	18	4	3	2	2				1	3	2		1
	F	6	3									1		2
188E. Injuries by other vehicles.....	M	3	2									1		
188F. Other crushing.....	M	3	1		1							1		
189. Injuries by animals (poisoning excepted).....	M	2			1	1								
	F	1										1		
193. Excessive cold.....	M	1										1		
194. Excessive heat.....	M	1										1		
196. Other accidental electric shocks.....	M	3	1								1	1		
197-199. Homicides.....	M	2	2											
	F	1							1					
199. Homicide by other means	M	2	2											
	F	1							1					
201. Fracture (cause not specified).....	M	1												1
	F	2							1					1
202. Other external violence (cause specified).....	M	5		1						3				1

TABLE 42—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid- owed		
			Un- der 15	Single					Married						
				15-24	25-44	45-64	65 and over	Age not stat- ed	15-24	25-44	45-64	65 and over		Age not stat- ed	
CLASS XV.—ILL-DEFINED DISEASES.															
Total		7	3	.....	1	.....	.....	.....	.....	.....	.....	2	.....	.....	1
	M	6	2	.....	1	.....	.....	.....	.....	.....	.....	2	.....	.....	1
	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
204. Sudden death.....	M	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
205. Cause of death not speci- fied or ill-defined.....	M	4	1	.....	1	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
205A. Ill-defined.....	M	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
205B. Not specified or un- known.....	M	2	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
205c. Heart failure.....	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....

TABLE 43—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Widowed	
			Under 15	Single					Married					
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated
CLASS II.—GENERAL DISEASES NOT INCLUDED IN CLASS I.														
Total		167	5	2	3	12	11	.....	2	6	39	38	.....	49
	M	75	1		2	4	6	.....		2	15	23	.....	22
	F	92	4	2	1	8	5	.....	2	4	24	15	.....	27
43-49. Cancer.....	M	57			1	3	4	.....		2	13	19	.....	15
	F	75			1	5	4	.....	2	4	22	13	.....	24
43. Cancer of the buccal cavity	M	1				1		.....					.....
	F	2						.....					.....	2
44. Cancer of the stomach and liver.....	M	17				1	2	.....			3	7	.....	4
	F	29				3	3	.....	1	1	5	4	.....	12
45. Cancer of the peritoneum, intestines and rectum..	M	14				1		.....			1	6	.....	3
	F	12				1		.....			5	3	.....	3
46. Cancer of the female genital organs.....	F	10				1		.....			2	4	.....	3
47. Cancer of the breast.....	F	13			1			.....	1	1	6	2	.....	2
48. Cancer of the skin.....	M	3					1	.....				1	.....	1
49. Cancer of other or unspecified organs.....	M	22			1		1	.....		1	4	8	.....	7
	F	9					1	.....			2	1	.....	5
49A. Cancer of eye and ear...	M	1						.....				1	.....
49B. Cancer of circulatory system.....	M	1						.....					.....	1
	F	1						.....					.....	1
49C. Cancer of respiratory system.....	M	2						.....			1	1	.....
	F	1						.....				1	.....
49D. Cancer of digestive system.....	M	2						.....				1	.....	1
49E. Cancer of genito-urinary system.....	M	12			1		1	.....		1	2	4	.....	3
	F	2						.....			1		.....	1
49F. Cancer of bones and joints.....	F	3						.....				1	.....	2
49G. Cancer of other specified organs.....	M	3						.....			1		.....
	F	1					1	.....				1	.....
49H. Generalized cancer.....	M	1						.....					.....
	F	1						.....			1		.....
50. Benign tumours and tumours not returned as malignant (tumours of female genital organs excepted).....	M	1					1	.....					.....
51. Acute rheumatic fever.....	F	2	1	1				.....					.....
52. Chronic rheumatism, osteo-arthritis, gout.....	M	1						.....					.....	1
	F	1				1		.....					.....
57. Diabetes mellitus.....	M	7						.....			2	2	.....	3
	F	7	1			1		.....			2	1	.....	2
58. Anaemia, chlorosis.....	M	4				1		.....				1	.....	2
	F	3					1	.....			1	1	.....	1
58A. Pernicious anaemia.....	M	4				1		.....			1	1	.....	2
	F	3					1	.....				1	.....	1
60. Diseases of the thyroid gland.....	F	2		1		1		.....					.....
60A. Exophthalmic goiter.....	F	2		1		1		.....					.....
62. Diseases of the thymus...	F	1	1					.....					.....
65. Leukaemia, lymphadenoma.....	M	2			1			.....				1	.....
65A. Leukaemia.....	M	2			1			.....				1	.....
66. Alcoholism.....	M	1						.....					.....	1
66B. Acute alcoholism.....	M	1						.....					.....	1
69. Other general diseases.....	M	2	1				1	.....					.....
	F	1	1					.....					.....
69A. Diabetes insipidus.....	M	1					1	.....					.....
69D. Others under this title..	M	1	1					.....					.....
	F	1	1					.....					.....

DITION, NATIVITY, AND MONTH OF DEATH—LONDON, 1930—Continued

Not stat- ed	NATIVITY					MONTHS											
	Can- ada	Brit- ish	Foreign		Not stat- ed	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
.....	111	50	2	4	.....	9	16	14	16	17	11	19	13	13	9	20	10
.....	53	20	1	1	.....	3	9	7	5	10	3	8	6	8	5	10	1
.....	58	30	1	3	.....	6	7	7	11	7	8	11	7	5	4	10	9
.....	41	15	1	.....	.....	2	7	6	2	8	2	7	3	8	4	7	1
.....	45	27	1	2	.....	5	5	6	10	7	4	10	6	5	3	6	8
.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	43
.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	8	9	.....	.....	.....	.....	2	2	1	3	.....	5	.....	3	.....	1	.....
.....	21	8	.....	.....	.....	2	1	3	4	3	3	4	1	2	1	2	3
.....	11	3	.....	.....	.....	.....	1	2	.....	2	1	.....	2	3	1	1	1
.....	7	5	.....	.....	.....	1	.....	1	1	1	.....	2	.....	2	1	2	1
.....	5	4	.....	1	.....	1	1	1	1	1	.....	1	1	.....	.....	1	2
.....	4	8	.....	1	.....	.....	2	.....	2	1	.....	2	3	.....	1	1	1
.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....
.....	19	2	1	.....	.....	2	4	2	1	3	1	1	.....	2	3	3	.....
.....	7	2	.....	.....	.....	1	1	.....	2	1	1	1	.....	1	.....	.....	1
.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	49A
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	49B
.....	1	1	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	1	.....	.....	49C
.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49D
.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	49E
.....	11	1	.....	.....	.....	1	3	1	.....	2	1	1	.....	1	1	1	.....
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	49F
.....	2	1	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	49G
.....	2	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	49H
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	60
.....	2	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	60A
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	62
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	65
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	65A
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	66
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	66B
.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	69
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	69A
.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	69D
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....

TABLE 43—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid-owed			
			Single					Married								
			Un-der 15	15-24	25-44	45-64	65 and over	Age not stat-ed	15-24	25-44	45-64	65 and over		Age not stat-ed		
CLASS III.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.																
Total		87	7	3	8	7	5	.....	2	6	13	21	.....	15		
	M	46	4	2	5	4	1	.....	1	6	8	9	.....	6		
	F	41	3	1	3	3	4	.....	1	6	5	12	.....	9		
70. Encephalitis.....	F	3	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	1		
70B. Encephalitis.....	F	3	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	1		
71. Meningitis.....	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
71A. Simple meningitis.....	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
72. Tabes dorsalis (locomotor ataxia).....	M	2	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	
73. Other diseases of the spinal cord.....	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	
74. Cerebral hæmorrhage, apoplexy.....	M	11	.....	.....	1	.....	.....	.....	.....	.....	3	6	.....	1		
	F	15	.....	.....	.....	1	4	.....	.....	.....	2	2	.....	6		
74A. Apoplexy.....	M	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1		
	F	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
74B. Cerebral hæmorrhage..	M	9	.....	.....	1	.....	2	.....	.....	.....	2	6	.....	2		
	F	8	.....	.....	.....	1	1	.....	.....	.....	2	1	.....	3		
74C. Cerebral thrombosis and embolism.....	F	3	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	1		
75. Paralysis without specified cause.....	M	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	
	M	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	
75A. Hemiplegia.....	M	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	
76. General paralysis of the insane.....	M	5	.....	.....	1	.....	.....	.....	.....	1	2	.....	.....	.....	1	
	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
77. Other forms of mental alienation.....	M	7	.....	1	.....	2	1	.....	.....	.....	2	1	.....	.....	.....
	F	9	.....	.....	1	.....	.....	.....	1	.....	.....	5	.....	.....	2	
78. Epilepsy.....	M	6	.....	1	2	.....	2	.....	.....	1	.....	.....	.....	.....	.....
	F	3	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
80. Infantile convulsions (under 5 years of age).....	M	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	F	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
82. Neuralgia and neuritis....	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
83. Softening of the brain....	F	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
84. Other diseases of the nervous system.....	M	5	.....	.....	.....	.....	.....	.....	.....	2	1	1	.....	1		
	F	4	1	.....	1	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
85. Diseases of the eye and anexa.....	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
86. Diseases of the ear and of the mastoid process.....	M	5	3	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
	F	2	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
86A. Diseases of the ear.....	M	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
86B. Diseases of the mastoid process.....	M	4	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
	F	2	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
CLASS IV.—DISEASES OF THE CIRCULATORY SYSTEM.																
Total		298	2	4	4	11	25	.....	2	3	40	70	.....	1	136	
	M	136	1	2	.....	5	10	.....	1	2	22	45	.....	1	47	
	F	162	1	2	4	6	15	.....	1	1	18	25	.....	89		
87-90. Diseases of the heart..	M	68	1	2	.....	4	3	.....	.....	1	13	22	.....	1	21	
	F	107	1	2	3	5	7	.....	1	1	11	16	.....	60		
87. Pericarditis.....	M	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
88. Endocarditis and myocarditis (acute).....	M	3	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1	
	F	4	.....	1	.....	.....	1	.....	.....	.....	1	1	.....	.....	.....
88A. Acute endocarditis.....	M	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
	F	2	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
88B. Acute myocarditis.....	M	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	
	F	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
89. Angina pectoris.....	M	14	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....
	F	6	.....	.....	.....	.....	.....	.....	.....	.....	2	6	.....	.....	.....
90. Other diseases of the heart	M	49	.....	2	.....	4	1	.....	.....	1	8	15	.....	1	17	
	F	97	1	1	3	5	6	.....	1	1	8	15	.....	4	56	

DITION, NATIVITY, AND MONTH OF DEATH—LONDON, 1930—Continued

Not stat- ed	NATIVITY					MONTHS											
	Can- ada	Brit- ish	Foreign		Not stat- ed	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
			USA	Other													
66	11	7	3	10	9	8	6	6	9	6	6	6	6	7	9	11	
32	8	3	3	5	3	6	1	2	5	3	6	3	6	3	6	6	
34	3	4		5	6	2	5	4	4	3		3		4	3	5	
2	1			1				1				1					70
2	1			1				1				1					70B
1				1						1							71
1										1							71A
	1		1													2	72
1													1				73
9	1	1			1	1				2		1	1	2	2	1	74
14		1		2	3	1	2	2				1		2		2	74A
2						1			1		1			2			
4						1				1				2			
7	1	1			1	1				1		1		2	2	1	74B
8				2	2	1			1			1					
2		1						2									174C
	1	1			1	1											75
	1	1			1	1											75A
3			2				3						1				176
1																1	
4	3			2		1				1			1	1			177
7		2		1	1	1	1	1	1	1				1			2
5	1			1	1					1					1		278
3										1						2	
1									1								80
1														1			
1				1													82
	1				1												83
4		1		1								1	1			1	84
2	1	1			1				1	1		1					
	1												1				85
5				1				1	1	1		1					86
2									1							1	
1									1								86A
4				1					1	1		1					86B
2								1								1	
205	81	6	4	1	26	31	28	31	24	19	19	17	19	25	23	36	
91	38	3	3	1	14	13	15	12	11	10	6	6	8	7	14	20	
115	43	3	1		12	18	13	19	13	9	13	11	11	18	9	16	
45	19	1	2	1	7	7	11	3	5	6	3	3	6	5	7	5	87-90
81	24	2			9	11	10	14	8	5	12	7	8	12	5	6	
1	1									1					1		87
1	2					2	1										88
3	1					1		1	1	1			1				88A
2	1					1		1					1				88B
1	1					1	1										
1	1					1			1	1							
13	1				4	2	2	2	1				4		1		89
4	2			1										1			1
30	15	1	2	1	3	3	8	3	5	5	3	3	2	4	6	4	90
74	21	2			8	11	8	12	7	4	12	7	7	11	5	5	

DITION, NATIVITY, AND MONTH OF DEATH—LONDON, 1930—Continued

Not stat- ed	NATIVITY				MONTHS													
	Can- ada	Brit- ish	Foreign		Not stat- ed	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
4									1				1				2	90A
7		1	1		1	2	1			1		2	1	1				
7		5			1				3				1	1	1	1		90D
19	12		2		1	2	5	2	5	4	3	2	2	3	2	2	2	90E
41	14	1			4	6	6	6	6	5	3	9	4	1	8	2	2	
7	2	1		1	1	1	3			1					1	2	2	90F
19	1				2				3	1	1	1	1	4	2	2	3	
44	17	2	1		6	5	4	9	5	4	3	3	2	2	6	6	15	91
32	19	1	1		3	7	2	5	5	4	1	4	3	6	3	3	10	
44	17	2	1		6	5	4	9	5	4	3	3	2	2	6	6	15	91B
32	19	1	1		3	7	2	5	5	4	1	4	3	6	3	3	10	
1	2				1					1						1		92
2							1									1		
1						1												94
42	14	1	2	1	7	8	4	2	6	7	2	5	4	5	3	7		
16	7			1	2	3	2		4	4	1	3	1	2	1	1		
26	7	1	2		5	5	2	2	2	3	1	2	3	3	3	2	6	
1	1									1						1		99
1																1		99C
6					1		1		2						1		1	100
8	4	1			2	2						1		2	3		3	
6					1	2	1		2						1			100A
8	3	1			1						1		2	3			3	
7	6				1	3	1			3	1	1						100B
17	1		2		2	3	2	2	2	2	1	1	1			1		101
4	4				1	1	1			3	1	1	1			1		101A
10	1		2		1	1	1	2	1	1		2			1		3	
3	2					3			1		1							101B
7					1	2	1		1	1			1					
2	1				1					1			1	1				102
1					1								1					105
1																		
1										1								107
1									1									107C
79	14	2			4	2	6	4	11	5	3	13	18	13	10	6		
47	11	2			3	2	4	2	6	3	3	7	9	9	7	5		
32	3				1		2	2	5	2		6	9	4	3	1		
1																1		109
1																1		109B
5	3					1				1				1	2	3		111
1					1					1								
2	3									1				1	1	2		111A
1	1				1				1									
3						1									1	1		111B

TABLE 43—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION													
			Under 15	Single					Married					Widowed		
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over	Age not stated			
112. Other diseases of the stomach (cancer excepted).....	M	2	1													1
	F	1											1			
113. Diarrhoea and enteritis (under 2 years of age)	M	14	14													
	F	13	13													
114. Diarrhoea and enteritis (2 years or over).....	M	1		1												
	F	2									1					1
117. Appendicitis and typhlitis.....	M	18	3	3	1	1					3	4	3			
	F	7	2								1	2	2			
118. Hernia, intestinal obstruction.....	M	9			1	1					1	3	2			1
	F	2									1	1				
118A. Hernia.....	M	2				1										
	F	1										1				
118B. Intestinal obstruction..	M	1			1						1	2	2			1
	F	7									1					
119. Other diseases of the intestines.....	M	1														1
120. Acute yellow atrophy of the liver.....	M	1	1													
122. Cirrhosis of the liver...	M	1	1													
122B. Not specified as alcoholic.....	F	1	1													
123. Biliary calculi.....	M	1				1										
	F	1														
124. Other diseases of the liver.....	M	2				1										1
	F	3				1						2				
125. Peritonitis without specified cause.....	M	2	1								1					
	F	3	1	1	1											
CLASS VII.—NON-VEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.																
Total.....		114	2	2	7	1	13				6	22	29			32
	M	59	2		3	1	5				2	11	21			14
	F	55		2	4		8				4	11	8			18
128. Acute nephritis (including unspecified, under 10 years of age).....	M	2	1		1											
129. Chronic nephritis (Bright's disease).....	M	36			2		4				1	5	13			11
	F	45		1	2		7				3	8	7			17
131. Other diseases of the kidneys and annexa...	M	6	1								1	2	1			1
	F	3					1					1	1			
132. Calculi of the urinary passages.....	F	1														1
135. Diseases of the prostate	M	15				1	1					4	7			2
137. Cysts and other benign tumours of the ovary...	F	1			1											
139. Benign tumours of the uterus.....	F	3									1	2				
141. Other diseases of the female genital organs..	F	2		1	1											
CLASS VIII—THE PUERPERAL STATE.																
Total.....		17	1	1	2						3	10				
144. Puerperal haemorrhage.	F	1									1					
145. Other accidents of labour	F	2			1							1				
145B. Difficult labour.....	F	1			1											
145E. Rupture of the uterus in labour.....	F	1										1				

DITION, NATIVITY, AND MONTH OF DEATH—LONDON, 1930—Continued

Not stated	NATIVITY				MONTHS													
	Canada	British	Foreign		Not stated	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			USA	Other														
.....	2	2	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....	1	.....	.....	.....	146
.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	147
.....	6	2	.....	.....	.....	1	.....	1	1	3	.....	1	.....	.....	.....	.....	1	148
.....	6	3	.....	.....	.....	1	1	1	.....	1	1	2	.....	1	1	.....	.....	.....
.....	3	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....
.....	3	2	.....	.....	.....	1	.....	1	.....	1	1	1	.....	.....	.....	.....	.....	.....
.....	1	1	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	1	.....	.....	151
.....	3	1	.....	.....	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	153
.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	154
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	155
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	11	.....	.....	.....	.....	2	1	1	2	.....	.....	.....	1	1	1	.....	.....	2
.....	7	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	1	1	.....	.....	2
.....	4	.....	.....	.....	.....	1	.....	.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....
.....	7	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	1	1	.....	2
.....	4	.....	.....	.....	.....	1	.....	.....	2	.....	.....	.....	.....	1	.....	.....	.....	159
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	159B
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	6	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	2
.....	3	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....	.....	159C
.....
.....	45	.....	.....	.....	.....	4	5	6	11	1	5	2	3	1	4	.....	.....	3
.....	32	.....	.....	.....	.....	3	4	3	8	1	4	2	2	.....	2	.....	.....	3
.....	13	.....	.....	.....	.....	1	1	3	3	.....	1	.....	1	1	2	.....	.....	.....
.....	3	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	160
.....	3	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....
.....	27	.....	.....	.....	.....	2	4	1	7	1	3	2	2	.....	2	.....	3	161
.....	7	.....	.....	.....	.....	1	1	2	1	.....	1	.....	.....	.....	1	.....	.....	.....
.....	23	.....	.....	.....	.....	2	3	1	7	1	2	2	2	.....	2	.....	.....	1
.....	6	.....	.....	.....	.....	1	1	1	1	.....	1	.....	.....	.....	1	.....	.....	161A
.....	4	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	2
.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	161B
.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	162
.....	3	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	.....	.....
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	3	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	.....	162A
.....	3	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	.....	.....

TABLE 43—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CON

CAUSES OF DEATH	Sex	Total	CONJUGAL CONDITION										Wid-owed	
			Un-der 15	Single					Married					
				15-24	25-44	45-64	65 and over	Age not stated	15-24	25-44	45-64	65 and over		Age not stated
CLASS XIII.—OLD AGE.														
Total		10											1	9
	M	4											1	3
	F	6												6
164. Senility	M	4											1	3
	F	6												6
CLASS XIV.—EXTERNAL CAUSES.														
Total		64	7	1	3	4	4	1	2	8	12	4		18
	M	42	5	1	2	2	2	1	2	6	11	3		9
	F	22	2		1	2	2		2	2	1	1		9
165-174. Suicides	M	6				1		1		2	2			
	F	1							1					
165. Suicide by solid or liquid poisons (corrosive substances excepted)	M	2								2				
	F	1							1					
166. Suicide by corrosive substances	M	1									1			
168. Suicide by hanging or strangulation	M	1				1								
170. Suicide by firearms	M	1									1			
171. Suicide by cutting or piercing instruments	M	1						1						
179. Accidental burns and scalds (conflagration excepted)	M	2	1				1							
180. Accidental mechanical suffocation	M	1	1											
	F	1												
180B. Asphyxia	M	1	1											
	F	1												
181. Accidental absorption of irrespirable or poisonous gas	M	3								1	1			1
185. Accidental traumatism by fall	M	8				1					2			5
	F	11					2			1		1		7
187. Accidental traumatism by machines	M	2									1	1		
188. Accidental traumatism by other crushing (vehicles, railways, landslides, etc.)	M	16	3	1	2		1			3	4	1		1
	F	9	1		1	2			1	1	1			2
188A. Railroad accidents	M	4								1	2			1
	F	1			1									
188C. Automobile accidents	M	11	2	1	2		1			2	2	1		
	F	7	1			2			1	1	1			1
188E. Injuries by other vehicles	M	1	1											
188F. Other crushing	F	1												1
194. Excessive heat	M	2									1	1		
201. Fracture (cause not specified)	M	2												2
CLASS XV.—ILL-DEFINED DISEASES.														
Total		2										1	1	
	F	2										1	1	
205. Cause of death not specified or ill-defined	F	2										1	1	
205c. Heart Failure	F	2										1	1	

CITIES AND TOWNS OF 5,000 AND OVER)—ONTARIO, 1930—Continued

Kent	Lambton	Lanark	Leeds	Lennox	Lincoln	Manitoulin	Middlesex	Muskoka	Nipissing	Norfolk	Northumberland	Ontario	Oxford	Parry Sound	Peel	Perth	Peterborough	Prescott	Prince Edward	Rainy River	Renfrew	Russell	Simcoe	Stromont	Sudbury	Thunder Bay	Temiskaming	Victoria	Waterloo	Welland	Wellington	Wentworth	York	Grand total, including cities and towns			
6	4	6	4	2	2	3	8	4	2	2	2	2	2	4	6	5	5	1	4	6	2	19	8	11	10	10	1	6	17	4	3	23	808				
6	4	6	3	2	2	3	8	4	2	2	2	2	2	4	6	5	5	1	4	6	2	19	8	11	10	10	1	6	17	4	3	23	800				
19	15	19	9	2	14	2	18	7	13	12	15	11	15	16	5	13	4	7	15	2	24	10	26	7	14	9	6	19	11	18	8	53	1,471				
8	9	6	4	2	6	8	3	3	5	4	14	8	9	5	4	3	3	3	8	7	8	6	16	6	10	8	5	12	9	6	4	39	961				
11	6	13	5	1	2	2	10	4	8	8	1	3	6	11	1	2	1	4	1	1	2	16	4	10	1	1	1	7	2	12	4	14	510				
1	1	1	1	2	1	1	1	1	2	1	2	1	1	1	1	1	2	2	2	2	4	1	2	2	1	1	1	1	1	2	2	4	123				
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	56			
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	66		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	55		
29	28	16	13	8	15	10	24	13	28	35	21	23	13	21	10	17	15	23	13	9	13	11	35	14	41	4	36	7	12	17	38	11	90	3,160			
3	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	58		
2	2	2	2	1	1	1	1	1	1	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	7	158		
2	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	158		
2	1	2	1	1	1	1	2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	226	
2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	116	
3	1	2	2	1	6	2	1	2	1	3	3	2	1	2	1	4	1	1	1	2	1	2	2	2	2	1	2	3	1	1	2	3	1	4	132		
8	2	3	3	4	2	5	4	14	17	2	3	2	10	2	1	3	12	1	1	6	7	14	8	27	2	17	1	5	9	11	15	15	943				
3	1	3	3	1	1	3	4	2	1	6	3	1	3	1	1	1	2	3	2	2	1	7	7	1	6	1	1	3	3	3	2	4	217				
1	4	1	1	2	2	2	4	6	1	1	3	1	3	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	4	4		
3	6	1	2	1	1	3	4	1	5	2	1	3	1	3	2	3	1	3	2	2	1	2	1	1	3	3	4	1	1	1	1	1	1	1	12	470	
1	2	4	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	372	
2	4	1	2	1	2	3	3	4	2	1	2	1	3	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	121	
3	3	3	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	251	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	58	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	12	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	81
2	7	3	1	4	1	5	2	3	2	2	3	2	2	3	7	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	90	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	246	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	65		
28	38	17	28	13	22	5	47	13	8	16	35	24	27	17	16	31	12	11	21	5	20	16	52	21	9	2	8	14	18	26	38	19	85	2,627			
1	1	3	1	2	3	3	11	6	10	29	15	2	1	1	1	1	2	1	1	1	3	1	1	1	1	1	1	1	3	2	6	1	8	6	87		
21	28	14	23	12	17	3	38	11	1	4	1	2	4	2	3	2	9	7	17	3	18	11	37	17	8	2	3	11	12	17	23	18	51	1,759			
3	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	161	
3	5	2	1	1	6	1	1	2	4	4	3	1	2	2	2	2	2	2	2	1	1	1	6	3	2	1	1	1	5	5	10	10	10	10	46		
3	5	2	1	1	6	1	1	2	4	4	3	1	2	2	2	2	2	2	2	1	1	1	6	3	2	1	1	1	5	5	10	10	10	10	54		
3	5	2	1	1	6	1	1	2	4	4	3	1	2	2	2	2	2	2	2	1	1	1	6	3	2	1	1	1	5	5	10	10	10	10	18		
3	5	2	1	1	6	1	1	2	4	4	3	1	2	2	2	2	2	2	2	1	1	1	6	3	2	1	1	1	5	5	10	10	10	10	13		
3	5	2	1	1	6	1	1	2	4	4	3	1	2	2	2	2	2	2	2	1	1	1	6	3	2	1	1	1	5	5	10	10	10	10	5		
3	5	2	1	1	6	1	1	2	4	4	3	1	2	2	2	2	2	2	2	1	1	1	6	3	2	1	1	1	5	5	10	10	10	10	333		
3	5	2	1	1	6	1	1	2	4	4	3	1	2	2	2	2	2	2	2	1	1	1	6	3	2	1	1	1	5	5	10	10	10	10	5		

TABLE 44—CAUSES OF DEATH FOR COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total	COUNTIES																			
		Addington	Albion	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glenagry	Grenville	Grey	Haldimand	Haliburton	Hastings	Huron	Kenora
137. Cysts and other benign tumours of the ovary.....	10							2	1												2
138. Salpingitis and pelvic abscess.....	8						1														1
139. Benign tumours of the uterus.....	9								1		1										1
140. Non-puerperal uterine haemorrhage.....	3				1																1
141. Other diseases of the female genital organs.....	8							1													1
142. Non-puerperal diseases of the breast (cancer excepted).....	2																				1
CLASS VIII.—THE PUERPERAL STATE.																					
Total	161	1	5	2	1	3	5	3	2	1	3	1	3	1	5	4	1	2	6	5	2
143. Accidents of pregnancy.....	9															1				1	1
143A. Abortion.....	1																				
143B. Ectopic gestation.....	5															1					1
143C. Others under this title.....	3																				1
143D. Abortion, self-induced.....	16																				
144. Puerperal haemorrhage.....	21				1			1			1				3		1			1	1
145. Other accidents of labour.....	3															1					
145A. Caesarean section.....	6							1			1				1						
145B. Difficult labour.....	6																				
145C. Other surgical operations and instrumental delivery.....	6																			1	1
145D. Uncontrollable vomiting.....	6				1										2						1
145E. Rupture of uterus in labour, etc.....	43	2				3	2				1	1		1				2	2	2	2
147. Puerperal phlegmasia alba dolens, puerperal embolism, sudden death in puerperium.....	17		1			1										2				1	
148. Puerperal albuminuria and convulsions.....	44	1	3	1		2	1		1		1		3		1					1	1
149. Following child-birth (not otherwise defined).....	11					1															
CLASS IX.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.																					
Total	93	1	3		2	1	4	1	1	3	1	2	1	1	3					5	6
151. Gangrene.....	56	1	2		2	1	1	1	1	1	1	2	1	1	1	2				2	3
152. Furuncle.....	7																				1
153. Acute abscess.....	15		1				2			1											3
154. Other diseases of the skin and annexa.....	15					1			1						1					2	
CLASS X.—DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION.																					
Total	23			1	2						2				1						2
155. Diseases of the bones (mastoid and tuberculosis excepted).....	17			1	1						1				1						1
156. Diseases of the joints (tuberculosis and rheumatism excepted).....	3				1																1
157. Amputations.....	1																				
158. Other diseases of the organs of locomotion.....	2										1										
CLASS XI.—MALFORMATIONS.																					
Total	217	1	1	1	9	5	3	2	2	5	11	1	1	3	4				5	8	3
159. Congenital malformations (still-births not included).....	217	1	1	1	9	5	3	2	2	5	11	1	1	3	4				5	8	3
159A. Congenital hydrocephalus.....	13					1			1	1	2				1				1		
159B. Congenital malformations of the heart.....	94			1	4	2	2	1	1	2	6		1	3	2				1	4	3
159C. Others under this title.....	110	1	1		5	2	1	1	1	2	3	1			1				3	4	3

TABLE 44—CAUSES OF DEATH BY COUNTIES (EXCLUSIVE OF

CAUSES OF DEATH	Total																						
		Addington	Albama	Brant	Bruce	Carleton	Cochrane	Dufferin	Dundas	Durham	Elgin	Essex	Frontenac	Glengarry	Grenville	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora	
195. Lightning.....	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
196. Other accidental electric shocks.....	17	1	1	..	..	1	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	1
197-199. Homicides.....	33	2	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	..	..	..
197. Homicide by firearms.....	12	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
198. Homicide by cutting or piercing instruments.....	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
199. Homicide by other means.....	18	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
201. Fracture (cause not specified).....	30	..	1	2	..	2	..	..	..	..	1	1	1	1	4	..	..	2	..	..	..	..	..
202. Other external violence (cause specified).....	28	1	1	1	..	..	..	..	..	1	..	1	..	1	..	..	1	..	..	1	..	1	2
203. External violence (cause not specified).....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
CLASS XV.—ILL-DEFINED.																							
Total	94	1	1	3	7	1	1	3	3	3	1	1	1	3	1	1	2	2	2	1	1	1	1
204. Sudden death.....	11	..	..	..	1	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..
205. Cause of death not specified or ill-defined	83	1	1	3	6	1	1	3	2	2	1	1	..	..	3	1	..	..	2	1	1	1	1
205A. Ill-defined.....	13	..	..	..	4	1	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
205B. Not specified or unknown.....	31	..	1	2	..	..	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..
205C. Heart failure.....	39	1	1	2	..	..	1	2	..	1	1	..	..	3	1	..	2	1	..	2	1	..	..

TABLE 45—CAUSES OF DEATH

CAUSES OF DEATH											
	Total	Toronto	Hamilton	Ottawa	London	Windsor	Brantford	Kitchener	Kingston	Saulte Ste. Marie	Peterborough
DEATHS—ALL CAUSES. Total.....	17,680	7,057	1,506	1,747	1,080	612	395	348	512	230	304
CLASS I.—EPIDEMIC, ENDEMIC AND INFECTIOUS DISEASES.											
Total.....	1,740	679	129	191	99	64	29	32	57	22	23
1. Typhoid and paratyphoid fever.....	37	4	5	5	3	3			1		1
1A. Typhoid fever.....	35	4	5	5	3	3					1
1B. Paratyphoid fever.....	2								1		
4. Undulant fever.....	3			1			1				
5. Malaria.....	1										
6. Small-pox.....	1										
7. Measles.....	37	4	15	1		4			1		
8. Scarlet fever.....	57	23	3	7	2	2	2	2	1		
9. Whooping-cough.....	47	12	3	4	1	1	1	2	3	1	
10. Diphtheria.....	119	66	2	27	8	1	1		1	2	1
11. Influenza.....	310	116	34	15	23	9	6	7	7	5	3
11A. Influenza, sole cause.....	20	8		2	3				1		
11B. Influenza, with phthisis.....	6	2	1								
11C. Influenza, with bronchitis.....	4	3				1					
11D. Influenza, with pneumonia.....	127	42	20	5	11	3	3	5	2	4	1
11E. Influenza, with other respiratory diseases.....	12	7	1			1					1
11F. Influenza, with diseases and accidents of pregnancy and parturition.....	5	1			1						
11G. Influenza, with other causes.....	136	53	12	8	8	4	3	2	4	1	1
13. Mumps.....	2			1							
16. Dysentery.....	14		1	2	2						2
21. Erysipelas.....	91	52	5	7	2	3		1	2	2	2
22. Acute poliomyelitis.....	41	30	1			1					1
23. Lethargic encephalitis.....	30	12	1	1	6						
24. Meningococcus meningitis.....	35	8	1	8	1	3	2				
25. Other epidemic and endemic diseases.....	9	4		1		1					1
25A. Chicken-pox.....	5	1		1			1				1
25C. Others under this title.....	4	3				1					
29. Tetanus.....	18	3		4	2	1	1	1	1		
30. Mycoses.....	9	8					1				
31-37. Tuberculosis.....	678	263	41	88	38	22	8	16	35	11	10
31. Tuberculosis of the respiratory system.....	508	191	32	73	26	17	8	10	30	10	8
32. Tuberculosis of the meninges and central nervous system.....	60	24	5	4	2	2		4	2	1	2
33. Tuberculosis of the intestines and peritoneum.....	33	10		5	3				1		
34. Tuberculosis of the vertebral column.....	10	5		1		2			1		
35. Tuberculosis of the joints.....	11	5		1	1						
36. Tuberculosis of other organs.....	19	8	2	1	1			1			
36B. Tuberculosis of the bones (vertebral column excepted).....	2				1			1			
36C. Tuberculosis of the lymphatic system (mesenteric, and retroperitoneal glands excepted).....	2	1		1							
36D. Tuberculosis of the genito-urinary system.....	15	7	2								
37. Disseminated tuberculosis.....	37	20	2	3	5	1		1	1		
37A. Disseminated tuberculosis, acute.....	23	15	1	2	1	1		1			
37B. Disseminated tuberculosis, chronic or unstated.....	14	5	1	1	4				1		
38. Syphilis.....	87	38	10	11	3	4	1	2	3	1	
39. Soft chancre.....	1						1				
40. Gonococcus infection.....	15	12		3							
41. Purulent infection, septicaemia.....	97	24	7	5	7	5	3	3	2		2
42. Other infectious diseases.....	1										
CLASS II.—GENERAL DISEASES NOT INCLUDED IN CLASS I.											
Total.....	2,770	1,202	243	243	167	88	62	63	78	33	48
43-49. Cancer.....	1,908	843	168	158	132	57	46	42	54	22	27
43. Cancer of the buccal cavity.....	48	18	2	7	3	2		1	1		3
44. Cancer of the stomach and liver.....	597	245	62	55	46	14	12	18	19	4	9
45. Cancer of the peritoneum, intestines and rectum.....	365	168	27	32	26	10	4	8	8	4	3
46. Cancer of the female genital organs.....	229	104	23	16	10	12	6	2	5	6	4

TABLE 45—CAUSES OF DEATH FOR

CAUSES OF DEATH	Total	Toronto	Hamilton	Ottawa	London	Windsor	Brantford	Kitchener	Kingston	Sault Ste. Marie	Peterborough
80. Infantile convulsions (under 5 years of age).....	18	3	4	3	2				1	1	
81. Chorea.....	2	1									
82. Neuralgia and neuritis.....	8	4			1	1	1		1		
83. Softening of the brain.....	1				1	1					
84. Other diseases of the nervous system.....	123	59	11	5	9	5	6	2	8	1	1
85. Diseases of the eye and annexa.....	3	1		1	1						
86. Diseases of the ear and of the mastoid process.....	89	44	1	17	7	5	2			1	
86A. Diseases of the ear.....	42	29	1	4	1	2					
86B. Diseases of the mastoid process.....	47	15		13	6	3	2			1	
CLASS IV.—DISEASES OF THE CIRCULATORY SYSTEM.											
Total.....	4,376	1,889	354	369	298	140	109	76	137	53	66
87-90. Diseases of the heart.....	2,560	1,049	218	251	175	76	78	49	66	30	34
87. Pericarditis.....	14	6		1	2			1			
88. Endocarditis and myocarditis (acute).....	72	34	3	6	7	4	4		1		1
88A. Acute endocarditis.....	41	18	2	5	3	3	2		1		1
88B. Acute myocarditis.....	31	16	1	1	4	1	2				
89. Angina pectoris.....	346	154	18	40	20	8	8	2	20	5	5
90. Other diseases of the heart.....	2,128	855	197	204	146	64	66	46	45	25	28
90A. Valvular disease.....	281	128	26	12	13	9	7	7	9	3	4
90B. Fatty degeneration of the heart.....	3	1									
90C. Aortic insufficiency.....	5	3	1	1							
90D. Chronic endocarditis.....	298	129	24	27	13	10	7	2	2	4	2
90E. Chronic myocarditis.....	1,295	531	125	136	89	37	43	32	28	16	15
90F. Others under this title.....	246	63	21	28	31	8	9	5	6	2	7
91. Diseases of the arteries.....	1,672	768	123	106	117	62	30	26	66	23	32
91A. Aneurysm.....	32	25		1	2				1	1	
91B. Arterio-sclerosis.....	1,627	736	122	105	117	60	28	25	65	22	32
91C. Other diseases of the arteries.....	13	7	1	1		1					
92. Embolism and thrombosis (not cerebral).....	113	60	11	6	5	2	1	1	2		
93. Diseases of the veins (varices, haemorrhoids, phlebitis, etc.).....	15	8	1	3					2		
94. Diseases of the lymphatic system (lymphangitis, etc.).....	8	1		2	1				1		
95. Haemorrhage without specified cause.....	2	1		1							
96. Other diseases of the circulatory system.....	6	2	1								
CLASS V.—DISEASES OF THE RESPIRATORY SYSTEM.											
Total.....	1,373	562	153	153	60	42	16	26	29	12	25
97. Diseases of the nasal fossae and their annexa.....	20	11	1	3	1	1					
98. Diseases of the larynx.....	13	4	1	3					1	1	
98A. Laryngismus stridulus.....	2		1								
98B. Laryngitis.....	3	1		1					1		
98C. Croup.....	4	1								1	
98D. Other diseases of the larynx.....	4	2		2							
99. Bronchitis.....	61	32	3	5	1	1		1			2
99A. Bronchitis, acute.....	25	18	1	1							
99B. Bronchitis, chronic.....	24	9	2	3		1					1
99C. Bronchitis, not otherwise defined, under 5 years of age.....	2	1			1						
99D. Bronchitis, not otherwise defined, 5 years or over.....	10	4		1				1			1
100. Broncho-pneumonia (including capillary bronchitis).....	449	191	50	53	19	12	6	7	13	2	9
100A. Broncho-pneumonia.....	444	191	50	51	18	12	6	7	12	2	9
100B. Capillary bronchitis.....	5			2	1				1		
101. Pneumonia.....	649	253	83	72	33	24	7	13	7	9	8
101A. Pneumonia, lobar.....	503	224	59	60	21	17	6	7	5	9	6
101B. Pneumonia, not otherwise defined.....	146	29	24	12	12	7	1	6	2	2	2
102. Pleurisy.....	66	28	4	7	4		1	3	1		
103. Congestion and haemorrhagic infarct of the lung.....	50	12	4	4		1		1	5		6

TABLE 45—CAUSES OF DEATH FOR

CAUSES OF DEATH	Total	Toronto	Hamilton	Ottawa	London	Windsor	Brantford	Kitchener	Kingston	Sault Ste. Marie	Peterborough
CLASS VIII.—THE PUERPERAL STATE.											
Total	242	98	21	23	17	10	4	2	8	5	2
143. Accidents of pregnancy.....	17	11	3			1					
143A. Abortion.....	2	1	1								
143B. Ectopic gestation.....	12	9	1			1					
143C. Others under this title.....	3	1	1								
144. Puerperal haemorrhage.....	21	7	2	5	1	1			1		
145. Other accidents of labour.....	30	12	2		2	2			1		
145A. Caesarean section.....	10	3	1			2			1		
145B. Difficult labour.....	6	4			1						
145C. Other surgical operations and instru- mental delivery.....	3								1		
145D. Uncontrollable vomiting.....	3	3									
145E. Rupture of uterus in labour, etc.....	8	2	1		1						
146. Puerperal septicaemia.....	95	40	8	12	4	3	4	2			1
147. Puerperal phlegmasia alba dolens, puerperal embolism, sudden death in puerperium.....	22	10	2	1	2				4		
148. Puerperal albuminuria and con- vulsions.....	55	18	4	4	8	3			2	5	
149. Following child-birth (not otherwise defined).....	2			1							1
CLASS IX.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.											
Total	115	45	7	13	9	2	4	4	4	1	5
151. Gangrene.....	45	11	3	5	6	1	2	2	3	1	3
152. Furuncle.....	19	13	1	1				1			
153. Acute abscess.....	27	11	1	4	2	1					1
154. Other diseases of the skin and annexa	24	10	2	3	1		2	1	1		1
CLASS X.—DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION.											
Total	60	27	5	5	2	5	1		4		
155. Diseases of the bones (mastoid and tuberculosis excepted).....	44	18	3	4	2	3	1		4		
156. Diseases of the joints (tuberculosis and rheumatism excepted).....	13	8	1	1		2					
158. Other diseases of the organs of loco- motion.....	3	1	1								
CLASS XI.—MALFORMATIONS.											
Total	232	88	13	30	11	16	6	4	3	6	6
159. Congenital malformations (still-births not included).....	232	88	13	30	11	16	6	4	3	6	6
159A. Congenital hydrocephalus.....	24	8	1	5		3	1	2	1	1	
159B. Congenital malformations of the heart.....	79	33	3	10	2	5	1	1		2	3
159C. Others under this title.....	129	47	9	15	9	8	4	1	2	3	3
CLASS XII.—DISEASES OF EARLY INFANCY.											
Total	1,189	466	84	121	45	53	29	26	27	33	21
160. Congenital debility, icterus and sclerema.....	151	45	14	23	6	2	3	2	4	8	
161. Premature birth, injury at birth.....	898	361	62	83	34	45	24	22	22	22	17
161A. Premature birth.....	745	301	54	72	29	37	17	19	20	19	13
161B. Injury at birth.....	153	60	8	11	5	8	7	3	2	3	4

TABLE 45—CAUSES OF DEATH FOR

CAUSES OF DEATH	Total	Toronto	Hamilton	Ottawa	London	Windsor	Brantford	Kitchener	Kingston	Sault Ste. Marie	Peterborough
162. Other diseases peculiar to early infancy.....	139	60	7	15	5	6	2	2	1	3	4
162A. Specified diseases.....	139	60	7	15	5	6	2	2	1	3	4
163. Lack of care.....	1		1								
CLASS XIII.—OLD AGE.											
Total	180	44	11	19	10	1	9	2	3	5	15
164. Senility.....	180	44	11	19	10	1	9	2	3	5	15
CLASS XIV.—EXTERNAL CAUSES.											
Total	1,210	389	142	110	64	44	23	30	28	21	15
165-174. Suicides.....	195	89	22	6	7	7	7	3	4	3	5
165. Suicide by solid or liquid poisons (corrosive substances excepted).....	16	9	1		3						
166. Suicide by corrosive substances.....	43	13	7	2	1	1	2	1	1	1	2
167. Suicide by poisonous gas.....	31	24	1			1	3	1			
168. Suicide by hanging or strangulation.....	29	11	4		1	4	1				1
169. Suicide by drowning.....	20	10	4						1		
170. Suicide by firearms.....	31	10	4	3	1	1	1	1	1	1	1
171. Suicide by cutting or piercing instruments.....	13	3	1	1	1				1	1	1
172. Suicide by jumping from high places.....	9	8									
173. Suicide by crushing.....	2										
174. Other suicides.....	1	1									
175. Poisoning by food.....	3	2									
176. Poisoning by venomous animals.....	2		1								
177. Other acute accidental poisonings (gas excepted).....	16	9	1	3		1				1	
178. Conflagration.....	13	1		1			1		1	3	
179. Accidental burns and scalds (conflagration excepted).....	63	22	6	10	2	2	1		1	2	1
180. Accidental mechanical suffocation.....	7	2			2	1					
180B. Asphyxia.....	8	2			2	1					
181. Accidental absorption of irrespirable or poisonous gas.....	32	16	4	1	3			5			
182. Accidental drowning.....	52	13	6	6		2			1	1	
183. Accidental traumatism by firearms.....	22	4	4					2		3	
184. Accidental traumatism by cutting or piercing instruments.....	1	1									
185. Accidental traumatism by fall.....	238	87	23	29	19	8	3	2	4		2
186. Accidental traumatism in mines and quarries.....	4	1	2								
186B. Other mines.....	3	1	2								
186C. Quarries.....	1										
187. Accidental traumatism by machines.....	25	6	5	1	2		2			2	1
188. Accidental traumatism by other crushing (vehicles, railways, land-slides, etc.).....	403	97	53	34	25	18	7	13	12	4	5
188A. Railroad accidents.....	61	12	8	2	5		3		1	2	
188B. Street car accidents.....	15	9		2		2		1			
188C. Automobile accidents.....	276	67	41	24	18	15	2	11	7		5
188D. Aeroplane and balloon accidents.....	2	1									
188E. Injuries by other vehicles.....	18	3	2	3	1	1	1		1		
188F. Other crushing.....	31	5	2	3	1	1	1	1	3	2	
189. Injuries by animals (poisoning excepted).....	6	1		3			1				
192. Starvation (deprivation of food or water).....	3	1						1			
193. Excessive cold.....	2			1							1
194. Excessive heat.....	10	3	1	1	2	1		1			
196. Other accidental electric shocks.....	16	3	4	3		2					
197-199. Homicides.....	33	15	4	3		2		1	1	1	
197. Homicide by firearms.....	6	4	2								
198. Homicide by cutting or piercing instruments.....	5	2				1					
199. Homicide by other means.....	22	9	2	3		1		1	1	1	
201. Fracture (cause not specified).....	25	2	3	3	2			2	2		
202. Other external violence (cause specified).....	40	14	3	5			1		2	1	

CITIES—ONTARIO, 1930—Continued

Fort William	St. Catharines	Guelph	Stratford	St. Thomas	Port Arthur	Sarnia	Niagara Falls	Chatham	Galt	Belleville	Owen Sound	Oshawa	North Bay	Woodstock	Welland	Sudbury	East Windsor
2	6	1	2	2	2	4	1	2	1	2	1	2	2	1	1	3	2
2	6	1	2	2	2	4	1	2	1	2	1	2	2	1	1	3	162
																	162A
																	163
2	4	4	6	2	8	4	5	6	1	9	3	1	3	1	2		
2	4	4	6	2	8	4	5	6	1	9	3	1	3	1	2		164
31	28	17	21	14	21	15	22	26	19	23	12	19	11	8	18	37	3
4	5	3	4	3	4	1	2	2	3	3	1	2	1	3	1	2	165-
																	174
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	165
		2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	166
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	167
																	168
																	169
																	170
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	171
																	172
																	173
																	174
																	175
																	176
																	177
																	178
2	1	2	2	3	1	1	1	1	2	2	2	2	2	2	2	2	179
																	180
																	180B
																	181
9	1	1	1	3	1	2	3	3	1	2	1	1	1	1	1	1	182
1				1	1	1	1	1	1	1	1	1	1	1	1	1	183
																	184
3	4	5	6	4	3	2	5	5	6	3	3	4	1	4	3	3	185
	1																186
																	186B
																	186C
1																	187
7	13	6	4	6	8	4	9	11	8	9	4	8	6	7	6	19	188
6	1	1	1	3	1	1	9	11	3	9	4	2	3	1	1	6	188A
																	188B
	13	5	4	5	2	3	9	10	4	8	3	4	3	5	3	5	188C
																	188D
																	188E
1					2			1	1	1	1	2			2	2	188F
1																	189
																	192
																	193
																	194
																	196
1																	197-
																	199
																	197
																	198
1																	199
	3	2		1		1	1	2			1		1				201
2		1	1			1	1	1		2					1	4	202

TABLE 45—CAUSES OF DEATH FOR

CAUSES OF DEATH	Total	Toronto	Hamilton	Ottawa	London	Windsor	Brantford	Kitchener	Kingston	Sault Ste. Marie	Peterborough
CLASS XV.—ILL-DEFINED DISEASES.											
Total	29	5	1	7	2	1	.....	.....	.....	1	1
204. Sudden death.....	7	1	.....	3	.....	.....	.....	.....	.....	.....	.....
205. Cause of death not specified or ill- defined.....	22	4	1	4	2	1	.....	.....	.....	1	1
205A. Ill-defined.....	3	.....	.....	1	.....	.....	.....	.....	.....	.....	1
205B. Not specified or unknown.....	5	.....	.....	2	.....	.....	.....	.....	.....	1	.....
205C. Heart failure.....	14	4	1	1	2	1	.....	.....	.....	.....	.....

TABLE 45A—CAUSES OF DEATH FOR TOWNS

CAUSES OF DEATH	Total	Barrie	Brampton	Brockville	Cobourg	Collingwood	Cornwall	Dundas	Eastview	Fort Frances	Hawkesbury
CLASS V.—DISEASES OF THE RESPIRATORY SYSTEM.											
Total	244	9	4	16	18	3	20	7	9	3	12
97. Diseases of the nasal fossae and their annexa.....	2										
98. Diseases of the larynx.....	7			1				1	1	1	2
98B. Laryngitis.....	2			1				1			
98C. Croup.....	5								1	1	2
99. Bronchitis.....	12	1			1		1	1	1		
99A. Bronchitis, acute.....	5	1					1	1	1		
99B. Bronchitis, chronic.....	3							1			
99C. Bronchitis, not otherwise defined, under 5 years of age.....	1										
99D. Bronchitis, not otherwise defined, 5 years or over.....	3				1						
100. Broncho-pneumonia (including capillary bronchitis).....	66		2	5	2	1	4	1	2	1	4
100A. Broncho-pneumonia.....	65		2	5	2	1	4	1	2	1	4
100B. Capillary bronchitis.....	1										
101. Pneumonia.....	127	7	2	7	13	2	12	3	5		4
101A. Pneumonia, lobar.....	77	5	1	3	11		6	2	1		2
101B. Pneumonia, not otherwise defined.....	50	2	1	4	2	2	6	1	4		2
102. Pleurisy.....	7				1						
103. Congestion and haemorrhagic infarct of the lung.....	14	1		2	1			1			2
104. Gangrene of the lung.....	1						1				
105. Asthma.....	3						2				
107. Other diseases of the respiratory system (tuberculosis excepted).....	5			1						1	
107A. Chronic interstitial pneumonia, including occupational diseases of the lungs.....	1										
107C. Others under this title.....	4			1							
CLASS VI.—DISEASES OF THE DIGESTIVE SYSTEM.											
Total	306	11	5	21	9	13	24	5	8	13	12
108. Diseases of the mouth and annexa.....	3										
109. Diseases of the pharynx and tonsils (including adenoid vegetations).....	15		1								1
109B. Pharynx and tonsils.....	15		1	1							1
111. Ulcer of the stomach and duodenum.....	16				1	2	1				
111A. Ulcer of the stomach.....	8				1		1				
111B. Ulcer of the duodenum.....	8					2					
112. Other diseases of the stomach (cancer excepted).....	12	2	1	1							1
113. Diarrhoea and enteritis (under 2 years of age).....	88			2	2	1	8		6	7	4
114. Diarrhoea and enteritis (2 years or over).....	24	1	1	1	1	2	3	1		1	
117. Appendicitis and typhlitis.....	58	3		7		4	7			3	4
118. Hernia, intestinal obstruction.....	36	2	2	6	2	1	4				1
118A. Hernia.....	12	1		1			2				
118B. Intestinal obstruction.....	24	1	2	5	2	1	2				1
119. Other diseases of the intestines.....	6					2		1			
120. Acute yellow atrophy of the liver.....	1	1									
122. Cirrhosis of the liver.....	6			1			1		1		
122B. Not specified as alcoholic.....	6			1			1		1		
123. Biliary calculi.....	15	1		2		1			1		1
124. Other diseases of the liver.....	19	1			2			2			
125. Diseases of the pancreas.....	1										
126. Peritonitis without specified cause.....	5				1					1	
CLASS VII.—NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.											
Total	178	11	7	15	5	15	19	2	1	3	7
128. Acute nephritis (including unspecified, under 10 years of age).....	7	1				2	1				
129. Chronic nephritis (Bright's disease).....	112	6	5	12	3	6	15	1		2	3
131. Other diseases of the kidneys and annexa.....	13			1	1	1	1			1	1
132. Calculi of the urinary passages.....	6	1							1		
133. Diseases of the bladder.....	4	1			1	1					
134. Diseases of the urethra, urinary abscess, etc.....	1										
134A. Stricture of the urethra.....	1					1					
135. Diseases of the prostate.....	23	1	1			1	2	1			2
137. Cysts and other benign tumours of the ovary.....	2	1									
138. Salpingitis and pelvic abscess.....	2					1					
139. Benign tumours of the uterus.....	1			1							
141. Other diseases of the female genital organs.....	7		1	1		2					

TABLE 45A—CAUSES OF DEATH FOR TOWNS

CAUSES OF DEATH	Total	Barrie	Brampton	Brockville	Cobourg	Collingwood	Cornwall	Dundas	Eastview	Fort Frances	Hawkesbury
CLASS VIII.—THE PUERPERAL STATE.											
Total	37	4	2	2			4	1	1		1
143. Accidents of pregnancy.....	2										1
143C. Others under this title.....	1										1
143D. Abortion, self-induced.....	1										
144. Puerperal haemorrhage.....	2			1				1			
145. Other accidents of labour.....	2						2				
145A. Caesarean section.....	1						1				
145D. Uncontrollable vomiting.....	1						1				
146. Puerperal septicaemia.....	15	1					1		1		
147. Puerperal phlegmasia alba dolens, puerperal embolism, sudden death in puerperium.....	3	1	1								
148. Puerperal albuminuria and convulsions.....	13	2	1	1			1				
CLASS IX.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.											
Total	17	2	1	2		2	3				
151. Gangrene.....	8	1		1		1					
152. Furuncle.....	3	1	1				1				
153. Acute abscess.....	4			1		1	2				
154. Other diseases of the skin and annexa.....	2										
CLASS X.—DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION.											
Total	9					1	2				
155. Diseases of the bones (mastoid and tuberculosis ex- cepted).....	6						2				
156. Diseases of the joints (tuberculosis and rheumatism excepted).....	3					1					
CLASS XI.—MALFORMATIONS.											
Total	49			1			6	1	2	3	1
159. Congenital malformations (still-births not included).....	49			1			6	1	2	3	1
159A. Congenital hydrocephalus.....	3										1
159B. Congenital malformations of the heart.....	26			1			3	1		2	
159C. Others under this title.....	20						3		2	1	
CLASS XII.—DISEASES OF EARLY INFANCY.											
Total	231	6	7	12	7	11	15	1	6	5	11
160. Congenital debility, icterus and sclerema.....	43	2		2	3			1		1	8
161. Premature birth, injury at birth.....	170	4	7	8	4	9	14		3	4	3
161A. Premature birth.....	139	3	5	7	2	8	12		3	1	3
161B. Injury at birth.....	31	1	2	1	2	1	2				3
162. Other diseases peculiar to early infancy.....	17			2		1	1		3		
162A. Specified diseases.....	17			2		1	1		3		
163. Lack of care.....	1					1					
CLASS XIII.—OLD AGE.											
Total	52	8	3	1	1	5	1	2	1	1	
164. Senility.....	52	8	3	1	1	5	1	2	1	1	

TABLE 45A—CAUSES OF DEATH FOR TOWNS

CAUSES OF DEATH	Total	Barrie	Brampton	Brockville	Cobourg	Collingwood	Cornwall	Dundas	Eastview	Fort Frances	Hawkesbury
CLASS XIV.—EXTERNAL CAUSES.											
Total	186	8	7	11	11	3	19	1	....	4	5
165-174. Suicides.....	19	1	1	1	2	....	3	....	....	1	....
165. Suicide by solid or liquid poisons (corrosive substances excepted).....	3	....	....	....	....	....	1	....	....	....	....
166. Suicide by corrosive substances.....	4	....	1	....	1	....	....	....	....	....	....
167. Suicide by poisonous gas.....	1	....	....	....	....	....	....	....	....	....	....
169. Suicide by drowning.....	1	....	....	....	....	....	....	....	....	....	....
170. Suicide by firearms.....	3	1	....	....	....	....	....	....	....	1	....
171. Suicide by cutting or piercing instruments.....	6	....	....	....	1	....	2	....	....	....	....
172. Suicide by jumping from high places.....	1	....	....	1	....	....	....	....	....	....	....
178. Conflagration.....	1	....	....	....	....	....	1	....	....	....	....
179. Accidental burns and scalds (conflagration excepted).....	12	....	....	....	1	....	1	....	....	....	....
180. Accidental mechanical suffocation.....	2	....	....	....	....	1	....	....	....	....	....
180A. Overlaying.....	1	....	....	....	....	1	....	....	....	....	....
180B. Asphyxia.....	1	....	....	....	....	....	....	....	....	....	....
182. Accidental drowning.....	23	....	....	1	....	1	1	....	....	1	2
183. Accidental traumatism by firearms.....	3	....	....	....	....	....	....	....	....	....	....
185. Accidental traumatism by fall.....	34	2	....	3	3	1	3	....	....	....	....
186. Accidental traumatism in mines and quarries.....	4	....	....	....	....	....	....	....	....	....	....
186B. Other mines.....	4	....	....	....	....	....	....	....	....	....	....
187. Accidental traumatism by machines.....	9	4	....	....	....	....	1	....	....	....	1
188. Accidental traumatism by other crushing (vehicles, railways, landslides, etc.).....	60	....	3	6	2	....	7	1	....	1	3
188A. Railroad accidents.....	8	....	....	1	....	....	1	....	....	....	....
188C. Automobile accidents.....	41	3	3	3	2	....	4	1	....	....	1
188D. Aeroplane and balloon accidents.....	1	....	....	....	....	....	1	....	....	....	....
188E. Injuries by other vehicles.....	6	....	....	2	....	....	....	....	....	....	1
188F. Other crushing.....	6	....	....	....	....	1	....	....	....	1	1
189. Injuries by animals (poisoning excepted).....	1	....	....	....	....	....	....	....	....	1	....
193. Excessive cold.....	2	....	....	....	1	....	....	....	....	....	....
196. Other accidental electric shocks.....	4	1	1	....	....	....	....	....	....	....	....
197-199. Homicides.....	2	....	....	....	....	....	1	....	....	....	....
197. Homicide by firearms.....	1	....	....	....	....	....	....	....	....	....	....
199. Homicide by other means.....	1	....	....	....	....	....	1	....	....	....	....
201. Fracture (cause not specified).....	8	....	1	....	2	....	1	....	....	....	....
202. Other external violence (cause specified).....	2	....	....	....	....	....	....	....	....	....	....
CLASS XV.—ILL-DEFINED DISEASES.											
Total	6	1	....	....	....	....	3	....	....	....	1
204. Sudden death.....	1	....	....	....	....	....	....	....	....	....	1
205. Cause of death not specified or ill-defined.....	5	1	....	....	....	....	3	....	....	....	....
205C. Heart failure.....	5	1	....	....	....	....	3	....	....	....	....

Table 46—Maternal Mortality, Ontario, 1930

Cities and Towns 5,000 Population and Over	Total		Institutional		Non-Institutional	
	Living births	Deaths from puerperal causes	Living births	Deaths from puerperal causes	Living births	Deaths from puerperal causes
Belleville.....	395	.....	282	.....	113	.....
Brantford.....	732	4	496	4	236	.....
Chatham.....	565	3	377	3	188	.....
East Windsor.....	372	1	.....	.....	372	1
Fort William.....	623	3	339	2	284	1
Galt.....	311	4	182	4	129	.....
Guelph.....	409	2	217	1	192	1
Hamilton.....	3,394	21	1,752	19	1,642	2
Kingston.....	659	8	473	8	186	.....
Kitchener.....	829	2	416	2	413	.....
London.....	1,485	17	1,076	15	409	2
Niagara Falls.....	438	2	189	2	249	.....
North Bay.....	417	3	98	2	319	1
Oshawa.....	686	5	301	4	385	1
Ottawa.....	3,028	23	2,035	22	993	1
Owen Sound.....	313	1	177	1	136	.....
Peterborough.....	639	2	533	2	106	.....
Port Arthur.....	564	5	369	5	195	.....
St. Catharines.....	671	3	410	2	261	1
St. Thomas.....	322	.....	237	.....	85	.....
Sarnia.....	450	2	276	2	174	.....
Sault Ste. Marie.....	642	5	209	2	433	3
Stratford.....	406	2	234	2	172	.....
Sudbury.....	720	8	262	8	458	.....
Toronto.....	13,591	98	8,273	83	5,318	15
Welland.....	298	6	112	5	186	1
Windsor.....	1,510	10	598	9	912	1
Woodstock.....	272	2	167	2	105	.....
Barrie.....	201	4	97	4	104	.....
Brampton.....	178	2	118	1	60	1
Brockville.....	270	2	238	2	32	.....
Cobourg.....	148	.....	76	.....	72	.....
Collingwood.....	144	.....	69	.....	75	.....
Cornwall.....	482	4	293	4	189	.....
Dundas.....	85	1	37	.....	48	1
Eastview.....	212	.....	.....	.....	212	.....
Fort Francis.....	171	.....	26	.....	145	.....
Hawkesbury.....	190	1	26	1	164	.....
Ingersoll.....	139	.....	75	.....	64	.....
Kenora.....	168	.....	113	.....	55	.....
Leamington.....	88	.....	13	.....	75	.....
Lindsay.....	208	1	126	1	82	.....
Midland.....	181	2	91	2	90	.....
Mimico.....	162	.....	63	.....	99	.....
New Toronto.....	157	.....	35	.....	122	.....
Orillia.....	250	2	147	2	103	.....
Pembroke.....	328	4	130	4	198	.....
Port Colborne.....	197	.....	14	.....	183	.....
Preston.....	93	1	1	.....	92	1
Renfrew.....	142	2	73	2	69	.....
Smith's Falls.....	185	1	114	1	71	.....
Timmins.....	506	4	61	4	445	.....
Trenton.....	142	.....	3	.....	139	.....
Walkerville.....	661	4	575	4	86	.....
Waterloo.....	121	.....	1	.....	120	.....
Whitby.....	45	.....	6	.....	39	.....
Sandwich.....	196	1	.....	.....	196	1
Thorold.....	92	.....	9	.....	83	.....
Total, cities and towns of 5,000 and over.....	40,883	279	22,720	243	18,163	36
Remainder of Province.....	30,380	161	3,690	50	26,690	111
Grand Total.....	71,263	440	26,410	293	44,853	147

CAUSES

1. Typhoid an
 6. Smallpox. . .
 7. Measles. . .
 8. Scarlet fev
 9. Whooping-
 10. Diphtheria
 11. Influenza. .
 13. Mumps. . .
 22. Acute anter
 23. Lethargic ei
 - 25A. Chicken-pox
 - 25B. German me.
 29. Tetanus. . . .
-
- 31-37. Tuberculosis
-
38. Syphilis. . . .
 39. Soft chancre
 40. Gonococcus i
 60. Diseases of t
 99. Bronchitis. . .
 - 100-101. Pneumonia. . .
 102. Pleurisy. . . .
 146. Puerperal sep
 24. Meningococci
-

DEPARTMENT OF HEALTH

Sixth Annual Report

OF THE

Department of Health

ONTARIO, CANADA

FOR THE YEAR

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



ONTARIO

TORONTO

Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty
1931

TO HIS HONOUR WILLIAM DONALD ROSS, ESQUIRE,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I herewith beg to present for your consideration the Sixth Annual Report of the Department of Health for the year 1930.

Respectfully submitted,

JOHN M. ROBB,
Minister of Health.

Toronto, March 26th, 1931.

TO THE HONOURABLE JOHN M. ROBB, M.D.,
Minister of Health.

SIR,—I have the honour to submit for your approval the Sixth Annual Report of the Department of Health, made in conformity with and under the provisions of The Public Health Act, for the year 1930.

I have the honour to be, Sir,

Your obedient servant,

W. J. BELL,
Deputy Minister of Health.

Toronto, March 26th, 1931.

DEPARTMENT OF HEALTH

Minister

HONOURABLE JOHN M. ROBB, M.D

Deputy Minister

W. J. BELL, M.B.

John W. S. McCullough, M.D., C.M., D.P.H.....Chief Inspector of Health

District Officers of Health

District: No. 1 Thos. J. McNally, M.D., C.M., D.P.H.....London
No. 2 J. J. Fraser, M.D., D.S.O.....Guelph
No. 3 Daniel A. McClenahan, M.D., C.M., D.P.H.....Hamilton
No. 4 N. H. Sutton, M.B., D.P.H.....Peterboro
No. 5 Paul J. Moloney, M.D., C.M.....Ottawa
No. 6 W. Egerton George, M.D., D.P.H.....North Bay
No. 7 G. L. Sparks, M.D., D.P.H.....Fort William
No. 8 Hugh W. Johnston, M.D.....Sault Ste. Marie

Sanitary Engineering Branch

A. E. Berry, M.A.Sc., C.E., Ph.D.....Director
A. V. Delaporte, B.A.Sc., Chem. E., F.C.I.C.....Chemist in Charge of Experimental Station
O. V. Ball, B.A., Sc.....Assistant Sanitary Engineer
G. A. H. Burn, B.A.Sc.....Assistant Sanitary Engineer
E. W. Johnston, B.A.Sc.....Assistant Sanitary Engineer
A. T. Byram, B.A.Sc.....Assistant Sanitary Engineer

Preventable Diseases Branch

A. L. McKay, B.A., M.B.....Director and Epidemiologist
G. C. Brink, M.B.....Clinical Specialist
D. G. Wilson, M.B.....Clinical Specialist
R. P. Hardman, M.D.....Associate Epidemiologist
Agnes Haygarth, Reg. N.....Social Service Nurse

Child Hygiene Branch

John T. Phair, M.B., D.P.H.....Director
Ella J. Jamieson, Reg. N.....Chief School Nurse

Laboratories Branch

Andrew MacNab, B.V.Sc.....	Director
A. H. Bonham, B.A.Sc., F.C.I.C.....	Chemist

Branch Laboratories

A. J. Slack, Ph.C., M.D., D.P.H., Acting Director.....	London
James Miller, M.D., F.R.C.S. (Edin.), Director.....	Kingston
J. W. Bell, M.B., Director.....	Fort William
N. F. W. Graham, M.B., Director.....	Sault Ste. Marie
W. A. R. Michell, M.B., D.P.H., Director.....	North Bay
G. B. Waite, M.D., Director.....	Peterboro
J. L. Letts, M.B., D.P.H., Director.....	Ottawa

Industrial Hygiene Branch

J. G. Cunningham, B.A., M.B., D.P.H.....	Director
A. R. Riddell, B.A., M.B., D.P.H.....	Clinical Specialist
F. M. R. Bulmer, M.B., B.Sc., Med.....	Special Research
H. E. Rothwell, B.A.Sc., F.C.I.C.....	Chemist
W. C. Millar.....	Chief Sanitary Inspector

Sanitary Inspectors

D. McKee.....	Sudbury
J. Richardson.....	North Bay
John Sime.....	Fort William
R. B. McCauley.....	Sault Ste. Marie
Hugh McIntyre, A. R. San. I.....	Cochrane
A. S. O'Hara, A. R. San. I.....	Sioux Lookout

Dental Services Branch

F. J. Conboy, D.D.S.....	Director
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Vital Statistics Branch

S. J. Manchester.....	Director
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Nurse Registration Branch

A. M. Muhn, Reg. N.....	Inspector of Training Schools for Nurses
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Public Health Education Branch

Mary Power, B.A.....	Director
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Exhibits and Films

E. H. Jones.....	In Charge
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Honorary Consultants

Public Health Administration.....	J. G. Fitzgerald, M.D., F.R.S.C.
Pediatrics.....	Alan Brown, B.A., M.B.
Obstetrics.....	Wm. B. Hendry, M.D., D.S.O.
Dental Services.....	Harold Keith Box, D.D.S.

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ANNUAL REPORT
OF THE
Department of Health
of the Province of Ontario
For the Year Ending December 31st, 1930

A RESUMÉ OF THE DEPARTMENT OF HEALTH
DURING THE YEAR 1930

Legislation passed in the 1930 Session of the Legislature consisted of "An Act to amend The Public Health Act," as follows:

AN ACT TO AMEND THE PUBLIC HEALTH ACT
(Assented to 3rd April, 1930)

His Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario enacts as follows:

1. This Act may be cited as *The Public Health Act, 1930*.
2. Section 12 of *The Public Health Act* is amended by adding thereto the following subsection:
 - (5) One or more members of the council may be appointed to be members of the local board.
3. *The Public Health Act* is amended by adding thereto the following section:

REGULATION AND LICENSING OF BARBER SHOPS AND
HAIRDRESSING ESTABLISHMENTS.

87a.—(1) The council of any city, town or township bordering on a city having a population of not less than 100,000 may pass by-laws for regulating the operation of barber shops and hairdressing establishments, and for licensing the owners of such shops and hairdressing establishments, and for revoking the license upon breach of any regulation imposed by the by-law.

(2) This section shall not apply to any hairdressing establishment where less than three persons are employed.

(3) The said by-law shall not take effect until approved in writing by the Department, and when so approved shall be in force notwithstanding any provision of this Act or other regulation imposed under authority of this Act to the contrary.

4. This Act shall come into force on the day upon which it receives the Royal Assent.

Regulations passed during the year included the following:

1. An amendment to the Regulations governing the sale of milk and cream, being Regulations made pursuant to The Public Health Act of 1927, applicable to municipalities on the declaration of the Department of Health, and approved by His Honour the Lieutenant-Governor in Council on the 12th day of April, 1927, as follows:

“Upon the recommendation of the Honourable the Minister of Health, the Committee of Council advise that the words “on and after the 31st day of May, 1927,” and the word “or” be deleted from, and the words “or deliver” be inserted in the Regulations Governing the Sale of Milk and Cream, so that the Regulation will now read:

Inasmuch as unpasteurized milk or cream is or may be prejudicial to public health, it is hereby ordained that it shall be unlawful for any person, firm or corporation to sell, hold for sale, offer for sale or deliver for human consumption, any milk or cream that has not been scientifically pasteurized, or any product of milk or cream, such as ice cream, butter, etc., that has been made with milk or cream, or milk and cream that has not been scientifically pasteurized to the satisfaction of the Medical Officer of Health.

This Regulation shall come into effect on the first day of February, 1931.”

The above Order-in-Council was passed on the 20th day of January, 1931.

2. A Regulation respecting the conduct of Training Schools for Nurses, made pursuant to The Registration of Nurses Act, 1922, and approved by His Honour the Lieutenant-Governor in Council on the 17th day of February, 1931, as follows: “Upon the recommendation of the Honourable the Minister of Health, the Committee of Council advise that the Regulations for the Conduct of Training Schools for Nurses, made pursuant to The Registration of Nurses Act, 1922, with special reference to the regulation respecting the Minimum Length of Time to be Spent on Hospital Services be amended to read as follows:

“Medical Nursing.....	3 months
Surgical Nursing.....	3 months
Obstetric Nursing.....	2 months
(including assistance at delivery of ten cases)	
Diet Kitchen.....	1 month
Operating Room.....	2 months
Holidays.....	1 month (compulsory)

The following services to be made compulsory where and when possible and to be at the discretion of the Council of Nurse Education:

- Nursing of Children.
- Contagious Nursing.
- Mental Nursing.
- Tuberculosis Nursing.”

3. Regulations respecting the Manufacture of Wine, made pursuant to section 6 of *The Public Health Act*, and approved by His Honour the Lieutenant-Governor in Council on the 17th day of December, 1930, as follows:

1. IN THESE REGULATIONS:

- (a) "Wine Manufacturer" shall mean and include a manufacturer of wine and a manufacturer of native wine who holds a Native Wine License from the Liquor Control Board.
- (b) "Wine" shall mean, wine and native wine as defined by the Liquor Control Act (Ontario) and any blends of native wine.
- (c) "Minister" shall mean the Minister of Health of Ontario.
- (d) "Department of Health" shall mean the Department of Health of Ontario.
- (e) "Inspector" shall mean a person authorized by the Department of Health to inspect the plant, premises, equipment and products of wine manufacturers.

2. An inspector at any time may enter and inspect the plant and premises of any wine manufacturer and may seize for purposes of proof or for analysis, samples of native wine, fruit or other material found therein or thereon.

3. Where deemed necessary the Minister may issue an order to a wine manufacturer requiring him or her to:

- (a) Make certain alterations to the plant or premises.
- (b) Alter, procure or dispense with any wine making equipment or material.
- (c) Cleanse, disinfect, ventilate or otherwise improve the sanitary conditions of the plant, premises and wine making equipment.
- (d) Blend, further age or otherwise improve any wine which is in the course of manufacture, or which is being sold or about to be offered for sale.

4. Where a wine manufacturer makes an alteration or makes an addition to any building used in connection with the manufacture of wine, or where a new building is to be constructed for the same purpose, the plans and specifications must first be approved by The Department of Health.

5. An Inspector may order a wine manufacturer to remove from the premises any marc, pomace or fruit which he deems either as unfit to be used for the manufacture of wine or as producing or is likely to produce an unsanitary condition.

6. Where deemed necessary an Inspector may issue a written order restraining a wine manufacturer from selling, offering for sale, using for blending purposes or otherwise utilizing the wine, whether it be in the finished state or in the course of manufacture, and such order shall remain in force until released or otherwise disposed of by the Minister.

7. The sanitary conditions of a plant and premises of a wine manufacturer as well as the arrangements for both the washing and the filling of the bottles, shall be approved by the Minister.

8. New bottles and other containers shall be free from fine particles of glass, dust or other substances and all bottles, whether new or old, shall be thoroughly washed before using.

9. Wine which is packaged for sale to the public must be contained in transparent glass containers.

10. Each barrel, cask, vat or other container used by the wine manufacturer for the storage of wine shall be given an individual number.

11. All wine shall be so manufactured that when finished and ready for sale, it shall conform with the following requirements:

- (a) It shall be of satisfactory colour and the odour, flavour and bouquet shall be natural and pleasing. It must be free from an excessive amount of sediment or turbidity as well as the presence of foreign matter or artificial flavour of any kind.
- (b) It shall conform with the Regulations under the Food and Drugs Act (Dominion).
- (c) The content of volatile acids, in terms of acetic acid, shall not exceed 0.20 per cent.
- (d) If designated as "dry" wine, the sugar content shall not exceed 1.0 per cent.
- (e) If carbon dioxide has been added, it shall have printed on the label in easily legible type the word "Carbonated".
- (f) If designated as Port or Port Type, Sherry or Sherry Type, it shall contain not less than 14.0 per cent. of alcohol by volume and not more than 10.0 per cent. of sugar.
- (g) If designated as Claret or Claret Type, the content of alcohol shall not exceed 13.0 per cent. by volume and the total amount of sugar present shall not be in excess of 1.0 per cent.

12. The Inspector shall furnish such information and make such reports as may be from time to time required by the Minister.

13. The word "wines" in the Regulations of The Department of Health, dated 1924, and being Regulations respecting the manufacture of non-intoxicating beverages, distilled and mineral water and the manufacture of syrup, wines and brewed beer, is hereby repealed.

4. Regulations respecting grants for Public Dental Services, approved by His Honour the Lieutenant-Governor in Council on the 23rd day of December, 1930, as follows:

The undersigned has the honour to present the report of the Special Committee appointed to advise in regard to grants for Public Dental Services.

The Committee recommends:

1. That for the time being, grants be restricted to services for school age and pre-school age children.

2. That before a request can be considered the municipality or School Board must supply the following:

- (a) A public health nurse whose duties in connection with this programme will be:

- (1) Educational, including work in the school and in the home.
- (2) The assistance needed in the proper working out of whatever clinical service is established for the community.

Note.—The public health nurse here referred to may be either an employee of the Board of Education, or the local Board of Health, or she may be supplied for this particular purpose by any other organization. It is of course to be understood that the nurse must be properly qualified. No grant will be recommended where only part time nursing service is provided.

- (b) Such full time or part time professional dental service as may be deemed necessary by the Director of Dental Services for the community in question.
- (c) Such quarters and accommodation as may be considered satisfactory by the Director of Dental Services.
- (d) Such adequate dental equipment for clinical service or for supervisory or survey service, as is deemed necessary by the Director of Dental Services. This equipment may be either the property of the community or of the dentists engaged in the work.
- (e) A periodic check-up on both the educational and clinical services by the dentists engaged in the work, to determine accurately the effectiveness and benefits of the service given.
- (f) A quarterly report to the Director of Dental Services, showing the work done during that period.

3. The following conditions are recommended in regard to the giving of these grants:

That in considering applications for grants for a school dental service, the Department first ascertain if any type of medical and dental service is in existence at the present time, and, secondly, how long such service has been in existence. In the third place, the Department will ascertain if these services were inaugurated prior to the institution of the present regulations governing medical and dental services in public and separate schools, and if the administration is still under the control and direction of the School Board, the Department regard the introduction of the present service with such grants as may be provided as an aid by the Department to the School Board or Boards in providing dental treatment for school children in the section or sections involved. If on the other hand, medical and dental services were not instituted prior to the regulation referred to above, that the Department regard the institution of a dental service for the school children as being a service to the municipality, and the grants will be paid to the municipality. The municipality will be responsible for furnishing the requirements as set forth in the memorandum.

That in order to qualify for the grants scheduled in this memorandum, a municipality of over 20,000 must comply with the requirements here set forth and provide equipment satisfactory to the Director of Dental Services. Municipalities under 20,000 shall comply with the requirements set forth in the memorandum, but in lieu of providing an equipment may arrange with such dentists practising in the municipality, or in an adjacent municipality as they may decide, and on a part time basis, the dentists to furnish equipment and supplies

as required for the treatment of the cases sent to him. The dentist is to receive an honorarium on the basis of \$10.00 for three consecutive hours, and for a less time in proportion. The dentists in this service whether engaged on a full time basis, the municipality furnishing equipment and supplies, or on a part time basis with the municipality furnishing equipment and supplies, or on a part time basis the dentist furnishing equipment and supplies shall prepare a monthly report in triplicate, indicating the persons to whom service was given, the service rendered to each, and the time consumed, in detail, one copy to be sent to the municipality, the School Board or Boards, as the case may be, one copy to the Ontario Department of Health, and a third copy to be retained by the dentist. The Department shall pay to the municipality or the School Board or Boards, the amount due the municipality or School Board or Boards, quarterly, based on a statement of expenditure by the municipality or School Board or Boards, and the dentist's report of service rendered and time occupied in the work. The municipality or School Board or Boards shall pay the dentist engaged on such part time basis, quarterly, for the services rendered.

4. The Committee recommends that in case a municipality or School Board complies with the above requisites, that grants be given as follows:

Municipalities with a population of over 20,000 to receive an annual grant of $7\frac{1}{2}\%$ of the cost of the service.

Municipalities with a population of from 5,000 to 20,000 to receive an annual grant of 20% of the cost of the service.

Municipalities with a population of from 1,000 to 5,000 to receive an annual grant of 25% of the cost of the service.

Township Municipalities, irrespective of population, will receive an annual grant of at least 25% of the cost of the service. Township municipalities may unite for the purpose of establishing a dental service, and in such cases, the total grant given to the combined municipalities will be 25% of the cost of the service.

Municipalities under 1,000 to receive an annual grant ranging from 25% to 35% of the cost of the service, depending upon local conditions, and whether the municipality is rural, semi-urban or small urban.

Rural and small urban municipalities may unite for the purpose of establishing a dental service, but all such arrangements must be subject to the approval of the Director of Dental Services, the annual grant in such cases will be 25% of the cost of the service. In determining the cost of a service, the initial expenses required for the purchase and installation of equipment should be capitalized over a period of ten years.

In no case shall the grant given to any municipality be greater than One Thousand Dollars.

Pursuant to the above report and recommendations of the said Committee, the undersigned has the honour to recommend to His Honour the Lieutenant-Governor in Council that where the conditions set forth above are complied with, municipalities shall be awarded grants as follows:

Municipalities with a population of over 20,000 receive an annual grant of $7\frac{1}{2}\%$ of the cost of the service.

Municipalities with a population of from 5,000 to 20,000 receive an annual grant of 20% of the cost of the service.

Municipalities with a population of from 1,000 to 5,000 receive an annual grant of 25% of the cost of the service.

Township municipalities, irrespective of population will receive an annual grant of at least 25% of the cost of the service. Township municipalities may unite for the purpose of establishing a dental service, and in such cases, the total grant given to the combined municipalities will be 25% of the cost of the service.

Municipalities under 1,000 receive an annual grant ranging from 25% to 35% of the cost of the service, depending upon local conditions, and whether the municipality is rural, semi-urban or small urban.

And further recommends that:

Rural and small urban municipalities may unite for the purpose of establishing a dental service, but all such arrangements must be subject to the approval of the Director of Dental Services, the annual grant in such cases will be 25% of the cost of the service. In determining the cost of a service, the initial expenses required for the purchase and installation of equipment should be capitalized over a period of ten years.

In no case shall the grant given to any municipality be greater than One Thousand Dollars.

In September, 1930, the Honourable Dr. Forbes Godfrey, the first Minister of Health for the Province, resigned his portfolio of Health and the Honourable Dr. J. M. Robb was selected to succeed the Honourable Dr. Godfrey as Minister of Health in the Executive Council of the Province of Ontario.

In the month of August, 1930, the Department of Health lost by death one of its highly respected officials, a venerable member of the medical profession, in the person of Dr. Adam Wright. Dr. Wright had been a member of the Provincial Board of Health for many years and for a considerable time during the latter years of the Board's existence had served as its Chairman. Following inauguration of the Department of Health and the dissolution of the Provincial Board, Dr. Wright was retained in the capacity of Associate in Public Health Education in the Department. His long years of experience and his unusual grasp of Public Health matters well qualified him to act in this capacity.

In the detailed report of departmental work which follows under the headings of the various special activities of the Department, one will find an interesting account of both the special work and the routine work which the Department in its various branches carried on during the year.

In connection with communicable disease one will note that during 1930 we had a severe outbreak of infantile paralysis. It was fairly widespread over the whole Province, and it will also be noted that in the treatment of cases in this outbreak convalescent serum was a very important factor.

One serious outbreak of septic sore throat and one moderately severe outbreak of typhoid fever are recorded. In each of these cases the infection was

milk-borne, and once again we are impressed with the importance of more adequate control of milk and cream sold in fluid form for human consumption.

Cancer, tuberculosis and heart disease continue to reap a tremendous toll in lives in this Province. The death rate from tuberculosis is gradually coming down but our programme for the control of this disease will have to be considerably elaborated if we hope to show continued improvement.

Our Division of Public Health Education has been particularly active during the past year building up a library of exhibit material, so that we are now able to supply exhibits dealing with Public Health matters on very short notice and covering practically the full range of Public Health activities from the exhibit point of view.

Our Laboratory service has shown during the past year the greatest increase of any year since the service was inaugurated. New activities from the laboratory standpoint are being introduced to assist physicians in the diagnosis and control of disease, and it is our hope that within a comparatively short time we may be able to have a laboratory service dealing not only with community health and the control of communicable disease, but also with personal health and sickness of a non-communicable nature, affecting only the individual who happens for the time being to be the patient, and his immediate family.

The purpose of this would be to supply through physicians to the public, laboratory services for the investigation and control of disease which are now available only to those of considerable means, located in densely populated areas.

The programme of controlling disease by preventing it has been vigorously promoted during the year, and immunization has received the attention of the central authorities as well as the local health authorities supported by officers of the central department.

It is our hope that diphtheria, within a reasonably short time, will be only a memory in this Province. Active co-operation between the health authorities and the general public will make this possible.

Ontario has not yet adopted any system of health administration through the organization of Health Units. Two types of Unit have been studied—one which might be termed the County type in which Counties or groups of municipalities are united for local health administration and given autonomy similar to that enjoyed now by the municipality in dealing with the health problems of the area, under the direction of a full time Health Officer. The other system which has received consideration is the system of uniting several Counties into a Health District, somewhat similar to the Health Districts operated at present, only considerably smaller and with a larger personnel. Added to the District Officer of Health, it is suggested that there would be a Sanitary Engineer, a Sanitary Inspector (who would be qualified also as a Food Inspector), two Public Health Nurses and a Clerk. It is proposed that this staff would be appointed and paid by the Central Government and that it would be supplemented by a part time local staff for the purpose of handling such work as Child Hygiene, School Health Service, Venereal Disease, Tuberculosis, etc., this part time staff being financed by the municipalities.

No policy has yet been declared by the Government with respect to Health Units and a further study is being made from which it is hoped that ultimately a plan will be evolved which will meet the needs of this Province.

An interesting piece of work during the past year has been the summer health service on the Muskoka Lakes, whereby an endeavour has been made to obtain a satisfactory method of refuse disposal from the excursion boats operating on these inland waters. Conditions were considerably improved by the work that was done. It is proposed that the work will be continued during the coming summer and that ultimately a satisfactory plan for the disposal of refuse from these boats will be devised.

A detailed summary of the work of the various Divisions of the Department follows.

DIVISION OF PREVENTABLE DISEASES

A. L. MCKAY, B.A., M.B., D.P.H., Director.

G. C. BRINK, M.B., Physician-in-Charge, Diagnostic Chest Clinic.

I have the honour to submit the following report of the activities of the Division of Preventable Diseases for the year ending December 31st, 1930:

I. COMMUNICABLE DISEASE CONTROL

Typhoid Fever.—The incidence of typhoid fever throughout the year was below the average for the previous six years. Only one outbreak occurred which assumed epidemic proportions.

This epidemic was at Belleville during the month of October. There were eighteen cases and three deaths. On investigation it was found that the use of raw milk from one dairy had been the source of infection of these cases. The dairyworkers and producers submitted specimens of urine and feces for examination, and the typhoid carrier was located. This man had had typhoid fever twenty-five years previously. He was engaged by one of the farmers supplying milk to this dairy in September, and left the farm on October 13th. Further investigation revealed the fact that during the previous ten years on various farms on which this man had hired cases and deaths from typhoid fever had occurred.

The dairy was closed while this investigation was carried on to locate the source of infection in the milk, and the typhoid carrier was forbidden from engaging in the handling of food or milk for human consumption.

Diphtheria.—The number of cases of diphtheria throughout the year was very close to the average for the previous six years. There was a slight increase in cases during November, but a return to the average in the following month. In municipalities where immunization campaigns had been carried out in the schools and amongst the pre-school children few cases and deaths were reported,

and those occurring were found to be amongst the non-immunized group. The use of diphtheria toxoid over a period of six years in Ontario has well exemplified its efficiency and safety as a prophylactic agent. With the majority of diphtheria deaths occurring in the first few years of life its use is especially urgent amongst pre-school children.

Smallpox.—Smallpox did not reach epidemic proportions at any time of the year, the incidence being within the limits of the endemic index of the disease. The greatest number of cases were reported from Sudbury and surrounding district, and Ottawa and adjoining municipalities in Carleton County. Prompt measures of isolation, quarantine and vaccination resulted in the eradication of the disease. Two cases of post-vaccinal encephalitis were reported from District No. 7, and investigated by the District Officer of Health.

Scarlet Fever.—During the year there was a marked increase in the number of cases of this disease, occurring especially in the months of March, April and May. During the remaining months of the year the incidence was commensurate with the average for the previous six years. In the larger cities this increase was particularly noticeable in Toronto and Ottawa, but there was also a general increase in many of the smaller municipalities during these months. Despite the increased incidence, the death rate remained low as in the previous year.

Whooping Cough.—For the first seven months whooping cough was consistently lower than the average with only a slight increase in the later months of October, November and December.

Cerebro-Spinal Meningitis.—The year 1930 showed the greatest number of cases of meningococcus meningitis reported during the last decade in the Province. There had also been a considerable increase during the previous year over the endemic index, and this continued during 1930. Two municipalities had outbreaks of an epidemic character. At Brantford during the period June 11th to September 11th, there were eighteen cases reported with two deaths. Assistance was given to the Brantford Board of Health in an attempt to discover any carriers amongst the contacts. In all 229 contacts were swabbed, but negative results were obtained. On investigation it was found that all of these cases, boys, had been using the Civic or Y.M.C.A. swimming pools in the city. The dressing rooms provided opportunity for very close contact, and these pools were closed on July 25th, with a marked reduction in the number of cases occurring.

During a period from January 1st to the week ending May 24th, 1930, eight cases of cerebro-spinal meningitis were reported from the following places, Sudbury, Copper Cliff and Coniston. Due to the rapid expansion of the industries and growth of the towns in population there was lack of accommodation for their inhabitants, consequently marked overcrowding. Favoured by this condition cerebro-spinal meningitis presents a problem, and an investigation was made to determine the possibility of carriers spreading the disease. A summary of the investigation showed that in Sudbury two cases had appeared late in 1929, and four cases in 1930, reported in February, March and April. The history sheets obtained from all cases indicated that there was no common carrier found. The cases all occurred in children with one exception, a male,

age 18, janitor in a school. No other cases developed in this school. One case was in the pre-school age group, and the remaining four attended schools where no other cases had been reported.

In Copper Cliff the three cases were also children of school age. Nothing in common was found here. Four cases had occurred in Coniston during the twelve month period, and no relationship to other cases was found.

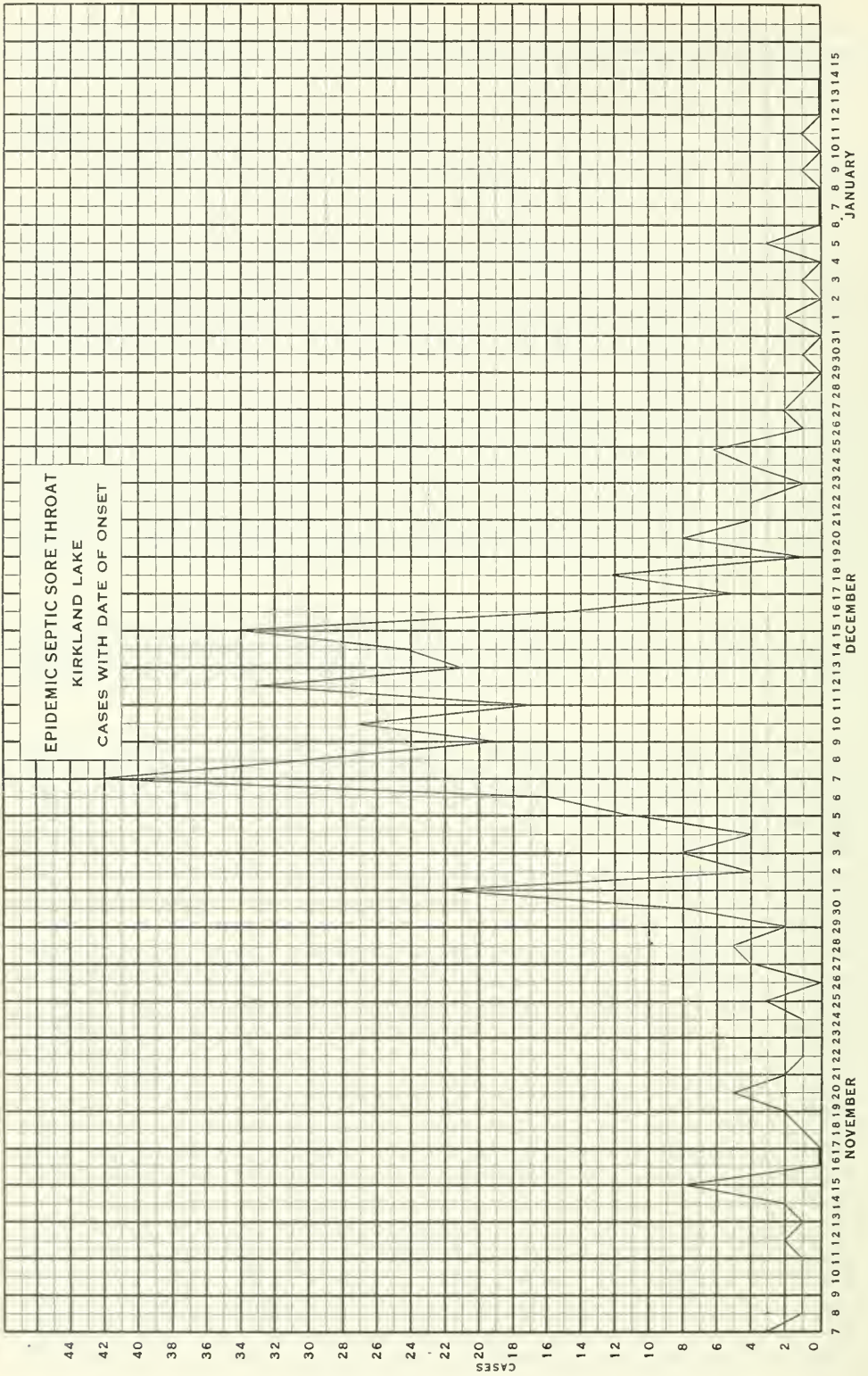
Septic Sore Throat.—Kirkland Lake. During the first week in December there occurred an unusual number of cases of severe sore throat in Kirkland Lake. A preliminary investigation was made by the Department to ascertain the cause. The town receives its milk supply from six dairies, supplying raw milk, and presumptive evidence gathered from the physicians' lists of the ill, pointed to one dairy as the source. Samples of milk were obtained from all cows in this dairy, and nose and throat swabs were taken from all milk handlers. This procedure was also followed in the case of other local dairies. From the bacteriological evidence thus obtained, the streptococcus epidemicus was isolated from one cow's milk, also from the throat of a milker, a woman working in the suspected dairy in bottling the milk. It may be added here that the same organism was found in many of the cultures taken from the throats of patients suffering from the disease.

In order to obtain information as to the extent of the outbreak, visits were made to the homes of all the known ill, and also to the homes of the patrons of the infected dairy. A special data sheet was used for the recording of complete information.

An outbreak of scarlet fever occurred in Kirkland Lake during the months of October and November of the year 1930, and 29 cases were reported. It was during this period that scarlet fever was contracted by one of the members of the producer's family who supplied the infected milk. A second member of this family became ill with scarlet fever a short time later, while a third developed a condition that was diagnosed as a cold, with an otitis media. The patients—all females—were said to have been isolated in a separate room, with nursing care, for a period of five days, and the family were released from quarantine in November. The other members of this family were not ill, and included the producer and his two sons, the one son being employed by the dairy to deliver milk. The mother worked in the dairy as a bottler, and stated that she was not at any time ill during the previous few months. However, it was learned that she had a sore throat, and a culture taken of her throat at the beginning of the investigation showed the presence of streptococcus epidemicus. This same organism was also found in a culture taken from a milker.

Total number of cases reported, 470. Morbidity rate, 58 per 1,000. Total number of deaths, 4. Mortality rate, 0.5 per 1,000. Case fatality rate, 0.8.

During the last few days in September, and for the same period in the month of October, a few cases of sore throat were reported. This was brought out in the summation of the data sheets. However, it is hardly probable that these cases were septic sore throat, although the symptoms given would leave one to consider such to be the case. It was not until the 7th of November that the cases became noticeable. Cases of septic sore throat appeared at



almost daily intervals after this date, and continued to be reported to the end of November. On December the 1st, twenty-two cases were observed, with a decline in the number reported on the second day. A slight increase was noted on the third, with a corresponding decrease in the number of cases for the fourth day. From this date on, marked rise in the number of cases was observed, the peak being reached on the 7th day of December, with a total number of 43 cases. During the following week a total of 189 cases developed, while a fluctuation is shown on the trend. The lowest number of cases reported for any one day during this period was 17. The milk supply from all local dairies was prohibited on 12th of December, and fifty-six hours after the order was given, marked decrease was noted in the daily number of cases reported. The trend then followed a marked lower level, and the cases reported from then on were due to contact infection.

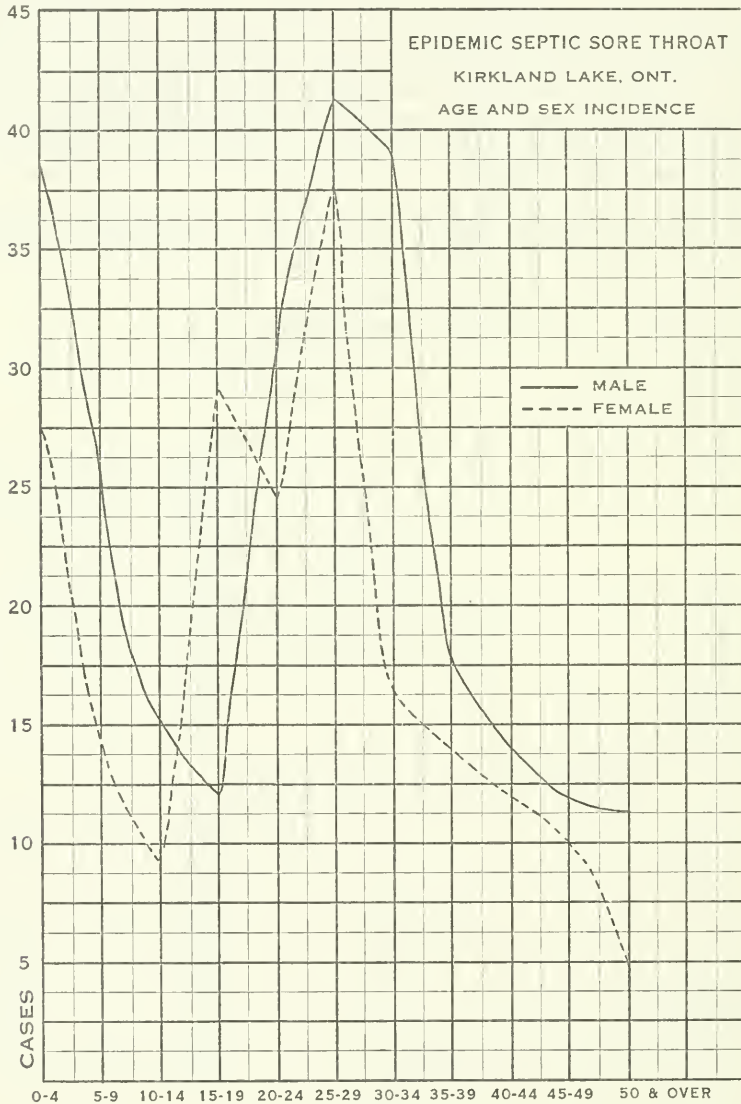
Table I and Graph I shew the date of onset of 441 cases. The remaining 39 cases were scattered throughout the months of November and December, and the exact dates were not obtained.

TABLE I

Date of Onset		SEPTIC SORE THROAT—KIRKLAND LAKE			Cases
September	.....	1			
October	28.....	2	October	30.....	1
"	29.....	1			
November	1.....	..	November	16.....	..
"	2.....	..	"	17.....	..
"	3.....	..	"	18.....	1
"	4.....	..	"	19.....	2
"	5.....	..	"	20.....	5
"	6.....	..	"	21.....	2
"	7.....	3	"	22.....	1
"	8.....	1	"	23.....	1
"	9.....	1	"	24.....	1
"	10.....	1	"	25.....	3
"	11.....	1	"	26.....	..
"	12.....	2	"	27.....	4
"	13.....	1	"	28.....	5
"	14.....	2	"	29.....	2
"	15.....	8	"	30.....	8
	Total, November.....				55
December	1.....	22	December	17.....	5
"	2.....	4	"	18.....	12
"	3.....	8	"	19.....	1
"	4.....	4	"	20.....	8
"	5.....	11	"	21.....	4
"	6.....	16	"	22.....	4
"	7.....	42	"	23.....	1
"	8.....	30	"	24.....	4
"	9.....	19	"	25.....	6
"	10.....	27	"	26.....	1
"	11.....	17	"	27.....	2
"	12 Milk stopped.....	33	"	28.....	1
"	13.....	21	"	29.....	..
"	14.....	24	"	30.....	1
"	15.....	34	"	31.....	..
"	16.....	15			
	Total, December.....				377
January	1.....	2	January	9.....	1
"	2.....	..	"	10.....	..
"	3.....	1	"	11.....	1
"	4.....	..	"	12.....	..
"	5.....	3	"	13.....	..
"	6.....	..	"	14.....	..
"	7.....	..	"	15.....	1
"	8.....	..			
	Total January.....				9

AGE AND SEX DISTRIBUTION OF 454 CASES

Table II and Graph II present the distribution of cases, male and female, into five-year age groups. A slightly higher percentage of males than females was attacked in some of the age groups, but in the 15-19 age group the attack of septic sore throat among the females is double the male rate. This would probably be accounted for by the fact that females at this age would be more



GRAPH II

constantly employed in home duties, consequently, would be associated with preparing food, and be more likely to drink the milk. The remaining age groups give a higher attack rate amongst males. In the age group representing the over-forty period, the proportion of both cases and contacts is small. This fact was noted while the survey was in progress, for few in the older age groups were seen.

TABLE II
 EPIDEMIC SEPTIC SORE THROAT—KIRKLAND LAKE, ONT.
 Age and Sex Incidence, Cases and Contacts (not ill)

Age Group	Cases						Contacts					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
0-4.....	39	15.	28	14.	67	14.6	24	15.2	23	14.2	47	14.8
5-9.....	26	10.	14	7.1	40	8.8	14	9.2	12	7.4	26	8.2
10-14.....	15	5.2	9	4.5	24	5.3	16	10.4	23	14.2	39	12.2
15-19.....	12	4.6	29	14.6	41	8.9	11	7.2	15	9.2	26	8.2
20-24.....	31	12.	24	12.	55	12.	11	7.2	14	8.5	25	7.9
25-29.....	41	16.	38	19.6	79	17.3	17	11.	19	11.6	36	11.4
30-34.....	39	15.	16	8.2	55	12.	23	14.9	20	12.3	43	13.4
35-39.....	18	7.	14	7.1	32	7.	13	8.5	14	8.5	27	8.6
40-44.....	14	5.3	12	6.2	26	5.6	12	7.7	13	7.9	25	7.9
45-49.....	12	4.6	10	5.2	22	4.9	9	5.9	6	3.7	15	4.8
50—.....	11	4.3	5	2.5	16	3.6	4	2.8	4	2.5	8	2.6
	258	100	199	100	457	100	154	100	163	100	317	100

TABLE III
 DURATION OF ILLNESS AMONG 343 PATIENTS

Days of Illness	Number of Patients	% Rate of Total
1	9	2.6
2	22	6.4
3	48	14.0
4	38	11.1
5	28	8.1
6	16	4.6
7	71	20.4
8	24	7.4
9	10	3.0
10	18	5.3
11	3	1.0
12	5	1.4
13	2	.5
14	43	12.5
?	6	1.7
Total	343	100. %

Table III and Graph III represent the amount of time actually lost by patients suffering from septic sore throat. The actual number of days lost by the above totals 2,307, and gives an average of 6.4 days of illness per patient. Over 60 per cent. of the cases were ill up to one week, while 20 per cent. of the cases associated their length of illness with one week exactly.

GRAPH III

EPIDEMIC SEPTIC SORE THROAT, KIRKLAND LAKE, ONT.
LENGTH OF ILLNESS

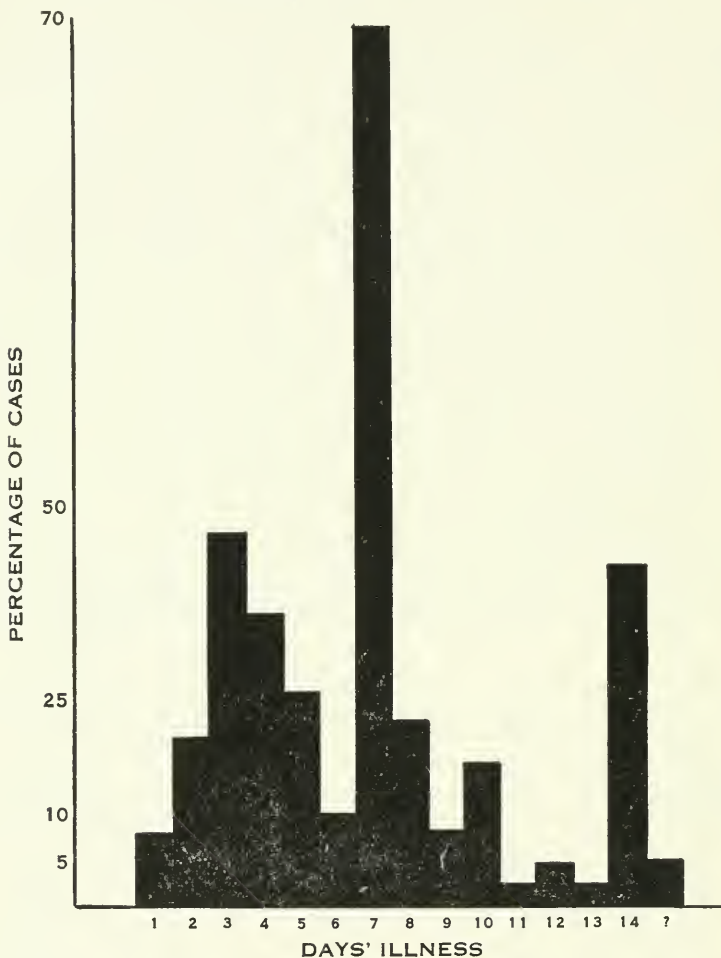


TABLE IV

NATIONALITY OF PATIENTS

Canadian.....	281
English.....	63
Scotch.....	29
Finnish.....	19
Swedish.....	9
American.....	7
Italian.....	7
Jewish.....	4
Irish.....	3
Welsh.....	2
Polish.....	2
Chinese.....	1
Russian.....	1
Total.....	428

Table IV gives one some idea of the nationalities representing the population of the town. In the Canadian group the French-Canadian cases are

also included. Owing to the excessive cost of milk (due to a great extent to lack of suitable pasture, the cows being stabled throughout the year), this condition reflected in the price, consequently, the majority of foreigners did not use fresh milk, and canned milk was obtained. In many boarding houses of foreign control, where ten, twenty to thirty inhabitants lodged therein, they failed to develop a single case of septic sore throat. In these houses canned milk was used.

ANALYSIS OF SYMPTOMS OF 462 PATIENTS

It was rather difficult to obtain an average incubation period owing to the fact that milk was used daily by nearly all patients, and was undoubtedly infected during a considerable length of time, but notwithstanding this difficulty, they might be placed within a forty-eight to a fifty-six hour interval. There were many cases, however, that could be definitely placed within a forty-eight hour interval. In one case a family was receiving milk from a non-infected supply and, with the exception of the father, none of them were ill. He had partaken of a late supper wherein the infected milk was served. He became ill almost exactly forty-eight hours after having partaken of one glass of milk.

Regarding the symptoms of the patients, many complained of a chill, followed by fever. The temperature in the majority of cases was over 102°. The feature of the disease was the throat condition. This presented for examination marked edema of the mucous membrane of the soft palate, tonsils and tonsillar pillars. The uvula in most cases was elongated, and appeared almost gelatinous. The picture of the whole throat was one of a dusky red, in fact, owing to the marked edema of the soft palate being unilateral, in many cases, at the beginning of the outbreak, suppurative tonsillitis was diagnosed and the throat was lanced. Severe post cervical adenitis followed the majority of cases. The appearance of a chain of marble-like posterior cervical glands occurred within a day or so after onset. The glands did not suppurate and were a considerable length of time in disappearing. Vomiting occurred in some cases, but as a rule with children only. Many adults complained of a muscular pain, present during the entire course of the disease; others felt this effect only on convalescence.

Analysis of Symptoms.—Sore throat, 446—96.6 per cent. of the cases. Fever, 427 cases—92.1 per cent. Cervical adenitis, 337 cases—72.5 per cent. Chill, 90 cases—19.4 per cent. Muscular pain, 66—14.2 per cent. of the cases; and Vomiting, 49 cases, or 10.5 per cent.

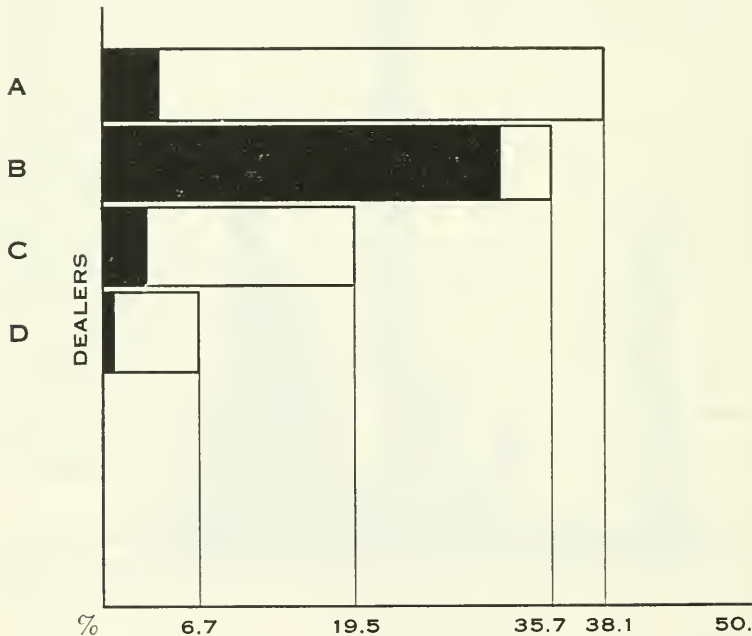
A tabulation of the data sheets under an entry showing the use of milk by patients gives a total of 309 patients interrogated as follows: 244 (78%) used or partook of milk on cereals. As a beverage it was used by 53 per cent.; the remainder used it with tea, coffee or cocoa.

Kirkland Lake received its milk from six producers and all of these producers sold raw milk only. Three of the six stabled their cows within the town limits, and their dairies were in close vicinity to the stables. Septic sore throat cases were traced to four of six dealers, and all cases were attributed to one producer, B. In Table V, showing the distribution of milk to patrons, Distributor A. supplied 275 families, or 38 per cent. of the total number supplied, and of these, ten families developed septic sore throat. It was found that A. had not a sufficient supply of milk to distribute to his patrons, consequently B. supplied him with a can of milk daily from the 1st to the 12th of December. This milk was not mixed with his own supply, but was distributed to a large extent to boarding houses.

TABLE V
 EPIDEMIC SEPTIC SORE THROAT—KIRKLAND LAKE, ONT.
 DISTRIBUTION OF RAW MILK BY FOUR DEALERS

Distributor	No. Families Supplied	% Distribution	No. of Families Ill	% Distribution
A.....	275	38.1	10	5.3
B.....	256	35.7	168	87.5
C.....	143	19.5	11	5.7
D.....	50	6.7	3	1.5
Total.....	724	100. %	192	100. %

Producer B. supplied 35.7 per cent. of 724 families, and 168 families contracted the disease. With 87.5 per cent. of his patrons having septic sore throat in the household, it was found that 90 per cent. of the members of his patrons' families were ill.



GRAPH V
 EPIDEMIC SEPTIC SORE THROAT
 KIRKLAND LAKE, ONT.

Percentage distribution of milk by four dealers.
 Shaded area percentage distribution of patrons ill.

Producer C. supplied 143 families, and 11 families or 5.7 per cent. developed septic sore throat. C. obtained milk from B. also, on the 9th, 10th, 11th and 12th of December.

To Producer D. septic sore throat was traced to three of his patrons. He purchased milk occasionally from B. The milk was not mixed, but was delivered to a boarding house, along with the supply of C. It was found that C. and D. would alternate with the occasional delivery of milk to these families. Only 0.9 per cent. of the members of the families obtaining their milk from D. were ill.

There was no illness among the families or workers in any of the dairies, with exception of Producer B. As previously stated, scarlet fever had developed in his home. A short time after the recovery of the patients, his wife, who bottled the milk in the dairy, was said to have had a sore throat. She worked in the dairy all during her illness. *Streptococcus Haemolyticus (Epidemicus)* was recovered from her throat and also from a milker in this dairy. We might presume that the infection was transferred from the home to the dairy, from the dairy to the milker, and from the milker to the animal.

Owing to the fact that scarlet fever was present in Kirkland Lake previous to and during the epidemic of septic sore throat, a history of scarlet fever, or a negative history of the disease, was obtained from all contacts and cases. The tabulation of such information with the various age groups proved of little consequence. Apparently scarlet fever did not immunize against septic sore throat, for in a summary of 45% cases of septic sore throat, 54 or 11.8 per cent. gave a history of having had scarlet fever, and in 317 contacts not ill, 38 or 10.2 per cent. gave the same history. Further, it was shown that in some families convalescing from scarlet fever, an attack of septic sore throat occurred among the convalescents before the families had been released from quarantine.

In order to obtain some knowledge as to the incidence of the disease among school children various schools were visited. Histories concerning personal and family illness of the students were taken, and sore throat cultures from one class, 11-15 age group, as a sample only. It was found that *streptococcus haemolyticus* was present in about 50 per cent.; no identification of this organism as to type having been done at the present. Of the 39 students in the class room, seven gave a history of sore throat only, while two had adenitis following the attack. Scarlet fever was present in three of the students' homes subsequent to the opening of the school, and sore throat was present in eleven of their homes.

SUMMARY

1. An epidemic of septic sore throat occurred in a town of 8,000, with 470 cases and 6 deaths.
2. The source of the epidemic was traced to one cow.
3. Evidence was obtained to show that two workers in the one dairy, with 87.5 per cent. of cases on its route, and where the cow found infected was milked, showed evidence of sore throat prior to the outbreak, and throat swabs from these two workers showed the presence of *streptococcus haemolyticus (Epidemicus)*.
4. Evidence was adduced to show that a previous attack of scarlet fever did not protect against an attack of septic sore throat. The percentage of those who were suffering from septic sore throat, and gave a previous history of scarlet fever, was practically the same as the percentage amongst household contacts who did not contract septic sore throat, and yet gave a history of previous scarlet fever.
5. The occurrence of this outbreak resulted in the immediate adoption of a compulsory pasteurization by-law which was put into effect immediately.

We desire to express our thanks to the Director and Staff of the School of Hygiene, University of Toronto, for very valuable assistance in the field, and suggestions in this epidemiological study.

POLIOMYELITIS

Although 1929 saw an epidemic of poliomyelitis in Ontario of 558 cases and 46 deaths, the year 1930 gave even a greater number of cases and deaths from this disease. Six hundred and seventy-one cases and sixty-one deaths were reported during the year. The policy of the Department in maintaining and distributing a supply of convalescent serum was continued, as in the previous year, and a very high percentage of cases received the serum.

The convalescent serum was collected and prepared, both prior to and during the epidemic. By July 1st over eight litres of serum had been prepared, and were ready for distribution. However, it was early apparent that this supply would not meet the needs and additional supplies were obtained during August, September and October.

The blood was collected in the same manner as the previous year, and a total of thirty-seven litres of serum was used. The preparation and ampouling of the serum was again generously undertaken by the Connaught Laboratories, University of Toronto. The cost of the serum in payment to 472 donors for blood was \$7,588.90.

The distribution of the serum was through the eight laboratories of the Department, and from a few other centres, with the co-operation of the Local Health Departments. Early in July a circular letter was sent to every physician in Ontario, advising them of this service, and giving them a list of distributing centres, in order that the nearest depot to them would be noted. At the Main Laboratories, Parliament Buildings, a twenty-four hour service was given for the forwarding of supplies of serum.

Twelve cases were reported during July. The first two weeks in August showed an increasing number of cases, and by the third week it had reached a total of fifty cases being reported. The average number of cases per week did not exceed sixty, but this average continued until the third week in October. After this point the number of cases per week rapidly fell, and few cases were reported by the first week in December. Graph I shows a comparison of cases by weeks for 1929 and 1930. In the 1930 epidemic the peak was more rapidly reached, and the number of cases was maintained at this level for ten weeks, whereas in the 1929 epidemic the rise to a peak was more gradual, and the high level was maintained for six weeks only.

Table II shows the cases and deaths as reported by Local Boards of Health for 1929 and 1930. Diagram I shows cases and deaths by months. September was the high month for both years, and in 1930 the number of cases in August and October were equal. The last nine years in Ontario has always shown the peak of the outbreak to occur during September, with only a few cases reported during July.

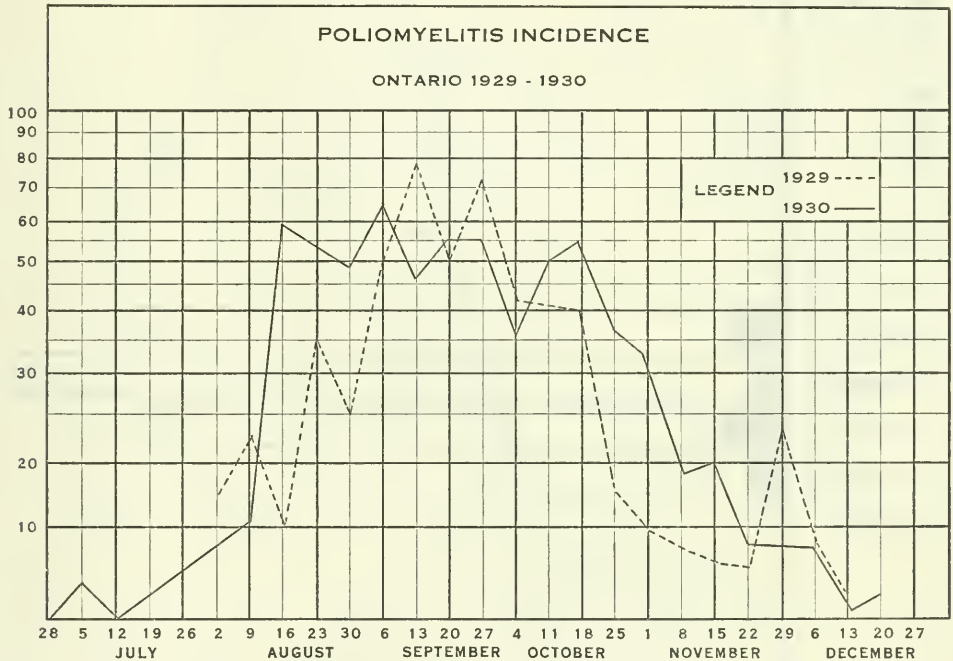
Table III shows the distribution of cases as to age, sex, rural and urban; urban being taken as towns of 5,000 population and over.

As in previous experience, males were more frequently attacked than females—males were 63.3 per cent. and females 36.7 per cent. of the total. As in 1929 there was a slightly higher percentage of urban cases than rural, the ratio being 52.7 per cent. to 47.3 per cent. respectively. A further analysis of this table shows the age group with the highest incidence as in the previous year's experience to be the 5-9 year age group, accounting for more than one-third of the cases. There was a slightly lower percentage in the 0-4 age group,

with a corresponding increase in cases over 15 years of age, in comparison with the 1929 experience.

The distribution of cases by locality is shown on the map. A few scattered cases developed in the area west of Lake Superior and an outbreak of seven cases at Kirkland Lake. Parry Sound District had fifteen cases, with a sprinkling in Muskoka. Some counties reported no cases, e.g., Kent, Lambton, Oxford, Lincoln, Peel, Hastings, Lennox and Addington, Lanark, Leeds, Grenville, Dundas and Russell. The counties which bore the brunt of the outbreak were Dufferin, York, Ontario, Victoria, Peterborough, Northumberland and Durham. The City of Toronto suffered severely, with 263 of the 671 cases reported in the Province.

WEEKLY REPORTING OF CASES



In each package of serum was included a data sheet which was completed by the attending physician, and returned for compilation and analysis. Of 671 cases reported, these data sheets were returned for 586 cases. The analysis of these case records is as follows:

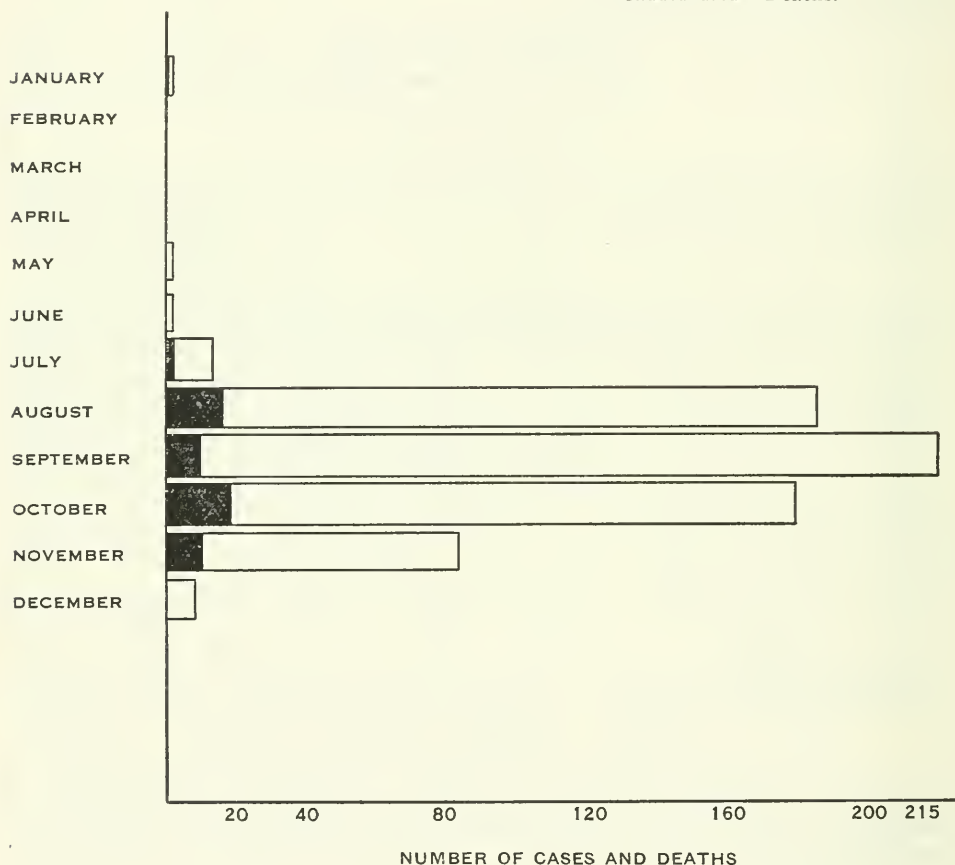
Symptomatology.—Table IV and Graph III show the symptomatology in order of frequency and percentage. Comparing the symptoms with those recorded in the 1929 epidemic, the order of frequency was little changed. Lumbar puncture was carried out in 230 of the cases, or 41.8 per cent. of the total number. Increased pressure was noted in 50 cases. The cell counts varied from 8 to 1,100 per cu.m.m.

Results of Serum Therapy.—Table V and Graph IV show a summary of the results obtained in 532 cases treated with serum. There are three classes analyzed according to day of illness on which convalescent serum was first administered and stage of the disease. The first group of 416 cases shows the percentage of complete recovery without paralysis according to day of illness on which serum was first administered. As in the previous year's

experience the early administration of the serum gave by far the better results. Although the number of cases is small the results from serum given after the fifth day would seem to show that serum had no effect in preventing paralysis at that stage of the disease. Whether or not the serum given at this late date acted in a measure by preventing extension of paralysis could not be ascertained, but was suggested in a few cases.

POLIOMYELITIS—1930
CASES AND DEATHS ACCORDING TO MONTH OF REPORT

LEGEND *Unshaded*—Cases.
Shaded area—Deaths.



The results in the second group who showed paresis before the serum was administered is encouraging. The percentage (43.7 per cent.) who recovered without paralysis, given serum the first day paresis was noted, cannot wholly be attributed to the action of the serum, as some cases prior to the use of serum showed this recovery without specific treatment. However, it would seem that this percentage of complete recovery is larger than one would expect from similar cases untreated with serum.

In the last group of fifteen cases who showed paralysis when the serum was first given, all of this group remained paralyzed.

The great advantage of the serum treatment from this analysis would seem to be in its early administration. Taking the total of 532 cases which

were analyzed as to result of serum therapy, and the total of 40 deaths reported on data sheets, making a grand total of 572, there was complete recovery without any paralysis in 396 patients who received serum, regardless of what stage of the disease. This gives a recovery rate of 69.2 per cent. The recovery rate for cases treated in the 1929 epidemic was 67.1 per cent.

Of the sixty-one deaths reported by the Local Boards, case records were received for forty. The analysis of these deaths appears in Table VI.

Twelve of these cases showed no paresis when serum was first given, but seven of them were given the serum six days or later after onset of symptoms.

The bulbar form of the disease was more manifest than in the previous epidemic, and this type of the disease did not respond to treatment with the dosage of serum given.

The question of adequate dosage should receive further consideration. Twenty cu.cms. was the dosage recommended for cases in the pre-paralytic stage, and gave good results in the majority of instances, but some individual cases would seem to have benefited from larger and repeated doses. It is impossible to lay down any set or fast rule as to the amount of serum which will neutralize the virus in an individual case. Only by further observations and experience can this point be settled. No biological assay is made of the potency of the serum.

The results from the use of convalescent serum in the light of the experience gained in the epidemics of 1929 and 1930 should warrant its continued use in the Province.

TABLE II

POLIOMYELITIS—1930

CASES AND DEATHS ACCORDING TO DATE OF REPORT

Month	1929		1930	
	Cases	Deaths	Cases	Deaths
January.....	2	0	2	1
February.....	0	2	0	0
March.....	0	1	0	0
April.....	0	0	0	0
May.....	0	0	2	0
June.....	1	2	2	0
July.....	1	0	12	4
August.....	106	9	175	16
September.....	244	11	215	11
October.....	141	6	174	18
November.....	53	0	80	11
December.....	12	0	9	0
Total.....	560	31	671	61

Estimated population, Ontario, 1930—3,314,000. Morbidity rate per 100,000—2.2. Mortality rate per 100,000—1.8. Case Fatality rate—9.9%.

GRAPH III
POLIOMYELITIS—1930
PERCENTAGE DISTRIBUTION OF
ANALYSIS OF SYMPTOMS OF 573 CASES

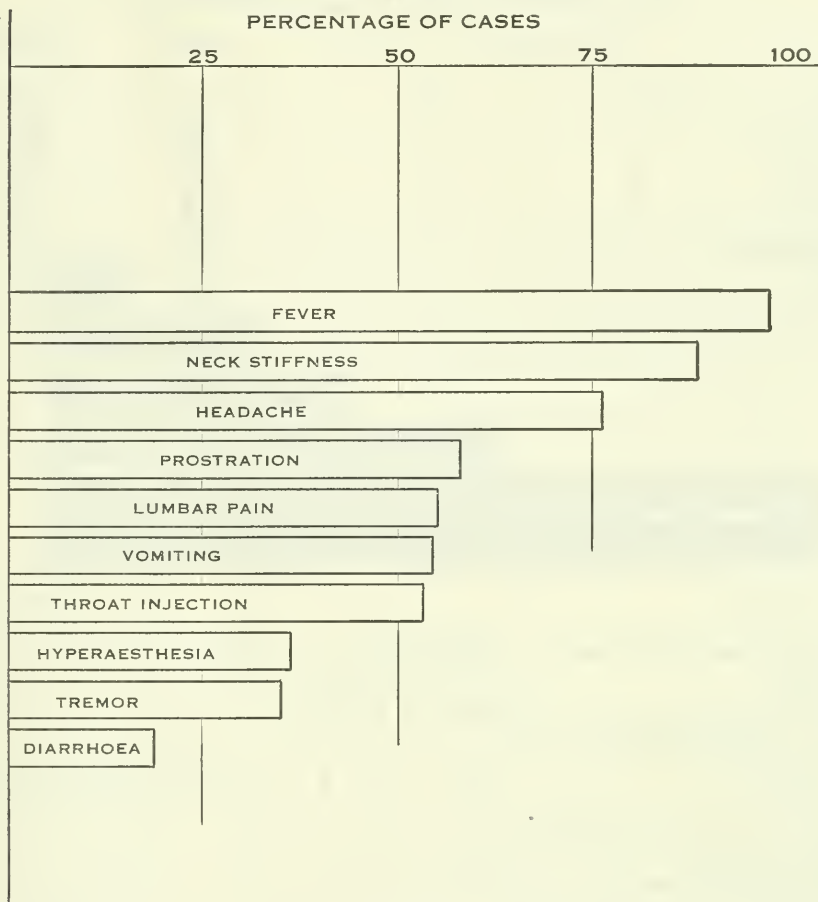


TABLE III
POLIOMYELITIS—1930
CASES ACCORDING TO AGE AND SEX, AND RURAL AND URBAN POPULATION

Age	URBAN						Rural							
	Male		Female		Male and Female		Male		Female		Male and Female		Grand	
	No.	%	No.	%	Total	%	No.	%	No.	%	Total	%	Total	%
0-4	40	20.2	30	26.7	70	22.5	42	24.2	23	22.1	65	23.4	135	23.2
5-9	73	37.	44	39.2	117	37.9	52	30.	34	32.6	86	31.1	203	35.3
10-14	39	19.7	11	10.2	50	16.3	35	20.2	25	24.2	50	21.5	110	18.8
15-19	24	12.	14	12.5	38	12.3	28	16.2	11	10.6	39	14.1	77	13.2
20-24	13	6.4	8	7.1	21	6.7	6	3.5	6	5.8	12	4.6	33	5.6
25-29	6	3.2	4	3.4	10	3.4	7	4.1	1	.9	8	2.8	18	2.1
30-49	3	1.5	0	0	3	.9	3	1.8	4	3.8	7	2.5	10	1.8
Total...	198	100	111	100	309	100%	173	100	104	100	277	100	586	100%

TABLE IV
POLIOMYELITIS—1930
ANALYSIS OF SYMPTOMS OF 573*CASES

Symptoms	Number	Percentage
Fever.....	568	98.5
Neck Stiffness.....	502	88.1
Headache.....	445	77.5
Prostration.....	370	64.5
Lumbar Pain.....	356	60.5
Vomiting.....	345	59.5
Throat Injection.....	340	59.1
Hyperaesthesia.....	216	37.8
Tremor.....	213	37.2
Diarrhoea.....	108	18.9

TABLE V
POLIOMYELITIS—1930

ANALYSIS OF 532 CASES OF POLIOMYELITIS, RECEIVING CONVALESCENT SERUM, ON VARIOUS DAYS OF ILLNESS

Days of Illness.....	1	2	3	4	5	6	7	Total
Convalescent serum administered....	185	126	53	24	14	5	8	416
No paralysis.....	185	119	38	15	6			
PARALYSIS.....		6	15	9	8	5	8	
Recovery percentage.....	100	94.4	71.6	62.1	42.1	0	0	
Days of Paresis Convalescent serum administered.....	48	34	10	6	2	1		101
No Paralysis.....	21	10	2					
PARALYSIS.....	19	18	5	5	2	1		
Improving at the date of the return of report.....	8	6	3	1				
Percentage recovery.....	43.7	29.4	20	0	0	0		
Paralysis present when serum administered.....	6	4	2	2	1			15
recovery at date of return of report.....	6	4	2	2	1			
Percentage recovery.....	0	0	0	0	0			
Total.....								532

581 Cases received convalescent serum.

40 Deaths. Case fatality rate—6.8%.

532 cases analysed as above.

40 deaths.

5 cases no serum administered.

9 cases no record as to result of serum. No deaths.

Total 586.

GRAPH IV
POLIOMYELITIS—1930

PERCENTAGE DISTRIBUTION OF RECOVERY AMONG PATIENTS RECEIVING
CONVALESCENT SERUM, GIVEN ON VARIOUS DAYS.

Shaded Area—Paralysis.

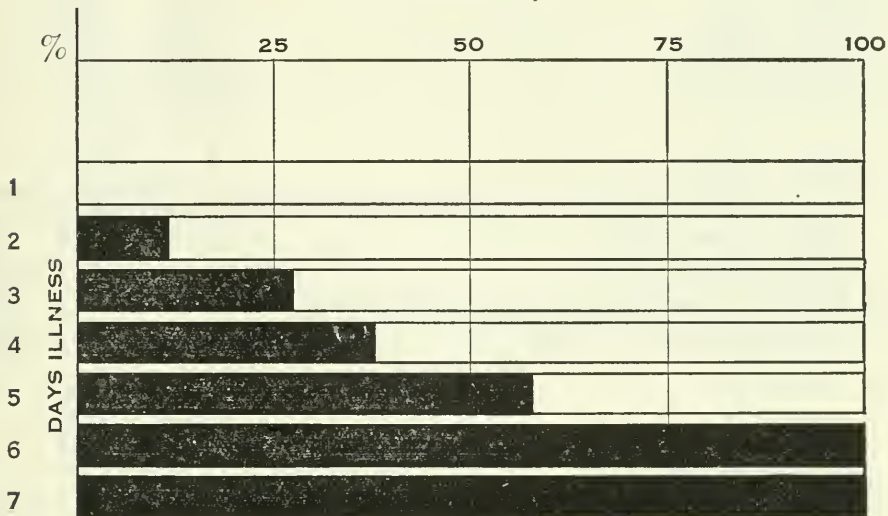


TABLE VI
POLIOMYELITIS—1930
ANALYSIS OF 40 DEATHS

Days' illness when convalescent serum administered.....	1	2	3	4	5	6	7	?	Total]
No paresis present.....		1	2	1	1	2	3	2	12
Paresis present.....	5	4	1	1	1	1	.....	.....	13
Paralysis present.....	4	5	1	1	.....	.....	.....	.....	11
No serum.....	.....	.....	.....	.....	.....	.....	.....	4	4
Total.....	9	10	4	3	2	3	3	6	40

Amount of serum administered: 10 received 10 c.c. to 15 c.c. and under. 30 received over 20 c.c., one received 120 c.c.

VENEREAL DISEASE CONTROL

(1) *Distribution of V.D. Supplies:*

	Ampoules	Grams
Novarsan.....	8,008	5193.7
Diarsenol.....	8,766	10723.5
Bismuth Hydrate.....	23,260	63112 grs.
Mercury Salicylate.....	13,393	20053 "
Sodium Hydroxide.....	3,182	ozs.
Distilled Water.....	32,930	"
Silver Nitrate, 1%.....	56,470	

(2) *Clinics:*

Number of Clinics, 18.		
Situating at Toronto (6), Hamilton, Brantford, London, Windsor, Owen Sound, Ottawa, Fort William, Kitchener, St. Catharines, Kingston, Peterboro, Sault Ste. Marie.		
1. Number of cases treated.....		8,557
2. Number of new cases treated.....		4,354
3. Number of treatments.....		124,442
4. Number of contacts and alleged sources of infection examined.....		1,660
5. Average number of patients under treatment per month.....		4,754
6. Number of visits made by nurses.....		5,883
1. Cases treated.....		8,557
	Male	Female
Syphilis.....	2,539	1,855
Gonorrhoea.....	2,475	1,205
Double Infection.....	187	296
2. New Cases.....		4,354
	Male	Female
Syphilis.....	1,057	692
Gonorrhoea.....	1,686	697
Double Infection.....	88	134
New cases syphilis classified.....		1,504
	Male	Female
Primary (285).....	192	93
Secondary (458).....	239	219
Tertiary (761).....	445	316
New cases gonorrhoea classified.....		2,116
	Male	Female
1. 1,250 under 1 month.....	963	287
2. 394 under 2 months.....	227	167
3. 472 over 2 months.....	258	214
3. Number of treatments.....		124,442
	Male	Female
Syphilis.....	33,304	24,674
Gonorrhoea.....	49,373	16,091
New cases.....		4,354
Social histories taken.....		3,842
Cases referred by doctors, 765; self, 1,129; friends, 416; hospitals, 483; other clinics, 361; social agency, 198; contacts, 16; sources, 7; posters, 14. (Department of Health, 231; jails, 125; police, 35; parents, 62.)		
4. Number of contacts and sources examined.....		1,660
Positive for syphilis.....		335
Positive for gonorrhoea.....		376
Negative.....		949
Children treated.....		427
Old.....		263
New.....		164
Treatments.....		4,987
	Male	Female
Syphilis.....	1,428	1,624
Gonorrhoea.....	133	1,802

(3) <i>Number of Patients Treated in Hospitals where Clinics are situated</i>			1,762
	Male	Female	
Syphilis.....	495	284	
Gonorrhoea.....	345	559	
Double Infection.....	26	51	
Chancroid.....	2		
Number of days in hospital.....			29,187
	Male	Female	
Syphilis.....	8,577	5,391	
Gonorrhoea.....	5,237	9,920	
Chancroid.....	62		
Discharged from Clinics.....			3,437
Apparently cured—		1,186	
Syphilis.....	287		
Gonorrhoea.....	899		
Transferred—		862	
Syphilis.....	468		
Gonorrhoea.....	394		
Without permission—		1,389	
Syphilis.....	743		
Gonorrhoea.....	646		

(4) *V.D. Clinics in Penal Institutions:*

Number of institutions.....			5
1. Number of cases.....			589
	Male	Female	
Syphilis.....	294	90	
Gonorrhoea.....	114	91	
2. Number of treatments.....			22,202
	Male	Female	
Syphilis.....	2,641	1,447	
Gonorrhoea.....	14,227	3,887	
Total hours clinics open.....			8,375
Syphilis	Pos.	Neg.	
Blood.....	4,304	7,664	
C.S.F.....	37	61	
Darkfield.....	40	24	
Gonorrhoea	Pos.	Neg.	
Diagnosis.....	2,143	3,093	
Prognosis.....	1,444	4,291	
Treatments for syphilis:			
Diarsenol.....		20,062	
Neo diarsenol.....		2,175	
Tryparsemide.....		221	
Novarsan.....		403	
Sulpharsenol.....		405	
Other.....		96	
Mercurosal.....		196	
Hg. sal.....		8,438	
Bismuth.....		16,362	
Medicine.....		10,121	
Mer. ung.....		110	
Treatments for gonorrhoea:			
Irrigations.....		57,387	
Douches.....		2,790	
Injections.....		4,220	
Instrumentation.....		3,900	
Deep instillation.....		1,373	
Pros. massage.....		5,299	
Tap. applications.....		9,243	
Vaccine.....		1,111	
Smears.....		713	
Advice.....		2,817	
Examinations.....		1,863	
Extra hours for irrigation clinics.			

COMPARATIVE TABLE

	Total Cases	New Cases	Treatments
1926.....	8,395	2,824	85,682
1927.....	7,872	2,862	88,605
1928.....	6,820	3,464	102,360
1929.....	7,613	3,467	111,614
1930.....	8,557	4,354	124,442

Social Service:

Outside places visited.....	74
Clinic visits.....	70
Lectures with films.....	90
Attendance.....	8,769

34 film showings in hospitals.

ANNUAL REPORT OF THE TRAVELLING DIAGNOSTIC CLINIC FOR 1930

During 1930 the Travelling Diagnostic Chest Clinic visited the following twenty-two centres:

Owen Sound	Newmarket
Smith's Falls	Goderich
Pembroke	Oshawa
Renfrew	Marmora
Sudbury	Bancroft
Sarnia	Pictou
Ingersoll	Arnprior
Prescott	Alexandria
Sudbury (children from Rural Schools)	Stratford
Fergus	Hanover
Palmerston	Sault Ste. Marie

Owing to shortage of staff, clinics were held at only four new centres, namely, Fergus, Palmerston, Bancroft, and Hanover.

A total of 1,204 cases were examined at the regular clinics—867 adults and 337 children under 16 years of age; 146 were examined for the second time, 26 for the third time, and 2 for the fourth time. Of the tuberculous cases, 54 were examined previously by the clinic and known to have tuberculosis, leaving 206 tuberculous cases that were examined by the clinic for the first time and of these at least 80 per cent. were discovered at the clinic.

GENERAL SUMMARY, ADULTS AND CHILDREN

Number Cases Exam.	Tbs. not factor	Observation	Other conditions	Min. Tbs.	Mod. Adv.	Far Adv.	Active	Quiescent or Arrested
1204	706 58.6%	135 11.2%	103 8.6%	114 8.6%	113 8.6%	33 2.7%	154 59.3%	106 40.7%
							of Tbc. cases	of Tbc. cases
							260 or 21.6% of total cases.	

CHILDREN

Of the 337 children examined, 22 or 6.5 per cent. showed evidence of tuberculous disease, and 20 had parenchymatous lesions; 16 children had active disease and were in need of institutional treatment. In the other 6 cases the disease was thought to be quiescent or arrested; 2 of these had mediastinal tuberculosis and 4 minimal parenchymatous disease. In 4 of the children having tuberculous disease no history of contact could be obtained.

Of the 337 children examined, we have definite records as to the reactions in 302. Many gave doubtful reactions that were not classified and will be repeated on the next visit of the clinic.

Of the 302 children who were tuberculin tested, 147 or 38.9 per cent. gave positive reactions.

Of the 147 children giving positive reactions, 103 or 70 per cent. gave history of contact.

Of the 154 children giving history of contact, 103 or 66.9 per cent. gave positive tuberculin reactions.

Of the 143 children in which no history of contact could be obtained, 44 or 30.8 per cent. showed positive tuberculin reactions.

ADULTS

Of the adults examined, 239 gave history of contact and of these 79 or 33.0 per cent. had tuberculous disease; 154 adults were found to have tuberculous disease in which no history of contact could be obtained.

Other conditions found:

	Total	Adults	Children
Heart.....	7	6	1
Pleurisy with effusion.....	9	5	4
Unresolved pneumonia.....	4	3	1
Empyema.....	3	2	1
Bronchiectasis.....	18	14	4
Asthma.....	26	18	8
Pneumonia.....	2	1	1
Lung abscess.....	2	2	..
Tuberculosis laryngitis.....	1	1	..
Tuberculous spine.....	1	1	..
Spontaneous pneumothorax.....	1	1	..
Teeth diseased.....	88	75	13
Tonsils abnormal.....	142	52	90

Two cases of thoracoplasty were examined. These cases had been operated on two to three years previously and were in good condition, the disease being arrested.

Maintenance of patients in sanatoria from unorganized territory cost \$19,719.77.

Several cases of emphysema and bronchitis were examined and are not classified because most of them were associated with other conditions.

There were several other cases in which bronchiectasis was suspected, but a definite diagnosis could not be made without further observation and lipiodol injections followed by X-ray.

Among the adults, 75 had diseased teeth requiring attention; 52 had tonsils that required investigation and it was thought removal was indicated in a large proportion.

Among the children examined, 13 had diseased teeth and 90 had sufficiently enlarged or diseased tonsils to warrant removal.

In November and December surveys were conducted at the Ontario Hospitals at Brockville and Penetang, where 190 cases were examined.

Along with the above work the staff of the clinic has co-operated with the Industrial Division on several occasions in the examination of men exposed to silica dust.

The demand for clinics in 1930 exceeded that of any previous year. It is unfortunate that the staff has not been increased to enable these invitations to be accepted. Requests for a three months' service have been received from twenty of the smaller cities and larger towns, also from several of the smaller centres.

It is hoped that a more comprehensive scheme for tuberculosis work throughout the Province, such as outlined in the report of the Royal Commission on Public Welfare, 1930, will be brought about.

CASES AND DEATHS FROM CONTAGIOUS DISEASES REPORTED BY LOCAL BOARDS OF HEALTH

1930	Smallpox		Scarlet Fever		Diphtheria		Measles		Whooping Cough		Typhoid		Tuberculosis		Polymyellitis		Cerebro Spinal Meningitis		Influenza		Acute Primary Pneumonia		Syphilis		Gonorrhoea		Chancreoid		Chickenpox		Enecephalitis Lethargica		German Measles		Mumps		Septic Sore Throat	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths		
January.....	51	0	739	3	269	13	627	0	311	0	21	2	85	55	2	1	7	4	20	5	30	187	110	0	159	0	2	0	1,183	0	0	0	177	0	223	0	0	0
February.....	77	0	905	3	218	13	1,605	2	380	0	27	1	101	52	0	0	4	5	68	13	29	211	169	0	111	0	1	0	795	2	0	2	288	0	102	0	2	1
March.....	149	0	1,432	5	246	6	4,412	1	309	1	55	2	133	84	0	0	10	4	74	7	62	230	184	0	203	0	7	1	1,189	0	5	4	621	0	230	0	28	0
April.....	74	0	1,049	5	167	7	2,785	4	281	1	5	0	131	70	0	0	12	5	43	10	24	224	204	0	189	0	0	0	836	0	2	1	791	0	152	0	21	1
May.....	94	0	881	11	237	18	1,883	2	231	1	36	1	194	75	2	0	14	7	30	10	35	236	240	0	194	0	1	0	821	1	4	1	994	0	169	0	8	0
June.....	47	0	511	2	237	7	1,319	0	232	0	30	0	129	48	2	0	11	5	13	3	17	130	122	0	130	0	6	0	836	0	1	1	429	0	130	0	1	0
July.....	24	0	272	3	165	6	489	0	261	1	37	1	132	37	12	4	8	4	6	4	4	61	198	0	181	0	0	0	556	0	2	2	47	0	40	0	0	0
August.....	22	0	182	3	225	13	201	0	367	3	71	0	98	91	175	16	27	4	9	2	13	74	187	1	204	0	1	0	218	0	0	1	14	0	28	0	3	0
September.....	9	0	192	0	247	5	51	0	317	0	102	2	146	51	215	11	16	1	18	2	5	63	203	0	283	0	2	0	102	0	0	1	5	0	42	0	0	1
October.....	34	0	435	1	373	11	57	0	315	2	126	11	134	48	174	18	7	2	9	5	6	101	109	3	95	0	3	0	380	0	1	1	7	0	152	0	0	0
November.....	62	0	621	1	459	17	105	0	370	1	73	8	209	51	80	11	2	2	12	0	20	153	354	0	501	0	3	0	1,365	0	1	0	31	0	595	0	6	1
December.....	4	0	612	1	355	14	83	0	338	4	50	2	136	29	9	0	2	5	14	4	25	126	143	0	172	0	0	0	1,196	0	0	0	26	0	448	0	296	5
1930 Total.....	647	0	7,831	38	3,198	130	13,617	9	3,712	14	6,330	30	1,628	691	671	61	120	48	316	65	270	1,796	2,223	4	2,422	0	26	1	9,477	3	16	14	3,430	0	2,311	0	865	9
1928 Total.....	864	1	4,508	35	2,918	148	16,188	24	4,147	48	715	44	1,531	708	85	7	42	31	4,730	255	312	1,716	1,477	6	2,062	0	22	0	8,618	2	24	18	242	0	19,802	3	109	4
1929 Total.....	708	0	4,857	31	3,261	185	20,799	39	4,897	31	738	33	1,407	563	477	26	101	31	8,382	514	339	2,133	2,030	9	2,327	0	18	2	9,819	2	18	10	308	0	4,003	0	73	2

DIVISION OF INDUSTRIAL HYGIENE

J. GRANT CUNNINGHAM, B.A., M.B., D.P.H., Director

The employer's medical problems lie in the reduction of general sickness; improved conditions in those trades which have an excess of general sickness over that experienced by other trade groups; the reduction of occupational diseases; the institution of methods and conditions of work which produce accomplishment with an optimum physiological response; the control and care of accidents.

These involve medical supervision, and not the casual arrangement which so frequently exists between employer and physician, which has arisen for the care of accidents, and which is no less satisfactory for this purpose than for the control of ill-health.

Very limited application to industry has been made of the results of investigations conducted elsewhere, into optimum methods for moving loads by hand—lifting, carrying, pushing or pulling—the need or value of rest pauses in individual processes, or correct posture.

The study of the occupational diseases has also occupied the attention of the Division, and arising out of this, some assistance has been given in their control, partly by mechanical means and partly by medical supervision.

This medical supervision for the control of industrial diseases usually results in the institution of measures for the control of general sickness, especially that excess due to pneumonia, rheumatism, bronchitis and tuberculosis, which appears in certain trades involving exposure to extremes of temperature or to dust.

In the course of trade investigations where a hazard to health was suspected, 361 workmen have received physical examination with X-ray. These men came directly from their work for examination and practically all were chosen because of some years' experience in their trade. The examinations covered particularly iron moulders and grinders, porcelain workers, cement workers. They presented 30 cases of silicosis and 8 cases of tuberculosis. The few cases among moulders arose only after 20 to 30 years' work in the trade. Of particular interest are a few cases of fibrosis among grinders, giving a history of exposure to artificial grindstone dust only, and one case with exposure limited to talc dust. This, if substantiated by further investigation, is important in emphasizing the need for protection of workmen, even against some dusts containing little or no free silica.

Examinations of workers referred from various other sources totalled 176. Among these were 100 claims for silicosis and 31 claims for lead poisoning, referred by the Workmen's Compensation Board. In the remainder of this group there were 10 cases of arsenic and 8 cases of chromium poisoning. Laboratory investigations instituted by these different types of cases involved some hundreds of microscopical examinations, about 80 quantitative determinations for the presence of lead, and half as many for the presence of silica, as well as a few of each of a variety of other analyses.

Some of the investigations at plants, including a number submitted by the Factory Inspection Branch of the Department of Labour, have involved fairly extensive enquiry and cover a wide range of subjects, such as analyses

of paints, the dust content of air in granite cutting shops, lead contamination of fruit, poisoning from electric refrigerants, efficiency of equipment for spray painting, carbon monoxide content of air. Four deaths from gas in a sewage disposal plant proved, after detailed investigation, to be due to hydrogen sulphide from sewage heavily charged with materials from which this gas is formed. Precautions to avoid recurrence were suggested. Enquiry into the manufacture of mattresses showed that many, manufactured or sold in Ontario, are filled entirely or in part with second-hand material. The use of old mattresses, tailor clippings, jute bags and other rags obtained from various sources, is fairly widespread. Enquiry conducted elsewhere on this subject has not shown that any health hazard exists.

The records of sickness of 8,000 school children over a two-year period are being studied along the following lines:

(a) The effect of temperature, humidity, air motion, and rate of air exchange in the classroom on the health of the pupils.

(b) The relation of sex to sickness among pupils, and the effect of age on sickness rates.

(c) The effects of outside weather conditions on sickness rates.

(d) The relation, if any, between teachers' sensation of comfort and actual atmospheric conditions.

Literature and addresses for interested groups have been prepared. Short pamphlets indicating where exposure occurs, the symptoms and the means of prevention of poisoning from lead, chromium, hydrogen sulphide and carbon monoxide, are available for distribution.

The Division was represented at the International Silicosis Conference, called by the International Labour Office and held in August, 1930, at Johannesburg, South Africa. The Conference discussed in detail the subject of silicosis and made recommendations dealing particularly with research problems and uniformity in methods of dust sampling and X-ray technique. At the same time opportunity was provided to see some of the work in industrial hygiene conducted in some of the European centres.

Attention is drawn to the need for additional chemical and clinical assistance for investigations, initiated by the Division, or requested by industry, concerning the health hazards in industry.

Investigations already made, reveal some conditions, particularly in reference to dust inhalation, the remedy for which is not apparent. Facilities for enquiry which might make it possible to suggest specifications for mechanical efficiency in the control of dust and fumes should be made available.

The report of the Chief Sanitary Inspector is attached.

SANITARY INSPECTORS' DIVISION

I have the honour to submit for your consideration a resume of the activities of the Sanitary Inspectors' Division for the year 1930. This covers the combined activities of the district inspectors at North Bay, Sudbury, Sault Ste. Marie, Cochrane, Sioux Lookout and Fort William.

The position of district sanitary inspector in Fort William, rendered vacant by the resignation of Mr. A. L. Smith, has been filled by Mr. John Sime, who, for the past twenty years, carried on a business of plumbing and domestic sanitary engineering there.

Owing to the world-wide business depression there has been a poor demand for wood products in the past year. This has curtailed, to a considerable extent,

lumbering and pulpwood operations, the usual number of men being engaged in both of these industries decreasing fifty per cent. in the past year. This applies also to construction work in all of the districts except Cochrane. The extension to the Temiskaming and Northern Ontario Railroad from Cochrane to James Bay and the development of the Hydro power at Abitibi Canyon, has made the past year one of the busiest in that district, between two and three thousand men being engaged in the above two operations.

Statistics gathered by the district inspectors show that there were 85 lumber and pulpwood companies operating 250 camps, employing 13,000 men; 30 mining camps, 2,500 men; 75 construction and road camps employing 6,000 men; 6 fishing stations employing 500 men; 3 stone quarries employing 400 men; 30 extra gangs employing 1,200 men, and 24 sawmills employing 2,500 men.

The sanitary supervision of the schools in the unorganized territory was turned over to this Division in the latter end of 1930. There are about 600 schools altogether, with attendances ranging from five to fifty pupils each. Last year 108 of these schools were inspected and only two per cent. of them came up to the ordinary standard of sanitation. The others had dangerous sources of water supply; common drinking cups; unsanitary privies or no ventilation systems. The want of the latter in the winter time when the huge box stoves are being fired to their capacity, and doors and windows tightly closed, is, in my opinion, detrimental to the mental and physical growth of the children in the rural districts. All inspectors have instructions that no other means than educational ones are to be made use of in the correction of conditions at present, special instructions being given that they are to take every opportunity to impress upon the different officials of those schools the necessity for a proper standard of sanitation. Most of these schools are in districts where pioneer homesteaders make up the population, their straightened financial circumstances making it impossible for an outlay of money, however small, to be made. In spite of this, some very gratifying improvements have been inaugurated through the educational system which your inspectors are making use of when meeting the secretaries and members of the different rural school boards, in many cases the necessary sanitary improvements being made by voluntary services rendered by the parents of the pupils. An inspection of all these rural schools will be made this year before the summer vacation in order that improvements recommended can be carried out when the children are on their holidays.

COMMUNICABLE DISEASES

Smallpox.—Outbreaks of smallpox developed in the Sault Ste. Marie, Cochrane, Sudbury and North Bay districts in the past year. In the first two-named districts the disease was stamped out very quickly, it being confined to the initial cases. In the North Bay district six cases of the virulent type developed in the camps of the Fassett Lumber Company. Your district inspector at North Bay spent seven days with the contracting physician in an intensive vaccination campaign, being successful in vaccinating 443 of the 444 employees of the camps. Photographs of some of the most typical cases were taken in the Fassett Lumber Company's camps. These pictures are being made use of in different parts of the Province as vaccination education.

Another outbreak developed in the Carpenter-Hixon Lumber Company's camps at Blind River, 24 lumber workers contracting the disease. The lumbering operation of this company, who were employing 2,400 men, was fortunately divided into two districts. It was in the one employing 1,100 men where the disease developed. Your inspector at Sault Ste. Marie and I spent several weeks in these camps, being successful with the splendid co-operation given by the contracting physician in preventing the disease from spreading. all of the 1,100 employees in the camps where this outbreak occurred were vaccinated.

Typhoid Fever.—Typhoid fever developed in the North Bay, Sudbury, Fort William and Cochrane districts, in the first-named three districts a total of eight cases being reported. It was only in the Cochrane area where the disease became epidemic, twelve cases being reported from one lumber camp, the source of the disease being traced to a polluted water supply, river water having been made use of after a well had gone dry. Our Inspector McIntyre had warned the camp operator against using this river water at the beginning of the season.

COMMUNICABLE DISEASES

Typhoid fever.....	20
Smallpox.....	32
Diphtheria.....	3

During the septic sore throat epidemic at Kirkland Lake your inspector at North Bay supervised the pasteurization of the Kirkland Lake milk, which was shipped to North Bay and reshipped to Kirkland Lake. He also supervised the first two weeks' operations of the pasteurizing plants at Kirkland Lake.

I also spent several weeks on this epidemic supervising the disinfecting of all cow stables, sterilizing of milk houses and their utensils, and segregating and shipping out the condemned cows and taking charge of all general matters pertaining to sanitation in connection with this epidemic.

In the railroad construction camps on the T. & N.O. north of Cochrane, and the Abitibi Power Development camps, operations have been going on all through the past year without any communicable disease developing. The system of compulsory vaccination against smallpox and inoculation against typhoid fever which the Dominion Construction Company, who are operating in that area, insist each employee take advantage of, is responsible for this good record. Your inspector at Cochrane was responsible for the inauguration of this system.

In the past year 1,285 inspections were made by your sanitary inspectors. These inspections covered bush, construction, mining, railroad right-of-way, highway, sawmill and boys' summer camps, tourist camps, hotels, dairies, rural schools, water supplies, sewage disposal systems, tourist booths and unorganized villages, and visits in connection with outbreaks of communicable diseases.

DIVISION OF VITAL STATISTICS

S. J. MANCHESTER, Director

The Division of Vital Statistics (Registrar-General's Branch) received approximately 134,000 records of births, deaths and marriages during the past year. This represents in round figures 68,500 births, 38,000 deaths and 27,500 marriages. This makes 161,500 names to be compared, indexed and filed for future reference.

Against this the Department issued over 27,000 official certificates and above 30,000 letter forms certifying to registrations on file, about 20,000 of which were furnished free to applicants for Mothers' Allowances, Old Age Pensions, Returned Soldiers' Pensions and Insurance, Children's Aid Societies, etc., etc.

The Annual Report for 1929, dealing with the vital statistics of the Province, was issued and is available and sent free on application.

From this report the following information is taken:

Population (estimated for 1929).			
Births.....	68,458	— rate per 1,000 population.....	20.9
Deaths.....	38,123	— “ “ “ “	11.7
Marriages.....	27,605	— “ “ “ “	8.4
Deaths under 1.....	5,203	— rate per 1,000 births.....	76.0
Maternal mortality.....	368	— “ “ “ “	5.16
Tuberculosis.....	1,703	— rate per 100,000 population.....	52.0
Organic heart disease....	5,891	— “ “ “ “	180.0
Cancer.....	3,402	— “ “ “ “	104.0

DIVISION OF MATERNAL AND CHILD HYGIENE

JOHN T. PHAIR, M.B., D.P.H., Director

There is an apparent feeling on the part of certain groups of people in this and other provinces, that official health agencies are not sufficiently seized of their responsibility in the matter of maternal deaths; without attempting to justify any unwarranted inactivity on the part of health departments in the solution of this vital problem, one is tempted to draw to the attention of those interested, the conditions apparently influencing the deaths of women in labour in this Province. A careful survey of the causes given by the attending physicians as being responsible for such deaths, evidences the fact that maternal deaths fall into two large groups—those that are influenced by the physical state of the woman prior to confinement and those that result from circumstances definitely associated with the period of labour. Both are, primarily, problems of treatment. The whole question of lessening maternal deaths is one of adequate medical supervision during the pre-natal period, and the maximum of obstetrical service during labour. No health department can do any more than urge that the two parties concerned, namely, the expectant mother and the attending physician, should establish a professional contact at the earliest possible moment, and maintain such contact until well on in the post-natal period; and further, to place before the profession, their responsibilities in terms of the maximum of obstetrical care. When the importance of these facts is appreciated by organized medicine, and those in charge of medical education, a forward step of considerable magnitude will have been made.

During the latter part of the year just concluded, it was found possible to put into effect plans which have, for some time, awaited sufficient personnel to permit of their operation. In one of these, an effort is being made to gather accurate information as to the relative importance of certain factors which are presumed to influence the health of infants. A team of four nurses has been engaged in this work since September. If the results of the survey warrant it, the survey will be extended to other counties that show a higher-than-average infant death rate.

The Division, with the co-operation of the Division of Public Health Education, is attempting to devise some constructive plan of bringing to interested teachers in both primary and secondary schools, the best of the wealth of health-teaching material which is distributed by voluntary agencies, health departments and commercial houses. It is hoped that, by the end of the incoming year, some practicable plan may be devised for measuring the merit of such material and of making easy the distribution of such of it as has been found worthy of approval.

There has been evidenced, in an increasing number of centres, a tangible interest in some type of health supervision for the pre-school age child. Clinics have been set up for the regular examination of these children in several municipalities, and parents are being generally encouraged to consult the family physician regarding the health status of their children, well in advance of their

admission to school. The success of this work in the city of Kitchener, under the leadership of the local health department, is worthy of note.

The extension of school health supervision, through the medium of the establishment of a satisfactory type of public health nursing in rural and small urban municipalities, is proceeding so slowly that one is justified in questioning the applicability of the present programme. Despite the efforts of the Division staff, there is no appreciable evidence of a widespread interest on the part of the rural dweller in this type of health service. While one is naturally sympathetic to the resentment of the average citizen to any measure which presumably increases taxation, even in a slight degree, the excuse of financial inability to assume the service is probably used altogether too often. There is, however, an increasing interest on the part of municipalities in which the service is established, to see that it is maintained at the highest possible level of efficiency comparable with financial practicability. Some \$35,000.00 was awarded in grants for this service by the Departments of Education and Health during the year.

The service rendered by the members of the field staff in Northern Ontario has, to some extent, been curtailed by the necessity of providing personnel for the surveys previously mentioned. That this work is of value in terms of the health of the individuals served is evidenced by the figures below; that it is appreciated, is demonstrated by the requests we have received from the areas previously served for its re-establishment.

The medical staff examined 2,814 children, and found them to be suffering from a total of 3,766 defects, including teeth. The nursing staff examined 7,894 children and noted the existence of 8,189 physical abnormalities, including teeth. They visited 6,451 homes and were able to influence parents into having the recommendations of the family physician put into effect in 1,014 cases, and those of the family dentist, in 3,308 instances. Among the group examined, 805 were found to have defective vision and 222 measurable partial deafness. The difficulties confronting parents in the more sparsely settled portions of the Province, irrespective of their interest in having defective vision and hearing corrected, are very real. The services of a competent oculist and aurist should be made as readily available for these people as for those resident in more easily accessible parts of Ontario.

The nursing staff co-operated with the Division of Dental Hygiene in the securing of dental treatment for a large number of the children resident in the areas in which they were operating. About 2,400 children were also immunized against diphtheria, as the result of the activities of the field staff.

The reception accorded the Director by the staff and students of the normal training schools for teachers, when the annual course of lectures on child health was given, was all that could be expected. I am frankly of the opinion, however, that the prompt establishment by the Department of some more satisfactory method of health supervision over these students is urgently required.

The enforced retirement of Miss Helen Shearer from the position of Supervisor of School Nursing, on account of ill health, and the acceptance of administrative posts by Miss M. Walker and Miss M. Nealon, leaves in the ranks of the nursing staff a gap which it is extremely difficult to fill.

The following municipalities or combinations of municipalities have established an approved type of school health supervision during the year:

Paris;

Kenora;

North York Township;

The Village of Ayr and the adjoining Townships of North and South Dumfries;

Richmond Hill and the Township of Vaughan and the City of Port Arthur.

DIVISION OF SANITARY ENGINEERING

A. E. BERRY, M.A.Sc., C.E., Ph.D., Director

I have the honour to submit the report of the activities of the Division of Sanitary Engineering for the year 1930.

The year 1930 was an exceptional one. In the early months and during the summer period a general depression was felt. This had a very decided effect on sanitary engineering projects. There was a tendency to delay works of this nature in order to keep down expenditures as far as possible. With the inception of the Government proposals to provide financial grants for unemployment relief, the situation altered materially. Many municipalities who had delayed their programs were stimulated by the opportunity to secure financial grants, and at the same time to provide employment rather than adopt direct charity. The fact that water works, sewerage and other sanitary works were regarded with favour by those responsible for the allotment of the grant had a very beneficial effect upon the initiation of these works. The result has been that many municipalities with retarded programs undertook them and are now in a favourable position, as far as these requirements are concerned. This action by the governments and by the municipalities has been responsible for a great many installations of sanitary works, including extensions of watermains and sewers, together with the construction of new systems. The details of these works will be found later in the report.

SUPERVISION OF WATER WORKS AND SEWERAGE PLANTS

The regular periodic inspection of water treatment plants and sewage disposal works has been continued. The engineers of the Department visit these plants from time to time, and assist as far as possible the operators in their work. Where chlorination plants are in use ortho-tolidin and colour standards have been supplied free of charge. It has been found necessary in a great many cases to alter the chlorine dosage, and to make such other changes as would bring the plant into proper working efficiency. This service has been of assistance to the operators and very valuable protection to the water consumers on the various public supplies. In these inspections samples of water are collected for both bacterial and chemical examinations. The Department now has complete chemical analyses from practically all the public water supplies in the Province. This information is forwarded to the municipalities and is of value both to the operators and to the Department.

Inspections of sewage treatment plants have been more frequent in the past year than previously. There is a great field of usefulness in checking up on these plants and assisting the operators in their difficulties. The plants continue to increase in numbers and the necessity for direct supervision from this Department is likewise increasing. The activated sludge plants in the Province are for the most part working quite effectively. At times difficulties are encountered, but these are generally of short duration and have been readily corrected either by the operators, or by measures recommended by engineers from the Department. The successful operation of these plants is very essential. With the large capital invested it would be most unwise to permit the plant to function in a haphazard way. Many of the plants are also located at points

which do not permit of inefficient results. Odours and stream pollution of a serious nature would soon follow. If personnel were available a good deal more could be done towards supervising the operation of both water treatment plants and sewage disposal works. It has been found difficult to secure properly trained men for this work.

WATER CHLORINATION INSTALLATIONS

Few new installations of chlorination equipment have been made during the past year. A number of replacements have been necessary and duplicate equipment has been purchased for some plants. Chloride of Lime equipments are in operation now only at Deseronto, Keewatin, Niagara-on-the-Lake, Norman and Thornbury.

The total number of chlorination plants now in operation in the Province is 156. Over 80% of all the water used for domestic purposes in public supplies is chlorinated; a fact which has done much to reduce the typhoid fever death rate to the present low figure.

It is unfortunate that more duplicate chlorination plants have not been made. The price of the machine is apparently a deterrent to the purchase. There is a tendency for larger municipalities to purchase duplicate equipment, but these have not been made in anything like the proportion called for. Duplicate equipment is very desirable at all plants where continuous or practically continuous pumping is necessary. While these machines appear to be somewhat expensive they are in reality an exceedingly cheap form of protection. The use of duplicate machines is an important step in the right direction for all plants. Very frequently when a breakdown occurs the operator is forced to by-pass the broken part and to control the dosage as best he can, or to cease chlorination entirely until the repair can be made. It seems impossible to adequately impress upon some operators the necessity for continuous operation of chlorination equipment. The danger from short stoppages do not seem to appeal to some operators to the extent that it should.

TYPHOID FEVER

Water-borne typhoid fever outbreaks originating in public water supplies have been absent during the year 1930. This can partly be attributed to the fact that such a high percentage of water is treated, and also that the condition of the raw water has been favourable. Some isolated cases of typhoid have occurred which would seem to be due to private water supplies, or semi-private supplies. These are always difficult to control, and so long as typhoid carriers, unrestrained in their activities, are permitted to go about this danger will always be a real one. The typhoid fever death rate for the Province has continued to decrease fairly consistently for a number of years. It has now reached the point where it is doubtful if much advance can be made until better control is possible over carriers, and over milk and food supplies. The fact that these outbreaks from public water systems are rare is an indication that the control of the disease must be directed at factors, other than public water supplies. The Department has urged the installation of public water systems wherever possible. In this way it is hoped to prevent illness from private supplies, especially in the congested areas where the danger is greatest.

The typhoid death rates for the past ten years for the Province is given in the following table:

Typhoid Fever Death Rates per 100,000 Population in Ontario

1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
7.0	7.2	6.0	7.8	3.5	4.4	2.4	3.4	2.4	2.9	2.2

While the present rate is quite low in comparison with most other places it is however still higher than is desirable.

SUPERVISION OVER RECREATIONAL CENTRES

New methods were adopted during the year for the better control of areas utilized for recreational purposes. Supervision over the tourist camps and refreshment booths were carried on in much the same way as in previous years. Inspections were made to determine whether or not the camps and booths would meet the standard set by the Department. Certificates of approval, together with banners, were issued as usual to those which complied with this standard. As a result of the Shriners' convention held in the city a special effort was made to bring the camps and booths in the vicinity of Toronto to the point where they might be approved. A considerably greater number of inspections were made as a result of this. There were improvements and a larger number of certificates issued. A special effort is made in these inspections to instruct the different parties in respect to the measures necessary to improve their facilities. The inspection has never been regarded as a mere examination. It serves as a useful guide and aid to those who desire to bring their camps and booths up to a high standard. In all this work the standards have been kept on a high plane, yet, it does not involve a great deal of expense on the part of the operator. Every effort has been made to ensure that the water supplies and sanitary accommodation in a camp are all that is desired. In the refreshment booths there has been a tendency towards screening, and also towards the sale of goods which are not exposed to dust and fly-borne infections. In very few of the booths are soft drinks prepared. Ice cream cones and similar refreshments are protected against contamination.

In addition to the work during the past year in connection with tourist camps and refreshment booths an added effort was made to supervise sanitary conditions in the Muskoka Lakes, Georgian Bay, Lake of Bays and other lakeland summer resorts. In order to carry on this work, it was felt desirable that men should be permanently located during the vacation season at strategic points. Accordingly, engineers were placed at Midland to work on the Georgian Bay; Port Carling to work on the Muskoka Lakes, and at Huntsville to carry out work on the Lake of Bays, and at Bracebridge to work on the lakes south of that point. Engineers were kept at these points during the entire vacation season; they made periodic inspections of hotels, boarding houses and individual cottages. A detailed survey was made to determine whether the water supplies at these centres were satisfactory; whether the disposal of sewage was adequate to prevent contamination of the waters, and whether the milk supply was sanitary. All other matters pertaining to sanitation and nuisances were also dealt with by the engineers. It is gratifying to know that a decided improvement was manifest in many of these centres. The water supplies in the hotels are now largely chlorinated and the public protected against water-borne diseases. It is

essential that if supervision necessary to maintain the value of these holiday centres is to continue, then an inspection of the area in this way will be required. The discharge of untreated sewage into the waters is now comparatively scarce. Sewage treatment plants for the hotels and other public places are being gradually brought up to the proper standard. In milk control it is not easy to reach the ideal condition. Milk supplies in some of these sections are not plentiful. This results in the producers having no difficulty in disposing of their product, even though it is not protected, or produced under undesirable conditions. There seems only one answer to this condition, namely, that the householder must pasteurize the milk at his own home. There is some pasteurized milk shipped in, but in the most isolated places raw milk is still in use, and its consumption, without treatment, cannot be recommended.

SANITARY SURVEYS

Little opportunity has been available during the past year for carrying out sanitary surveys. Surveys were made only in the following places: Vankleek Hill (repetition), Ayr, Glencoe and Richmond Hill. This brings the total of surveys to date up to 240. Many of the municipalities in this list were surveyed a number of years ago, and it would be both interesting and valuable to carry out a further survey. This would indicate what progress has been made in that interval. It is hoped that personnel and time will be available during the year 1931 to carry out some of this work.

MILK CONTROL

The activities of the Division with respect to milk control have been limited. No province-wide program has been undertaken. Since the Department of Health is not charged with this responsibility it has continued to act only in an advisory capacity. The requests, however, from various municipalities for guidance in their milk control programmes has very naturally increased. A number of medical officers of health have requested the assistance of the Department's engineers to make studies of their pasteurizing plants, as well as the raw milk delivered to these plants. Some of the pasteurizing plants, in these surveys, showed that they were doing very effective work. On the other hand, several plants showed that they were unable to keep their bacterial counts down to a point at all reasonable. The high bacterial counts can largely be attributed to inefficient operation and to improperly designed equipment. The operators of most dairies are only too glad to introduce any measure which the Department can suggest as a remedy for these high bacterial counts and low keeping qualities of the milk. There are still a great many plants in the Province which are operating with ineffective equipment. Some of these dairies have installed pasteurization on their own initiative. No by-law has made it compulsory. Under these conditions it hardly seems feasible to ask these men to spend additional sums of money to improve their plants when milk without any treatment whatever is permitted to be sold in the same municipality. It is not easy to control pasteurizing plants until a by-law has made pasteurization of all milk supplies compulsory in that area. Many of these plants are receiving milk with extremely high bacterial counts, and with a large quantity of sediment and dirt present. It is very evident that there is a distinct need for instruction among the producers. Much of this work can be carried on at the dairies as the milk is brought in.

The following list of municipalities in Ontario have compulsory milk pasteurization, or have 100% of their supply pasteurized according to the records of the Department: Galt, Hamilton, Toronto, East Windsor, Iroquois, Iroquois Falls, Leamington, Richmond Hill, Kirkland Lake, Chatham, Niagara Falls, North Bay, Aurora, Copper Cliff, New Toronto, Sudbury, Waterloo and Elora.

MILK-BORNE EPIDEMICS

Milk-borne outbreaks have made their appearance in this Province during the past year. At Belleville 18 cases of typhoid fever developed as a result of a typhoid carrier on the farm of one of the producers. This raw milk carried the infection to the consumers on that route. It is a very strong argument that raw milk is always dangerous. At Kirkland Lake, Ontario, a very severe epidemic of septic sore throat was encountered. Some 472 cases with six deaths were reported. This was also traced to a raw milk supply. Full details as to this outbreak appear elsewhere in the report of the Department. It is worth noting that this supply came from a supposedly tuberculin-free herd and a supply which was given regular inspection. It is evident that the epidemic could only have been prevented by proper pasteurization. This measure has been made compulsory since the outbreak. All of these epidemics here and elsewhere continue to pile up evidence to the effect that there is only one sure method for preventing milk-borne diseases. Adequate pasteurization under proper supervision is the answer. There is not one valid argument against pasteurization.

STREAM POLLUTION STUDIES

Stream pollution studies were carried on during the year at the following points throughout the Province:

- 1st—The Grand River at Waterloo to a point below Kitchener.
- 2nd—The Thames River from above London to a point below the Springbank Dam.
- 3rd—On the Detroit River from a point opposite Little Creek to a point below the Windsor water intake.
- 4th—On the Old Welland Canal from the vicinity of Merritton and Thorold down to Port Dalhousie.
- 5th—On Lake Erie in the vicinity of Crystal Beach.
- 6th—On the Don and Humber Rivers.

These studies were made to determine the extent of pollution, and objectionable situations in this way may be corrected, and data is made available as to how much additional pollution may be permitted without creating offensive conditions.

At Crystal Beach serious complaints were voiced as the result of a plankton growth close to the shore. This growth was very extensive in certain shallow bays. It was not objectionable so long as it remained fresh, but as it was washed upon the shore and in very shallow water it began to decompose and give off a very offensive odour. The odour was not unlike the decomposition of sewage sludge. Naturally the residents in that area attributed this condition to the presence of the sewage disposal plant. The analyses did not, however, show that the sewage disposal plant was entirely responsible for this state of affairs. Studies were made to determine the effectiveness of copper

sulphate in checking the growth in shallow bays comparatively free from wave action. This chemical destroyed the growth and, of course, it then had to be removed from the water to prevent decomposition. It is possible that the effluent from the disposal plant is serving as a fertilizer for this plankton.

During the year the Stratford sewage disposal plant was completed and put into service. It was interesting to note how quickly the serious contamination in the stream cleared up in response to proper operation of this plant. It is expected that the enlargement of this plant has corrected a long standing condition in the stream and that the riparian owners below the outfall should not have occasion now to raise objection to the discharge of this sewage.

NUISANCES

Many requests continue to come to the Department for engineers to inspect nuisances and sanitary matters within the different municipalities, particularly in the summer season. It is sometimes difficult to immediately comply with all these requests. The limited personnel of the Division and difficulty of securing properly trained men is a handicap. This condition is also augmented by the fact that the engineers have to travel from Toronto for each inspection. The yearly increase in the amount of work carried on by the Division of Sanitary Engineering indicates that a change in organization would be desirable. It is impracticable under present methods to give as adequate supervision to water works, sewerage and similar works as would be desirable. If engineers were stationed at suitable points throughout the Province a closer contact could be maintained and the work could be carried on more effectively.

WATER AND SEWERAGE CERTIFICATES ISSUED

Certificates for water works and sewerage installations issued during the year 1930 represent a combined expenditure of \$15,956,010.65. These are listed in detail by municipalities.

The following article deals with the activities in water works and sewerage problems during the past year, and also expansions which may be looked for in the year 1931.

ONTARIO WATERWORKS AND SEWERAGE ACTIVITIES 1930

The close of the year 1930 will see nearly 275 municipal waterworks systems in operation. These can supply a population in excess of two millions. This figure includes nearly all communities in excess of 1,000 people. Many municipalities much smaller than this have also installed waterworks. Several of these works have been undertaken with uncertainty and doubt as to the feasibility of carrying such financial burdens. A retrospective survey will show that these doubts have not materialized. The debentures have been met, and the operating expenses paid with but little if any criticism from the water consumers. It is doubtful if any public utility affords the beneficiary as great satisfaction as does a municipal water supply. Once established all criticism is soon dispelled. This situation might well be taken to heart by those smaller centres where such doubts still remain. The very slow rate of increase in population of most villages affords but little inducement for delay of the programme.

Ontario water supplies are derived mostly from surface sources, sixty per cent. in all. Deep wells are utilized for 26% of the systems and springs for 14%. The extensive use of surface supplies necessitates much water treatment. Thirty-five per cent. of this water is filtered and more than eighty per cent. is chlorinated.

WATERMAIN EXTENSIONS IN 1930

Watermain extensions of some importance have been made this year or are now in progress in many municipalities, including the following: Etobicoke Township, Fort Frances, Galt, Hamilton, North York, Sandwich, Scarboro, Swansea, Toronto, Windsor, and York Township. A number of smaller municipalities have, on a per capita basis, also made extensions of note.

NEW WATERWORKS SYSTEMS

The number of new waterworks systems undertaken during the year has probably exceeded those of most other years. The village of Tweed has completed a small system with a well for supply. This will serve the larger part of the municipality. The citizens of Lucknow found it necessary to vote a second time within a few months before their waterworks project was endorsed. The system is now under construction. The village of Stoney Creek, near Hamilton, has taken advantage of government aid and let contracts for a small system. Nepean Township, adjoining the city of Ottawa, is now making progress on a somewhat extensive waterworks system to supply the more thickly populated areas. The town of Almonte is now building a much needed water system. A municipal waterworks is being undertaken by the village of Durham. A privately owned system has been in operation in part of the area for some time. The village of Bradford has successfully endorsed a waterworks scheme. Good progress has been made on the installation. None of these works are very large but their construction marks a further step towards providing these facilities to the comparatively small centres of population in the province.

WATER TREATMENT WORKS BUILT

Noteworthy progress in water treatment works in Ontario can be attributed to the present year's activities. Last year saw the initial steps for several large filtration works. These have been advanced very materially during the year. The city of Ottawa filter plant has progressed rapidly, and is now sufficiently advanced to enable work to proceed during the winter. This plant should be in operation some time before the end of 1931. The city of Belleville has also made rapid strides towards the completion of their filtration works. The Niagara Falls filter plant has been started and work should be carried on without delay. The new plant for Brantford has also been under construction for some time. The extensive waterworks programme for the city of Toronto has been advanced very materially during the year. St. Thomas initiated during the year a programme for extensive changes at their waterworks plant. This will involve a new filter plant. Work has been started on part of this project. Plans are now in the course of preparation for a mechanical filtration plant in Hamilton. Work on construction should begin early in the new year. Among the somewhat smaller filtration plants of the year may be mentioned New Toronto. Here an extension is being made to the filter works and a new intake installed. The

town of Napanee has also been constructing a small filter plant. The Arnprior treatment plant was completed and put into service early in the year. This list reveals a programme of unusual interest in water filtration.

The number of new water chlorination plants installed during the year has not been large. The high percentage of water already under treatment excludes any major change in this field. Changes taking place have been mainly in replacement of old machines or substitution of liquid chlorine for bleach equipment.

DEEP WELL WATER SUPPLIES

The recent installation of waterworks systems in the smaller and more inland municipalities has given prominence to the use of deep wells as a source of supply. In many cases no alternative was available, in others the wells have been sunk to replace existing surface supplies. The general satisfaction from these wells, and the guarantee conditions attached to their development has greatly extended their use. There seems every indication that further use will also be made of them in the near future.

During the past year new deep wells have been developed. At Aylmer, to replace a surface supply; at London, to augment their present supply; and at Tweed, Bradford and Lucknow, for new waterworks systems. Woodstock has been successful in developing a well to supplement that from the spring area from which they now derive their supply. The town of Simcoe has also developed a well and will probably be able to abandon their present spring source. The town of Essex has been only partially successful in an effort to secure further supplies from underground. St. Mary's has let a contract for a new well to be sunk at some distance from their existing wells. In addition to these wells a number of others have been contemplated and should be undertaken in the near future.

WATERWORKS PROGRAMME FOR 1931

The relief programmes begun during recent months and in which waterworks are involved will in most cases continue for some time in the new year. It may also be anticipated that some entirely new waterworks systems will be inaugurated next year. Extensions of mains may also be expected in several of the larger centres both as necessity arises and as employment measures.

The initiation of new waterworks projects is often difficult to predict. Some are begun without much previous study while others have been considered for so long that very little action is anticipated. The new systems begun this year in Nepean Township, Almonte, Lucknow, Bradford, Stoney Creek and Durham should all be completed and in operation early in the new year. The village of Exeter, now provided with a fire supply only, is expected to convert this during the year into a domestic supply from deep wells. The village of Ancaster has also been endeavouring to install a new system. The village of Caledonia, if a deep well supply is feasible, should undertake the construction of a waterworks system this coming year. The village of Port Perry is in need of a water supply which can replace the present fire system. Tilbury has been striving for some time to solve a difficult situation in respect to waterworks. Some solution may be possible next year. The village of Uxbridge is favoured by having a flowing well available for municipal use. The present supply from a polluted source is for fire purposes only. Dresden has not yet considered the time opport-

tune to embark on a replacement of their present fire supply. Action should follow here in a short while. The area adjoining Cooksville has felt the need of a waterworks for some time. The villages of Bolton, Arthur and West Lorne are endeavouring to develop waterworks systems. A number of other small centres may be expected to at least give definite study to new waterworks proposals.

PROPOSED TREATMENT WORKS

No large water treatment works are anticipated for next year. Those started or initiated this year will be carried towards completion. The Hamilton plant should be under construction early in the new year. An extension to the Essex Border filter plant has been under consideration for some time and will probably see some definite action within the next year.

CHANGES IN SOURCES OF SUPPLY

Deep wells continue to be gaining favour as a source of water supply. Especially is this true in the smaller centres. Recent installations include Lucknow, Tweed, Bradford, Simcoe, Essex, Woodstock, Aylmer, Almonte, Durham, Ancaster, Weston, St. Marys and others.

New wells are also proposed for Exeter, Dresden, Colborne, Huntsville, Bolton, Lambeth and North York Township, West Lorne and Arthur. At Alexandria work has begun on deep wells to replace the present surface supply. The town of Lindsay, confronted with an unpalatable water, may consider deep wells as a solution. Wells are also considered at Tillsonburg to augment their present source. An effort is to be made at Burk's Falls to replace a highly coloured surface water with a deep well supply. The village of Nipigon is also interested in a deep well project.

At Burlington the well drilling experiments have not yet proven satisfactory. Failing this a change in source of supply with possible treatment works is looked for. At Fort Erie a new elevated tank is under construction. The municipalities of Fort Erie and Bridgeburg have voted in favour of amalgamation. This should result in a forward step towards improving the water and sewerage situation of both centres. At Hamilton the new water reservoir is well under way. An extension to the Oshawa filter plant has been considered necessary for the near future. A new reservoir is under construction at Preston.

Among the miscellaneous waterworks projects for next year may be mentioned a new reservoir and connecting mains for Hamilton. This will serve a high level area of the city. Reservoir capacity may also be provided at Bowmanville and the Essex Border filter plant. Extension of the Oshawa filter plant with new pumping station and general enlargement of plant has been considered a necessary programme for that city.

SEWERAGE

The year's progress in sewerage works in Ontario has been influenced very largely by conditions similar to those found in the waterworks field. The early part of the year witnessed a slackening in work only to be followed by a very active period at the approach of fall. The opportunity for employment of manual labour, together with the financial grants offered by the government has made sewerage works an attractive programme. Most of the work undertaken has

consisted of extensions to existing sewers with some new systems and disposal works included for the smaller centres.

SEWER EXTENSIONS

The sewer extensions approved by the Department of Health for this year have reached a total expenditure of nearly ten million dollars. The city of Toronto has made a number of large extensions. The surrounding townships, namely: York, East York, Scarboro and Etobicoke, have all extended their existing systems although probably to a less degree than in former years. The city of Hamilton has under construction some large sewers for sanitary and storm purposes. Ottawa and Windsor have also been engaged in programmes of some size. London is employing hand labour on a large relief sewer for a defined area of the city. The city of Sarnia is extending the large storm sewer at its border and providing sanitary facilities for that area. This is also a relief work. Sewer extensions of note have also been under construction in the following municipalities during the year: Carleton Place, Forest Hill, Fort Erie, Hanover, Leaside, Mimico, Peterboro, Sandwich Town and Sandwich Township and Swansea. At Chatham an outlying area has been sewerred, and a pumping station provided. At Lindsay a sewage pumping station and force main is being installed in order to abandon an outlet in the town.

NEW SEWERAGE SYSTEMS

New sewerage systems have been undertaken at Nepean Township with outfall into the Ottawa trunk sewers; and at Almonte in conjunction with the waterworks systems. At Tweed the sewer construction programme has been carried on during the year. The new system at Grimsby has been completed and placed in service. At Orillia a major alteration has been made to the existing sewers. New sewerage systems have been completed during the year at Port Colborne, Swansea, Orangeville and Alliston.

NEW SEWAGE DISPOSAL WORKS

Very few sewage disposal works have been initiated in the province during this year. Two activated sludge plants have been completed at Port Colborne. Small plants of the same type have also been put into service at Swansea, Orangeville and Alliston. At Stratford the enlargement of the existing activated sludge plant was accomplished by the installation of additions of two Dorr clarifiers. At London the completion of the west end plant has already begun. Five screens with plain sedimentation have been in operation here. It will now be converted into an activated sludge plant, thereby providing the main step in the complete treatment programme for the city sewage. Interesting results have been obtained at this plant in the incineration of the fine screenings. This method will be further developed for sludge disposal in the completed plant. Preliminary sewage treatment plant is under construction at Sudbury. This plant will consist of fine screens and a destructor for burning the screenings and municipal garbage. York Township has built a sludge dewatering plant. Contracts have been let and work begun on preliminary sewage treatment works for Hamilton and Kitchener. An extension to the settling tank has been made at the Riverside activated sludge plant.

SEWERAGE PROGRAMMES FOR 1931

The completion of the sewerage works now under construction will, in many cases, be carried out in the early part of the new year. It is also anticipated that a number of other works will be initiated.

NEW SEWERAGE PROPOSALS

A new sewerage system is under consideration for the town of Fergus. In the Township of Etobicoke their sewerage proposal has met with a temporary setback. The village of Port Stanley is taking the preliminary steps for a complete sewerage system. Hanover is gradually building up a system of sewers which can be used for domestic purposes when disposal works are available. A sewerage system has been advocated at Aurora. The town of Essex has been considering a proposal for the municipality. In both Listowel and St. Marys, sewerage systems are very necessary. At Milton steps are being taken to build a sewerage system.

SEWAGE DISPOSAL WORKS

The present year promises to see the erection of a number of sewage disposal plants. The town of Brampton has decided to abandon their present activated sludge plant and to construct one of larger capacity on a site further downstream. Hanover is preparing plans for an activated sludge plant for about 3,000 population. Work is advancing on the London west end plant. This should be completed in early summer. The Kitchener sewage plant is also under construction. An extension to the activated sludge plant is planned at Crystal Beach. Sewage treatment works, of the activated sludge type, will be required at Milton with the new sewer system. The Fergus proposal also involves treatment works. An extension to the Waterloo plant is expected. A treatment plant for the city of North Bay is under discussion by that municipality.

At the end of the present year there are in Ontario nearly seventy municipal sewage disposal plants, of which twenty-five are of activated sludge. Sludge digestion in heated separate tanks is in operation in seven of these plants. Glass covered sludge drying beds are in use at ten plants.

The various water and sewerage projects which have been listed here point the way for a substantial programme in the field. Several others, not set out, will undoubtedly follow as the year advances. While other works are retarded through financial conditions it is gratifying to note that sufficient importance is attached to the need for water and sewerage facilities to prevent their undue delay.

CERTIFICATES ISSUED RE SEWERAGE FOR THE YEAR 1930

Municipality	No. of Certificates Issued	Extensions	Disposal	New
Almonte.....	1			\$75,000 00 (Preliminary)
Barrie.....	1	\$766 00		
Belleville.....	2	29,209 80		
Brampton.....	5	90,647 54		
Brantford.....	1	11,776 00		
Bridgeburg.....	2	9,766 00		
Chatham.....	2	108,634 05		
Carleton Place.....	2	34,844 15		
Cornwall.....	1	14,560 00		

CERTIFICATES ISSUED RE SEWERAGE FOR THE YEAR 1930

—Continued

Municipality	No. of Certificates Issued	Extensions	Disposal	New
Crystal Beach.....	..	\$11,280 00		
Dunnville.....	1	825 00		
Durham.....	1	16,000 00		
East York Township.....	9	63,475 26	\$18,046 55	
Elmira.....	1	4,931 20		
Etobicoke Township.....	3	27,540 00		
Forest Hill Village.....	3	151,100 00		
Fort Erie.....	4	57,481 00		
Fort Frances.....	1	2,641 20		
Fort William.....	9	103,577 88		
Galt.....	2	21,489 32		
Grimsby.....	1	46,102 00		
Guelph.....	1	14,394 00		
Hamilton.....	8	1,605,863 00		
Hanover.....	3	74,745 63		
Kingston.....	1	2,113 32		
Kingsville.....	1	999 00		
Kitchener.....	3	29,755 05	357,500 00	
Leaside.....	1	30,000 00		
Lindsay.....	1	17,080 00		
London.....	5	167,867 67		
McIntyre-Porcupine Mines, Limited, Schumacher.....	..	5,516 74		
Midland.....	1	27,500 00		
Mimico.....	1	30,450 00		
Morrisburg.....	1	1,959 00		
Nepean Township.....	2			\$187,680 00
New Toronto.....	2	22,900 00		
Newmarket.....	1	5,300 00		
Niagara.....	1	9,000 00		
Niagara Falls.....	1	3,644 12		
North Bay.....	4	5,272 91		
Oakville.....	1	6,688 24		
Oshawa.....	4	86,095 75		
Ottawa.....	14	265,860 57		
Palmerston.....	1	3,750 00		
Pembroke.....	1	562 38		
Peterborough.....	3	58,013 50		
Port Colborne.....	4	25,837 18		
Port Hope.....	7	30,095 74		
Preston.....	1	9,013 73		
Rainy River.....	1	3,295 00		
Renfrew.....	1	638 17		
Riverside.....	1	13,500 00		
Rockcliffe Park.....	3	20,321 05		
St. Catharines.....	2	19,709 00		
Sandwich.....	13	130,114 27		
Sandwich East.....	3	5,774 23		
Sandwich West.....	6	175,058 29		
Sault Ste. Marie.....	2	78,502 00		
Sarnia.....	3	231,350 00		
Scarboro Township.....	6	30,352 26		
Simcoe.....	1	5,616 00		
Stamford Township.....	3	17,187 99	16,000 00	
Stratford.....	2	17,781 36		
Sturgeon Falls.....	2	82,500 00		
Sudbury.....	6	247,463 12	160,600 00	
Swansea.....	13	215,458 20		
Teck Township.....	1	20,951 04		
Toronto.....	44	2,956,433 00		
Tweed.....	1	5,200 00		
Waterloo.....	3	32,374 00		
Weston.....	4	63,449 00		
Whitby.....	2	4,588 52		

CERTIFICATES ISSUED RE SEWERAGE FOR THE YEAR 1930

—Continued

Municipality	No. of Certificates Issued	Extensions	Purification	New
Windsor.....	1	\$111,994 44		
Woodstock.....	2	86,941 00		
York Township.....	10	972,470 63		
Totals.....	262	\$8,895,946 50	\$552,146 55	\$262,680 00

CERTIFICATES ISSUED RE WATERMAIN EXTENSIONS, PURIFICATION, ETC.,
FOR THE YEAR 1930

Municipality	No. of Certificates Issued	Extensions	Purification	New
Almonte.....	1			\$75,000 00
Aylmer.....	2	\$1,750 00		25,000 00
Belleville.....	1		\$200,000 00	
Belle River.....	1	12,239 42		
Bertie Township.....	1	10,530 00		
Bradford.....	2			48,000 00
Brampton.....	1	25,000 00		
Brantford.....	1		540,000 00	
Bridgeburg.....	1	5,621 00		
Capreol.....	1	3,936 00		
Carleton Place.....	2	11,059 00		
Crystal Beach.....	3	6,925 00		
Durham.....	1			50,000 00
East Windsor.....	1	16,899 30		
East York Township.....	5	17,330 91		
Etobicoke Township.....	20	209,655 00		
Fonthill.....	1	6,500 00		
Forest Hill Village.....	5	7,163 12		
Fort Erie.....	3	2,750 00		
Fort Frances.....	1	13,300 00		
Fort William.....	5	62,514 19		
Galt.....	1	17,373 77		
Gravenhurst.....	1	4,422 70		
Hamilton.....	9	799,811 00		
Hespeler.....	3	9,983 97		
Kitchener.....	2	9,319 50		
Leamington.....	1	9,850 00		
London.....	2	104,227 00		
London Township.....	1	15,008 91		
Lucknow.....	1	65,000 00		
McIrvine Township.....	2	4,816 69		
Mimico.....	2	11,900 00		
Nepean Township.....	3			71,320 00
New Toronto.....	1	158,500 00		
Niagara Falls.....	5	50,200 00	855,000 00	
North York.....	8	147,620 00		
Pembroke.....	2	69,226 51		
Peterboro'.....	2	11,642 03		
Port Dover.....	1	6,461 42		
Port Stanley.....	1	8,000 00		
Rainy River.....	2	19,005 00		
Rockcliffe Park.....	5	35,020 00		
Sandwich.....	7	55,129 65		
Sandwich East.....	4	51,843 36		
Sandwich West.....	7	60,584 54		

CERTIFICATES ISSUED RE WATERMAIN EXTENSIONS, PURIFICATION, ETC.,
FOR THE YEAR 1930—*Continued*

Municipality	No. of Certificates Issued	Extensions	Purification	New
Scarboro' Township.....	2	\$45,659 75		
Stamford Township.....	1	29,933 64		
Stoney Creek.....	1			\$68,983 00
Sudbury.....	1	61,399 00		
Swansea.....	4	36,385 25		
Teck Township.....	1	28,311 10		
Thorold Township.....	1	5,786 74		
Toronto.....	23	940,408 06		
Trafalgar Township.....	1	12,500 00		
Tweed.....	2	16,000 00		
Walkerville—East Windsor.....	1	712,573 05		
Waterloo.....	1	6,162 56		
West Ferris Township.....	1	7,479 00		
Whitby.....	5	35,336 75		
Windsor.....	2	51,506 00		
Weston.....	7	61,218 68		
Wingham.....	1	8,500 00		
Woodbridge.....	1	1,700 00		
Woodstock.....	1	11,151 00		
York Township.....	10	101,805 03		
Totals.....	199	\$4,311,934 60	\$1,595,000.00	\$338,303.00

SUMMARY

	Applications	Estimated Cost
Re Water Works:		
Extensions to existing system.....		
Purification of water supplies.....		
New systems.....		
Total.....	199	\$6,245,237 60
Re Sewerage:		
Extensions to existing systems.....		
Treatment works.....		
New sewerage systems.....		
Total.....	262	\$9,710,773 05

The total number of applications favourably reported upon re water works and sewerage for the year was 461 and involves an estimated expenditure of \$15,956,010.65.

DIVISION OF DENTAL SERVICES

FRED J. CONBOY, L.D.S., D.D.S., F.I.C.D., Director

Nineteen-thirty was a year of increased activity in connection with the operations of the Dental Branch of the Ontario Department of Health. The aggressive dental health educational campaigns carried on during the previous years, resulted in an enlarged demand for dental services, and the financial stringency decreased the number who could provide for themselves. Boards of health, boards of education and hospital boards were urged to establish dental services, and they in turn looked to this department for assistance.

At the beginning of the year, the sum of five thousand dollars was placed in the estimates for the purpose of supplying assistance to municipalities anxious to establish dental services. The Honourable the Minister of Health appointed a committee, composed of four dentists and the Deputy Minister of Health, to advise him in respect to the allocation of grants. This committee, after considering requests from various municipalities, recommended that dental grants for school clinics be made permanent, and departmental regulations drawn up governing the conditions under which they will be given. This met with the approval of the Government, and twenty-three municipalities have already taken advantage of this financial assistance.

The grants for school clinics range from seven and one-half per cent. of the annual cost of maintenance for municipalities of over twenty thousand population, to as much as thirty-five per cent. for municipalities of under one thousand. It is, of course, necessary that the dental service measure up to set standards, and that a nursing service be provided. The grants for school dental clinics will encourage local boards of health to undertake this important branch of health work, and it is confidently expected that each year will see an increased number of services of this kind established in the organized parts of the Province.

The dental work in the unorganized parts of the Province was also extended during the year. Four dentists were engaged for a period of three months and rendered very efficient services. Dr. Ross covered the districts around Rainy River, Redditt, Quibell, Nakina and Thessalon. Dr. Ellis first went to the places in the vicinity of Sudbury, from there to the Bruce Peninsula, and then to Manitoulin Island. Dr. Layter covered the area starting north of Cochrane and down to Cobalt. Dr. Brownlow spent four months in the service, two months he conducted clinics on school cars and during the remaining time he was at Whitney, Loring, and Wilberforce. Each dentist made an effort to reach the outlying places and to so operate the clinics as not to interfere with the practices of resident dentists. No attempt was made to provide artificial substitutes for lost natural teeth. The activities of the dentists were confined to extractions, simple fillings and prophylaxis. The work was organized by the district nurses, and much of the credit for its success is due to the efficiency of their efforts. The arrangements for some of the clinics were made by the Ontario Red Cross Society, and the work was done in the out-post hospitals.

The Ontario Department of Education co-operated in connection with the clinics on the school cars. The Director of these cars arranged for the dentist to be given accommodation on the Canadian Pacific car running out

of Chapeau, and on the Canadian National car operating between Port Arthur and Sioux Lookout. These cars call at communities too small to justify the erection of a school building, and far distant from a resident dentist. Nearly one hundred per cent. of the people took advantage of the facilities provided by these dental clinics.

The educational activities of the Department reached all parts of the Province. In this work, the dental branch had the active co-operation of the Ontario Dental Association, the Royal College of Dental Surgeons, and the Faculty of Dentistry, University of Toronto. The Division of Public Health Education and the Child Hygiene Division contributed very largely to the success of this work.

One of the most outstanding undertakings was the dental clinic at the Canadian National Exhibition. It was a co-operative effort. The Royal College of Dental Surgeons contributed three hundred dollars, and the Ontario Dental Association three hundred and twenty-five dollars, to pay the salaries of the dentists and dental nurses. The dental dealers and manufacturers provided the equipment, the Canadian Kodak Company one half the films, and G. H. Wood & Company the soap containers and liquid soap. Tooth brushes, tooth paste and mouth washes were contributed by the various companies and given away to the patients.

The dentists in charge of the service examined six hundred and eighty-four patients, and X-ray pictures were taken for four hundred and sixty. After a careful diagnosis the patients were advised in respect to the treatment needed. The clinicians were unable to care for all who presented, and several hundred who were anxious to take advantage of the service had to be refused.

During the year a large number of dentists gave talks to various types of lay audiences. These addresses are usually illustrated, the lecturer using slides or charts. In many cases, Mr. E. Jones assisted by showing motion pictures. In this connection, the Department desires to acknowledge a gift of three very fine motion pictures. Two were given by the Ontario Dental Association, and the third by the Toronto East Dental Association. The Director of Dental Services, accompanied by Mr. E. Jones, visited many places and gave mouth health programmes to large audiences of children and adults.

Much educational work was carried on in conjunction with the Division of Public Health Education. This branch of the Department showed and distributed dental material in connection with its many exhibits. Posters and literature were sent to teachers and others interested in mouth health, and dental talks were broadcast.

In co-operation with the Department of Education, a course of instruction in mouth health was given to students in the normal schools and some talks were given to teachers' institutes. Lectures were also given to nurses in training.

The activities of this Division are increasing each year, and there is urgent need at this time for well organized dental departments in general hospitals and for a plan that will enable workers in industry to secure dental treatment.

TABLE I—Continued

SPECIMENS EXAMINED BY THE LABORATORIES OF THE PROVINCIAL DEPARTMENT OF HEALTH OF ONTARIO DURING THE YEAR 1930

NUMBER OF EXAMINATIONS

Type of Specimen	Toronto	London	Ottawa	Kingston	Fort William	Peterboro	North Bay	Sault Ste. Marie	Total
<i>(c)</i> CHEMISTRY									
Non-protein nitrogen.....	548								548
Blood sugars.....	3,996	402	182	243	42	87		59	5,011
Milk:									
Local supply.....		1,134	2,069		62	456	198	314	4,233
Outside supplies.....	1,624	394	382		69	569	579	236	3,853
Water:									
Local supply.....		2	4						6
Outside supply.....	141	20	2						163
Coal samples:									
Calorific value.....	463								463
Ash.....	463								463
Volatile matter.....	23								23
Moisture.....	479								479
Liquors:									
Alcohol.....	1,844								1,844
Medical ingredients.....	426								426
Miscellaneous.....	574	295	1,385		127	834	46	603	3,864
Pathology.....	526								526
Total.....	133,014	43,906	43,441	11,247	8,606	7,769	4,203	7,705	259,891

TABLE II

TABLE SHOWING THE TOTAL SPECIMENS EXAMINED AT ALL LABORATORIES DURING THE YEARS 1911, 1927, 1928, 1929, 1930

	1911	1927	1928	1929	1930
Toronto.....	5,720	77,357	87,487	104,276	133,014
London.....		31,876	31,686	37,954	43,906
Ottawa.....		26,227	30,929	32,387	43,441
Kingston.....		9,078	9,314	11,464	11,247
Fort William.....		6,427	5,953	5,760	8,606
Peterboro.....		5,788	5,373	6,213	7,769
North Bay.....		4,212	3,522	4,503	4,203
Sault Ste. Marie.....		5,563	6,950	6,215	7,705
Total.....	5,720	166,528	181,214	208,772	259,891

The members of the Central Laboratory staff have all contributed to the very successful year that the laboratory had during the year 1930. Each and every member has been faithful to their duties and regular in attendance. Mr. E. C. Beck, B.S.A., left our staff on September 1st to accept a position with the Botanical Department, University of Toronto. His position was filled by the appointment of Mr. C. S. Smith, B.S.A. Dr. W. M. Wilson, formerly of the staff of the Institute of Public Health, London, joined our staff on May 1st last.

TABLE III

TABLE SHOWING OUTFITS, VACCINES AND CHEMICAL PRODUCTS PREPARED AND DISTRIBUTED FROM THE MAIN LABORATORY DURING THE YEARS 1927, 1928, 1929, 1930

Outfits sent out	1927	1928	1929	1930
Bacterial—water	4,430	5,290	6,668	6,990
Diphtheria	14,204	17,440	21,926	17,034
Typhoid	3,723	4,015	4,053	4,369
Tuberculosis	8,688	9,879	11,165	13,748
Wassermann	32,368	41,721	41,916	51,773
Gonorrhoea	8,513	11,041	12,057	13,415
Blood sugar	3,823	4,414	6,454	8,500
Faeces	513	833	1,248	1,732
Pathology				1,290
Miscellaneous	256	612	668	1,174
Total	76,518	95,245	106,155	120,025
VACCINES AND CHEMICAL PRODUCTS				
Typhoid monovalent vaccine, cc.	32,450	23,710	30,620	37,170 cc.
Typhoid paratyphoid vaccine, cc.	42,910	43,750	49,470	61,530 cc.
Whooping-cough vaccine, cc.	71,120	80,200	100,220	107,520 cc.
Rabies vaccine				60 treatments
Polio serum				45,000 cc.
Silver nitrate for prevention of ophthalmia, ampoules	35,314	38,214	45,555	56,470 amps.
Bismuth hydrate, grains	22,922	35,458	39,186	23,260 gr.
Mercury salicylate, grains	10,721	15,155	17,834	13,393 gr.
Sodium hydroxide in the treatment of V.D.S.	2,492	2,787	2,844	3,182 ozs.
Distilled water in the treatment of V.D.S.	21,812	30,050	32,760	31,930 ozs.

From examination of this table, you will note that during the year 1930, 120,025 outfits were prepared and distributed to physicians, which is an increase exceeding that of the year 1929 by 13,870.

BACTERIOLOGY

During the past year the Central Laboratory manufactured and distributed 37,170 c.c. of typhoid monovalent vaccine, 61,530 c.c. of typhoid paratyphoid vaccine, and 107,520 c.c. of pertussis vaccine, an increase of 18,610 c.c. typhoid and typhoid paratyphoid vaccine over the year 1929, and 7,300 c.c. more pertussis vaccine than the previous year.

Diphtheria.—28,850 cultures for diphtheria were examined. Of this number, 10,241 were examined at the Central Laboratory and 10,480 at the Ottawa Branch Laboratory; 607 virulence tests were made, 583 of which were made at the Central Laboratory.

Tuberculosis.—10,756 specimens of sputum were examined, which is an increase of 494 over the previous year; 1,085 guinea pigs were inoculated. Of this number, 923 were made at the Central Laboratory.

Typhoid.—3,334 dried blood specimens were examined for typhoid, paratyphoid, *B. abortus* and *B. tularensis* organisms. Of this number, 1,939 were examined at the Central Laboratory; 3,108 specimens of whole blood were

examined at the Laboratories of the Division, 1,773 of these specimens being examined at the Central Laboratory. The increase of 1,676 whole blood specimens examined was very satisfactory. The work in this department of the Central Laboratory has increased so that an additional worker has been appointed. There are now three members of the staff carrying out the colon typhoid examinations. At the Central Laboratory, during the past year, there were 58 blood cultures positive for typhoid and 10 positive blood cultures for Para B., making a total of 68 positive blood cultures; 907 blood cultures submitted showed no growth; 753 specimens of urine and feces were examined in the Division—466 of this number were examined at the Central Laboratory, being an increase of 261 specimens. Of the 466 specimens submitted to the Central Laboratory 59 were found positive.

Gonorrhoea.—17,496 G.C. specimens were examined, whereas, during the year 1929, 14,104 were examined. Therefore, there has been an increase of 3,392 specimens during the past year.

Rabies.—During the past year, 49 dogs' heads were examined by the Division, 41 of which were examined at the Central Laboratory. The remaining 8 were examined at the Institute of Public Health, London. Rabies infection has not been diagnosed by the Laboratories during the past year. The routine followed in regard to rabies examinations is the microscopic examination, using two different staining methods and the inoculation of 2 c.c. of the brain emulsion of all specimens failing to show the presence of negri bodies microscopically, intra-muscularly into the masseter muscle of rabbits. In cases where we obtain a positive diagnosis a telegram is sent at once to the sender of the head, and, if the sender happens to be a layman, the local medical officer of health is notified. The district officer of health and the epidemiologist of the Department are both notified and also the district veterinary inspector for the Federal Department of Agriculture is advised, so that he may take steps to prevent the spread of the disease in the district from which the specimen was received.

Milk.—5,923 samples of milk were examined from the local supplies and 3,786 samples from outside supplies. It has been very encouraging to see the interest being taken in the control of milk supplies.

Water.—6,336 specimens of water were examined from local supplies and 16,400 from outside supplies, which is an increase of 3,337 over 1929.

Miscellaneous.—5,482 miscellaneous examinations were made by the Division, 2,725 of which were examined at the Central Laboratory. These specimens include swabs for culture, pus, pleural fluids, microscopic examination of urine, pneumococcus typing, culturing of spinal fluids and specimens of food for pathogenic organisms. It is interesting to note that the increase in the number of specimens of this nature is 1,835.

SEROLOGY

During the past year 55,560 Wassermann reactions and 52,475 Kahn precipitation tests were carried out in the laboratories at Toronto, London, Kingston, Ottawa and Fort William, making a total of 108,035 examinations. This is an increase of 17,063 over the previous year. Each specimen of blood received for Wassermann undergoes both the Kahn and Kolmer test in each of the laboratories. At the Central Laboratory, where 32,756 Wassermann

reactions and 30,907 standard Kahn tests were done, we also did 7,019 presumptive Kahn tests. The presumptive Kahn test is a more sensitive test than either the standard Kahn or Wassermann reaction; 160 presumptive Kahn tests were done on spinal fluids at the Central Laboratory; 1,974 colloidal gold reactions were done by the laboratories, 1,253 of which were done at the Central Laboratory, 541 at London, 161 at Ottawa and 19 at Fort William; 870 colloidal mastic reactions were done on spinal fluids. At the Toronto Laboratory this test is done as a check test for the colloidal gold. During the past year it was found necessary to add an additional worker to the serological section of the Central Laboratory. Miss Gladys Mathews, of our serological staff, spent one week at the Michigan State Health Laboratory, Lansing, and one week at Dr. Kahn's Laboratory, Ann Arbor. Miss Mathews obtained valuable information during her two weeks' stay.

CHEMISTRY

During the past year there was an increase in the work connected with the preparation of mercury, bismuth, sodium hydroxide and distilled water. This section has also examined samples of wine from the various wineries in the Province. Owing to the increase in work, it was found necessary to make an addition to the staff.

BRANCH LABORATORIES

London branch laboratory examined 43,906 specimens, which is an increase of 5,952 specimens.

Ottawa branch laboratory examined 43,411 specimens, which is an increase of 11,054 over the previous year.

Kingston branch laboratory examined 11,247 specimens, which is 217 less than the year 1929, but in 1929 this laboratory examined 2,150 specimens more than the year of 1928.

Fort William branch laboratory showed an increase of 2,846 specimens over the previous year. Dr. James Bell was appointed Director of this branch laboratory on January 1st, 1930.

The laboratories at Peterboro and Sault Ste. Marie have both shown an increase in work by 1,556 and 1,490, respectively.

North Bay branch laboratory rendered valuable service during the year 1930.

I wish to state that my association with the directors of the various laboratories during the past year has been very pleasant, and I have received the co-operation from them in every possible way. I have received hearty co-operation from Dr. James Miller, Director of the Richardson Laboratory, Kingston, and from Dr. A. J. Slack, Acting Director of the Institute of Public Health, London. The excellent service rendered by these laboratories during the year is much appreciated.

In view of the increase in the volume of work in the various branch laboratories, it is my earnest hope that it may be possible to grant satisfactory salary increases.

I wish to thank you for the many kind considerations you have shown the laboratory. We trust that the coming year will be one of even greater progress.

SEPTIC SORE THROAT

On December 10th, five samples of milk were received from Dr. Armstrong, M.O.H., Kirkland Lake. One sample being received from each of the five milk distributors in Kirkland Lake. On the same day throat swabs were received from the workers in B. dairy.

The culture from the throat swabs showed that one of the workers and Mrs. B., owner of the dairy, were harbouring a beta type hemolytic streptococcus. The culture, made from the sample of milk from B.'s dairy, also showed the presence of a beta type hemolytic streptococcus.

I proceeded to Kirland Lake December 12th, arriving there December 13th. On visiting B.'s dairy, eleven cows were found showing abnormalities of the udder. On inspecting the other two dairy herds, S. and G., a pooled sample was taken from one cow in S.'s dairy and six pooled samples from each of six cows in G.'s dairy. These samples were shipped to the Central Laboratory.

A second inspection was made of each dairy, pooled samples from all the cows milking in each of the three producing herds. So that in all thirty-three samples were taken from eighteen cows showing visible changes in the udder, and sixty-five pooled samples, one sample from each of sixty-five cows. In all, ninety-eight samples were examined.

Of these samples, the sample from cow No. 98 and No. 264, B.'s dairy, on culture showed the presence of beta type hemolytic streptococci.

The culture from the pooled sample of fourteen normal cows showed the presence of hemolytic streptococci. These fourteen cultures proved to be of bovine origin, in as much as they hydrolyzed sodium hippurate medium, and when grown in 1 per cent. glucose broth for forty-eight hours, the culture had a P.H. of less than 4.7. They fermented mannite.

The culture isolated from the milk of cow No. 98, B.'s. dairy, has been studied and checked with the cultures from six patients. The strain isolated from cow No. 98 appears to be indistinguishable from the strains isolated from the patients. All of the patients' strains and cow No. 98 strain failed to hydrolyze sodium hippurate medium, and when grown in 1 per cent. glucose broth for forty-eight hours all the broth cultures on examination had a P.H. ranging from P.H. 5.0 to P.H. 5.2. These strains have been found markedly pathogenic for mice.

All mice injected with 0.5 c.c. of an eighteen hour serum broth culture intraperitoneally succumbed to the injection in less than twenty-four hours. The cow No. 98 strain, when grown on a blood agar slant for twenty-four hours, the growth on the slant emulsified and when injected intravenously into a rabbit the rabbit succumbed in less than twenty-four hours.

The reactions on carbohydrates of the six patients' strains and the cow No. 98 strain were identical. All these strains fermenting glucose, lactose, saccharose and salicin, but not mannite.

The strain isolated from cow No. 264 is distinguishable from the other strains. A further study is being made of this strain.

I forwarded a culture of the strain isolated from cow No. 98 and four cultures isolated from each of four patients to Dr. Elliott Robinson, Assistant Director, Vaccine Laboratory, Boston, Mass. Dr. Robinson very kindly examined these cultures. Dr. Robinson's findings were identically the same as ours except for the fact we have as yet been unable to demonstrate capsules. A further study for capsule staining is being made.

Further work is being done on both the patients and cow No. 98 cultures for toxin production and thermal death point in milk. Rabbits are being immunized in order to procure an anti sera for a serological study of these strains.

DIVISION OF NURSE REGISTRATION

A. M. MUNN, Reg. N.

I beg herewith to present the Annual Report of this Division for the year 1930.

Visits of inspection have been made to forty training schools for nurses.

Many plans for improvement in connection with training school work are at a standstill and promises of better work in many centres are still unfulfilled owing to financial depression.

Eleven changes in Superintendents' positions have taken place.

Since the organization of this Division eight training schools in hospitals of less than thirty bed capacity have been discontinued. Three hospitals of one hundred-bed capacity have organized for training school work.

Eight hospitals have improved teaching through the appointment of properly qualified instructors for nurses.

Five new nurses' homes were under construction at the close of 1930.

Some attic rooms over hospital wards are still in use for nurses and staff but this condition is fortunately now rare and improvements may be looked for in the near future.

Provision for sleeping accommodation for night nurses and staff should be more carefully taken into consideration when building plans are drawn up for nurses' homes.

While conditions are improved in this respect very few hospitals provide what can be considered ideal conditions for night nurses so that undisturbed rest may be secured during the day.

Many of the newer residences now provide single rooms and the nurse when going on night duty does not change to a quiet area but she may have placed on her door a card reading "Night Nurse Sleeping." This, however, does not provide against the incidental noises nor does it guarantee quiet at all times.

It can reasonably be understood that students have to suffer the inconvenience of frequent moving and might prefer the risk of disturbance in their rooms, but certainly unless the assurance of uninterrupted sleep is possible under some other plan, separate sleeping quarters should be provided and insisted on and their importance in relation to health should be impressed on the students.

The policy of calling night nurses for lectures before the necessary eight hours of rest has been secured cannot be too severely condemned. No student is fit for the heavy responsibilities of the night if she goes on duty unrefreshed by insufficient sleep. Classes given under such circumstances are of little or no value to students and could very profitably be discontinued in the interest of the health of the student and the proper care of the patient.

Better health records are now being kept owing to an awakened consciousness of the need of a more thorough medical examination for students before entrance to training.

In 1929 we made a request to the Honourable the Minister of Health for the services of the Travelling Chest Clinic of the Division of Communicable

Disease, Tuberculosis Branch, to be made available for the student nurses in centres where clinics were being held.

I am pleased to report that approximately ten centres have taken advantage of this service.

STATEMENT OF REGISTRANTS AND REVENUE, 1930

Total number registered (since 1923).....	13,457
Total number registered during 1930.....	1,209
Total number taking Provincial Examinations, 1930.....	1,170
Registration fees for 1930.....	\$6,745 00
Re-registration fees for 1930.....	\$8,818 00
Total revenue, 1930.....	\$21,087 35

DIVISION OF PUBLIC HEALTH EDUCATION
 MARY POWER, B.A., Director

During the year, large quantities of the departmental publications were distributed throughout the Province and sent in response to requests, in many instances, to centres outside. The new edition of "The Baby" made a very popular appeal and a second printing was ordered within three months after the issue of the first. The edition of the Health Almanac was increased from 20,000 to 40,000. The pamphlets on Communicable Diseases, Rural Sanitation, Resuscitation, Dental Guide, etc., have been very much in demand.

The Sixteenth Annual Meeting of the Ontario Health Officers' Association was held in Hart House Theatre, University of Toronto, on May 19th, 20th and 21st. Registration reached a total of 366. The meetings were held at the same time as the Annual Meeting of the Canadian Public Health Association. The Question Drawer once more proved an item of interest on the programme. The following executive was elected for the incoming year:

- President The Honourable Dr. Gustave Lacasse, Tecumseh.
- 1st Vice-President Dr. J. W. Fraser, M.O.H., Kitchener.
- 2nd Vice-President Dr. J. H. Radford, M.O.H., Galt.
- Secretary Miss Mary Power, B.A.

The resolutions committee, under the chairmanship of Dr. T. A. Lomer, M.O.H., Ottawa, brought in the following resolutions which were passed unanimously:

- (1)—"Resolved that this Association go on record as strongly in favour of a comprehensive scheme of Local Public Health administration and that a copy of this Resolution be forwarded to the Prime Minister and the Minister of Health for their consideration."
- (2)—"Resolved that the Registration of Vital Statistics should be placed in the hands of the Local Medical Officer of Health and that a copy of this Resolution be sent to the Prime Minister and the Minister of Health."
- (3)—"Resolved that a committee be appointed to consider the question of adequate salaries for the Medical Officers of Health in communities of various sizes and report at the next meeting of the Association."

The following committee was appointed to act in connection with Resolution Number Three:

- Dr. J. A. Bell, M.O.H., Chairman, Sarfina.
- Dr. J. W. Fraser, M.O.H., Kitchener.
- Dr. J. S. Nelson, M.O.H., Nepean Township, Westboro.
- Dr. C. E. Hill, M.O.H., North York Township.
- Dr. P. J. Moloney, D.O.H., Ottawa.

The programme is printed below:

MONDAY, MAY 19TH

ONTARIO HEALTH OFFICERS' ASSOCIATION
 Hart House Theatre, University of Toronto

Chairman—Dr. W. L. Hutton, M.O.H., Brantford, President

9.30 a.m.—Registration.

10.00 a.m.—*Urban Sanitation*—A. E. Berry, M.A.Sc., C.E., Ph.D., Director, Sanitary Engineering Division, Department of Health, Ontario.

Discussion by Dr. H. G. Murray, M.O.H., Owen Sound; Dr. H. B. Kenner, M.O.H., Stratford.

10.45 a.m.—*The Medical Officer of Health and the School Health Programme*,—Dr. J. T. Phair, Director, Division of Child Hygiene, Department of Health, Ontario.

Discussion opened by Dr. J. W. Fraser, M.O.H., Kitchener.

11.30 a.m.—*Some Aspects of Communicable Disease Control*—Dr. A. L. McKay, Director, Division of Preventable Diseases, Department of Health, Ontario.

TUESDAY, MAY 20TH

Chairman—Dr. W. L. Hutton, M.O.H., Brantford.

9.30 a.m.—*Recreational Sanitation*—E. W. Johnson, B.A.Sc., and A. T. Byram, B.A.Sc., Sanitary Engineering Division, Department of Health, Ontario.

Discussion led by Dr. R. E. Joyce, M.O.H., Port Carling; Dr. J. D. MacDonald, M.O.H., Huntsville.

10.15 a.m.—*Child Hygiene in Ontario—Its Present Status*—Dr. J. T. Phair, Director, Division of Child Hygiene, Department of Health, Ontario.

11.00 a.m.—*A Rural Typhoid Fever Outbreak*—Dr. N. H. Sutton, D.O.H., Peterboro.

Discussion opened by Dr. W. E. George, D.O.H., North Bay.

TUESDAY, MAY 20TH

Chairman—Dr. W. L. Hutton, President, Ontario Health Officers' Association.

2.30 p.m.—*Presidential Address*—Dr. W. L. Hutton, Brantford.

WEDNESDAY, MAY 21ST

Chairman—Dr. W. L. Hutton, M.O.H., Brantford

9.30 a.m.—*Recent Health Legislation in Ontario*—Dr. W. J. Bell, Deputy Minister of Health.

10.30 a.m.—Question Drawer.

11.30 a.m.—Business meeting and election of officers.

DIVISIONAL ACTIVITIES

The period covered by this report has been replete with interest and new developments in the work of health education. The Director was given an opportunity, through the courtesy of the International Health Board of the Rockefeller Foundation, to visit several agencies whose activities included health education either as a specialty or as an integral part of their programme. Organized departments of health and voluntary agencies were visited. Their extreme

courtesy shown to us made the trip most interesting and beneficial. We were particularly struck with the trends in health education in schools; since our return we have made a sincere effort to so plan our health teaching material as to have a supply available for all reasonable demands from the Child Hygiene Division. This has necessitated (1) the assembly of material in quantities; (2) the checking of suitability of the teaching content; (3) planning a practical try-out in a typical class-room; (4) sorting of the material for use in (a) all classes of our graded schools, and (b) ungraded schools in rural sections.

One outstanding item in school health education to our mind is the nation-wide movement in the United States to provide complete course in the correct methods of health teaching in Teacher-Training institutions. One significant point, too, was the increasing extent to which the class room teacher is being used in health education.

We took advantage of the trip to discuss many other phases of health education—such as tuberculosis prevention, programmes in industry, hygiene courses for nurses-in-training, dental hygiene programmes, exhibit possibilities, and the place of the printed word in health publicity. Our sincere thanks is tendered to Dr. J. A. Ferrell, Chairman of International Health Board, for his generosity in arranging our trip.

In addition to Health Exhibits in outside centres, we set up (in the office of the Division) exhibits of health teaching material on the following occasions:

- (1) During Easter week an exhibit was prepared for the members of the Ontario Educational Association;
- (2) July 4th to August 15th—the Summer Course for School Nurses and for Auxiliary Class Teachers; many teachers in attendance at the Normal School summer courses visited the exhibit.
- (3) In September—for nurses in the public health nursing course of the University of Toronto.
- (4) In November—for Department of Agriculture—Nurses in Short Course work.

LOAN POSTER SERVICE

This service continues in demand, loan packages of posters having been sent in large numbers in compliance with a variety of requests.

Medical Officers of Health, School Medical Officers, Local Public Health Nurses (18), School Nurses (11), Provincial Public Health Nurses (19), Victorian Order of Nurses (2), have been among those using the service most. Women's Institutes, Teachers' Clubs, Home and School Clubs and Girl Guides, have received material for regular meetings, while exhibits were sent to seventeen (17) Annual Conventions.

One of the most satisfactory features of our work this year has been the requests from other Divisions of the Department to co-operate with them in their respective programmes.

In addition to the above we have sent health education material to summer camps and creches; we have assisted teachers, student public health nurses and dietitians in practice lesson material, etc., and feel gratified with the record of our year's work.

HEALTH EXHIBITS

The Division received many requests for Health Exhibits in connection with Fall Fairs and other events and was able to accede in the following instances:

Date	Centre	Where shown	Auspices
April 18	Toronto.....	Convention.....	Ont. Educational Association
" 24-26	"	"	Reg. Nurses Association of Ont.
May 19-21	"	"	Ont. Health Officers' Association
" 19-20	"	"	Ont. Dental Association
" 27-30	"	"	Ont. Medical Association
July 2	Sudbury.....	"	Catholic Women's League
Aug. 12-16	Sault Ste. Marie..	Fall Fair	Local Board of Health and District Officer of Health
Aug. 23- Sept. 9	Toronto.....	Health Exhibit.....	Canadian National Exhibition
Sept. 3-5	Perth.....	"	Public Health Nurse
Sept. 6	Tamworth.....	"	Women's Institute
" 12-13	New Hamburg.....	"	Agricultural Representative
" 12	York Township...	School Fairs.....	School Nurse
" 10	St. Catharines...	Shop-at-Home Week.....	Local Board of Health
" 17	Cobalt.....	School Fair.....	Public Health Nurse
" 18-20	Woodstock.....	Fall Fair.....	Agricultural Society
" 18-20	Midland.....	"	"
" 20	Ancaster.....	Children's School Fair (cham- pionship).....	School Nurse
" 23-24	Barrie.....	Fall Fair	Local Board of Health
" 25	Velore.....	School Fair	" " " "
" 25-26	Ingersoll.....	Fall Fair	" " " "
Oct. 1-4	Leamington.....	"	Agricultural Society
" 2-4	Caledonia.....	"	Local Board of Health
" 3	Niagara Falls....	Shop-at-Home Week.....	" " " "
" 1-3	Toronto.....	Convention.....	Ont. Hospital Association
" 6	Cobalt.....	"	Teachers of the District
" 7	Sault Ste. Marie..	"	" " " "
" 8	Perth.....	"	" " " "
" 6-11	Peterboro.....	Made-in-Canada Exhibition..	Kiwanis Club
" 9-11	New Liskeard....	"	"
" 21-22	Harriston.....	Convention.....	Women's Institutes
" 23-24	Kingston.....	"	"
" 29-30	Oshawa.....	"	Catholic Women's League
Nov. 4-6	London.....	"	Women's Institute
" 11-13	Hamilton.....	"	"
" 19-20	Belleville.....	"	"
" 25-27	Toronto.....	"	"
Dec. 1-12	Hamilton.....	Exhibition of Health Educa- Material	Local Board of Health

CANADIAN NATIONAL EXHIBITION, TORONTO

The contribution of the Department this year was an exhibit covering our former space of 250 feet, together with an additional 35 feet on the rounded corner to the west. This was utilized as a publicity office and consultation service for health workers. We inaugurated our Guest Book and were happy to have many friends from distant health fields pay us a visit.

Nutrition was the general subject stressed this year; the part it plays in pre-natal care, in infancy, in pre-school and in school age was shown in special booths, while miniature exhibits emphasized the necessity for balanced diet and care of food in the home. A particular attraction was the automatic thermometer showing the meaning of true pasteurization and designating the danger points to the various harmful organisms.

The Dental Clinic continued to serve its usual large clientele; "The Human Factory" and pictorial display of the various Divisional activities of the Department were new features which attracted a good deal of attention.

The Health Films of the Division have been shown on 38 occasions by Mr. E. H. Jones. The list below shows the attendance, auspices and centres where this service has been given.

Date	Centre	Where shown	Auspices	Attendance
1929				
Nov. 7	Hamilton.....	Auditorium.....	Loretto Academy.....	330
1930				
Jan. 7	York Township...	Humewood School.....	Home and School Club.....	85
" 10	Merton.....	School.....	" " " ".....	100
" 16	Weston.....	".....	" " " ".....	100
" 21	Birchcliff.....	".....	Home and School Club and Public Health Nurse.....	150
" 30	Weston.....	".....	Board of Education.....	1,675
Feb. 3	Binbrook.....	Hall.....	Women's Institute.....	175
" 4	Vinemount.....	".....	".....	200
" 4	Stoney Creek.....	".....	" ".....	150
" 5	Ancaster.....	".....	" ".....	100
" 6	Mount Hope.....	".....	" ".....	175
" 7	West Hamilton.....	".....	" ".....	100
" 10	Fairfield.....	".....	" ".....	25
" 10	Mount Hamilton..	".....	" ".....	50
" 19	Palermo.....	".....	" ".....	100
" 24	Pembroke.....	".....	Kiwanis Club.....	1,050
" 26	Scarboro Twp....	School.....	".....	100
" 28	Ridgeway.....	Hall.....	M.O.H.....	700
Mar. 6	Toronto.....	Convention.....	Veterinary Association.....	100
" 18	".....	".....	Crippled Children's Society...	200
" 26-29	Cobourg.....	Carnival.....	Rotary Club.....	4,000
April 2	Peterboro.....	Schools.....	Board of Education.....	1,600
" 7	Toronto.....	Dixon Hall.....	Trinity Church.....	200
" 11	Ottawa.....	Schools.....	Board of Education.....	200
" 14	Toronto.....	Humberside Collegiate..	Physical Instructor.....	150
" 15	Scarboro Twp....	Midland Ave. School...	School Nurse.....	400
July 4	Victoria Harbour..	Hall.....	Women's Institute.....	200
" 7	Bala.....	".....	Local Board of Health.....	125
" 9	".....	Indian Reserve.....	Chief of Sahanatien Reserve..	400
Oct. 19	East York.....	Danforth Park School...	Public Health Nurse.....	300
" 22	" ".....	Wm. Burgess School.....	" " " ".....	800
Nov. 4	" ".....	Plains Road School.....	" " " ".....	700
" 12	Westport.....	".....	".....	".....
" 18	Duart.....	Hall.....	M.O.H.....	150
" 19	Highgate.....	".....	Dr. J. R. Macpherson.....	300
" 20	Cleaves.....	".....	" ".....	150
" 28	Toronto.....	Meeting.....	Laennec Society.....	100
Dec. 10	Bala.....	".....	Women's Institute.....	200

STATEMENT OF BIOLOGICAL PRODUCTS AND INSULIN

NOVEMBER 1st, 1929, TO OCTOBER 31st, 1930

MONTH	DIPHTHERIA ANTITOXIN							
	1-M and 5-M units	Cost	10-M, 20-M and 40-M units	Cost	Syringes	Cost	Schick Test	Cost
1929—November.....	3,488-M	\$588 32	42,860-M	\$5,143 20	1,051	\$210 20	217	\$43 40
December.....	3,498-M	489 72	34,310-M	4,117 20	950	186 00	290	58 00
1930—January.....	4,614-M	645 96	37,040-M	4,444 80	902	180 40	374	74 80
February.....	2,226-M	311 64	24,110-M	2,893 20	316	63 20	338	67 60
March.....	2,682-M	375 48	19,500-M	2,340 00	361	72 20	380	76 00
April.....	2,425-M	339 50	26,590-M	3,190 80	720	144 00	127	25 40
May.....	2,502-M	350 28	28,690-M	3,442 80	792	158 40	197	39 40
June.....	1,785-M	249 90	20,250-M	2,430 00	346	69 20	130	26 00
July.....	2,706-M	378 84	21,920-M	2,630 40	783	156 60	260	52 00
August.....	2,197-M	307 58	27,390-M	3,286 80	531	106 20	156	31 20
September.....	2,034-M	284 76	27,300-M	3,276 00	328	65 60	302	60 40
October.....	3,588-M	502 32	40,540-M	4,864 80	749	149 80	363	72 60
Totals.....	33,745-M	\$4,724 30	350,500-M	\$42,060 00	7,809	\$1,561 80	3,134	\$626 80

STATEMENT OF BIOLOGICAL PRODUCTS AND INSULIN—Continued

NOVEMBER 1ST, 1929, TO OCTOBER 31ST, 1930

MONTH	DIPHTHERIA TOXOID						TETANUS ANTITOXIN									
	One person	Cost	Six persons	Cost	Twelve persons	Cost	Toxoid Reaction Test	Cost	Diluted Toxoid	Cost	Units	Cost	Syringes	Cost	Outils	Cost
1929—November.	1,369	\$273 80	233	\$186 40	479	\$479 00	.....	.....	.....	\$1,250 55	4,168,500	\$1,250 55	118	\$23 60	15	\$6 75
December.	997	199 40	187	149 60	214	214 00	.....	.....	.....	787 80	2,626,000	787 80	106	21 20	8	3 60
1930—January....	1,245	249 00	394	315 20	423	423 00	.....	.....	.....	817 65	2,725,500	817 65	128	25 60	7	3 15
February....	749	149 80	103	82 40	157	157 00	.....	.....	.....	547 50	1,825,000	547 50	54	10 80	2	90
March.....	659	131 80	182	145 60	396	396 00	.....	.....	.....	715 35	2,384,500	715 35	148	29 60	1	45
April.....	565	131 00	52	41 60	187	187 00	.....	.....	.....	906 00	3,020,000	906 00	108	21 60	10	4 50
May.....	598	119 60	194	155 20	94	94 00	.....	.....	.....	1,128 15	3,760,500	1,128 15	157	31 40	5	2 25
June.....	590	118 00	125	100 00	157	157 00	.....	.....	.....	1,971 75	6,572,500	1,971 75	173	34 60	28	12 60
July.....	624	124 80	232	185 60	175	175 00	.....	.....	.....	1,762 95	5,876,500	1,762 95	162	32 40	11	4 95
August.....	272	54 40	157	125 60	188	188 00	.....	.....	.....	1,743 75	5,812,500	1,743 75	175	35 00	33	14 85
September.	797	159 40	207	165 60	538	538 00	.....	.....	.....	1,865 40	6,218,000	1,865 40	150	30 00	16	7 20
October....	2,387	477 40	679	543 20	1,235	1,235 00	103	\$20 60	287	\$229 60	5,362,500	1,608 75	242	48 40	11	4 95
Totals....	10,852	\$2,170 40	2,745	\$2,196 00	4,243	\$4,243 00	103	\$20 60	287	\$229 60	50,352,000	\$15,105 60	1,721	\$344 20	147	\$66 15

STATEMENT OF BIOLOGICAL PRODUCTS AND INSULIN—Continued
 NOVEMBER 1ST, 1929, TO OCTOBER 31ST, 1930

MONTH	SCARLET FEVER ANTITOXIN					SCARLET FEVER TOXIN						
	2 cc. vials	Cost	15 cc. vials	Cost	Syringes	Cost	Dick Test	Cost	One person	Cost	Six persons	Cost
1929—November.....	1,110	\$444 00	1,185	\$2,666 25	3	\$ 0 60	345	\$ 69 00	392	\$117 60	233	\$233 00
December.....	1,126	450 40	1,102	2,479 50	2	40	479	95 80	558	167 40	174	174 00
1930—January.....	1,610	644 00	1,421	3,197 25	32	6 40	589	117 80	744	223 20	270	270 00
February.....	2,047	818 80	2,051	4,614 75	674	134 80	508	101 60	737	221 10	325	325 00
March.....	1,757	702 80	1,293	2,909 25	746	149 20	698	139 60	1,212	363 60	372	372 00
April.....	1,856	742 40	1,372	3,087 00	574	114 80	373	74 60	501	150 30	204	204 00
May.....	785	314 00	965	2,171 25	225	45 00	436	87 20	409	122 70	180	180 00
June.....	1,224	489 60	862	1,939 50	200	40 00	372	74 40	318	95 40	218	218 00
July.....	567	226 80	593	1,334 25	111	22 20	271	54 20	132	39 60	75	75 00
August.....	317	126 80	426	958 50	1	20	193	38 60	132	39 60	75	75 00
September.....	391	156 40	429	965 25	31	6 20	302	60 40	253	79 90	104	104 00
October.....	1,228	491 20	934	2,101 50	213	42 60	340	68 00	419	125 70	334	334 00
Total.....	14,018	\$5,607 20	12,633	\$28,424 25	2,822	\$562 40	4,906	\$981 20	5,807	\$1,742 10	2,564	\$2,564 00

STATEMENT OF BIOLOGICAL PRODUCTS AND INSULIN—Continued
 NOVEMBER 1ST, 1929, TO OCTOBER 31ST, 1930

MONTH	ANTI-MENINGOCOCCUS SERUM				SMALLPOX			RABBIES		INSULIN		
	20 cc. vials	Cost	Outfits	Cost	2 pt. pkgs.	Cost	5's and 10's	Cost	Treatments	Cost	Units	Cost
1929—November.....	229	\$229 00	28	\$12 60	218	\$26 16	12,995	\$584 77	13	\$136 50	1,388,400	\$4,910 04
December.....	274	274 00	69	31 05	138	16 56	8,445	380 02	5	52 50	1,452,200	4,959 32
1930—January.....	232	232 00	44	19 80	504	60 48	21,560	970 20	46	483 00	1,329,400	4,665 96
February.....	204	204 00	20	9 00	247	29 64	26,345	1,185 53	18	189 00	1,462,000	5,162 76
March.....	265	265 00	55	24 75	224	26 88	18,825	847 13	10	105 00	1,572,000	5,530 80
April.....	354	354 00	47	21 15	200	24 00	16,070	723 15	6	63 00	1,491,600	5,220,24
May.....	309	309 00	17	7 65	316	37 92	11,610	522 45	11	115 50	1,799,000	6,279 00
June.....	204	204 00	33	14 85	196	23 52	6,740	303 30	...	.....	1,597,600	5,601 00
July.....	400	400 00	56	25 20	294	35 28	8,775	394 88	22	231 00	1,326,000	4,623 60
August.....	452	452 00	61	27 45	495	59 40	12,095	544 27	4	42 00	1,500,600	5,206 68
September.....	154	154 00	26	11 70	361	43 32	14,055	632 47	8	84 00	1,515,800	5,072 04
October.....	156	156 00	31	13 95	211	25 32	8,800	396 00	13	136 50	1,580,400	5,496 72
Total.....	3,233	\$3,233 00	487	\$219 15	3,404	\$408 48	166,315	\$7,484 17	156	\$1,638 00	18,015,000	\$62,728 16

SUMMARY

Biological products.....	\$126,212 40	Net Cost.....	\$123,744 00
Syringe containers.....	2,468 40	Insulin.....	62,728 16
			\$186,472 16

SUMMARY OF BIOLOGICAL PRODUCTS DISTRIBUTED
IN THE YEAR 1929-1930

Diphtheria Antitoxin.....	33,745M units.....at	14c=\$	4,724	30	
	350,500M units.....	"	12c=	42,060	00
					\$46,784 30
Diphtheria Toxoid.....	10,852 x 1.....	"	20c=	\$2,170	40
	2,745 x 6.....	"	80c=	2,196	00
	4,243 x 12.....	"	1.00=	4,243	00
					\$8,609 40
Diphtheria Schick Test Outfits..	3,134.....	"	20c=		626 80
Diluted Diphtheria Toxoid.....	287 vials.....	"	80c=		229.60
Toxoid Reaction Tests.....	103 vials.....	"	20c=		20.60
Tetanus Antitoxin.....	50,352M units.....	"	30c=	\$15,105	60
" " Outfits.....	147 units.....	"	45c=	66	15
					\$15,171 75
Scarlet Fever Antitoxin.....	14,018 x 2cc vials.....	"	40c=	\$ 5,607	20
	12,633 x 15cc.....	"	2.25=	28,424	25
					34,031 45
Scarlet Fever Dick Test Outfits..	4,906.....	"	20c=		981 20
Scarlet Fever Toxin.....	5,807 x 1.....	"	30c=	\$ 1,742	10
	2,564 x 6.....	"	1.00=	2,564	00
					\$4,306 10
Anti-Meningococcus Serum.....	3,233 x 20cc. vials.....	"	1.00=	\$3,233	00
Intraspinal Outfits.....	487.....	"	45c=	219	15
					\$3,452 15
Smallpox.....	3,404 x 2 pt. pkgs.....	"	12c=	\$ 408	48
	166,315 points.....	"	4.5c=	7,484	17
					\$7,892 65
Rabies Vaccine.....	156 treatments.....at	\$10.50	each =		1,638 00
					\$123,744 00
INSULIN.....	18,015,000 units.....				\$62,728 16

DISTRICT OFFICERS OF HEALTH

DISTRICT No. 1

T. J. McNALLY, D.O.H.

I have the honour to submit herewith the 1930 Annual Report for this District which includes the counties of Lambton, Essex, Kent, Elgin, Oxford and Middlesex.

These Counties are subdivided into one hundred and twenty-eight municipalities governed, for health purposes, by one hundred and twenty-one Local Boards of Health, having two full time and one hundred and six part time Medical Officers of Health.

There are also eighteen Public Health, twenty-three school (of which three are part time) and five Child Welfare Nurses (one of which is half-time) engaged in the District by local authorities.

These nurses are all employed in the Cities except three and only one is employed part time in Rural Work. This is not as it should be since our rural communities are in urgent need of Public Health nursing service.

Generally speaking, they appreciate the work, but expense of transportation is the great stumbling block to permanent appointments.

I therefore respectfully but urgently recommend that the Department make provision for the nurses' transportation in rural and semi-urban Districts when joined with rural communities for the appointment of a local public health nurse.

The District Officer has endeavoured to faithfully supervise through the local boards all matters pertaining to public health—by frequent visits to discuss with the Medical Officers and, where deemed necessary, with the local boards and councils, their local problems as well as indicate practicable new activities.

It is my general policy, where special difficulties confront local authorities, to personally visit the municipality, make a survey, and then advise the local board.

In addition to many addresses to local boards and councils on local problems and communities regarding public health nursing services, I have, by request, discussed Public Health questions before social organizations, *e.g.*, Kiwanis, Lions Clubs, etc., having always in mind the education of the public regarding preventive medicine, as understood by the Department.

On several occasions I have had conferences at the Department with the Deputy Minister and Directors of Divisions regarding problems in the District which have always been satisfactory and helpful.

The carrying out of these duties together with inspection of motor camp and highway booths has entailed over twenty-two thousand miles of motor travel and could not otherwise have been accomplished.

Having given this brief outline of your District Officer's activities, permit me to give more in detail:

Public Health Administration in District No. 1 under the following heads:

PUBLIC HEALTH NURSING

Local work under this heading has been sketched so it only remains to point out the excellent work done by Mrs. Bagshaw in North Dorchester and St. Thomas and that of Miss Pennock in Forest, Plympton and now in the Townships of Sarnia and Moore. The failure of local appointments following demonstrations by these nurses has, in most cases, hinged on the extra cost of transportation. It is only fair to call attention to the satisfactory corrections and successful clinics as well as classes conducted by these nurses. In every demonstration they have been very much strengthened by the excellent clinics conducted by Dr. Kitley, whose work has been commended by the profession as well as the laity.

MILK

While milk is recognized as the most valuable food when pure, it is also the most potentially dangerous unless properly pasteurized under strict and independent supervision.

As far as I can see pasteurization can only be brought about by government legislation as local prejudice and selfish interests render it practically impossible to have the public protected through local councils. Defeat in every case that I have had to deal with has been by a small active minority, usually about twenty per cent. of the community.

When the danger to the public from bovine tuberculosis, septic sore throat and undulant fever directly from the cow and through the medium of milk for the spread of diphtheria, scarlet fever, septic sore throat, and typhoid fever is so thoroughly established, it surely warrants legislation that will effectively protect the citizens. The unfortunate position at present is that it is practically impossible to even supervise the so-called pasteurizing of milk.

SCHOOLS

Sanitary conditions in these institutions are gradually, though all too slowly, improving through the combined efforts of the school inspectors, local officers of health, and last but not least through the influence of the women's organizations.

COMMUNICABLE DISEASES

Frequently epidemics are caused by failure of citizens to report mild cases and the medical profession is not altogether blameless on this count.

DIPHTHERIA

Protection by Toxoid from this dread disease is gradually but all too slowly being adopted by the public.

Through an active campaign by Dr. Downham, M.O.H., of London, and the stimulus of a couple of deaths from the disease, about 6,000 children received immunization doses of Toxoid. Dr. Fletcher, M.O.H., of Lobo Township, under somewhat similar circumstances, succeeded in having about sixty per cent. of the school population immunized.

Dr. Ruttan, M.O.H., Woodstock, gave protection to about 200 school and pre-school children and of course Dr. Adams has continued his programme of offering this protection to all children entering the schools of the Border Cities. Quite a few local officers are making an endeavour to carry forward this pro-

tective practice and quite a percentage of the medical men are urging this protection on their clientele.

VENEREAL DISEASES

The clinics in Windsor and London continue to furnish free treatment for these diseases to those unable to pay, thus assisting in their control, but lack of co-operation in the reporting of cases by the profession is quite a serious drawback to effective control.

TYPHOID FEVER

This disease has made its appearance in several municipalities during the year. In the Town of Tilbury, five cases with one death resulted from contaminated well water. In Mersea Township one family of five were stricken down through a polluted well and contacts.

St. Thomas also had four cases develop through a case originating at Port Stanley. The first case was a man, working on a dredge, who fell overboard and swallowed considerable water, thus contracting the disease. The other cases were contacts. In other cases the cause was not definitely established though attributed to polluted drinking water.

RABIES

During the year rabies has been prevalent over a considerable area of the District in domestic animals and several persons have required treatment through exposure to the disease.

In one locality at least the origin of the disease was apparently due to a dog brought in from Michigan.

It seems hopeless to eradicate the disease so long as measures are not adopted to prevent importations in this manner.

WATER SUPPLIES

It is again my duty to call the attention of the Department to the fact that no real progress has been made towards obtaining a satisfactory municipal supply for the Town of Tilbury. At present the third outbreak of typhoid fever during three years has developed. In all there have been thirty cases and several deaths due to contaminated well water. I have again pressed on the local authorities the seriousness of the situation but apparently the only response is the expressed intention of making a further effort to obtain a supply from drilled wells. Personally, I doubt the possibility of obtaining a supply of satisfactory quality from this source. I recommend that the Department exercise its authority to hasten operations.

In the Police Village of Sombra the water supply is owned by private parties. It is taken from the river and delivered from this contaminated source without treatment or chlorination. I understand an unsuccessful attempt has been made by the Village Trustees to obtain control of this supply and have it properly treated. Is there not some way for the Department to force these people to supply potable water? For the supply to be shut off would not be a solution; I understand the owners do not derive any financial return as the revenue is used up in operating expenses. I recommend that such action be taken by the Department as necessary for the safety and accommodation of the citizens.

As far as I can learn the appropriation assigned by the Township to this Village is ear-marked for street and sidewalk upkeep. They have quite a

surplus on hand but are unable to utilize this legally to obtain a proper water supply.

SMALL POX

I am continuing to urge the local authorities to have all school children vaccinated. Some progress is being made at the expense of constant reiteration but it is doubtful if a sufficient number are being protected to guarantee against an epidemic. A few isolated cases have occurred in mild form during the year. I respectfully suggest that the Epidemiologist send out to each local Medical Officer of Health a letter urging constant activity along this line.

SEPTIC SORE THROAT

A few isolated cases of this disease occurred in the District.

CEREBRO SPINAL MENINGITIS

This disease made its appearance in several municipalities but thanks to the instructions sent out by the Department was in most instances recognized early and put at once under specific treatment with happy results.

The splendid work done by your Epidemiological Department in providing this treatment free is very highly commended by those practitioners having cases. Certainly this dread disease has been brought under control. Deaths were few and sequelae rare.

Scarlet fever, measles, whooping cough and mumps have been present in several municipalities but in mild form and quarantined according to regulations. The three former in many cases modified, and to some extent at least controlled by the antitoxin, toxin, vaccine and serum provided by the Department. The demand for these measures by the public is noticeably on the increase and the profession generally are making use of them in practice.

NUISANCES

Without considering the minor cases of complaint which are legion, a score or more of the graver conditions necessitated special personal visits to many municipalities. The consideration of these complaints and their correction occupies altogether too much of your District Officer's time in proportion to their menace to public health.

I cannot see any way to correct this except by attaching to the District Office a Sanitary Engineer.

When the expense connected with your Engineering Department paying for the necessary calls in connection with this work, with supervising the water and sewage systems in the District and making the annual inspection of motor camps and highway booths is considered it is quite apparent to me that much more efficient service and with not much, if any, greater expense would be rendered the Department and public.

Working from London as a centre, expense of travel and time would be materially lessened and this applied to conditions now untouched, *e.g.*, supervision of the correction of sanitary conditions at schools, advice regarding private water supplies, etc., might to some extent be covered. When it is noted that a large bulk of our isolated or rural typhoids is due to lack of proper protection of the family well, the benefit of the above enlargement of our sanitary engineering field is quite obvious.

MOTOR CAMPS AND HIGHWAY BOOTHS

The annual inspection of these camps and booths occupied three weeks' time of your District Officer and Mr. Johnston of your Engineering staff. Conditions were found to be considerably improved but there are altogether too many cases where minimum requirements of the Department are not complied with.

Two hundred and fifty-one booths were examined. Of these one hundred and fifty-one complied with your minimum requirements and received certificate of approval. One hundred failed in this respect and were not approved.

One hundred and twenty-five tourist camps were inspected, of which fifty-eight complied with your minimum requirements and were given certificates of approval, and sixty-seven did not come up to this standard and so were not approved.

In view of the fact that for several years your Officers have examined these camps and booths and each year urged upon the operators the necessity of reaching the minimum standard set by the Department and that now enough of both camps and booths have complied with your minimum to care for the requirements of the tourist trade, I respectfully recommend that such legislation and regulations be enacted by the Government and Department as will require these booths and camps to obtain a license from the Department of Health to conduct these services.

A fair proportion of these places are positively disgraceful and your officers are without power to have them improved except by persuasion or through local authorities, neither of which are effective with this minority.

I further respectfully suggest that provisional licenses be issued to those who have attained the minimum requirements the past year and that the remainder be notified that this is the last year they will be allowed to operate without license. To carry out this idea, it would be necessary to issue these provisional licenses for this year without charge.

Before leaving the subject of tourist trade I desire to direct attention to the immense number of homes along the Provincial Highway now opened for meals and lodging as well as provide camping and parking space.

These places are in large measure without regulation or inspection.

For the Department to supervise these places would be a serious financial problem as well as a difficult undertaking, yet conditions are not always creditable to the Department or country and are loudly calling for inspection and supervision.

I respectfully suggest that this duty be placed on the local boards of health because they are acquainted with the people operating or proposing to operate these services.

These people should not be allowed to advertise camping or parking privileges and only permitted to supply it to bona-fide patrons.

The minimum standard of requirements should be set by the Department and each local board notified and instructed.

It appears to me that all such accommodation should be licensed and the cost set at such an amount as would reimburse the local authorities. In case of dissatisfaction appeal might be allowed to the Department.

I crave indulgence for the liberty taken in embodying this subject in my report but some rather grave conditions have come to my attention in connection with it, covering both health and social conditions.

DISTRICT No. 2

DR. J. J. FRASER, D.O.H.

I beg to submit herewith report of the work in District No. 2 for the year 1930.

As education of the public increases, the incidence of disease decreases. This is very well shown in tuberculosis, which was once known as the great white plague. The time has come when similar methods should be applied to the control of cancer. A few years ago deaths from tuberculosis occupied second place and cancer fifth. These figures have now been reversed. It should be possible to do something to check this ascending death rate from cancer.

COMMUNICABLE DISEASES

Such diseases as smallpox, typhoid and diphtheria have not occurred in epidemic form in any place in the District. Scarlet fever has been prevalent, but in a mild form. This has made control of such very difficult. There has also been considerable chickenpox, but no deaths. Its importance lies in the fact that it may be confused with smallpox.

Whooping Cough—All cases of whooping cough cannot be controlled in an epidemic, so an effort has been made to control the disease in the younger age groups. If the public could be convinced that whooping cough in children under three years of age is a killing disease many lives would be saved from this cause.

Undulant Fever—Sporadic cases of this and of septic sore throat have occurred during the past year. Both could be prevented by pasteurization of milk.

Acute Respiratory Diseases—Including colds, influenza and pneumonia. Notice was sent to each clerk or medical officer of health, one hundred and ninety-four in all, advising where nursing service could be found available in each area.

The campaign for immunization against diphtheria as a community undertaking and scarlet fever as a private undertaking has been continued throughout the year.

MILK SUPPLIES

More towns and villages have introduced pasteurization than in any other year. The demand for pasteurized milk is growing, but slowly. One encouraging feature is that where pasteurized milk is introduced, there has been the attempt to get clean safe milk at the source beforehand. One factor that has contributed largely to this result is the growing use made of the laboratory in making bacterial examinations of the supply.

SUMMER RESORTS

The attempt made last year to introduce chlorination in the larger hotels has met with a good deal of success. The apparatus devised by the Department has proven very efficient. The plan when first suggested met with a good deal of opposition but it was found that education and appeals to common sense were better than intimidation. In only one instance did the last mentioned method have to be used.

The next move will be to extend the use of pasteurized milk and cream. Meat products are now mostly brought from an inspected source. There is no reason why pasteurized milk should not be shipped in the same way.

The plan which was carried out this year of having an engineer on the lakes all summer is a good one. Their work of inspection of the private cottages and the boats was much appreciated. This service might well be extended to the colonies of summer cottages on Lake Huron and the Georgian Bay.

INSPECTION OF BOATS

Boats used for transportation by the public were inspected as to water supply and disposal of garbage and sewage. This included the following navigation companies:

1. *Muskoka Navigation Co.—Gravenhurst:*

Sagamo—Muskoka Wharf to Natural Park (Lake Muskoka, Lake Rosseau, Lake Joseph).

Cherokee—Bracebridge to Rosseau (Muskoka River, Lake Muskoka, Lake Rosseau).

Islander—Port Carling to Stanley House (Lake Rosseau, Lake Joseph).

Waome—Beaumaris to Bala (Lake Muskoka).

Medora—Rosseau to Muskoka Wharf (Lake Rosseau, Lake Muskoka)

Ahmic—Muskoka Wharf—Port Carling (Lake Muskoka).

Segwun—Spare.

2. *Georgian Bay Tourist Association of Midland:*

City of Midland—Midland to Parry Sound.

City of Dover—Midland, Honey Harbour and Go-Home Bay; also used as an excursion boat.

West Wind—Parry Sound to Pt. Au Baril.

3. *Lake-of-Bays Navigation Co., Huntsville:*

Algonquin—Huntsville to the Portage, Fairy and Peninsular Lakes.

Ramona—Huntsville to the Portage, Fairy and Peninsular Lakes.

Mohawk Belle—Portage to Dwight (Lake-of-Bays).

Iroquois—Portage to Bigwin Inn (Lake-of-Bays).

4. *Chicago & Georgian Bay Navigation Co., Chicago:*

South American—Chicago, Parry Sound, Detroit, Cleveland and Buffalo.

North American—Chicago, Parry Sound, Detroit, Cleveland and Buffalo.

MOTOR TOURIST CAMPS AND REFRESHMENT BOOTHS

The Motor Tourist camps and refreshment booths were inspected in company with Mr. Bryam of the engineering staff. Twenty of the former were inspected and sixteen approved. Of the sixteen approved, fifteen have flush toilets and municipal water supply.

Twenty refreshment booths were inspected and eight approved. Several had fulfilled some of the requirements for approval but had not adopted all of the minimum standards.

WATER SUPPLIES

Bradford (New Supply).....	\$8,000 00
Durham (New Supply, 1931).....	50,000 00
Galt (Extension).....	17,373 77
Gravenhurst (Extension).....	4,422 70
Hespeler (Extension).....	9,983 97
Kitchener (Extension).....	9,319 50
Lucknow (New Supply).....	65,000 00
Waterloo.....	6,162 56
Wingham.....	8,500 00

SEWER EXTENSIONS

Barrie.....	\$766 00
Durham.....	16,000 00
Elmira.....	4,931 00
Galt.....	21,489 32
Guelph.....	14,394 00
Hanover.....	74,745 63
Kitchener.....	29,755 05
Midland.....	27,500 00
Palmerston.....	3,750 00
Preston.....	9,013 73
Stratford.....	17,781 36
Waterloo.....	32,374 00

New Plants for 1931—

- Hanover—Activated Sludge.
- Kitchener—Activated Sludge (under construction).
- Alterations to Waterloo Sewage Plant.

PUBLIC HEALTH NURSING

The demonstration carried on in the townships of North and South Dumfries and Village of Ayr resulted in the appointment of a permanent public health nurse.

An interesting piece of work was done in Wellington County during the summer. A tuberculosis survey was made of the county by Miss Squires. At the same time, chest clinics were conducted at Paisley and Palmerston. The response by the public was very gratifying and valuable data collected for future use. The work was carried out with the full co-operation of the County Medical Society.

DISTRICT No. 3

D. A. McCLENAHAN, D.O.H.

COMMUNICABLE DISEASES

The year 1930 was an exceptional one from a health standpoint in District No. 3 and I think this applies generally to the whole province. Every disease, with the exception of anterior poliomyelitis, shows a lessened mortality and morbidity. This is particularly true of the infectious diseases with the exception

noted above. This decrease in mortality and morbidity of the infectious diseases is notable in the face of unfavourable business conditions which prevailed during the year. Unemployment is not conducive to low mortality rates. The organization of relief work has perhaps retarded the effects of unemployment upon the health of families. Favourable weather conditions and the absence of serious epidemics doubtless operated to make 1930 the excellent health year that it was. Then also, and I think most important of all, the propaganda which has been promoted in regard to the prevention of disease has no doubt been the most important factor in the reduction of mortality from children's diseases. This is particularly true with regard to diphtheria, scarlet fever, smallpox, and tuberculosis. If we can continue our programme of the use of toxoid in diphtheria and get the co-operation of parents this disease may be almost considered as negligible as far as mortality rates are concerned. 1930 may be considered our year of best records, not only in the low mortality rate for all cases combined, but for several diseases which are of major importance in point of public health interest. The examples are tuberculosis, diphtheria, diarrhoeal complaints and puerperal conditions. The typhoid fever death rate also is running lower than ever before. We have continued throughout the year 1930 our campaign in favour of the prevention of diphtheria by the use of toxoid. I wish to thank publicly in this report the Medical Officers of Health in my district for taking the interest they have in following up this work year after year. Without their co-operation very little could have been accomplished in comparison with what has been done. We have had no very serious epidemics in the district during 1930. Occasional outbreaks of scarlet fever have occurred but these have been of a very mild type; on that account the disease is more difficult to stamp out because of the missed cases. There have been no marked epidemics of any infectious disease in any school or public institution in the district.

MILK

Our goal with regard to supplies of milk to the various cities, towns and villages in the district should be that every consumer should be provided with safe milk. This, I am sorry to say, is very far from being realized. In my opinion the only safe milk is a properly pasteurized supply. When I say this I mean to exclude certified milk as a safe milk. We should collect the milk in as cleanly a manner as possible and then pasteurize it. What happened in Cochrane should make it easier to prevail on councils and boards of health to see that consumers get a properly pasteurized milk supply. It is very unfortunate that a food of such a high value as milk should, in some respects, be a dangerous food. The reasons for this is that milk is the only animal food consumed in the raw state, while meat, fish, game and poultry are all cooked before being used. Milk is subject to contamination at all stages. The cow may be diseased, or the udder and flanks may be dirty, or the utensils unsanitary. The multiplication of disease germs in the milk is favoured the longer the milk is kept before being cooled. The chief diseases carried by milk are tuberculosis, septic sore throat, typhoid, diphtheria and scarlet fever. We had no milk epidemics from any of these diseases in District No. 3 during 1930. We had different epidemics of typhoid and diphtheria in years gone by. With better care being taken of municipal water supply, milk seems to be more commonly a carrier of disease than water. The process of pasteurization originated from the work done by Louis Pasteur, a French chemist. I think it is important to remember that the temperature of the milk should be raised to 145 degrees Fah., held there for 30 minutes and then cooled rapidly to 45 degrees Fah. It has been found by careful experi-

mentation that this temperature of 145 degrees Fah., held for 30 minutes, is necessary to destroy disease germs in the milk. This I think should be regarded, and this only, as proper pasteurization. Some of the dealers raise the temperature to 145 degrees Fah. and hold it for 20 minutes but this cannot be regarded as efficient pasteurization. If we are going to recommend pasteurization then we must have some standard and the standard above mentioned seems to be the one that meets the requirements.

PUBLIC INSTITUTIONS

I have been unable to visit all the public institutions in the district during the year 1930 as there are so many of them. I hope to be able to carry this work to completion during the present year. The district is well served with hospitals, there being hospitals in Toronto, Hamilton, Brantford, St. Catharines, Niagara Falls, Simcoe, Dunnville, Paris, Brampton, Newmarket and East Toronto General. They are in the main well equipped and well staffed institutions.

The gaols are in the main antiquated and obsolete inasmuch as they are buildings erected some fifty or sixty years ago. There are two courses which may be followed by the Department if improvement is to be made. One is the establishment of jail farms to serve three or four counties and the other is to enlarge the reformatories already in existence. I am not prepared to say which is the better plan. Perhaps a combination of the two would be the better. Certainly something should be done about the matter. The gaols, including the buildings and equipment, are a blemish on the escutcheon of this fair Province.

UNDULANT FEVER

We have had nine cases of undulant fever in the district during 1930. The following are the cases with the sources of the infection as far as we have been able to obtain it.

Case	Sex	Date	Residence	Source of the Infection
M.M.	F	Jan. 15/30	Woodbridge	Drank milk from an accredited herd of Stanley Watson. Case of abortion in cattle, Oct. 1929.
A.J.B.	F	Jan. 17/30	Cayuga	Unable to find source.
G.M.S.	M	Feb. 15/30	Inglewood	Contracted directly from cow.
Mrs. A.	F	Apr. 23/30	Toronto	Probably contracted from milk at New Lowell, Ontario.
G.P.	M	July 18/30	Weston	Worked in Swift's abattoir and was probably infected directly as he drank only pasteurized milk.
Mrs. H.	F	July 16/30	Agincourt	Could not get satisfactory history as family speak no English.
Mrs. C. F.	F	July 11/30	Cainsville	Had been visiting on farm and drinking milk but could get no history of disease among the cattle.
Mr. T.	M	Aug. 21/30	St. Catharines	Patient had been using unpasteurized milk from a herd where abortion was found among the cattle.
W.R.C.	M	Oct. 3/30	Simcoe	Caused by drinking infected milk.

A list such as the above when taken in conjunction with what happened in Kirkland Lake seems to point very strongly to the importance of giving to consumers only properly pasteurized milk.

CHILD WELFARE

District No. 3 is fairly well covered in the matter of nurses either of the school or public health variety. A Public Health nurse has been established in Paris for the first time during 1930. Also a Public Health nurse in the townships of North and South Dumfries and the village of Ayr. In addition a Public Health nurse has been appointed in Richmond Hill and the township of Vaughan. These appointments were very materially assisted by the work done by Miss Johnston and Miss Vrooman, Departmental nurses. Miss Osborne, a Public Health nurse from the Department, has been working for some time in Port Dover and the township of Wodehouse. We are hoping that good results may follow this demonstration of Public Health nursing.

NUISANCES

Much time is taken up in the investigation of nuisances. I have always been of the opinion that matters of this kind should be divided between the Police Department and Engineering as they very seldom involve any Public Health problems. This would leave more time for the District Officer to devote to more important health work.

CO-OPERATION

I would like to acknowledge sincere co-operation from the Department and the various branches, and to extend thanks for the same.

DISTRICT No. 4

N. H. SUTTON, D.O.H.

I beg to present to you the report on my work for 1930 as District Officer of Health for District No. 4.

Each year is usually marked by some special feature and this one will be remembered as that of the epidemic of anterior poliomyelitis (infantile paralysis), since my district bore the brunt of the attack of this disease in the Province; cases occurring in more than forty municipalities in the district were attended by over 100 physicians. An occasional case began to occur late in the month of May and early June, but it was not until July that they ceased to be sporadic and the epidemic really began. From then to late October, the situation was serious and the work of organizing and assisting the fight against the disease was the most strenuous, anxious and continuous that I have ever known. The convalescent serum supplied by the Department was a most potent factor in lessening the mortality and the morbidity with its attendant residual paralyses.

When the first cases began to occur in July, I visited as many of them as possible, not only to assist the local health authorities in the control of outbreak, but to ascertain the characteristics of the preliminary symptoms, so that I might acquaint the health authorities and practising physicians of neighbouring municipalities with the nearness of the disease and the type of onset for which to be on the watch. This proved a most useful procedure, for during July

the public attention was focussed on the election and news of the dangerous nearness of the disease travelled at a strangely slow pace.

Due to this public inertia, a considerable proportion of the early cases went on to the paralytic stage before a physician was called in. Luckily, the total number of cases in July was not large. In consultation with Dr. A. L. McKay, of the Division of Communicable Diseases, I urged newspaper publicity as to the danger, since I believed that it were better to risk unduly alarming some of the people than to have further disasters from the prevailing indifference. The effect of the publicity then undertaken was immediately good, and for the remainder of the outbreak there were few cases which were not brought to the physician at the earliest possible moment.

As the epidemic progressed, the character of the early symptoms changed almost from week to week, one being most pronounced this week and another the next week or fortnight. Keeping as closely in touch with this feature as possible, I would swing around the affected parts of the district, and through the M.O.H.'s acquaint the profession with the change of front—a service that several of the M.O.H.'s told me they found to be of much help to them. I often drove 150–250 miles in a day, endeavouring to be home each night if at all possible; for during August, September and part of October, I was called up an average of once a night by some physician to consult as to the diagnosis of a case, or to arrange for serum to be sent or called for by a messenger who would often come thirty to sixty miles to get it that night. I was also often called upon to drive equal distances for consultation in diagnosis. Thus I was travelling consultant within a radius of seventy miles from my office in Peterboro. The responsibility was very great but by the grace of God I have no mistakes in diagnosis to regret.

One had also to conserve the supply of serum, which by late August had begun to dwindle alarmingly. This was done by curbing the activities of some physicians, who, being used to the freedom of supply of other serums, desired to use this one similarly, rather than make a reasonably sure diagnosis by consultation if need be.

Arrangements were also successfully carried out to secure donors of serum in Peterboro and Lindsay, and by the local board of health in Oshawa. I shall always gratefully remember the spirit with which these people responded to the call.

One effect of the rush of the struggle is much regretted, viz.: that the statistics of the outbreak are very incomplete. An endeavour is being made during the present winter to remedy this as far as is possible and I hope to report elsewhere and more fully the result of this study, but the data on some interesting points will, I fear, never be satisfactorily complete. Some things did appear to stand out. *First*, the great success attending the use of the serum in the preparalytic stage; the exceptions being (a) the cases with high involvement, bulbar and even cerebral; (b) those patients with a more or less strong history of previous cases in the same or former generations in the family. *Second*, the death rate; not much if any over 5% was preponderantly among adults; two of these deaths being of farmers over thirty years old. *Third*, the almost complete degree of recovery in those cases of paralysis which were early splinted in good position and maintained at rest until convalescence was complete and then given gradual muscle training.

Of other communicable diseases, few require extended mention. *Smallpox* broke out at the beginning of March in a lumber camp operating during the winter, close to the border of Hastings and Addington counties. It was handled

satisfactorily by Dr. Nickle of Eldorado. Later in the month the disease appeared in Trenton and two visitors there took it home with them to Thurlow township. Investigation showed two families quarantined in Trenton and that others had been probably involved by school and other association. In spite of the prevalence of this disease in Trenton in 1925-26, there were in the school-room most affected only 13.5% of the pupils who were protected by vaccination, and another 8.1% by having had the disease itself. In the whole school only 31.43% of the pupils were immunized by both these means combined. This is typical of the inefficiency of the local health authority in Trenton, which makes no effort to acquaint the citizens with what can be accomplished for the public health by means at hand. It is left for a serious case or a death to urge the usefulness of immunization against this disease or that which is reported next.

Diphtheria.—This disease was present in Trenton during eight months of the year and thirty-one cases with two deaths were reported.

Flaring up fairly briskly after September school opening it was not until the rather dramatic death of a young man there later in the autumn that an alarmed public, learning through the school and V.O.N. nurses of the usefulness of toxoid, began to take the children to the family physicians. A little over 300, or less than 1 in 5, were thus treated. At the end of the year the disease is still present there.

This disease has appeared in several other municipalities but in only occasional cases. The use of toxoid is being urged more in townships than the smaller urban municipalities, and I foresee that there will be, ere long, a fairly widespread forward movement along this line. The very gratifying number of toxoid immunizations accomplished by Dr. Earle, M.O.H., of Omemeé village and Emily township, is here gladly noted.

Oshawa is still much in advance of any other municipality in immunization as in most lines of health work. Their work in scarlet fever immunization is being kept up, and if their results over a five-year period are as at present their figures when published will make wonderfully inspiring reading.

The excellent work of the school medical service in the use of toxoid in the public schools of Peterboro is reflected in the very small number of cases reported in this city, only seven. Scarlet fever immunization has not been engaged in however, and the number of cases reported (27) is not so good. It is unlikely, moreover, that these 27 reported cases represent the total number of cases here. Oshawa is, as yet, the only municipality in my district where the local health authority is so well organized and has such good co-operation on the part of the medical profession and the public that the reported cases of communicable diseases represents closely the actual number of such cases occurring. It is, in other words, the only one whose vital statistics are of real value.

Typhoid Fever is the other communicable disease which has been present. The year started with the investigation of an outbreak in Woodville, a village in Victoria County. The first cases occurred in December and were those of an aged brother and sister who died of the disease. The source of their infection and the mode of its spread to three other families defied elucidation, though a primitive drainage system for the immediate area was strongly suspected as serving to pollute wells.

The next outbreak was in Madoc in Hastings County, where four cases occurred in August. Here, again, the source could not be definitely ascertained,

though suspicion fell on ice cream as the means of spread. It could not be definitely proven, however.

About the same time a small outbreak of four cases occurred in and near Norland, a small village in North Victoria County. Here, again, the source defied endeavours to locate it. At this juncture, I was so fully employed with the poliomyelitis that I could devote but little time to these investigations.

Later in September the disease appeared in a virulent form in a family in Consecon, Prince Edward County, with two deaths during October. There was a strong suspicion that the infection may have been derived indirectly from the carrier located in the area the previous year, but the closest inquiry failed to bring confirmation.

Also, in early October, typhoid began to appear in Belleville and then flared up briskly. It all occurred among the customers of one raw milk dairy. This dairy was at once closed and investigation made there and at the producer's farms. Feces samples from all the personnel involved showed *B. typhosus* in that from a farm hand, who had been employed the previous month by one of the producers. Further inquiry showed that this man of 63 years, a farm hand all his life, had had typhoid some twenty-five years before, and that since then the disease had appeared at several farms where he had later been employed.

This adds one more to the lengthening list of located carriers in the district, who have invariably been found to be elderly people. It is a further proof of the dictum of Dr. McKay, M.O.H. of Oshawa, that the reservoir from which our typhoid largely spreads will be found in elderly people who had the disease, oftentimes as long ago as their youth.

The mode of transmission now is most generally through milk or milk products which have not been "scientifically pasteurized." Belleville has now had its lesson and a by-law requiring pasteurization of all retail milk will be brought in early in the New Year.

Undulant Fever.—This disease is being increasingly reported throughout the district and our laboratories have done a very valuable service in adding the test for this disease to the regular Widal routine. All the cases investigated during the year in the district have arisen from drinking raw milk from infected herds.

Rabies appeared in winter and early spring in the northern half of Murray township near Frankford. It involved animals rather than humans, but disorganized the milk business of several farms for a good many weeks.

HIGHWAY TOURIST ENTERPRISES

Our toothless inspection of these by myself and one of our sanitary engineers was again done. Some slight benefit resulted, but until some teeth are put into the inspection the benefit will continue to be very slight for the effort put forth. Some slight increase in the number of refreshment booths was noted but the great change was in the cabinizing of almost all tourist camps. The day of the tent seems to have passed. Fresh air camp inspection has shown its usefulness and almost all of these organizations are showing a high sanitary efficiency.

SANITARY ENGINEERING

The erection of a fine modern filtration plant for the Belleville waterworks is nearly complete and that city is to be congratulated on this distinct forward step.

The installation of water supply from artesian wells and a good sewage disposal plant by the village of Tweed has been completed and is now a matter of justifiable pride to the inhabitants. The work was undertaken by the council of the preceding year, and at the end of the year they were all defeated for re-election, but the work had to go on and is justifying itself and its originators.

The effort to provide reasonable sanitary conveniences for the Public and Continuation School of Havelock village fell through because of local jealousies, which some individuals of local influence refused to subordinate to the general good. A considerable amount of my time, as well as that of one of our sanitary engineers and of public and high school inspectors, would appear to have been wasted because of this.

Lindsay is now considering artesian wells as its source of public water supply. The present supply from the Scugog River can be made safe, but never continuously palatable because of a weedy taste.

No effort has been made to complete the Peterboro Sewage Disposal plant and one marvels at the long suffering attitude of the townships down the river whose waters continue to be polluted long after they should have been freed from this nuisance.

The work of the Peterboro Branch Laboratory has continued to increase in a remarkable degree and the service rendered is appreciated by physicians over a radius of seventy miles. The capacity of the Laboratory staff in its present numbers is about at its limit, and if the work continues to grow an increase of staff will have to be made.

Endeavours in the way of Public Health education had to be a good deal curtailed this year owing to the pressure of the work on the poliomyelitis epidemic. I succeeded, however, in giving several talks to various institutes and other organizations, as well as assisting at some meetings, called by rural M.O.H.'s, to further the toxoid campaigns they were putting on in their municipalities. During the second week of October, the Department had a very effective exhibit at the Kiwanis Fair here, which was under my supervision.

May I conclude by expressing my thanks to the officers of the Department on the one hand and to the M.O.H.'s and the medical profession on the other for the very gratifying amount of co-operation which I have received from them during the year. The success of the fight against poliomyelitis has shown us all how effective such co-operation can be and I trust it will continue to grow to perfect completeness.

DISTRICT No. 5

PAUL J. MOLONEY, D.O.H.

I have the honour to submit herewith my Annual Report for Health District No. 5 for the year 1930.

District Number Five consists of the thirteen Eastern Counties of the Province, and includes Cities of Ottawa and Kingston, with an acreage of 5,570,763 acres, and a population of approximately 500,000.

The central office is situated at 301 First Avenue, Ottawa. The district is served by two laboratories. One at 428 Slater Street, Ottawa, under the charge of Dr. Letts, and the other in Kingston, under the charge of Dr. Millar.

Systematic inspection of all public water supplies is made from the Department in Toronto.

This Department also supplies sanitary engineers on request to assist in the solution of any other sanitary problems which may from time to time arise.

I desire to acknowledge the hearty co-operation and valuable assistance received from the various divisions under the control of the Provincial Department of Health, and also from the Ontario Department of Labour, the several Mother's Allowance Boards, and their Inspectors, The Federal Veterinary General's Department, the Canadian Tuberculosis Association, and the Canadian Council on Child and Family Welfare.

Besides the weekly reports which are sent to the Department from this office, special reports dealing with the details of important events and problems are always forwarded when warranted, or when asked for.

COMMUNICABLE DISEASES

During the year the district has been extremely fortunate owing to the small number of communicable diseases prevalent.

Smallpox.—During 1929 and the first half of 1930 an extensive campaign for vaccination of children against this disease was carried on by the local authorities in most of the municipalities in the district. Very few cases during the year, and nothing of the nature of an epidemic has occurred. All the cases were of a very mild type.

Scarlet Fever.—This disease was very rare during the year and continued to be of a very mild type.

Typhoid Fever.—With the installation of chlorination in connection with mostly all public water supplies, and with the careful inspection carried out by the Provincial Sanitary Engineers, this disease has been pretty well eliminated as a public menace in this end of the Province. Sporadic cases will occur, and it is a problem whether we will be able to get rid of this irreducible minimum unless some new methods are devised to deal with it.

Anterior Poliomyelitis. Owing to the prevalence of this disease in the previous year it was thought that we would escape it during 1930. This did not prove to be the case, although the outbreak was much less severe than in the previous year. The knowledge of the efficacy of anterior poliomyelitis serum in the treatment of the disease having become so widely known, had much to do in controlling the bad after effects of this disease. Eastern Ontario formed one of the chief sources of supply for the rest of the Province in the collection of serum. Active co-operation between all the parties concerned enabled a bountiful supply of material from which to manufacture the serum being secured.

Tuberculosis.—The number of cases of this disease, as shown by the clinic reports, make the need of a Sanatorium in this end of the Province markedly evident. Only a small percentage of the patients for whom sanatorium treatment is indicated, and who are willing to take the treatment can be accommodated in our present institutions. I think the need of additional sanatorium accommodation is perhaps the most pressing problem in public health now confronting the people of this end of the province.

Undulant Fever and Rabies.—These two diseases present an administrative problem common to both. They are diseases which attack both animals and humans. It is impossible to control these diseases in human beings unless we control the disease in animals. It is true that the careful pasteurization of milk

will control undulant fever in many municipalities, but the vast farming communities which cannot be reached at present by any pasteurizing regulations leave the elimination of undulant fever still wrapped up with its control among animals.

The care of animals has been allotted by mutual consent to the Agricultural Departments of the Dominion and the Provinces; the responsibilities for the health of humans to that of the Provincial and Dominion Departments of Health.

I am convinced that diseases of this type will never be eradicated unless there is better and more energetic co-operation between the different Agricultural Departments and the Departments of Government having in charge the health of the people.

TOXOID DEMONSTRATION

Owing to the conclusive evidence of the efficacy of the toxoid treatment in preventing diphtheria, and to the encouragement given by the Department, several successful demonstrations have been carried out during the year.

In Eastview the clinic organized by the Victorian Order of Nurses, and assisted during the demonstration by the Provincial Public Health Nurses, was markedly successful, over one thousand children being immunized.

A very successful clinic, and one which reflects great credit on the local M.O.H., Dr. McDonald, who was assisted by Miss Squires, P.H.N., was held at Apple Hill, and this clinic, it is intended, is but the forerunner of others which will take care of the whole municipality.

In the city of Ottawa a campaign has been inaugurated by the local board of health, which should bear fruit during the coming year in a greatly decreased diphtheria incidence in the city.

One of the objectives of the County demonstration in Prescott County is to have the school children, and the children of pre-school age, immunized by means of toxoid before the demonstration is completed.

All over the district physicians are immunizing a certain percentage of their patients in their private office, and it is hoped that in the near future the practice will become so universal that the incidence of diphtheria, as far as the district is concerned, will be negligible.

PUBLIC HEALTH NURSES

During the year demonstrations in public health nursing in certain localities, given with the object of encouraging the employment of a full time Public Health nurse, and in others, where, owing to financial reasons no full time appointment could be expected, for service only, were held in many parts of the District.

The nurses taking part, and the localities in which they gave demonstrations, are as follows:

Miss Edna M. Squires: County of Lanark, centering on Perth Town, County of Prescott, centering on Plantagenet; Dundas County, centering on Morrisburg; Glengarry County, centering on Apple Hill, and as one of the staff of nurses taking part in the County Public Health demonstration in Prescott County.

Miss Mildred Walker: In Perth and the surrounding townships, and in Plantagenet Village and Township; Town of Eastview.

Miss Helen Lunn: Two front townships, Dundas County, including the towns of Morrisburg and Iroquois; North Renfrew, centering on Barry's Bay,

Killaloe, Eganville, Cobden; Nepean township centering on Westboro; Golden Lake Indian Reservation, and as one of the staff engaged in the county demonstration in Prescott County.

Miss Marguerite Hopper, Miss Margaret Nealon and Miss Eleanor Wheler, taking part in the county demonstration in Prescott County.

Special reference to the demonstration being held in the County of Prescott will be made owing to its major importance.

This is the first county demonstration held in this district. Some years ago a demonstration which pretty well covered the county was given in Gengarry. It is intended that every part, both rural and urban, of the County of Prescott shall be covered during the demonstration. So far the nurses' attention has been given to the rural sections, which they have covered in part.

Miss Hopper in Caledonia, Miss Nealon in Plantagenet, Miss Wheler in Alfred and Miss Lunn in East Hawkesbury.

Dr. Elizabeth Kiteley, of the Division of Child Hygiene, has been engaged during the closing months of the year in school medical inspection in the townships of Caledonia and Alfred. Quite a large number of corrections have already been effected.

Several leading specialists in the city of Ottawa have tendered their services free of charge in the case of indigents, and one child is undergoing treatment at the Sick Children's Hospital in Toronto.

It is intended, before the completion of the demonstration, to hold several clinics at the principal points in the county. These will consist, not only of child welfare clinics, but also clinics conducted by eye, ear, nose and throat, and chest specialists.

A series of public lectures by prominent sanitarians, in French and English, dealing with health topics has been arranged for.

The infant death rate in this county has been, for many years, abnormally high, and it is hoped that valuable statistics will be secured during the demonstration which will enable the health authorities to deal successfully with the problem.

Other matters of importance to which reference will be made are the following:

Westboro—Municipal water supply and drainage system.

Actual work of construction is at last under way in connection with this enterprise which has been a live question in sanitary matters for a great many years.

The district surrounding Westboro, and which lies directly west of the City of Ottawa, and bordering on the Ottawa River, has never had a municipal water supply, or drainage system. The population of this area varies from 7,000 to 12,000 people, according to the season. In the summer time a great number of summer residences are occupied, and thus greatly augments the population.

The difficulty confronting the advocates of the municipal supply was the fact that this district was so situated that the natural drainage would enter the Ottawa River above the immediate source of Ottawa City's municipal water supply.

Another difficulty was the matter of expense. The area occupied as a residential district is very extensive compared with the number of houses occupied. The cost of construction, owing to the large amount of rock excavation, would also need to be very high. This section is served by the Ottawa Street Railway, and some years ago there was an influx of a great number of well-to-do families who erected many very fine homes. As time went on the population became

denser in certain areas, and the water supply, which was secured from wells, became more and more contaminated.

Various Government agencies, with the co-operation of local bodies, have carried on a persistent campaign favourable to a municipal water and sewer system, and during the year 1930 success crowned their efforts.

Special legislation was required to set apart an area which would control and which would be served by the new system. Negotiations were held with the city of Ottawa by which it was arranged that the sewage of the area would be carried through the Ottawa sewers to an outlet below the Chaudiere.

Some hesitancy was shown as to whether the water supply should be procured from deep wells, or secured by a connection with Ottawa City. Satisfactory arrangements were eventually made with the city for a supply, and during the coming year this district will be supplied with filtered water, perhaps of the best quality in Canada, the product of Ottawa's new filtration plant.

Some sections which would naturally come into the scheme have refused to be included, and this has been a great disappointment to everyone promoting the scheme.

Among those in the Department who took an active part in promoting and solving this sanitary problem, special mention should be made of the Deputy Minister, and the Director and staff of the Division of Sanitary Engineering.

TOURIST CAMPS, SUMMER RESORTS AND WAYSIDE RESTAURANTS

These have been thoroughly inspected during the year. The latter have greatly increased in number. On the whole these places have been conducted in a better manner than in previous years. No increase in approval signs have been granted to the tourist camps, but a marked increase in the approval signs for wayside restaurants is noted.

Especially with regard to municipalities having within their limits summer resorts and homes, the local Medical Officers of Health, and Sanitary Inspectors, have been encouraged and instructed to take a personal interest in their sanitation.

Owing to the great number of lakes, over 400 in all, in the District, besides the numerous river resorts, it would be impossible for the Provincial authorities, with the present staff, to keep a proper supervision of them, and the response by the local authorities has been prompt and effective.

OTTAWA MUNICIPAL WATER SUPPLY FILTRATION PLANT

The plant referred to in my last report is now nearing completion, and Ottawa City, and the nearby municipalities depending upon her for their water supply, will have a water supply of a quality second to none on the continent in the very near future.

DISTRICT No. 6
W. E. GEORGE, D.O.H.

I have the honour to submit my 18th Annual Report for health district No. 6, which constitutes an area comprising the Districts of Timiskaming, Nipissing, Parry Sound and part of Cochrane and Sudbury. This health District is entirely without county organization. There are within it approximately six hundred and fifty surveyed townships, although only sixty-two are organized. A large area in the district of Cochrane has not been surveyed and smaller areas in Parry Sound, Nipissing and Sudbury. Besides the sixty-two organized townships mentioned above there are five villages, twenty-six towns and two cities, making a total of ninety-five organized municipalities.

From north to south the length of railroad in operation (the railway does not extend to the northern limits of the district) is four hundred and seventy miles. Four railways cut the district east and west. First, the Canadian National Railway through Scotia Junction, one hundred and forty-five miles; second, the Canadian National Railway through North Bay, two hundred and ten miles; third, the Canadian Pacific Railway, through North Bay, one hundred and forty-five miles; fourth, the Canadian National Railway through Cochrane, one hundred and fifty-five miles. It will be seen that the accessible area in this health district is in the neighbourhood of four hundred and seventy miles long and one hundred and fifty miles wide. By the summer of nineteen hundred and thirty-one the railway will have reached Moose Factory, extending the northern limits another forty miles or a total distance of five hundred and ten miles from north to south; this is almost the exact distance from Sarnia to Montreal.

PERSONNEL

- I. District Officer W. Egerton George, M.B., D.P.H.
 II. Public Health Nurses . Miss Rose Hally.
 Miss H. E. Smith
 Miss Margaret Nealon
 Miss M. E. Hopper
 III. Sanitary Inspectors . . John Richardson
 Hugh McIntyre
 David McKee
 IV. Laboratory Director . W. A. R. Michell, M.B., D.P.H.
 Technician, John Lawson
 V. Office Clerk and Steno-
 grapher Miss Roma Langlois, to Nov. 15.
 Miss Juanita Conroy, from Nov. 15 to Dec. 31.

COMMUNICABLE DISEASES
(RETURNS)

	1930	1929	1928
Cerebro Spinal Meningitis.....	7-0	15-1	5-4
Chancroid.....	2	.....	.....
Chicken Pox.....	211-0	221-0	125-
Conjunctivitis Acute Infectious.....	.....	8-0	3-
Diphtheria.....	59-4	34-2	55-2
Gonorrhoea.....	73	177	127
Influenza.....	44-1	275-5	119-1
German Measles.....	26	2	1
Measles.....	355	463	155-1
Mumps.....	160	267	258
Paratyphoid.....	1	.....	.....
Pneumonia:			
Acute Lobar.....	21-8	19-10	26-6
Bronchial.....	51-12	28-6	11-7
Poliomylitis.....	24-4	9-1	4-3
Puerperal Septicaemia.....	5-2	.....	.....
Scarlet Fever.....	297	74-2	90-2
Septic Sore Throat.....	23	6	62
Smallpox.....	206	121	43
Syphilis.....	50-1	171	5-6
Tuberculosis.....	30-12	19-3	12-4
Typhoid.....	47-1	54-3	23-2
Whooping Cough.....	142	233-2	66-1
Deaths from all other causes.....	555	406	356

Communicable disease weekly returns appear very incomplete in the light of personal investigations and laboratory returns, but it must be remembered that a not inconsiderable number of laboratory specimens are obtained from those living in unorganized areas in the vicinity of towns from which specimens are sent. There is not any system of making returns of cases from unorganized territory and of course these should not be included in the municipal returns. As an example of the incompleteness of returns there were only twenty-three cases of septic sore throat reported from the district, while over four hundred were investigated in Kirkland Lake alone. Fifty-nine cases of diphtheria were reported while sixty-six individuals gave positive swabs on laboratory examination. Thirty cases of tuberculosis were reported while positive sputums were received from seventy-four individuals. Forty-seven cases of typhoid were reported, while positive widals were obtained from seventy-nine patients.

During the year preventable diseases assumed epidemic proportions in a number of municipalities. In January, mumps occurred in Callander; in March, measles in Iroquois Falls and along the railways between this town and Connaught; in March, scarlet fever and German measles in Capreol; in May and June, whooping cough in Kirkland Lake; in September and October, typhoid in Copper Cliff and Sudbury; in December, septic sore throat in Kirkland.

SCARLET FEVER AND GERMAN MEASLES

The combined epidemics of mild scarlet fever and German measles in Capreol in March and April was most interesting because of the difficulty of diagnosis.

Where the onset was in any way typical for scarlet fever there was no difficulty in diagnosis. But frequently the onset was without shivering or vomiting, rash was characteristically scarlet in form, while the tongue was white with clean edges. Sometimes there was a history of stiff neck and enlarged glands with some slight suffusion of the conjunctive. The dorsum of the foot, inside of the thighs and arms frequently failed to show the characteristic morbilliform spots of German measles; as a result it was decided to call those cases which had sore throats, were moderately ill and who desquamated in large flakes, scarlet fever. But in some a fairly acute onset was followed by a fine powdery desquamation, while others with trivial early symptoms peeled off in large flakes. A diagnosis of German measles was made in sixty-five cases while fourteen were sufficiently typical to be called scarlet fever. A few cases were thought to have both diseases.

TYPHOID

The epidemic of typhoid in Copper Cliff came to the attention of this office by the laboratory returns on Widal specimens from Sudbury during September and October. As the patients were treated in the Sudbury hospital and as the Widal slides came from that town, Sudbury was first suspected. Positive Widals were obtained from thirty-four patients while fifty-seven patients gave negative tests; some patients gave negative Widals until convalescence was well established, while with other patients no sustained effort was maintained to obtain positive Widals when the cases were clinically typhoid and accepted as such.

SEPTIC SORE THROAT

During October and November a few cases of scarlet fever and tonsilitis occurred in the town of Kirkland Lake. Suddenly beginning on December

the sixth some three hundred cases of sore throat came under the care of physicians within five days, these were generally recognized as septic sore throat and the milk supply of one dairy was suspected as the source. Of two hundred and fifty cases in which the milk supply was given, two hundred and forty obtained their milk from one dairy, as a result the Medical Officer of Health closed that dairy on December the twelfth (twenty-four hours before the arrival of the Provincial officials). This act in the opinion of this office resulted in the complete protection of a large number of people and prevented many deaths. Upon closing this dairy, throat swabs were taken by the Medical Officer of Health of all employees in any way connected with the production and handling of milk for the town. Milk samples for laboratory examinations were also taken from the combined product of each herd. Two attendants in the suspected dairy gave positive throat cultures of streptococcus haemolyticus epidemicus; indeed the combined milk from that dairy also gave a positive culture; the affected attendants were immediately discharged. Our Director of the Division of Preventable Diseases and the District Officer arrived at Kirkland Lake on Saturday, December the thirteenth. The suspected dairy was immediately visited and blood-agar plate cultures were made from the milk of several suspected cows. A number of patients were also visited in company with the Medical Officer of Health and cultures were made from throat swabs. That evening it was thought advisable to call the Director of Laboratories at Kirkland Lake in order that his staff would be prepared for the not inconsiderable amount of work which such an epidemic entails. He arrived the following day, Sunday, December the fourteenth, and brought with him a supply of sample bottles for milk specimens. A veterinary surgeon from North Bay also arrived on that day; this man came at the request of the local board of health.

The cows of all dairies were physically examined with the following results: Thirteen cows with unhealthy udders were picked out of the suspected herd, seven cows from a second large dairy, one cow from a third dairy, and one cow from a fourth dairy. As soon as the work of taking milk samples from these suspected cows was completed, samples were immediately taken from all healthy cows. In two or three days we had reports not only on suspected cows but on the healthy ones as well. Seven cows out of the thirteen gave positive cultures of haemolyticus streptococcus epidemicus in the suspected herd. One cow out of the second herd which had been dry over a week also gave a positive culture. These cows were promptly taken from the dairy herd and slaughtered, none of the healthy cows gave positive cultures.

The District Officer decided it was in the interest of public safety to cut off all local milk supplies, since he had evidence that other local producers had been buying milk in large quantities from infected supply. As none of the dairies had steam equipment for sterilization purposes the possibility of infection in this way could not be overlooked.

At a meeting on Monday night, December the fifteenth, with the local producers it was decided that until pasteurizing equipment could be installed to send the milk to North Bay for pasteurization if a plant there could be approved by the Department. This measure was designed to protect the producer against the total loss of his product with which he was confronted at the time the milk was cut off. It was further proposed to sterilize all bottles and cans, it was intended that the milk would be received in cans at this depot from the pasteurizer in North Bay; here it would be bottled and turned over to the respective dairymen in proportion to the quantities delivered to the pasteurizer.

On December the sixteenth, the Deputy Minister arrived with an epidemiologist from the School of Hygiene, University of Toronto. It was planned to study the epidemic jointly with the Departmental Epidemiologist. The co-operation on the part of the University with the Department was a splendid testimony to the good feeling which exists between them and gave the public an increased sense of security that the Department's methods were both scientific and up-to-date. Their plan was to collect data from each individual patient and tabulate this information on carefully prepared forms. Three hundred and twenty-five complete case records were made by the twenty-fourth of December.

On Friday the nineteenth of December the Chief Sanitary Engineer in company with the Chief Sanitary Inspector and the District Officer made an inspection of a number of pasteurizing plants at North Bay, as a result the Davies Bros. plant was approved as suitable for pasteurizing the Kirkland Lake supply, providing the plant was supervised by a Department official. Upon arriving at Kirkland Lake the same day a careful examination was made of the specification of new pasteurizing equipment which had been ordered by the three dairies. It was also decided to dispense with the temporary local sterilizing depot and have the milk both pasteurized and bottled in North Bay where adequate equipment for sterilizing purposes is part of the furnishings of that plant. Bottles were not permitted to enter any house, the contents were emptied into another container at the consumer's door, although this resulted in dirty bottles being shipped from Kirkland Lake to North Bay for washing and sterilizing, it prevented the necessity of providing a temporary central depot for this purpose in Kirkland Lake which proved extremely difficult, owing to inability to secure a building for the purpose.

The Chief Sanitary Inspector took charge of the producers to see that cows which had been condemned were removed from the herds and that other cows held for laboratory observation were isolated, he also took charge of the shipments of milk to North Bay which began on December the twenty-third.

At North Bay the pasteurizing plant was supervised by the Provincial Sanitary Inspector stationed at that point, in all there were fifteen shipments made before the local pasteurizers got into operation. Regarding the pasteurizing temperatures it may be said that the recording thermometer never at any time fell below one hundred and forty-two degrees Fahrenheit nor rose above one hundred and forty-five degrees Fahrenheit for thirty minutes. A daily bacterial count was made on the pasteurized product. These counts never exceeded five thousand per cc. on any of the fifteen days that shipments were made. On January the ninth the local plants began operation in Kirkland Lake and were immediately taken in charge by the Provincial Sanitary Inspector for North Bay. The results were even better than those obtained at North Bay. This was only possible because of the very fine quality of raw milk being produced in Kirkland Lake.

Pasteurization is the only great safeguard against such an epidemic, without this it is doubtful if any amount of local supervision could have prevented the outbreak. There were in the neighbourhood of four hundred and fifty cases of septic sore throat of which not more than twenty per cent. were traceable to contact infection, this is undoubtedly a larger proportion of contact cases than is usual in an epidemic. It was impossible to get exact figures since many mild cases had recovered before our individual studies were complete. The onset began suddenly with chills and rapid rise of temperature, sore throat with the mucous membrane of the pharynx and tonsils swollen and red. This red throat became purplish in colour after one or two days, the patient was prostrate from

the first even out of proportion to the severity of the local condition. The acute symptoms usually subsided in about four days leaving the patient very weak, complications were frequent with a rapid return of the constitutional symptoms. The more common were swelling of the glands of the neck, general septicaemia and pericarditis. Where the disease progressed to a fatal termination it was usually from general septicaemia and pericarditis; the fatal ending was usually not delayed any longer than ten days.

PUBLIC HEALTH NURSES

Miss Rose Hally began the year in Cochrane with the supervision of an epidemic of scarlet fever, this with the school inspection occupied all her time until the middle of March. From March to May the nurse was occupied with a survey of Ansonville, many school children were immunized against scarlet fever. From May to July eleven separate and twelve rural public schools were visited with the Departmental Dentist, these schools were in the following locations: First, below Matheson; second, vicinity of Hunta; third, Clute; fourth, Genier; fifth, Brown; sixth, Norebega; seventh, Monteith; eighth, Shillington; ninth, Vel Gagne. The nearest of these schools to a local dentist was ten miles and the greatest distance from nearest dentist was twenty-one miles. The improvement in the condition of the mouths of these rural children speaks volumes for support of the extension of this work in rural and particularly unorganized areas. In August Miss Hally was occupied in a survey of a number of summer schools; scarlet fever was prevalent in these schools at Brower and Anthony, while diphtheria reared its dangerous head at Raymore. From September to December the nurse inspected the rural schools south of Cochrane and south of Porquis Junction.

Miss H. Elizabeth Smith.—In January Miss Smith continued to push the prevention of diphtheria by the administration of toxoid in Englehart and vicinity. In the district supervised by this nurse extra efforts had to be carried on in conjunction with routine physical inspection of school children and with home visits to the pre-school child.

The Kiwanis Club at New Liskeard had arranged for an eye clinic in May at which clinic they provided an examination by an oculist of all school children with eye defects within a radius of approximately twenty miles, consequently Miss Smith was largely responsible for the preliminary survey of the rural school population. In April the administration of toxoid was begun in the Township of Hilliard by the Medical Officer of Health, Dr. A. C. Farlinger, New Liskeard. In May the eye clinic was held in New Liskeard. In June toxoid was given to school children in the Townships of Dack and Chamberlain by the Medical Officer of Health, Dr. F. H. Wilson, Englehart. In July and August Miss Smith began remedial dental work in isolated sections. Dr. Later of the Dental Division did the work. Harley, Brethour, Sevard, Marter, Sharp and Yorkston are some of the places visited. In September, in connection with the New Liskeard Fall Fair, Miss Smith held a competitive health contest which was participated in by the rural schools within fifteen miles of the town; a first-aid competition was also a contribution to this Fair. During September the Kiwanis Club of New Liskeard held their carnival at which Miss Smith established a health booth for the display and distribution of health literature. In September and October Miss Smith investigated reported cases of anterior poliomyelitis in rural areas and chicken pox in Englehart. In October and November school inspection occupied all her time. In December Miss Smith deferred her holidays

to assist in the control of septic sore throat at Kirkland Lake. It is to be regretted that this indefatigable worker should have contracted the disease and was consequently compelled to use her holidays in convalescence.

Miss Nealon.—Miss Nealon made her headquarters in Cobalt; she remained in this area until September, when she left to take part in a special survey carried on by the Division of Child Hygiene, county of Prescott. Miss Nealon has since severed her connection with the Department. The District supervised by this nurse suffered more than many others from the depression, as a result considerable of Miss Nealon's time was given to relief or arranging for hospital and sanitarium treatment to the suffering poor. In January Miss Nealon assisted with the administration of toxoid in the Haileybury schools. February: during this month, Miss Nealon spent most of her time in remedial work in rural schools of the district. March: as an eye clinic had been held late in the year, Miss Nealon began in March a survey of the school children in order that those most in need would be helped if necessary in securing glasses. April: the nurse assisted the Medical Officer of Health, Dr. Schmidt, in giving toxoid in the Latchford School. In May toxoid was given in Silver Centre and North Cobalt, nurse in attendance. June and July: assisted at dental clinic in the Cobalt schools. August and September: dental clinics in First Brook. Miss Nealon left the District in September.

WATER SUPPLIES AND SEWERAGE

All municipal water supplies within this district are considered safe. With the following exceptions all of them are chlorinated; four municipalities have ground water supply, two of which are chlorinated. Three have filtered water supply, two of which are chlorinated as well.

There has been considerable typhoid this year in Copper Cliff, Sudbury and Timmins, but in no case was the water supply brought under suspicion. Indeed after careful examination the outside privy and flies were held responsible for the outbreaks. In both Copper Cliff and Sudbury extension of sewer systems have been undertaken in order to prevent a recurrence. The termination of the outbreak as soon as cold weather set in confirms the opinion previously expressed as to their source. In spite of the extension of sewers in Sudbury there are still crowded sections where privies are the only convenience. A repetition of the experience may occur from there.

The beach on Lake Nipissing in the vicinity of North Bay is one of the finest for bathing in Ontario, unfortunately North Bay discharges its sewage into the Lake after septic tank treatment. During the past year there were two or three cases of paratyphoid among the summer population living along the shore. As the city has a fairly rapid steady growth, this pollution is bound to become much more serious in the near future. The Medical Officer of Health Dr. A. E. Ranney, supported by the Department, has been exercising pressure upon the municipal council for the past two or three years in order to have them provide such adequate sewage treatment as will make bathing on this shore safe. The gradual widening of the danger zone for bathing by the Medical Officer of Health is beginning to be alarming enough to arouse many citizens to the local needs and cause them to institute inquiries into the reason for the action. The heavy pollution from Chippewa Creek which carries the overflow from a number of private cess-pools as well as the effluent from two municipal septic tanks has caused the Medical Officer of Health to include in his recommendations that all sewage be pumped into the main system where it can be

carried to one point for treatment, the necessity for this may be better understood when it is explained that sewerage in North Bay has gradually developed into a number of small systems.

LABORATORY

Although there was a slight falling off in the total number of specimens examined in the North Bay laboratory in nineteen hundred and thirty as compared to nineteen hundred and twenty-nine, yet the fact that many new sources contributed specimens indicates a healthy growth in the usefulness of the laboratory. The number of diphtheria swabs received shows a marked reduction owing, no doubt, to the energetic pushing of toxoid.

Efforts have been made to make the laboratory reports for tuberculosis, typhoid and diphtheria of greater usefulness to the local Medical Officer of Health. Municipal weekly returns for communicable diseases are checked in this office against the laboratory reports and where these do not agree the local Medical Officer is notified.

Owing to the lack of other laboratory facilities in this area the District Officer recommends that the Director for this branch be given permission to make antogenous vaccines and provide a pathological service. It appears to this office that this would considerably increase the usefulness of the laboratory.

SUMMER TOURIST CAMPS

Only seven tourist camps in District No. 6 were granted approval of the Department. These were the New Liskeard Municipal camp, four camps of the Forestry Branch between Cobalt and North Bay, North Bay Municipal tourist camp and Sundridge. Sudbury was granted approval last year but the condition of the privies and kitchens this season were such that an approval could not be granted.

New tourist camps seemed to open on every road, many of these I discovered quite by accident, no doubt there are others of which I have heard nothing. The legal difficulties in the way of controlling these camps have caused this office to spend much less time in their supervision during nineteen hundred and thirty.

MILK SUPPLIES

North Bay.—This city receives its milk supply from forty-nine producers; it is pasteurized and delivered within the city by four distributors. The Medical Officer of Health, Dr. A. E. Ranney, supported by a sympathetic local board of health greatly improved the milk supply during the past two years by the compulsory pasteurization of all milk offered for sale within the city. The chief difficulty now, seems to be that a number of producers expect pasteurization to satisfactorily render safe a liberal amount of dirt introduced during production. Two or three producers have recently had their license peremptorily cut off by the local board of health because of high bacterial counts obtained from milk samples, repeated more than once within the year. Several others have received notice that another high count within six months will result in the cutting off of their permit. This office strongly commends the North Bay local board of health in its effort to prevent dirty milk being sold in the city.

Out of three hundred samples of raw milk taken within the year fifty-nine had bacterial counts over 100,000, of these five bad samples were obtained from each of two producers; four bad samples from each of four producers and three bad samples from each of five producers. It is against these that the local

board of health is directing its attention. Thirteen samples of pasteurized milk were taken within the year none of these gave bacterial counts over 100,000.

On inspection of the distributors it was found that eleven of Johnston's producers gave a total of thirty-three bad samples while ten of Davies Bros.' producers gave nineteen bad samples; the producers for these two distributors gave fifty-two of the fifty-nine bad samples obtained within the year. Most of the unsatisfactory samples came from producers in one particular section, and these in spite of the careful coaching on the part of both distributors regarding methods and equipment. Cow barns have been properly built and equipped. The importance of immediately cooling the milk has been emphasized and each producer has supplied himself with a cooler.

I believe a solution will be found if the methods are carefully scrutinized by the city Dairy Inspector. The milk pails at the cow barns should be tested for sterility and the cans coming from the distributor in the city supposedly sterile should also be checked.

Sudbury.—Sudbury has one hundred per cent. of its milk supply pasteurized. That city owes a debt of gratitude to the Medical Officer of Health, Dr. W. J. Cook, and the local board of health, for the security which this addition to the preventive armament of the city has accomplished. The fact that fifteen samples of pasteurized milk out of eighty-eight taken within the year gave counts over 100,000 has been strongly condemned by the local board of health, it suggests that either the raw product is not what it ought to be, or the pasteurizing equipment is inefficiently operated. It is proposed to sample the milk from each producer before pasteurizing, in order to discover whether the responsibility lay with the producer or the pasteurizing technique.

Timmins.—For the most part the milk supply of Timmins is not pasteurized; a small quantity of pasteurized milk is shipped in from Eplett's dairy in New Liskeard. It is to be regretted that the history of this company's milk year after year shows little or no improvement and continues to be classed among the dirtiest in the north country; Timmins has twenty local producers. The sanitary inspector for Timmins, Mr. I. E. Dunn shipped ninety samples to the laboratory during nineteen hundred and thirty, of these eleven showed bacterial counts over 100,000, out of the eleven bad samples two were taken from the pasteurized supply. The local board of health are carefully studying these reports. This office strongly supports their suggestion that pasteurization is the only measure that will give them the protection they are seeking.

Kirkland Lake.—The milk supply of this town is not pasteurized. During the year previous to the epidemic of septic sore throat in December fifty-nine samples of raw milk was sent to the laboratory for analysis, of these fifteen gave bacterial counts over 100,000, five of the fifteen were from farmers who wished to ship milk to Kirkland Lake but in none of these were licenses issued.

In December the raw milk supply from one producer caused an extensive outbreak of septic sore throat (reported elsewhere). Between one hundred and fifty and two hundred milk samples were taken by Departmental officials during the epidemic, as a result of the reports on these samples not only was the source traced definitely to one dairy but the individual infected cows were indicated. As a result of the epidemic and in order to prevent a recurrence, a by-law was passed requiring pasteurization of the total municipal milk supply. Three pasteurizing plants were being installed when the year closed. All cows producing milk for consumption within the town must be tuberculin tested.

New Liskeard.—Only a small part of their milk supply is pasteurized. This part is supplied by Eplett's dairy. All cows producing milk for consumption in New Liskeard must be tuberculin tested. Out of eighty-seven samples taken within the year eight had bacterial counts over 100,000. Of these eight bad tests, two came from Eplett's pasteurized supply. Indeed all four municipalities—New Liskeard, Timmins, South Porcupine and Kirkland Lake—obtaining some milk supply from this dairy have received unfavourable counts from the laboratory. On the whole the milk supply of New Liskeard has achieved commendable improvement during the past year.

Cobalt.—Cobalt has entirely a raw milk supply; out of fifty-five samples taken throughout the year, thirteen had bacterial counts over 100,000. One producer gave four of the thirteen bad tests and I believe the local board of health should require that producer to appear before that body and give reasons why he should not be cut off. A prompt sustained improvement in the bacterial count of his supply could be considered a sufficient reason for the continuance of his license.

DISTRICT No. 7

G. L. SPARKS, D.O.H.

I beg to submit for your information the following outline of my work during 1930 in District No. 7, which includes the Districts of Thunder Bay, Rainy River, Kenora and Patricia.

MOTOR TOURIST CAMPS AND REFRESHMENT BOOTHS

The annual summer survey of motor tourist camps and highway refreshment booths was commenced on July 7th. Mr. G. L. MacDonald, Assistant Engineer, was detailed to accompany me on this work. Seven motor tourist camps and fifty-six refreshment booths were visited in the districts of Thunder Bay and Rainy River, three approvals being issued to motor tourist camps and eight approvals to refreshment booths.

Mr. MacDonald and I made reinspections of ten wells from which polluted samples were obtained during the course of the above survey. Following the reinspections I obtained from Mr. MacDonald his written recommendations regarding each well. These recommendations were passed on to the local medical officers of health of the respective municipalities, and in the case of wells in territory without municipal organization, to the district Sanitary Inspector.

The supervision of wells and other private water supplies would appear to offer an unlimited field of activity for District Engineers.

MUNICIPAL MILK SUPPLIES

The milk supplies of the following municipalities were inspected:

(1) *Fort William.*—Three raw milk dairies and four pasteurizing plants (inspected with Dr. A. E. Berry, Director, Sanitary Engineering Division).

(2) *Port Arthur.*—One pasteurizing plant (inspected with Dr. A. E. Berry).

(3) *Fort Frances.*—Sixteen raw milk dairies (inspected with Mr. G. L. MacDonald, Assistant Engineer). Thirteen raw milk dairies (re-inspected with Mr. G. M. Galimbert, Assistant Engineer).

- (4) *Schreiber*.—Three raw milk dairies.
- (5) *Sioux Lookout*.—Three raw milk dairies.
- (6) *Rainy River Town*.—Five raw milk dairies.
- (7) *Kenora*.—Seven raw milk dairies and one pasteurizing plant.
- (8) *Keewatin*.—Two raw milk dairies.

Total.—52 raw milk dairies (including 13 dairies re-inspected in Fort Frances); 6 pasteurizing plants.

Two creameries were also inspected—one at Lavallee and one at Rainy River Town (inspected with Mr. G. L. MacDonald, Assistant Engineer).

On June 23rd and 24th I accompanied Dr. A. E. Berry and local health officials on the above inspections listed for Fort William and Port Arthur. On the evening of June 24th, Dr. Berry addressed the Fort William City Council on the subject of the pasteurization of milk.

Approximately 98% of the Fort William milk supply, 90%–95% of the Port Arthur milk supply and 33 $\frac{1}{3}$ % of the Kenora milk supply are pasteurized. All other milk supplies in the district are from raw milk dairies.

Between October 28th and 30th reinspections of the pasteurizing plants in Fort William and Port Arthur were made by Mr. G. M. Galimbert (Assistant Engineer). Copies of Mr. Galimbert's reports containing his recommendations with regard to the individual plants, have been forwarded to the medical officers of health of Fort William and Port Arthur. Following my suggestion the medical officers of health of these two cities instructed their local sanitary inspectors to collect samples of milk (for bacterial count) from the individual producers as their shipments arrived at the pasteurizing plants. Where the counts have been excessively high the local officials have brought the matter to the attention of the producers, some of whom were temporarily forbidden to ship milk to the pasteurizing plants until their milk showed lower counts as a result of more cleanliness and care during its production and handling.

The proper safeguarding of municipal milk supplies is of primary importance in the public health field. Under existing legislation the municipalities are responsible for the supervision and control of their milk supplies, but the control of pasteurization plants demands such a degree of technical engineering knowledge that all pasteurizing plants should be legally under the control of the Sanitary Engineering Division, and their supervision should be placed on the same basis as is the supervision of municipal water chlorination plants.

At meetings of the local boards of health of Fort Frances and Kenora, I pointed out the fact that safe milk should be clean but that clean milk is not necessarily safe unless properly pasteurized under effective supervision and control.

During the month of February, I was advised by the Director of the Fort William branch laboratory, that two agglutination tests positive (1.160) for brucella abortus had been obtained on specimens of blood received at the laboratory from a patient in the McKellar General Hospital in Fort William. I immediately got in touch with the M.O.H. of the township from which the patient had come and learned that she had been living on a dairy farm from which milk was being sold to a pasteurizing plant in Fort William. The history, which I obtained was that the patient was not employed about the dairy but had admitted drinking raw milk while living on this farm. At the request of the Fort William M.O.H. a veterinary surgeon made a physical examination of forty-one head of milch cows, about thirty of which were milking at the time. The veterinary surgeon on February 25th reported that from clinical examination

of these cattle and from the history of the herd he could find no evidence of contagious abortion but added that he would suggest more detailed investigation by laboratory methods. He was therefore instructed by the Fort William M.O.H. to collect milk samples from the individual cows and during March and April thirty milk samples were received at the laboratory but all failed to show the presence of brucella abortus. During the months of May and June the veterinary surgeon also collected blood specimens from thirty cows in this herd and ten specimens gave positive agglutinations for brucella abortus (in dilutions 1.320 to 1.640). On September 3rd the veterinary surgeon reported by letter to the Fort William Board of Health that all the reactors except one had been disposed of for slaughter; that the remaining reactor was a heifer which was isolated on the premises.

It is interesting to note that the agglutinations were positive in one-third of the blood specimens collected from the cows on this dairy farm, also that approximately three months elapsed following my receipt of the first laboratory report in February before the last of the blood specimens from the cows were received and tested at the laboratory. My thanks are due to Dr. J. H. White, M.O.H., Fort William, for his persistence and co-operation in having this matter finally brought to a satisfactory conclusion.

WATER SUPPLIES

On January 10th, I accompanied Mr. G. M. Galimbert, assistant engineer, on a special visit of inspection of the water supply system at the Provincial Industrial Farm in the municipality of Neebing. Dr. A. E. Berry, Director of the Sanitary Engineering Division, very kindly supplied me with a copy of Mr. Galimbert's report and advised me that a similar copy was being sent to the Department of the Provincial Secretary.

On December 19th, I accompanied the local M.O.H. on a routine visit to the above institution. Samples, which were collected on this date from the water supply system, were reported on December 22nd and 26th by the Fort William branch laboratory as free from colon bacilli in 30 c.c. of each sample.

I have continued throughout the year the practice of notifying the owners of great lakes steamships whenever laboratory reports have been received indicating pollution of water samples collected from their respective steamers providing the laboratory report classified the water supply, from which the sample was taken, as of doubtful or unsatisfactory quality. Railway companies were also notified regarding laboratory reports indicating pollution of water samples collected from passenger trains in interprovincial traffic.

At intervals throughout the year the municipal water chlorination plants in District No. 7 have been inspected by engineers from the Sanitary Engineering Division.

Measures taken following my receipt of laboratory reports indicating pollution of wells are described in the paragraph on motor camps and refreshment booths.

SEWAGE DISPOSAL, NIGHT SOIL, MANURE AND GARBAGE DISPOSAL

Conditions as to sewage, night soil, manure and garbage disposal in municipalities were practically the same as in previous years.

The following special visits of inspection were made:

(1) Port Arthur municipal nuisance ground (with Dr. A. E. Berry Director, Sanitary Engineering Division, and with Dr. C. N. Laurie, M.O.H., Port Arthur).

(2) Garbage fill in Town of Kenora (with Dr. A. D. Ferguson, M.O.H., Kenora).

ROUTINE VISITS TO MUNICIPALITIES

Routine visits were made to the following municipalities: Port Arthur, Fort William, Nipigon, Schreiber, Sioux Lookout, Fort Frances, Rainy River Town, Ignace, Dryden, Kenora and Keewatin.

PUBLIC INSTITUTIONS

Twenty-one public institutions were inspected as follows:

<i>Community</i>	<i>Institution</i>	<i>No.</i>
(1) Port Arthur.....	Hospitals.....	3
	Children's Shelter.....	1
	Gaol.....	1
(2) Fort William.....	Hospitals.....	2
	Children's Shelter.....	1
	Boarding School (Orphanage)....	1
(3) Neebing Township.....	Industrial Farm.....	1
(4) Fort Frances.....	Gaol.....	1
(5) Rainy River Town.....	Hospital.....	1
	Provincial Lock-up.....	1
(6) Kenora.....	Hospitals.....	2
	Gaols (New).....	1
	Gaols (Old).....	1
(7) Redditt.....	Red Cross Outpost.....	1
(8) Dryden.....	Hospital.....	1
(9) Sioux Lookout.....	Hospital.....	1
	Provincial Lock-up.....	1
Total.....		21

A certificate of inspection was left at each of the above institutions (except the new district gaol at Kenora and the Provincial lock-ups at Sioux Lookout and Rainy River Town) and a duplicate of each certificate was forwarded to the Deputy Minister of Health.

On the date of my visit (November 27th) to the new district gaol in Kenora the prisoners had not been transferred from the old gaol. A special report, dated October 1st, 1930, re "Provincial lock-ups in Rainy River Town and Sioux Lookout" was sent to the Deputy Minister of Health.

At my request inspections of the Provincial lock-ups at Mine Centre and Atikokan were made by Mr. J. Sime, Provincial Sanitary Inspector, and copies of Mr. Sime's reports to the Chief Sanitary Inspector were forwarded to the Deputy Minister of Health.

COMMUNICABLE DISEASES IN MUNICIPALITIES

The following table has been compiled from the weekly returns of communicable diseases sent to this office as having been received by the Department from the Secretaries of local boards of health in District No. 7 during the year 1930. The figures are not to be taken as representing the exact number of cases

and deaths from communicable diseases, but they may have some value as an index of the communicable diseases reported from municipalities in the district:

	Cases	Deaths
(1) Cerebro Spinal Meningitis.....	1	3
(2) Chickenpox.....	197	0
(3) Diphtheria.....	11	2
(4) Dysentery.....	1	1
(5) Encephalitis Lethargica.....	4	0
(6) Erysipelas.....	2	0
(7) Gonorrhoea.....	3	0
(8) Influenza (epidemic).....	34	0
(9) German Measles.....	150	1
(10) Measles.....	919	0
(11) Mumps.....	44	0
(12) Pneumonia: Acute Lobar.....	16	16
Bronchial.....	6	
(13) Poliomyelitis (Acute Anterior).....	3	0
(14) Scarlet Fever.....	36	2
(15) Septicaemia (General).....	1	1
(16) Septic Sore Throat.....	16	0
(17) Smallpox.....	26	0
(18) Syphilis.....	3	0
(19) Tuberculosis.....	2	13
(20) Typhoid Fever.....	5	1
(21) Whooping Cough.....	31	0

During the winter smallpox occurred in two families in Port Arthur, two cases with no deaths being reported to the Department by the Secretary of the local board of health. Four cases of smallpox with no deaths reported from Fort William did not contract their infection in the city. Twenty cases of smallpox with no deaths were reported from the municipality of Neebing.

As a result of the outbreak of the cases in Port Arthur the pupils attending the Public and Separate schools were required to furnish vaccination certificates and a general vaccination of school children followed this order. Dr. C. N. Laurie, M.O.H., advised me that 3,693 Public and Separate school pupils were vaccinated in his office of which 3,412 were successful first vaccinations and 281 were re-vaccinations, also that of the above totals 35 (thirty-five) were reported as having required medical attention for sore arms. Dr. Laurie's figures do not include the technical nor collegiate pupils, who were also vaccinated. In addition more than 1,000 (one thousand) vaccinations were performed by practising physicians in Port Arthur, most of the vaccinations being among children of school age.

While no vaccination order was put into effect in Fort William, Dr. J. H. White, M.O.H., advised me that 1,921 persons were vaccinated in his office of whom approximately 1,500 (fifteen hundred) were school children and of the total number approximately 800 (eight hundred) were primary vaccinations. Dr. White reported that follow-up investigations by the school nurses discovered no untoward effects.

District No. 7 was very fortunate in escaping any serious outbreak of acute anterior poliomyelitis, three cases only with no deaths being reported during the year by local boards of health.

Pamphlets designed for the public on anterior poliomyelitis were forwarded to all medical officers of health in the district, who were advised that supplies for distribution might be obtained from the Division of Preventable Diseases.

During the month of July approximately 800 c.c. of blood were collected in the branch laboratory at Fort William from recovered poliomyelitis cases (residents of Port Arthur and Fort William). The blood was sent to the Department at Toronto for use in the preparation of convalescent serum. During the

month of October approximately 210 c.c. of blood were collected and sent to the Department, the total for the year 1930 amounting to about 1,010 c.c. This amount compares favourably with the 1,200 c.c. collected and forwarded during November of 1929.

The donors were paid by the Department at the rate of one dollar per 10 c.c. of blood with a maximum of twenty dollars.

Five sporadic cases of typhoid fever and one death from this disease were reported by local boards of health in the districts of Rainy River and Thunder Bay.

Water-borne typhoid fever has been reduced to a minimum by the provision of safe public water supplies, but it would be interesting to know what percentage of cases is due to infected private water supplies. As stated earlier in this report the supervision of wells and other private water supplies would appear to offer an unlimited field of activity for District Engineers. The gross pollution of wells found in a number of instances during the annual survey of highway refreshment booths would lead one to believe that freedom from typhoid fever may occasionally be due to chance instead of sanitation.

Diphtheria still persists as a cause of death, eleven cases and two deaths being reported during the year by local boards of health. The reports of scarlet fever indicated a lower incidence during 1930 (36 cases with 2 deaths) as compared with 1929 (103 cases with 1 death) but a higher mortality.

Measles were apparently much more prevalent (919 cases with no deaths) than during the previous year when 82 cases with no deaths were reported by local boards of health.

No deaths from whooping cough were reported by local boards of health, reports of 31 cases being received.

Apparently no serious attempt is being made by practising physicians to report cases of tuberculosis to the local health authorities. Reports of one case and thirteen deaths were received from Port Arthur and one case and no deaths from the municipality of Van Horne. This is manifestly not even an approximate index of the cases and deaths from tuberculosis in District No. 7. The situation as regards the facilities for the treatment of tuberculosis patients in District No. 7 is most discouraging. There are approximately 90,000 (ninety thousand) people resident in the districts of Rainy River, Kenora and Thunder Bay. The nearest Sanatoria in the Province of Ontario are at Gravenhurst and Weston eight hundred to a thousand miles distant.

Dr. J. H. White, M.O.H., Fort William, has given me a copy of a letter dated September 29th, 1930, advising him that on the waiting list at the Toronto Hospital for Consumptives there were the names of thirty men and on the waiting list for the Muskoka Hospital at Gravenhurst there were the names of fifteen men.

Apart from the beds available in the general hospitals there are no beds available in the district of Kenora, Rainy River and Thunder Bay for cases of pulmonary tuberculosis except the nine or more beds provided at the cottage annex, which the Fort William local board of health have provided at the Fort William Municipal Isolation Hospital.

COMMUNICABLE DISEASES IN TERRITORY WITHOUT MUNICIPAL ORGANIZATION

The following visits were made during the year in connection with the control of communicable diseases in territory without municipal organization:

- (1) *March 7th.*—Public Schools at Ellis, Finmark and Rowan. Sixty-nine pupils vaccinated against smallpox.
- (2) *March 14th–15th.*—Whooping Cough at Graham, district of Kenora.
- (3) *April 10th.*—Measles, Ware township, district of Thunder Bay.
- (4) *June 6th.*—Measles, Gorham and Ware townships, district of Thunder Bay.
- (5) *June 12th.*—Measles, Dorion and Stirling townships, district of Thunder Bay.
- (6) *June 19th–21st.*—Suspect Typhoid Fever, Provincial Air Service Station, Orient Bay, district of Thunder Bay.
- (7) *June 17th and August 8th.*—Tuberculosis at Sunshine, Dawson Road township, district of Thunder Bay.
- (8) *November 7th.*—Diphtheria, Pratt township, district of Rainy River.
- (9) *November 26th.*—Acute Anterior Poliomyelitis at Redditt, district of Kenora.

On November 4th I received a report that an outbreak of sore throat had occurred during the preceding six weeks in the unorganized township of Pratt, district of Rainy River. Two deaths (reported due to septic sore throat) had occurred in one family. I accompanied Dr. J. K. McBane (M.O.H., Rainy River Town) on a visit to this township on November 7th and visited all families in the school section who had children on the school attendance roll (S.S. No. 1, Pratt township). Swabs, which I took from quarantined contacts were reported negative for diphtheria bacilli. The householders were advised to call a physician immediately upon the occurrence of any sore throat, and two cases of diphtheria were reported from Pratt township during the next few days.

Owing to physical conditions in this area I recommended to the Department that Dr. McBane be given emergency jurisdiction as local M.O.H. in eight specified townships without municipal organization, Pratt Township being included in the list.

An Order-in-Council was passed giving Dr. McBane emergency jurisdiction as recommended but owing to later advice that three of the above townships had become organized a further Order-in-Council was passed, which deleted these three from the original list.

On November 26th I accompanied Dr. D. J. Mason (Kenora) to Redditt to see a case of acute anterior poliomyelitis, the patient being a child age four years. On December 27th Dr. Mason reported a second case and one suspect case in another family at Redditt.

Owing to the unsatisfactory train service between Fort William and Redditt the Department approved my recommendation that a sub-depot for poliomyelitis convalescent serum be established at Sioux Lookout, the serum to be held and distributed by Dr. G. L. Bell, local M.O.H. By this arrangement the serum will be more readily available to communities along the Canadian National (National Transcontinental) railway from the Manitoba boundary to east of Nakina.

During the year three indigent patients suffering from pulmonary tuberculosis were removed to sanatoria at the expense of the Department and one patient was removed from her home to the Port Arthur General Hospital. This patient refused to go to a sanatorium and she was finally given accommodation in the T.B. Cottage Annex at Fort William Municipal Isolation Hospital where she is at the present time.

WEEKLY REPORTS AND MOTOR CAR LOGS

Routine weekly reports containing summaries of my work have been forwarded to the Deputy Minister of Health. To these reports have been attached schedules indicating the motor car mileage and expenses in connection with same.

OTHER DEPARTMENTAL ACTIVITIES

Dr. James Bell, Director of the Fort William branch laboratory, assumed his duties during the month of January. Since its establishment in 1919 the laboratory has become an essential factor in the public health work of the district. This year has witnessed a notable increase in the number of milk samples received for bacterial count, as will be seen by referring to Dr. Bell's annual report.

During the winter Mr. A. L. Smith resigned his position as Provincial Sanitary Inspector, and on April 1st, Mr. John Sime, recently appointed Provincial Sanitary Inspector, took over Mr. Smith's district.

Mr. A. O'Hara, Provincial Sanitary Inspector at Sioux Lookout, and Mr. Sime at Fort William have both co-operated with me at all times in the carrying on of public health activities in District No. 7. An important addition to their duties has been the sanitary supervision of schools in the territory without municipal organization.

As in previous years the work of the efficient office stenographer has made it possible for me to handle the office routine and correspondence with a reasonable degree of despatch and regularity.

RECOMMENDATIONS

I would repeat the recommendations contained in my annual report for 1929.

DISTRICT No. 8

H. W. JOHNSTON, D.O.H.

I have the honour to submit the following report for District No. 8 for the period from June 1st to December 31st, 1930. During the first five months of the year I was on leave from the district.

During the year attention has again been given to the problem of securing more accurate statistics regarding the reportable diseases. An attempt has been made to check the weekly communicable disease reports against the laboratory findings and the indirect information coming from various sources. It appears that the information received regarding diphtheria, anterior poliomyelitis, smallpox and typhoid are reasonably complete. We have not, however, been able to secure reports which are of much value either in indicating the prevalence or assisting in the control of the other reportable diseases.

Cases reported during 1930 show decided decrease in number, except for measles and smallpox and neither of these two have developed to serious proportions. Typhoid fever has been present only in rural sections or smaller towns where municipal water supplies are not available. Records show that not more than four cases and not more than two families have developed typhoid in any community.

During the year a total of twenty-six new cases of tuberculosis were reported from the district and of these, six, who were from unorganized areas, were admitted to a sanitarium at the expense of the Department.

During the summer two cases of undulant fever were reported from St. Joseph township. Investigation indicated cheese as a possible source of infection, but this could not be definitely established.

Valuable assistance has been received from Provincial police officers and the magistrate in an endeavour to control venereal disease. An unusual number of social problems have developed in smaller communities. Favourable results have been obtained through the associated activities of the Provincial police, Mothers' Allowance, Children's Aid and the Health Department representatives of the district.

The service rendered by the Department chest clinic has been appreciated by the public and the physicians in the district. Unfortunately the demand for the service is much greater than the present establishment can care for. At the last visit of the clinic to Sault Ste. Marie time was not available to examine all those whom physicians wished to refer for diagnosis or for advice regarding prophylactic measures. A number of applications from rural sections also had to be curtailed. The operation of these Department clinics would seem to be our most valuable method of tuberculosis education and control.

As a measure of control the district of Manitoulin has been declared a restricted area against tuberculosis in cattle. All herds have been tuberculin tested and reactors destroyed. Decided benefit should come also from the routine supervision of farm premises, which sanitary supervision is part of the system of control.

Public interest in diphtheria immunization has been more apparent than in former years and frequent requests come from school boards for general toxoid administration. Opportunity is generally afforded parents to bring pre-school children when treatment is being administered in the schools. Considerable numbers avail themselves of the opportunity. This service has been made available in this district through the Medical Officers of Health, Dr. Dollar of Hornepayne; Dr. Sheahan of Chapleau; Dr. T. R. Heath for a group of townships east of Sault Ste. Marie. Dr. McCaig has immunized a large proportion of the public school pupils in Sault Ste. Marie, and it has been possible also to reach a group of unorganized townships in the Iron Bridge and Thessalon districts.

Routine sanitary inspections have been made of the majority of public buildings in the District, including district jails, court houses, hospitals, children's shelters and houses of refuge. These have been found to be uniformly well maintained, except where the requirements have outgrown the available accommodation. In places of public detention it is noted that complete health examinations are not generally required. It would seem advisable that all prisoners and other persons detained at public expense should receive a careful physical examination as soon as admitted, and that they should be certified free from communicable, including venereal disease.

During 1930 a system of mental clinics has been inaugurated through the hospital sections. A preliminary clinic held in Sault Ste. Marie has opened a service which should be of decided assistance to physicians and those interested in welfare for consultation and supervision of early mental disease.

Public health exhibits have been arranged and child welfare clinics conducted in connection with the agricultural society fairs held throughout the District. A valuable service was also rendered by Dr. McKenzie Smith, who assisted the

Public Health nurse at all the rural school fairs in Algoma. Public school and pre-school children were examined and health problems discussed with the children and their parents. Dr. Smith also made a very complete demonstration of school medical service at Chapleau, Hornepayne, Thessalon, Iron Bridge, and the suburban districts of Sault Ste. Marie.

Through the Division of Dental Hygiene an excellent service has been rendered the rural sections of Northern Ontario and in less than two weeks during the summer, Dr. Ross conducted dental clinics at nine centres over a distance of 250 miles. This work required 215 dental examinations and 354 treatments were given 158 pupils. We hope that this service also may be extended in order that it may be made available for more of the isolated communities where dental treatment is not available.

During July Mr. Gallibert of the Sanitary Engineering Division co-operated in routine inspection of the motor camps, tourists' resorts and organized group camps through the district. The results of the inspection of 1930 would indicate that little more improvement can be expected until legislation is provided for the enforcement of standard regulations for motor tourist camps and highway refreshment booths.

The Ontario Division of the Red Cross has again made a valuable contribution to health services in the district with the opening of a modern new outpost hospital on St. Joseph Island to replace a former building destroyed by fire. The Red Cross has also inaugurated a nursing service for Cockburn Island. A nurse has been supplied to this community for the winter months. During a period each fall and spring the Island is practically inaccessible to medical services, being twenty-five miles from the mainland and the nearest physician.

Subjects of public health interest have been discussed at district and branch meetings of the Women's Institute. Assistance has been given to a recently organized committee for the promotion of health and child welfare in the town of Blind River. The reorganized Health League of Sault Ste. Marie has been conducting a public health campaign for pasteurization of all milk supplies of the city. A course of lectures on public health has been arranged for nurses in training in the Sault Ste. Marie General Hospital. This opens a new field for health promotion which may be improved with repetition.

SIXTY-THIRD ANNUAL REPORT

OF THE

INSPECTOR OF PRISONS
AND PUBLIC CHARITIES

UPON THE

Hospitals for the Insane
Feeble-Minded and Epileptic

OF THE

PROVINCE OF ONTARIO

Being for the Year which Ended 31st October

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 15, 1931



ONTARIO

TORONTO

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1931

INTRODUCTION

The 1930 Report of the Ontario Hospital system, bringing to a close as it does another decade in the history of these institutions, might very well direct attention to a comparison of the numbers now under treatment for mental illness with those of the two previous decades.

At the close of the year 1910, in ten mental hospitals there were under treatment 6,563 patients with a total treated for that year of 7,701. In the year 1920, with one additional hospital, there were in residence at the end of the year 7,689 patients but the number treated during the year had increased to 10,577 while, at the close of 1930, there were 10,390 patients in the twelve Ontario Hospitals which had treated, during the year, 12,501 patients. This number treated for mental illness within the Ontario Mental Hospitals during the past year undoubtedly represents a much larger percentage of our population than received treatment during the same period for any other type of disease. Some 1,859 patients were admitted in 1930 who had not previously been in a mental hospital. At this rate, there will be admitted to our Mental Hospitals in the next ten years nearly 20,000 mental patients. Where are these prospective patients to-day? What is the state of their mental health and what can the Ontario Hospital service do to prevent the mental illness which will eventually bring them to the institutions?

In order to answer these questions, the Department has, during the past year, asked each Ontario Hospital to assume some responsibility in the public health field in meeting the mental health needs of the district it serves. Each Ontario Hospital will thus eventually have a mental hygiene clinic under the direction of a competent psychiatrist assisted by a psychologist and one or more social workers whose duty it will be to assist medical officers of health, medical and social agencies in looking to the mental health of the community and assisting in the treatment of the earlier and more hopeful cases.

The greater number of patients admitted to hospitals during the past year were between the ages of twenty-nine and thirty-four and the schizophrenic types formed the largest group. Schizophrenia is now considered to be psychogenic rather than organic in origin and, for this reason, any attempt at lessening the numbers of individuals who fall a prey to this malady must needs take into consideration childhood development as affecting the child's mental habits, his attitudes towards his fellows, his home situation, his school, his play life, in fact everything that goes to make up his personality.

B. T. MCGHIE, M.D.,
Director of Hospital Services.

H. M. ROBBINS,
Deputy Minister of Hospitals.

ONTARIO HOSPITAL, BROCKVILLE

December 1st, 1930.

H. M. ROBBINS,
Deputy Provincial Secretary,
TORONTO, ONTARIO.

DEAR SIR:

In compliance with the Regulations, I beg herewith to present the Thirty-fifth Annual Report of this Hospital, together with the statistical data for the year ending October 31st, 1930.

Re Mental Health Clinic: The commencement of this important advance in the examination of the mentally deficient, etc., has robbed us of one of the best of our medical assistants, and we have every faith that if his health remains good he will make a wonderful success therein.

The profession throughout the district is taking a great interest in this work and grouping together problem cases and urging for visits from the clinical staff which, as time affords, are being made. We have seventy of such cases awaiting attention now.

General Health: We have had a considerable amount of illness among the patients and staff, owing to some extent to our crowded condition of housing, and trust that the erection of a Nurses' Home will relieve the condition.

The steel frames and sash originally placed in the Main Building are gradually being replaced with modern wood structures and wire guards and the ventilation of the wards is consequently much improved and the general health of the patients will be enhanced.

Re Requirements: We were pleased to note that the Committee of Mr. Ross, of Ottawa, were fully in accord with us in claiming that a modern Nurses' Home is absolutely essential here and we sincerely trust that a single room for each nurse will be provided at as early a date as possible. We have had during the past eighteen months several evidences of the need of this Home.

Re Local Improvements: The putting in of structural steel in the walls of the kitchen to support the steel beams for the ceiling and floor of the diningrooms of Wards "3" and "C" has added much to the safety therein as the wooden floor slung from the overhead timbers had rotted and allowed a sinking of one and one-half inches along the centre of the rooms. The replacement of the wooden surface by a neat terazzo slab and curb has added much to the sanitary condition.

Replacement of the Main Building kitchen windows with modern steel frames extending in length well up to the ceiling, has made a wonderful improvement and on completion of the extraction fan system, work therein can be accomplished much more efficiently and with great facility and comfort, and odours of cooking throughout the offices and wards eliminated.

Thanking you for your kind consideration and generous response to our many requests, I am,

Your obedient servant,

W. M. ENGLISH,
Superintendent.

ONTARIO HOSPITAL, COBOURG

November 28th, 1930.

MR. H. M. ROBBINS,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONT.

SIR:

I have the honour to transmit herewith the Annual Report of the Ontario Hospital, Cobourg, for the year ending 31st of October, 1930.

This year while not remarkable for very outstanding achievement, has been one of general advancement in several directions. The laundry which was becoming somewhat inadequate, has undergone a complete transformation. Steel supports placed under the kitchen have given security to the increased weight of that branch. A decided renovation in painting and general repair work has greatly improved the interior of the Main Building. The garden and grounds have had continued attention and are showing satisfactory progress in their development.

The Training School for Nurses has been benefited by the addition to our staff of three of our former graduates, who devote special time to the practical demonstrations. Nurses passing through these classes are well prepared to discharge the duties incumbent upon their calling.

The appointment of Dr. C. A. Cleland as second assistant has been a great help on the clinical side.

Miss E. Thomas, as dietitian, succeeded Miss D. Patterson, who resigned in July last.

Miss Mary G. McMillan has been appointed Occupational Therapist and already a new stimulation of interest has been aroused in numbers of our patients and the value of this department is quite apparent.

I have the honour to be, Sr,

Your obedient servant,

W. C. HERRIMAN,
Superintendent.

THE ONTARIO HOSPITAL, HAMILTON

November 26th, 1930.

H. M. ROBBINS, Esq.,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONT.

DEAR SIR:

I have the honour to submit to you the Fifty-fifth Annual Report for the Ontario Hospital, Hamilton, for the year ending October 31st, 1930.

I have the honour to remain,

Your obedient servant,

J. J. WILLIAMS,
Superintendent.

ONTARIO HOSPITAL, KINGSTON

November 21st, 1930.

MR. H. M. ROBBINS,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONTARIO.

SIR:

I beg to enclose you herewith annual statistical report for the year ending October 31st, 1930.

I have the honour to be,

Your obedient servant,

T. R. CUMBERLAND,
Superintendent.

ONTARIO HOSPITAL, LONDON

December 31st, 1930.

H. M. ROBBINS, Esq.,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, 5, ONTARIO.

DEAR SIR:

I enclose herewith the statistical report of the Ontario Hospital, London, for the year 1929-30.

Yours faithfully,
F. S. VROOMAN,
Superintendent.

ONTARIO HOSPITAL, MIMICO

December 23rd, 1930.

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONTARIO.

DEAR SIR:

I have the honour to forward you herewith Annual Report for year ending October 31st, 1930.

Yours truly,

H. A. MCKAY,
Superintendent.

ONTARIO HOSPITAL, ORILLIA

May 28th, 1931.

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONTARIO.

DEAR SIR:

I beg to present the Annual Report of the Ontario Hospital, Orillia, for the year ending October 31st, 1930.

The question of the examination, care and training of the mentally retarded throughout the Province became so acute during the year that it received special consideration by the Royal Commission on Public Welfare and, as a result, two methods of attack on the problem were instituted at this hospital.

To relieve the overcrowding at this hospital it was decided to construct two cottages of one hundred and fifty beds each, one for boys and one for girls, and in addition to build a Nurses' Home to house the nursing staff. The contracts for the boys' cottage and the Nurses' Home have been let and the building is progressing favourably.

Coupled with this building programme was a recommendation for a mental hygiene approach, not only to the problem of mental deficiency, but to the whole field of psychiatry in the Province of Ontario, with a result that a Mental Health Programme was approved by the Government.

The medical staff to man Mental Health Clinics was chosen by the Superintendents of the various hospitals and in May, 1930, those chosen spent two weeks at this institution, taking an intensive course of instruction in Mental Hygiene and allied subjects. All three universities in the Province were represented among the instructors, as well as the various Provincial Government Departments and Welfare Agencies interested in the development of the programme.

The research work carried on along educational lines in the institution over the past three years, as described in volumes one and two of the Orillia Hospital publications, was of material assistance in formulating policies for a Mental Health Programme, and it is recommended that the close association between the Hospital and the University of Toronto, as well as the Provincial Department of Education be continued as a hospital policy. This is especially important because of the educational problems arising in a hospital of this kind.

The policy of renovation of the older buildings, as begun under your direction some time ago, has continued throughout the year with very satisfactory results, both from the point of view of the comfort of our patients, and the appearance and sanitary condition of the institution.

May I take this opportunity to thank you for your continued interest and guidance in everything pertaining to the welfare of our patients.

I have the honour to be, Sir,

Your obedient servant,

B. T. MCGHIE, M.D.,
Superintendent.

ONTARIO HOSPITAL, PENETANGUISHENE

November 7th, 1930.

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONT.

DEAR SIR:

I have the honour to submit the Annual Report of the Ontario Hospital, Penetanguishene, for the year ending October 31st, 1930.

On November 1st, 1929, there were 187 men and 211 women making a total of 398 with one patient on probation, and on October 31st, 1930, there were 189 men and 215 women making a total of 404 in residence with two on probation.

REPAIRS AND ALTERATIONS

Besides the general repairs about the hospital, a considerable amount of work has been done in all the departments. Outside painting has been done on most of the buildings and the men's cottage and one flat of the main building has been painted inside. A new incinerator was built and the old boiler house roof was replaced by a cement roof.

Several old buildings have been demolished and other improvements have been made to the grounds.

STAFF CHANGES

Dr. W. K. Ross, Medical Superintendent at this hospital since the fall of 1923, was transferred to Toronto, to take charge of the Ontario Hospital in that city on January 1st, 1930. I was transferred from Rockwood Hospital,

Kingston, as Medical Superintendent of the Ontario Hospital, Penetanguishene, on the same date.

I want to take this opportunity of expressing my appreciation of the hearty co-operation I have received from the entire staff of this hospital, and also to thank you for your kind consideration and advice.

I have the honour to remain,

Your obedient servant,

GEORGE C. KIDD,
Superintendent.

ONTARIO HOSPITAL, TORONTO

December 1st, 1930.

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONT.

DEAR SIR:

I herewith enclose Annual Report for the year ending October 31st, 1930.

Yours truly,

W. K. ROSS,
Superintendent.

THE ONTARIO HOSPITAL, WHITBY

May 18th, 1931.

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONT.

DEAR SIR:

I beg to present herewith the Annual Report of this Hospital for the year ending October 31st, 1930.

Mental Health Clinic.

During the past summer a Mental Health Clinic was organized at this Hospital along with clinics in other centres, and is contributing very much to the better treatment of those persons needing attention for nervous and mental disorders.

Treatment of Patients in Hospital:

During the past year the general health of the hospital has been excellent. There have been no epidemics, and the treatment of the patients has gone on without any serious interruption, and there has been wholehearted co-operation between the members of the staffs concerned with the treatment of the patients.

During the past summer a series of bi-weekly motor bus picnics was inaugurated. A different group was taken each time, and about 350 patients received the benefit of these trips, the expense of which was borne by the Canteen Fund.

X-ray Department.

Dr. Webster has continued with the X-ray work. The equipment is becoming antiquated, but the work performed by Dr. Webster is of a very high order.

Library.

The library functions as a valuable department of our therapy. In addition to the central library, to which quite a number of new books were added during the year, we have established branch libraries in each ward of the hospital. Four hundred new books were purchased for this purpose, and a number were taken from the central library, so that approximately twenty-five books could be placed in the sitting room of each ward, readily available for anyone who was interested in good reading.

Alterations.

The new stores building, which has been urgently needed for a considerable time is to be built this fall. It will add very materially to the efficiency of our stores service when completed. The road to the hospital, which has been in a bad state of repair for a long time, is also to be begun immediately.

New equipment in the way of separate tables and electric hot plates has been placed in the kitchen of the Men's Pavilion, for the instruction of nurses in dietetics, and a new range was also installed in this room. The instruction in dietetics is being given by Miss Ruston, and can be given much more satisfactorily with this new equipment.

Staff Changes.

Our medical staff has been increased to seven during the year. Dr. R. C. Montgomery being relieved of all ward duties to give his full time to the Mental Health Clinic. Dr. J. S. Stewart was transferred to the Ontario Hospital, Orillia, the first of August, 1930, and Dr. F. C. Hamilton was transferred to this Hospital from the Orillia staff. Dr. C. E. Hanna was appointed to the medical staff October 1st, 1930. Miss Gertrude Aikenhead was appointed to the staff as Social Service Worker on July 28th, 1930. Mr. Roberts, ground gardener, was transferred to the Ontario Reformatory, Guelph, on June 30th. Mr. Waterhouse was appointed to succeed Mr. Roberts, July 7th, 1930.

Recommendations:

I would recommend the erection of a new nurses' home to accommodate at least fifty nurses, to provide accommodation for the fifty nurses who are at present housed in one of the temporary buildings erected by the military authorities during the war.

I am recommending again that certain changes be made in the roads of the hospital as incorporated in my report last year.

I would recommend that the present arrangements for disposal of sewage be discontinued, and that the hospital sewage be turned into the sewers of the town of Whitby, and disposed of through the town's sewage disposal equipment. At the present we are caring for this sewage by local disposal plants, one on either side of the hospital on the lake front. These disfigure the grounds, cause odours, and prevent the development of the lake front property.

I would recommend that cows in our dairy herd which are known to have positive or suspicious reactions to contagious abortion should be eliminated from the herd, and replaced by clean stock.

I would also bring your attention to the urgent need of doing something to protect our property on the lake front, which is being eroded each year. I am recommending the completing of a cement breakwater, and terracing the land from the road to the breakwater.

In conclusion, I should like to express my appreciation to the many organizations who have contributed entertainments for the benefit of the patients, and to all those who have assisted in any other way. I also wish to pay tribute to the loyalty and efficiency of the staff, who give of themselves so generously to aid in the great work of restoration to health of the mentally ill. I also wish to take this opportunity of expressing my appreciation of your unfailing support and assistance in the advancement of facilities for our work.

Yours very truly,

G. H. STEVENSON,
Superintendent.

ONTARIO HOSPITAL, WOODSTOCK

November 19th, 1929.

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONTARIO.

SIR:

I beg to present the Annual Report of the Ontario Hospital, Woodstock, for the year ending October 31st, 1930.

I have the honour to be, Sir,

Your obedient servant,

C. S. TENNANT,
Superintendent.

ONTARIO HOSPITAL, GUELPH

December 1st, 1930.

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
TORONTO, ONTARIO.

DEAR SIR:

Enclosed please find Annual Report for this institution for year ending October 31st, 1930.

Yours very truly,

N. C. WALLACE,
Medical Officer.

TABLE No. 1

Contains information in regard to the date of opening of the Hospitals, the acreage, the real estate value of the property, not including the value of the buildings.

Name of Hospital	Date of Opening	Acreage		Acres in Fruit and Vegetables	Acres in Grain	Acres in Buildings and Grounds	Acres in Bush or not Cultivated	Value of Real Estate
		Owned	Rented					
Brockville.....	1894	569	.....	40	369	35	125	\$ 64,860
Cobourg.....	1920	11.58	.....	4.28	.....	7.3	.....	16,500
Hamilton.....	1876	525	.....	87	364	74	.....	50,000
Kingston.....	1854	257.53	.....	13	154.53	90	.....	68,600
London.....	1870	505	14	105	306	70	38	180,000
Minnico.....	1890	136	.....	35	51	50	.....	350,000
Orillia.....	1876	500	30	71	225	34	200	48,000
Penetang.....	1904	383	.....	20	90	13	260	6,000
Toronto.....	1846	20	.....	5	.....	15	.....	300,000
Whitby.....	1920	640	.....	125	365	150	.....	128,000
Woodstock.....	1906	324	.....	13	231	40	40	24,300
*Guelph.....	1921	.....	.....	.....	.....	.....	.....	.....
		3,871.11	44	518.28	2,155.53	578.3	663	\$1,236,260

* Property comprises the east wing of the Ontario Reformatory. The hospital owns no property.

TABLE No. 2

Furnishes a summary of the entire staffs at each Institution, together with the kind of work at which they are employed. The Superintendents of the various Hospitals are thereby enabled to make a comparative study of this phase of their operation.

Hospitals	Superintendent	Assistant Superintendent	Physician	Dentist	Steward and Assistants	Storekeeper	Other Clerks, Stenographers, etc.		Matron and Assistants	Dietitians	Graduate Nurses	Other Female Nurses		Male Attendants	Social Workers	Teachers	Occupational Workers	Kitchen and Dining Room Help		Laundry and Other Domestic Help		Farmers, Gardeners and Assistants	Engineers and Other Mechanical Staff	Other Male Employees	Other Female Employees	Totals
							M.	F.				M.	F.					M.	F.							
Brockville.....	1	1	4	1	2	1	1	5	1	1	13	52	65	1	1	1	2	4	8	2	6	10	17	6	3	206
Cobourg.....	1	1	2	1	1	1	2	2	1	6	27	3	5	1	1	1	1	1	5	3	3	2	5	5	1	63
Hamilton.....	1	1	4	1	2	1	1	4	1	12	68	79	1	1	3	3	3	3	17	2	5	11	13	17	4	251
Kingston.....	1	1	5	1	1	1	4	4	1	7	70	68	1	2	2	7	2	2	2	3	5	6	15	6	4	208
London.....	1	1	4	1	2	2	1	4	1	11	83	88	2	4	4	4	4	4	24	3	23	15	22	6	2	304
Mimico.....	1	1	3	1	2	2	3	3	1	10	43	61	1	6	1	6	1	6	1	8	5	10	11	11	1	177
Orillia.....	1	1	3	1	1	1	4	6	1	8	62	60	3	11	11	6	15	6	15	3	6	10	14	2	229	
Penetang.....	1	1	1	1	1	1	2	2	1	20	16	1	1	1	1	1	1	1	4	1	3	5	5	4	1	66
Toronto.....	1	1	3	1	3	2	2	2	1	9	57	57	1	4	4	2	8	1	8	1	8	1	10	5	2	177
Whitby.....	1	1	5	1	2	1	5	6	1	7	18	88	1	5	5	7	15	2	13	17	20	3	20	3	319	
Woodstock.....	1	1	1	1	1	1	3	3	1	13	15	1	1	1	2	3	2	2	3	2	7	5	2	2	1	59
Guelph.....	1	1	1	1	1	1	1	1	1	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	12	7	36	12	18	11	12	41	6	2	83	613	613	10	11	38	36	107	18	82	89	136	67	67	18	2078

TABLE No. 3

Is the first table dealing with patients and furnishes the Psychoses and Industrial Classifications. The interest in this table lies in the variation of employment as shown at the different Hospitals.

		PSYCHIATRIC CLASSIFICATION												INDUSTRIAL CLASSIFICATION													
		Number of Patients Insane		Number of Patients Epileptic		Number of Mental Defectives		Number of Alcoholics		Number of Drug Addicts		Number of Neuro Syphilitics		All Other Types		Industrial Work		Farm and Garden Work		General Internal Work		General External Work		No. Regular Work		Totals	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Brockville.....	460	416	2	1	1	1	1	1	1	1	1	3	1	42	78	71	120	55	25	75	209	211	467	419	886	419	886
Cobourg.....	369			52											59			99					263		421	421	421
Hamilton.....	589	596	1	4								1		62	78	74	204	144	62	9	203	369	605	600	1205	600	1205
Kingston.....	499	366												108	109	77	145	99	45		124	158	499	366	865	366	865
London.....	674	684		16	12	4		1				2		49	153	109	170	220	130		239	323	697	696	1393	696	1393
Mimico.....	363	358												10	123	38	70	113	25		220	122	363	358	721	358	721
Orillia.....	3	3	87	103	630	585								246	237	78	137	186	89		170	268	720	691	1411	691	1411
Penetang.....	184	206		5	9									28	32	48	32	20			81	163	189	215	404	215	404
Toronto.....	409	487												24	96	30	140	124	30		185	267	409	487	896	487	896
Whitby.....	753	775	1				9	1	3	3		5	3	39	121	80	165	161	230	92	257	408	771	782	1553	782	1553
Woodstock.....	15	14	84	83										3	11	12	50	66	15		19	20	99	97	196	97	196
Guelph.....	100		1		7		1									15	9				85		109		109		109
Totals.....	4049	4274	176	186	674	663	14	1	4	4		11	4	611	1097	632	1242	1287	651	176	1792	2572	4928	5132	10060	5132	10060

TABLE
Showing the Movement

	Patients in Hospital on Nov. 1st, 1929			Patients on Probation		
	Male	Female	Total	Male	Female	Total
Brockville.....	445	422	867	20	24	44
Cobourg.....		413	413		4	4
Hamilton.....	578	583	1,161	29	34	63
Kingston.....	461	345	806	4	9	13
London.....	652	693	1,345	19	32	51
Mimico.....	313	327	640	4	6	10
Orillia.....	697	691	1,388	20	17	37
Penetang.....	187	211	398		1	1
Toronto.....	386	465	851	10	23	33
Whitby.....	766	771	1,537	28	40	68
Woodstock.....	93	96	189		1	1
Guelph.....	109		109	3		3
	4,687	5,017	9,704	137	191	328

No. 4

of Insane Population

First admissions during the year			Re-admissions during the year			Transfers received during the year			Total number in hospital during the year		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
83	77	160	32	25	57	5	4	9	585	552	1,137
.....	26	26	.....	2	2	.....	13	13	.....	458	458
121	123	244	30	36	66	1	.....	1	759	776	1,535
62	43	105	31	23	54	32	24	56	590	444	1,034
157	127	284	56	48	104	3	.....	3	887	900	1,787
122	81	203	9	9	18	4	6	10	452	429	881
74	59	133	6	1	7	2	2	4	799	770	1,569
7	1	8	.....	9	9	3	10	13	197	232	429
166	151	317	48	57	105	.....	.....	.....	610	696	1,306
169	163	332	28	41	69	.....	.....	.....	991	1,015	2,006
23	13	36	3	2	5	.....	.....	.....	119	112	231
11	.....	11	.....	.....	.....	5	.....	5	128	.....	128
995	864	1,859	243	253	496	55	59	114	6,117	6,384	12,501

TABLE No. 4
Showing the Movement

	Discharged during the year			Died during the year		
	Male	Female	Total	Male	Female	Total
Brockville.....	64	58	122	34	41	75
Cobourg.....		9	9		25	25
Hamilton.....	89	98	187	38	51	89
Kingston.....	47	37	84	28	28	56
London.....	102	120	222	64	57	121
Mimico.....	53	32	85	24	24	48
Orillia.....	18	9	27	26	24	50
Penetang.....	1	3	4	4	12	16
Toronto.....	138	133	271	51	62	113
Whitby.....	110	110	220	53	61	114
Woodstock.....	15	12	27	4	3	7
Guelph.....	7		7	11		11
	644	621	1,265	337	388	725

—Continued

of Insane Population

Transferred to other hospitals			Eloped during the year			Patients in hospital on Oct. 31st, 1930			Patients on probation on Oct. 31st, 1930		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
2	3	5	.....	.....	.....	467	419	886	18	31	49
.....	2	2	.....	.....	.....	.....	421	421	.....	1	1
.....	.....	.....	.....	.....	.....	605	600	1,205	27	27	54
2	1	3	3	.....	3	499	366	865	11	12	23
.....	.....	.....	.....	.....	.....	697	696	1,393	24	27	51
2	.....	2	.....	.....	.....	363	358	721	10	15	25
16	25	41	.....	.....	.....	720	691	1,411	19	21	40
2	1	3	.....	.....	.....	189	215	404	1	1	2
2	3	5	.....	.....	.....	409	487	896	10	11	21
27	30	57	.....	.....	.....	771	782	1,553	30	32	62
.....	.....	.....	.....	.....	.....	99	97	196	1	.....	1
.....	.....	.....	.....	.....	.....	109	.....	109	1	.....	1
53	65	118	3	.....	3	4,928	5,132	10,060	152	178	330

TABLE

Showing the Classification of

CLASSIFICATION OF ADMISSIONS

	By Physicians' Certificate			By Inspectors' Warrant			By Lieut.-Governor's Warrant			By Voluntary Application			Totals		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Brockville.....	99	96	195	9	4	13	.....	.....	.....	12	6	18	120	106	226
Cobourg.....	.....	34	34	.....	7	7	.....	.....	.....	.....	.....	.....	.....	41	41
Hamilton.....	87	127	214	55	26	81	.....	.....	.....	10	6	16	152	159	311
Kingston.....	78	63	141	28	12	40	.....	.....	.....	19	15	34	125	90	215
London.....	149	153	302	42	7	49	1	1	2	24	14	38	216	175	391
Mimico.....	33	58	91	96	37	133	1	.....	1	5	1	6	135	96	231
Orillia.....	69	56	125	13	6	19	.....	.....	.....	.....	.....	.....	82	62	144
Penetang.....	6	8	14	4	12	16	.....	.....	.....	.....	.....	.....	10	20	30
Toronto.....	115	141	256	78	48	126	.....	.....	.....	21	19	40	214	208	422
Whitby.....	124	166	290	33	14	47	.....	.....	.....	40	24	64	197	204	401
Woodstock.....	23	14	37	1	1	2	.....	.....	.....	2	.....	2	26	15	41
Guelph.....	.....	.....	.....	5	.....	5	11	.....	11	.....	.....	.....	16	.....	16
	783	916	1699	364	174	538	13	1	14	133	85	218	1293	1176	2469

No. 4a

Admissions and Discharges

CLASSIFICATION OF DISCHARGES

As Recovered			As Improved			As Unimproved			As without Psychosis			Totals		
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
18	24	42	42	29	71	4	5	9	.....	.....	.....	64	58	122
.....	4	4	.....	3	3	.....	2	2	.....	.....	.....	.....	9	9
4	2	6	70	89	159	14	7	21	1	.....	1	89	98	187
27	1	28	17	35	52	2	1	3	1	.....	1	47	37	84
49	70	119	47	44	91	6	6	12	.....	.....	.....	102	120	222
13	10	23	38	17	55	2	5	7	.....	.....	.....	53	32	85
.....	.....	.....	13	5	18	5	4	9	.....	.....	.....	18	9	27
.....	.....	.....	.....	2	2	1	1	2	.....	.....	.....	1	3	4
33	43	76	94	75	169	11	15	26	.....	.....	.....	138	133	271
33	56	89	53	38	91	24	16	40	.....	.....	.....	110	110	220
.....	.....	.....	6	5	11	9	7	16	.....	.....	.....	15	12	27
.....	.....	.....	5	.....	5	2	.....	2	.....	.....	.....	7	.....	7
177	210	387	385	342	727	80	69	149	2	.....	2	644	621	1265

TABLE No. 4b

This table shows the total number who were admitted, discharged and died since the opening of the Hospitals.

	Total number admitted since opening of hospital			Total number discharged since opening of hospital			Total number died since opening of hospital		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Brockville.....	3,129	3,033	6,162	1,599	1,678	3,277	1,045	905	1,950
Cobourg.....		800	800		176	176		202	202
Hamilton.....	5,663	5,553	11,216	3,082	3,183	6,265	1,949	1,743	3,692
Kingston.....	4,168	3,427	7,595	2,417	2,033	4,450	1,241	1,016	2,257
London.....	6,272	5,963	12,235	3,444	3,287	6,731	2,107	1,953	4,060
Mimico.....	2,937	2,627	5,564	1,672	1,510	3,182	892	744	1,636
Orillia.....	2,585	2,214	4,799	639	469	1,108	1,207	1,033	2,240
Penetang.....	446	550	996	74	74	148	182	260	442
Toronto.....	9,951	9,536	19,487	6,840	6,880	13,720	2,692	2,158	4,850
Whitby.....	2,141	2,086	4,227	909	890	1,799	431	382	813
Woodstock.....	548	434	982	260	181	441	188	156	344
Guelph.....	203		203	58		58	35		35
	38,043	36,223	74,266	20,994	20,361	41,355	11,969	10,552	22,521

TABLE No. 5

Covers the citizenship of first admissions.

	Males	Females	Total
Citizens by birth.....	644	576	1,220
Citizens by naturalization.....	169	118	287
Aliens.....	84	60	144
Citizenship unascertained.....	22	9	31
Citizens of British birth outside Canada.....	76	101	177
Total.....	995	864	1,859

TABLE No. 5a

Permits a very interesting study of the nativity of patients. This table should be of especial interest to all those interested in the immigration problem.

	First Admissions			Readmissions		
	Male	Female	Total	Male	Female	Total
Canada.....	642	578	1,220	187	191	378
Africa.....						
Australia.....						
Armenia.....	1	2	3			
Bulgaria.....		1	1			
Austria.....	7	4	11	2	1	3
Belgium.....						
Central America.....						
China.....	6	1	7			
Czecho-Slovakia.....	4	2	6			
Denmark.....		2	2			
England.....	132	124	256	22	35	57
Finland.....	20	4	24	6	1	7
France.....						
Germany.....	5	5	10		1	1
Greece.....	6	1	7			
Holland.....	4	1	5		1	1
Hungary.....	4	1	5			
India.....						
Ireland.....	26	28	54	2	5	7
Italy.....	10	8	18	4	4	8
Japan.....						
Jugo-Slavia.....	2	1	3			
Norway.....	2	1	3	1		1
Newfoundland.....	1	2	3			
Poland.....	32	4	36	1	2	3
Roumania.....	6	5	11		1	1
Russia.....	18	18	36	5	4	9
Scotland.....	29	30	59		2	2
South America.....		4	4		1	1
Spain.....	1		1			
Sweden.....	4		4			
Switzerland.....	1		1			
Turkey.....	2	1	3			
United States.....	16	22	38	7	1	8
West Indies.....	2	6	8			
Other British Possessions.....	2	2	4			
Other Countries.....	1	1	2	1	1	2
Unascertained.....	9	5	14	5	2	7
Total.....	995	864	1,859	243	253	496

TABLE

Provides an opportunity for the study of the parentage of the patients admitted during the year.
The Table is divided between

Age Groups	Aggregate		NATIVE-BORN																	
			Total	Parentage																
				Native			Foreign			Mixed			Unascertained							
				M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.		
Under 15 years.....	59	34	93	57	37	89	43	22	65	4	4	8	5	1	6	5	5	10		
15-19 years.....	58	66	124	49	54	103	25	31	56	14	9	23	6	8	14	4	6	10		
20-24 years.....	95	76	171	61	51	112	40	23	63	8	11	19	5	5	10	8	12	20		
25-29 years.....	103	81	184	67	57	124	37	32	69	14	14	28	4	4	8	12	7	19		
30-34 years.....	132	80	212	71	46	117	38	18	56	15	5	20	7	15	22	11	8	19		
35-39 years.....	98	83	181	56	47	103	31	25	56	12	9	21	6	6	12	7	7	14		
40-44 years.....	69	91	160	45	65	110	22	28	50	9	12	21	9	17	26	5	8	13		
45-49 years.....	83	71	154	41	46	87	12	20	32	12	12	24	7	7	14	10	7	17		
50-54 years.....	62	64	126	40	38	78	14	12	26	11	12	23	11	8	19	4	6	10		
55-59 years.....	57	51	108	39	35	74	19	11	30	8	11	19	8	5	13	4	8	12		
60-64 years.....	44	46	90	29	34	63	4	9	13	11	11	22	10	6	16	4	8	12		
65-69 years.....	49	34	83	35	24	59	12	9	21	14	8	22	6	4	10	3	3	6		
70 years and over....	81	86	167	56	52	108	15	16	31	21	15	36	8	8	16	12	13	25		
Unascertained.....	5	1	6	2	...	2	...	...	...	...	...	...	...	...	...	2	...	2
Total.....	995	864	1859	648	581	1229	312	256	568	153	133	286	92	94	186	91	98	189		

No. 5b

To further this study they are shown under age groups, from fifteen years to seventy and over. Native and Foreign born.

FOREIGN-BORN																				
Total			Time in Canada before Admission															Nativity unascertained		
			Under 5 years			5—9 years			10—14 years			15 years and over			Unascertained					
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
2	2	4	.....	1	1	2	.....	2	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....
19	12	21	5	4	9	1	3	4	1	4	5	1	.....	1	1	1	2	.....	.....	.....
34	25	59	11	6	17	5	5	10	3	7	10	8	6	14	6	1	7	1	.....	1
36	24	60	15	7	22	5	2	7	2	2	4	8	5	13	5	7	12	1	1	2
61	34	95	15	6	21	9	3	12	2	7	9	18	14	32	15	3	18	2	1	3
42	36	78	8	5	13	4	6	10	3	7	10	19	14	33	8	4	12	.....	.....	.....
24	26	50	6	3	9	3	4	7	2	1	3	11	17	28	2	1	3	.....	.....	.....
42	25	67	6	2	8	.....	2	2	6	3	9	21	15	36	7	3	10	2	.....	2
22	26	48	6	.....	6	3	2	5	1	2	3	10	17	27	2	2	4	.....	3	3
18	16	34	2	2	4	1	.....	1	3	1	4	8	11	19	3	2	5	1	.....	1
15	12	27	.....	.....	.....	2	.....	2	2	.....	2	7	10	17	4	2	6	.....	.....	.....
14	10	24	.....	1	1	2	.....	2	1	.....	1	10	9	19	1	.....	1	.....	.....	.....
25	34	59	.....	1	1	.....	.....	.....	.....	.....	.....	17	24	41	6	9	15	2	.....	2
3	1	4	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	1	1	.....	1	1	.....	1
347	283	630	74	38	112	37	27	64	27	34	61	138	144	282	61	35	96	10	5	15

TABLE No. 6

Covers the Psychosis of first admissions. It will be noted that these psychoses are arranged in twenty-two classifications, which are standardized throughout the following tables.

Psychoses	Males	Females	Total	Males	Females	Total
1. Traumatic psychoses				5	1	6
2. Senile psychoses				92	109	201
3. Psychoses with cerebral arteriosclerosis				48	31	79
4. General paresis				93	18	111
5. Psychoses with cerebral syphilis				2	2	4
6. Psychoses with Huntington's chorea				3	2	5
7. Psychoses with brain tumour						
8. Psychoses with other brain or nervous diseases, total				20	6	26
(a) Cerebral embolism						
(b) Paralysis agitans	1		1			
(c) Meningitis, tubercular or other forms		1	1			
(d) Multiple sclerosis	1		1			
(e) Tabes dorsalis	1		1			
(f) Acute chorea						
(g) Other diseases	17	5	22			
9. Alcoholic psychoses, total				38	4	42
(a) Delirium tremens	6		6			
(b) Korsakow's psychosis	1	1	2			
(c) Acute hallucinosis	9	2	11			
(d) Other types, acute or chronic	22	1	23			
10. Psychoses due to drugs and other exogenous toxins, total				2	1	3
(a) Opium (and derivatives), cocaine, bromides, chloral, etc., alone or combined	1	1	2			
(b) Metals, as lead, arsenic						
(c) Gases						
(d) Other exogenous toxins	1		1			
11. Psychoses with pellagra					1	1
12. Psychoses with other somatic diseases, total				16	41	57
(a) Delirium with infectious diseases	1	2	3			
(b) Post-infectious psychosis		3	3			
(c) Exhaustion delirium	8	13	21			
(d) Delirium of unknown origin		3	3			
(e) Cardio-renal diseases	4	5	9			
(f) Diseases of the ductless glands		1	1			
(g) Other diseases or conditions	3	14	17			
13. Manic-depressive psychoses, total				86	99	185
(a) Manic type	33	42	75			
(b) Depressive type	50	51	101			
(c) Other types	3	6	9			
14. Involution melancholia				29	57	86
15. Dementia praecox (schizophrenia)				308	272	580
16. Paranoia and paranoid conditions				16	17	33
17. Epileptic psychoses				22	23	45
18. Psychoneuroses and neuroses, total				12	18	30
(a) Hysterical Type	3	8	11			
(b) Psychasthenic type (anxiety and obsessive forms)	2	6	8			
(c) Neurasthenic type	5	4	9			
(d) Other types	2		2			
19. Psychoses with psychopathic personality				6	5	11
20. Psychoses with mental deficiency				32	36	68
21. Undiagnosed psychoses				18	18	36
22. Without psychosis, total				147	103	250
(a) Epilepsy without psychosis	26	13	39			
(b) Alcoholism without psychosis	12	3	15			
(c) Drug addiction without psychosis	4	3	7			
(d) Psychopathic personality without psychosis	8		8			
(e) Mental deficiency	88	77	165			
(f) Others	9	7	16			
Total				995	864	1,859

TABLE

Furnishes the distribution of the patients in regard to race under the different psychoses. This

RACE	Total			Traumatic			Senile			With Cerebral arterio-sclerosis			General paralysis		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
African	3	2	5				1	1							
American Indian	1	3	4							1		1			
Armenian	1	3	4												
Bulgarian		1	1												
Chinese	6	1	7												
Dutch and Flemish	11	3	14				3		3				1	1	2
East Indian															
English	411	378	789	4		4	35	47	82	24	14	38	42	7	49
Finnish	20	5	25				1		1				2		2
French	39	23	62				2	3	5				6		6
German	26	27	53				1	2	3	3	3	6	2		2
Greek	6	1	7												
Hebrew	5	5	10												
Irish	115	117	232	1		1	13	23	36	5	6	11	16	3	19
Italian	11	11	22										1		1
Japanese															
Roumanian	6	3	9										1		1
Russian	34	23	57										3	1	4
Scandinavian	2	4	6												
Scotch	93	85	178				22	14	36	4	3	7	9	4	13
Slavonic	20	2	22										1		1
Spanish	1		1												
Syrian															
Turkish															
Other Specific Races	67	37	104				1	1	2		1	1	3	1	4
Mixed Races	18	17	35				1	1	2	1		1	2		2
Races Unascertained	99	113	212		1	1	13	17	30	10	4	14	4	1	5
Totals	995	864	1859	5	1	6	92	109	201	48	31	79	93	18	111

No. 7

differs in certain respects from Table No. 5, where the admissions were shown under countries

With cerebral syphilis			With Huntington's chorea			With brain tumour			With other brain or nervous diseases			Alcoholic			Due to drugs and other exogenous toxins			Pellagra		
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...
1	1	2	2	2	4	...	...	...	9	2	11	15	...	15	...	1	1	...	...	...
1	...	1	...	...	...	...	...	...	...	1	1	2	...	2	1	...	1	...	...	...
...	...	...	...	...	...	...	...	...	7	2	9	6	1	7	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	1	1	2	1	...	1	...	...	...	...	...	...
...	1	1	1	...	1	...	...	...	1	...	1	1	3	3	6	1	...	1	1	1
...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	1	...	1	4	...	4	...	...	...	...	...	...
2	2	4	3	2	5	...	...	...	20	6	26	38	4	42	2	1	3	1	...	1

TABLE No. 7

Furnishes the distribution of the patients in regard to race under the different psychoses. This

RACES	With other somatic diseases			Manic-depressive			Involution melancholia			Dementia praecox			Paranoia and paranoid conditions		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
African.....										2		2			
American Indian.....		1	1												
Armenian.....					1	1				1	1	2			
Bulgarian.....											1	1			
Chinese.....				2		2				3		3	1		1
Dutch and Flemish.....		1	1							6		6			
East Indian.....															
English.....	4	19	23	32	41	73	15	31	46	130	126	256	7	11	18
Finnish.....				5	1	6				8	3	11	3		3
French.....	1	1	2	2	5	7	1	2	3	10	7	17			
German.....	2		2	2	3	5	1	2	3	10	14	24			
Greek.....										5		5			
Hebrew.....					1	1				2	1	3			
Irish.....	1	8	9	17	18	35	2	8	10	24	27	51	3	2	5
Italian.....				2	4	6				5	1	6			
Japanese.....															
Roumanian.....					1	1	1		1	4	2	6			
Russian.....		2	2	6	3	9	2	1	3	17	9	26			
Scandinavian.....				1		1				2	2	2		1	1
Scotch.....	5	3	8	7	7	14	4	3	7	19	25	44	2	2	4
Slavonic.....				2		2				14	2	16			
Spanish.....				1		1									
Syrian.....															
Turkish.....															
Other Specific Races.....				4	2	6		1	1	12	7	19			
Mixed Races.....	1	1	2	1	1	2		4	4	5	7	12			
Races Unascertained.....	2	5	7	2	11	13	3	5	8	31	37	68		1	1
Totals.....	16	41	57	86	99	185	29	57	86	308	272	580	16	17	33

—Continued

differs in certain respects from Table No. 5, where the admission were shown under countries.

Epileptic psychoses			Psycho-neuroses and neuroses			With psychopathic personality			With mental deficiency			Undiagnosed psychoses			Without psychosis		
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
																1	1
				1	1											1	1
													1	1		1	1
10	12	22	6	8	14	3	1	4	12	16	28	9	10	19	51	29	80
2	2	4	2		2				1		1			1	7	2	9
1	1	2				1		1							3	2	5
1		1											1	1			
	1	1										1		1	2	2	4
3	2	5		3	3				3	5	8	1	1	2	13	8	21
			1	1	2					2	2				1	3	4
						1		1		1	1	3	2	5		3	3
										1	1						
2	1	3	1	2	3	1	2	3	1	2	3	1	2	3	9	10	19
									1		1						
											6	2	8	3		3	22
	1	1	1		1				1		1				38	2	60
3	3	6	1	3	4		2	2	5	7	12				20	16	36
22	23	45	12	18	30	6	5	11	32	36	68	18	18	36	147	103	250

TABLE

This table furnishes an interesting study in regard to

Psychoses	Total			Under 15 Years			15-19 Years			20-24 Years			25-29 Years			30-34 Years				
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.		
	1. Traumatic.....	5	1	6															2	1	3
2. Senile.....	92	109	201																	
3. With Cerebral Arterio-sclerosis.....	48	31	79																	
4. General Paralysis.....	93	18	111				1	1	1	1	2	4	2	6	20	1	21			
5. With Cerebral Syphilis....	2	2	4						1	1	2				1		1			
6. With Huntington's Chorea.	3	2	5										1	1						
7. With Brain Tumour.....																				
8. With other Brain or Nervous Diseases.....	20	6	26							2	2	2	1	3	1	1	2			
9. Alcoholic.....	38	4	42						1		1	2		2	5		5			
10. Due to Drugs and other Exogenous Toxins.....	2	1	3																	
11. With Pellagra.....		1	1																1	1
12. With other Somatic Diseases	16	41	57				2	2	1	1	2		2	2	2	2	4			
13. Manic-depressive.....	86	99	185	1		1	3	4	7	8	10	18	8	9	17	13	11	24		
14. Involution Melancholia....	29	57	86																	
15. Dementia Praecox.....	308	272	580				23	22	45	50	32	82	67	43	110	62	42	104		
16. Paranoia or Paranoid Con-ditions.....	16	17	33										1	2	3	1	1	2		
17. Epileptic Psychoses.....	22	23	45		1	1	3	2	5	5	3	8	2	6	8	3	2	5		
18. Psycho-neuroses and Neu-roses.....	12	18	30							2	1	3	2	4	6			2	2	
19. With Psychopathic Person-ality.....	6	5	11				2		2	1	1	2				1	1	2		
20. With Mental Deficiency....	32	36	68	3	1	4	5	6	11	6	5	11	3	3	6	5	6	11		
21. Undiagnosed Psychoses....	18	18	36				2	1	3	2	2	4	4	3	7	3	2	5		
22. Without Psychoses.....	147	103	250	55	32	87	20	28	48	17	17	34	8	5	13	13	7	20		
Total.....	995	864	1859	59	34	93	58	66	124	95	76	171	103	81	184	132	80	212		

No. 8

the age of the patients under the different psychoses.

35-39 Years			40-44 Years			45-49 Years			50-54 Years			55-59 Years			60-64 Years			65-69 Years			70 Years and over			Unascertained					
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.			
2		2										1		1															
1		1							1	2	3	2	7	9	6	8	14	15	18	33	67	74	141						
						1	1		8	6	14	5	3	8	14	9	23	15	9	24	6	3	9						
15	1	16	10	5	15	21	3	24	7		7	6	2	8	5	1	6	4	1	5									
			1	1	2	1		1	1	1	1																		
4		4	2		2	2		2	1		1	2	1	3	2	1	3	2		2	2		2			2			
5	1	6	6		6	7		7	2	2	4	5		5	2	1	3	2		2				1		1			1
1		1	1	1	2																								
1	6	7	2	9	11	3	5	8	1	5	6	2	3	5	1	4	5	2		2	1	2	3			3			
10	16	26	6	10	16	7	11	18	9	11	20	13	7	20	1	6	7	5	1	6	2	3	5						
	2	2		11	11	5	13	18	12	14	26	8	11	19	3	5	8		1	1	1	1	1			1			
41	36	77	25	38	63	23	22	45	4	15	19	5	11	16	2	7	9	2	2	4	1	1	2	3	1	4			4
3	2	5	2	3	5	2	2	4	4	2	6	1	2	3	2	1	3		1	1		1	1			1			
2	2	4	1	2	3	1	1	2	3	1	4		2	2	1		1					1	1			2			
3	4	7	2	1	3	1	2	3	1	2	3	1	1	2		1	1												
				2	2	1	1	2	1		1																		
2	5	7	2	3	5	2	4	6	2	2	4	1		1	1		1										1		1
2	3	5	1	4	5		2	2				1		1	2	1	3	1		1									
6	5	11	8	1	9	7	4	11	5	1	6	4	1	5	3		3	1	1	2		1	1						
98	83	181	69	91	160	83	71	154	62	64	126	57	51	108	44	46	90	49	34	83	81	86	167	5	1	6			

TABLE No. 9

To those interested in educational work, this Table furnishes a study in regard to the degree of education of first admissions.

Psychoses	Total			Illiterate			Reads and Writes			Common School			High School			University			Unascertained			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
	1. Traumatic.....	5	1	6							3			2						1		
2. Senile.....	92	109	201	11	2	13	14	17	31	47	57	104	6	12	18	3	1	4	11	20	31	
3. With Cerebral Arteriosclerosis.....	48	31	79	4	1	5	11	5	16	26	22	48	4	2	6				3	1	4	
4. General Paralysis.....	93	18	111	2	1	3	16		16	54	13	67	7	2	9			2	12	2	14	
5. With Cerebral Syphilis.....	2	2	4				1		1	1	2	3										
6. With Huntington's Chorea.....	3	2	5				1		1	2	1	3									1	1
7. With Brain Tumour.....																						
8. With other Brain or Nervous Diseases.....	20	6	26	1		1		1	1	17	2	19	1	2	3				1	1	2	
9. Alcoholic.....	38	4	42				6		7	17	1	18	5	1	6	7		7	3	1	4	
10. Due to Drugs and other Exogenous Toxins.....	2	1	3	1		1				1		1			1							
11. With Pellagra.....	1	1	2																			
12. With other Somatic Diseases.....	16	41	57				3	7	10	9	22	31	2	4	6	2	1	3			6	6
13. Manic-depressive.....	86	99	185	2	3	5	16	9	25	45	66	111	14	18	32	2	1	3	7	2	9	
14. Involution Melancholia.....	29	57	86	3		3	3	10	13	18	38	56	2	7	9	2		2	1	2	3	
15. Dementia Praecox.....	308	272	580	12	6	18	69	48	117	160	157	317	33	43	76	5	3	8	29	15	44	
16. Paranoia or Paranoid Conditions.....	16	17	33	1		1	4	6	10	10	10	20	1	1	1							
17. Epileptic Psychoses.....	22	23	45	2	3	5	5	8	13	14	10	24	1	2	2				2		1	1
18. Psychoneuroses and Neuroses.....	12	18	30				4	2	6	4	4	10	4	2	5	2		2				
19. With Psychopathic Personality.....	6	5	11							4	3	7	1	2	3	1		1				
20. With Mental Deficiency.....	32	36	68	12	8	20	10	12	22	6	14	20	1		1				3	2	5	
21. Undiagnosed Psychoses.....	18	18	36	1	1	2	3	3	6	10	8	18		3	3				4	3	7	
22. Without Psychoses.....	147	103	250	69	38	107	24	35	59	36	24	60	11	5	16	5		5	2	1	3	
Total.....	995	864	1859	121	64	185	190	164	354	484	460	944	92	110	202	31	7	38	77	59	136	

TABLE No. 10

Shows the Environment of first admissions, and should be studied in conjunction with the population figures for the Province, as divided between Urban and Rural.

Psychoses	Total			Urban, 2,500 and over			Rural			Unascertained		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic.....	5	1	6	2	1	3	3		3			
2. Senile.....	92	109	201	51	82	133	41	27	68			
3. With Cerebral Arteriosclerosis.....	48	31	79	31	21	52	17	10	27			
4. General Paralysis.....	93	18	111	76	14	90	17	4	21			
5. With Cerebral Syphilis.....	2	2	4	1	2	3	1		1			
6. With Huntington's Chorea.....	3	2	5	3	1	4		1	1			
7. With Brain Tumor.....												
8. With other Brain or Nervous Diseases.....	20	6	26	14	5	19	6	1	7			
9. Alcoholic.....	38	4	42	33	3	36	5	1	6			
10. Due to Drugs and other Exogenous Toxins.....	2	1	3	2	1	3						
11. With Pellagra.....		1	1		1	1						
12. With other Somatic Diseases.....	16	41	57	8	31	39	8	10	18			
13. Manic-depressive.....	86	99	185	48	73	121	38	26	64			
14. Involution-Melancholia.....	29	57	86	15	36	51	14	21	35			
15. Dementia Praecox.....	308	272	580	189	195	384	117	77	194	2		2
16. Paranoia or Paranoid Conditions.....	16	17	33	8	9	17	8	8	16			
17. Epileptic Psychoses.....	22	23	45	15	16	31	7	7	14			
18. Psychoneuroses and Neuroses.....	12	18	30	6	13	19	6	5	11			
19. With Psychopathic Personality.....	6	5	11	4	4	8	2	1	3			
20. With Mental Deficiency.....	32	36	68	22	28	50	10	8	18			
21. Undiagnosed Psychoses.....	18	18	36	12	8	20	6	10	16			
22. Without Psychoses.....	147	103	250	114	83	197	33	20	53			
Total.....	995	864	1859	654	627	1281	339	237	576	2		2

TABLE No. 11

Showing the Economical Conditions of first admissions with Principal Psychoses.

Psychoses	Total			Dependent			Living on Daily Earnings			Comfortable. Ample for 4 Months			Unascertained		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic.....	5	1	6	2	...	2	2	...	2	1	1	2	...	...	...
2. Senile.....	92	109	201	20	30	50	26	27	53	46	51	97	...	1	1
3. With Cerebral Arteriosclerosis..	48	31	79	12	6	18	13	10	23	23	15	38	...	...	...
4. General Paralysis.....	93	18	111	36	6	42	39	10	49	18	2	20	...	...	...
5. With Cerebral Syphilis.....	2	2	4	1	1	2	1	...	1	...	1	1	...	...	...
6. With Huntington's Chorea.....	3	2	5	2	1	3	1	1	2	...	...	...	...	...	...
7. With Brain Tumour.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8. With other Brain or Nervous Diseases.....	20	6	26	5	2	7	8	1	9	7	3	10	...	...	...
9. Alcoholic.....	38	4	42	6	1	7	16	1	17	16	2	18	...	...	...
10. Due to Drugs and other Exogenous Toxins.....	2	1	3	1	...	1	1	1	2	...	...	...	...	...	...
11. Pellagra.....	...	1	1	...	...	...	...	1	1	...	...	...	...	...	...
12. With other Somatic Diseases...	16	41	57	2	8	10	7	12	19	7	21	28	...	...	...
13. Manic-depressive.....	86	99	185	17	29	46	41	26	67	27	44	71	1	...	1
14. Involution Melancholia.....	29	57	86	7	6	13	11	14	25	11	37	48	...	...	...
15. Dementia Praecox.....	308	272	580	96	54	150	129	92	221	79	124	203	4	2	6
16. Paranoia or Paranoid Conditions.....	16	17	33	3	5	8	10	...	10	3	12	15	...	...	...
17. Epileptic Psychoses.....	22	23	45	9	8	17	10	9	19	2	6	8	1	...	1
18. Psychoneuroses and Neuroses..	12	18	30	3	...	3	2	3	5	7	15	22	...	...	...
19. With Psychopathic Personality.	6	5	11	4	2	6	...	2	2	2	1	3	...	...	...
20. With Mental Deficiency.....	32	36	68	21	24	45	9	7	16	2	5	7	...	...	...
21. Undiagnosed Psychoses.....	18	18	36	3	5	8	11	2	13	3	11	14	1	...	1
22. Without Psychoses.....	147	103	250	91	86	177	28	8	36	28	9	37	...	...	...
Total.....	995	864	1859	341	274	615	365	227	592	282	360	642	7	3	10

TABLE No. 12

As the use of Alcohol as a beverage has always been a controversial subject, the classification of the first admissions under the headings in this table forms an interesting study.

Psychoses	Total			Abstinent			Temperate			Intemperate			Unascertained		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic.	5	1	6	2	1	3	3	3	3	...	...	...	...	...	...
2. Senile.	92	109	201	45	82	127	36	24	60	8	3	11	3	...	3
3. With Cerebral Arteriosclerosis	48	31	79	23	28	51	14	3	17	10	...	10	1	...	1
4. General Paralysis.	93	18	111	16	13	29	40	4	44	24	...	24	13	1	14
5. With Cerebral Syphilis.	2	2	4	...	2	2	2	...	2	...	...	...	...	...	...
6. With Huntington's Chorea.	3	2	5	2	2	4	...	...	...	1	...	1	...	...	...
7. With Brain Tumour. . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8. With other Brain or Nervous Diseases.	20	6	26	13	6	19	5	...	5	1	...	1	1	...	1
9. Alcoholic.	38	4	42	...	...	...	...	...	...	38	4	42	...	...	...
10. Due to Drugs and other Exogenous Toxins.	2	1	3	1	...	1	...	...	...	...	1	1	1	...	1
11. With Pellagra. . . . .	...	1	1	...	1	1	...	...	...	...	1	1	1	...	1
12. With other Somatic Diseases.	16	41	57	5	28	33	8	8	16	2	3	5	1	2	3
13. Manic-depressive.	86	99	185	43	75	118	29	21	50	7	3	10	7	...	7
14. Involution Melancholia.	29	57	86	17	43	60	10	11	21	1	1	2	1	2	3
15. Dementia Praecox.	308	272	580	12	207	329	126	52	178	32	3	35	28	10	38
16. Paranoia or Paranoid Conditions.	16	17	33	2	9	11	11	8	19	1	...	1	2	...	2
17. Epileptic Psychoses.	22	23	45	12	19	31	6	4	10	1	...	1	3	...	3
18. Psychoneuroses and Neuroses.	12	18	30	6	9	15	6	7	13	...	1	1	...	1	1
19. With Psychopathic Personality	6	5	11	4	2	6	...	2	2	1	1	2	1	...	1
20. With Mental Deficiency.	32	36	68	22	27	49	8	3	11	...	1	1	2	5	7
21. Undiagnosed Psychoses.	18	18	36	6	4	10	7	12	19	1	2	3	4	...	4
22. Without Psychoses.	147	103	250	110	91	201	15	4	19	20	5	25	2	3	5
Total.	995	864	1859	451	649	1100	326	163	489	148	28	176	70	24	94

TABLE No. 14

Is the first and only table dealing with the psychoses of Readmissions. A study of this as compared with the discharges of previous years, will prove interesting.

Psychoses	Males	Females	Total
1. Traumatic Psychoses			
2. Senile Psychoses	12	14	26
3. Psychoses with Cerebral Arteriosclerosis	8	4	12
4. General Paralysis	4	3	7
5. Psychoses with Cerebral Syphilis			
6. Psychoses with Huntington's Chorea			
7. Psychoses with Brain Tumour			
8. Psychoses with other Brain or Nervous Diseases	2		2
9. Alcoholic Psychoses	10	3	13
10. Psychoses due to Drugs and other Exogenous Toxins	5		5
11. Psychoses with Pellagra			
12. Psychoses with Somatic Diseases	2		2
13. Manic-depressive Psychoses	47	81	128
14. Involution Melancholia	5	8	13
15. Dementia Praecox	97	94	191
16. Paranoia and Paranoid Conditions	2	4	6
17. Epileptic Psychoses	10	5	15
18. Psychoneuroses and Neuroses	1	4	5
19. Psychoses with Psychopathic Personality	1	2	3
20. Psychoses with Mental Deficiency	13	11	24
21. Undiagnosed Psychoses		2	2
22. Without Psychoses	24	18	42
Total	243	253	496

TABLE No. 15

Deals with the Discharges of patients under the different psychoses, together with the Condition of the patient at the time of discharge, From this table the reader is enabled to compare the recoveries and improvements with the total admissions of the year.

Psychoses	Total			Recovered			Improved			Unimproved		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic	3	1	4	1	1	2	2		2			
2. Senile	22	36	58	2	1	3	13	28	41	7	7	14
3. With Cerebral Arteriosclerosis	15	29	44	4	4	8	8	19	27	3	6	9
4. General Paralysis	32	13	45		1	1	30	10	40	2	2	4
5. With Cerebral Syphilis		5	5					4	4		1	1
6. With Huntington's Chorea												
7. With Brain Tumour	4			1		2						2
8. With other Brain or Nervous Diseases	4	3	7	1	1	2	1	2	3	2		2
9. Alcoholic	40	7	47	25	5	30	14	1	15	1	1	2
10. Due to Drugs and other Exogenous Toxins	8	7	15	5	5	10	3	2	5			
11. With Pellagra												
12. With other Somatic Diseases	4	17	21	2	7	9	1	10	11	1		1
13. Manic-depressive	105	159	264	57	97	154	42	50	92	6	12	18
14. Involution Melancholia	17	42	59	3	10	13	14	28	42		4	4
15. Dementia Praecox	254	190	444	51	50	101	170	124	294	33	16	49
16. Paranoia and other Paranoid Conditions	8	8	16	3	4	7	4	4	8	1		1
17. Epileptic Psychoses	12	17	29	3	1	4	5	12	17	4	4	8
18. Psychoneuroses and Neuroses	12	20	32	4	10	14	6	8	14	2	2	4
19. With Psychopathic Personality	7	6	13		2	2	6	4	10	1		1
20. With Mental Deficiency	25	18	43		2	2	23	14	37	2	2	4
21. Undiagnosed Psychoses	13	8	21	3	5	8	10	3	13			
22. Without Psychoses	63	35	98	13	4	17	35	19	54	15	12	27
Total	644	621	1265	177	210	387	385	342	727	80	69	149

TABLE

Deals with the deaths in the Institutions during the period covered, and furnishes the psychoses

Causes of Death	Total			Senile			With Cerebral Arteriosclerosis			General Paralysis			Alcoholic		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
I. EPIDEMIC, ENDEMIC AND INFECTIOUS DISEASES:															
Typhoid and paratyphoid fever.....															
Measles.....															
Scarlet fever.....															
Diphtheria.....															
Influenza.....		1	1												
Dysentery.....															
Erysipelas.....	3	3	6		1	1									
Lethargic encephalitis.....		6	6												
Tuberculosis of the respiratory system.....	33	31	64		1	1					1	1			
Tuberculosis of other organs.....	2		2												
Syphilis (non-nervous forms).....	6	3	9							4	3	7			
Purulent infection, septicaemia.....	2	4	6				1	1							
Other infectious diseases.....		1	1												
II. GENERAL DISEASES NOT INCLUDED IN CLASS I:															
Cancer and other malignant tumours..	7	7	14	1	1	2									
Tumour (non-cancerous).....	3	2	5	2		2									
Rheumatism.....															
Pellagra.....		3	3												
Diabetes.....															
Alcoholism (acute or chronic).....															
Other general diseases.....	2	3	5	1	1	2									
III. DISEASES OF THE NERVOUS SYSTEM:															
Meningitis (non-epidemic).....															
Tabes dorsalis (locomotor ataxia).....															
Other diseases of spinal cord.....															
Cerebral hemorrhage, apoplexy.....	27	30	57	11	14	25	3	4	7	1		1			
General paralysis of the insane.....	25	7	32	1		1				24	7	31			
Other forms of mental disease.....	29	49	78	6	17	23	4	5	9						
Epilepsy.....	21	16	37	1		1									
Chorea.....		3	3												
Other diseases of the nervous system...	5	7	12		2	2	1	1	2						
IV. DISEASES OF THE CIRCULATORY SYSTEM:															
Pericarditis.....															
Endocarditis and myocarditis.....	45	69	114	18	22	40	2	2	4	1		1	2		2
Angina pectoris.....	2		2				1		1						
Other diseases of the heart.....	9	7	16	4	3	7			1	1					
Arteriosclerosis.....	46	40	86	31	27	58	9	7	16						
Other diseases of the arteries.....	3	4	7		2	2	2		2						
Other diseases of the circulatory system	2	7	9		1	1									
V. DISEASES OF THE RESPIRATORY SYSTEM:															
Bronchitis.....															
Bronchopneumonia.....	25	37	62	4	15	19		1	1		1	1			
Lobar pneumonia.....	14	16	30	4	5	9		1	1						
Pleurisy.....															
Asthma.....															
Other diseases of the respiratory system (tuberculosis excepted).....	5	14	19	4	7	11					1	1			

TABLE

Deals with the deaths in the Institutions during the period covered, and furnishes the psychoses

Causes of Death	Total			Senile			With Cerebral Arterio-sclerosis			General Paralysis			Alcoholic		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
VI. DISEASES OF THE DIGESTIVE SYSTEM:															
Diseases of the pharynx and tonsils.....															
Ulcer of stomach and duodenum.....	2		2												
Other diseases of stomach (cancer excepted).....	1		1												
Diarrhea and enteritis.....	3	2	5												
Appendicitis and typhilitis.....	1	1	2												
Hernia and intestinal obstruction.....	2	2	4												
Other diseases of intestines.....		1	1												
Cirrhosis of liver.....															
Biliary caculi.....															
Other diseases of liver.....	2		2												
Other diseases of digestive system (cancer and tuberculosis excepted).....	1		1												
VII. NON-VENEREAL DISEASES OF GENITO-URINARY SYSTEM AND ANNEXA:															
Nephritis.....	2	6	8												
Other diseases of kidneys and annexa..	1	1	2												
Diseases of bladder.....	1		1												
Diseases of prostate.....															
Benign tumours of uterus.....															
Other diseases of genital organs.....															
Other diseases of genito-urinary system.....															
VIII. DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE:															
Gangrene.....	1		1												
Other diseases of skin and annexa.....		1	1		1	1									
IX. DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION (tuberculosis and rheumatism excepted).															
X. OTHER DISEASES NOT INCLUDED IN ABOVE GROUPS.....															
		1	1		1	1									
XI. EXTERNAL CAUSES:															
Suicide.....	1	1	2												
Homicide.....	1		1												
Accidental poisoning.....															
Accidental traumatism.....	1	1	2												
Other external causes.....	1	1	2		1	1									
Total.....	337	388	725	89	121	210	23	22	45	30	13	43	2		2

TABLE

Shows the Age of the patients at the time of death, in groups from under fifteen years

Psychoses	Total			Under 15 Years			15-19 Years			20-24 Years			25-29 Years			30-34 Years			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
1. Traumatic	1	1	2																
2. Senile	89	121	210																
3. With Cerebral Arteriosclerosis	23	22	45																
4. General Paralysis	30	13	43							1	1		1		1	2		2	
5. With Cerebral Syphilis		1	1																
6. With Huntington's Chorea	1	5	6																
7. With Brain Tumour		1	1																
8. With other Brain or Nervous Diseases	9	3	12				1		1					1	1				
9. Alcoholic	2		2																
10. Due to Drugs and other Exogenous Toxins	1		1										1		1				
11. With Pellagra		3	3															1	1
12. With other Somatic Diseases	11	12	23				2	2		1	1					1	1	2	
13. Manic-depressive	20	31	51											1	1				
14. Involution Melancholia	7	14	21																
15. Dementia Praecox	76	90	166						4		4	8	5	13	4	6	10		
16. Paranoia or Paranoid Conditions	2	2	4																
17. Epileptic Psychoses	13	17	30						1		1	2	2	4					
18. Psychoneuroses and Neuroses																			
19. With Psychopathic Personality	1		1									1		1					
20. With Mental Deficiency	14	14	28							1	1	2	3	5	1	2	3		
21. Undiagnosed Psychoses	2	4	6											1	1				
22. Without Psychoses	35	34	69	8	6	14	8	4	12	5	1	6	3	3	6	2	3	5	
Total	337	388	725	8	6	14	9	6	15	10	4	14	18	16	34	10	13	23	

No. 17

of age to seventy years and over, and is also divided under principal psychoses.

35-39 Years			40-44 Years			45-49 Years			50-54 Years			55-59 Years			60-64 Years			65-69 Years			70 Years and over			Un- ascer- tained			
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
...	1	1	...	...	...	...	...	...	1	2	3	3	4	7	6	10	16	9	15	24	70	90	160	...	...	...
...	...	...	...	...	...	...	...	...	2	3	5	3	2	5	4	6	10	8	5	13	6	6	12	...	...	...
...	11	4	15	3	2	5	5	2	7	2	1	3	1	...	1	3	...	3	1	2	3	1	1	2	...	...	...
...	...	...	...	1	1	...	...	...	1	2	3	...	2	2	...	...	...	...	...	...	...	1	1	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
...	1	1	...	...	...	2	...	2	...	...	...	...	...	...	2	1	3	4	...	4	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	1	...	...	...	...	...	...	...
...	1	2	3	1	2	3	2	2	4	...	2	2	2	...	2	1	...	1	2	...	2	1	...	1	...	...	...
...	1	1	1	2	3	5	...	3	3	3	7	10	4	4	8	5	4	9	2	2	4	4	6	10	...	...	...
...	...	...	...	1	1	...	3	3	3	3	6	1	1	2	2	2	4	1	3	4	...	1	1	...	...	...	...
...	9	9	18	5	6	11	3	11	14	10	7	17	6	12	18	8	12	20	7	8	15	9	14	23	3	...	3
...	...	...	...	...	...	...	1	1	1	...	1	...	...	...	1	...	1	...	...	...	...	1	1	...	...	...	...
...	3	...	3	1	1	2	3	4	7	1	3	4	1	2	3	...	...	...	3	3	1	2	3	...	...	...	...
...
...	1	...	1	3	1	4	1	1	2	...	...	...	1	1	2	2	3	5	2	2	4	1	...	1	...	...	...
...	...	...	...	1	1	...	...	...	...	1	1	...	1	1	1	1	...	1	1	...	1	...	...	...	...	...	...
...	1	1	2	1	3	2	2	4	...	1	1	2	3	5	1	3	4	2	4	6	...	2	2	...	...	...	...
25	19	44	17	21	38	18	29	47	25	32	57	24	33	57	37	41	78	40	44	84	93	124	217	3	...	3	

TABLE

Furnishes valuable information in regard to the Length of Stay in

Psychoses	Total			Less than 1 Month			1-3 Months			4-7 Months			8-12 Months		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1. Traumatic.....	1	1	2	...	...	...	...	1	1	...	...	...	...	...	...
2. Senile.....	89	121	210	19	15	34	22	16	38	7	17	24	4	10	14
3. With Cerebral Arteriosclerosis...	23	22	45	8	3	11	4	3	7	4	9	13	...	1	1
4. General Paralysis.....	30	13	43	4	1	5	6	1	7	4	4	8	...	1	1
5. With Cerebral Syphilis.....	...	1	1	...	...	...	...	1	1	...	...	...	...	...	...
6. With Huntington's Chorea.....	1	5	6	...	...	...	...	1	...	1	1	...	...	1	1
7. With Brain Tumour.....	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
8. With other Brain or Nervous Diseases.....	9	3	12	2	1	3	4	...	4	1	1	2	...	...	...
9. Alcoholic.....	2	...	2	...	...	...	...	1	...	1	...	...	...	...	...
10. Due to Drugs or other Exogenous Toxins.....	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
11. With Pellagra.....	...	3	3	...	1	1	...	...	...	...	...	...	...	...	...
12. With other Somatic Diseases....	11	12	23	7	10	17	3	1	4	...	...	...	...	...	...
13. Manic-depressive.....	20	31	51	2	3	5	1	3	4	...	3	3	...	4	4
14. Involution Melancholia.....	7	14	21	1	3	4	3	3	6	...	...	...	1	2	3
15. Dementia Praecox.....	76	90	166	3	5	8	1	1	2	3	2	5	5	1	6
16. Paranoia or Paranoid Conditions	2	2	4	...	...	...	...	...	...	...	...	...	...	...	...
17. Epileptic Psychoses.....	13	17	30	...	2	2	...	1	1	1	...	1	...	...	...
18. Psychoneuroses and Neuroses....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19. With Psychopathic Personality..	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20. With Mental Deficiency.....	14	14	28	...	1	1	...	1	1	1	...	1	1	...	1
21. Undiagnosed Psychoses.....	2	4	6	2	2	4	...	...	...	1	1	...	...	...	...
22. Without Psychoses.....	35	34	69	3	1	4	2	2	4	3	3	6	3	2	5
Total.....	337	388	725	51	48	99	48	34	82	24	41	65	14	22	36

No. 18

the various institutions of patients who died during the current year.

1-2 Years			3-4 Years			5-6 Years			7-8 Years			9-10 Years			11-12 Years			13-14 Years			15-19 Years			20 Years and Over		
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
17	16	33	8	15	23	5	5	10	2	4	6	2	4	6	...	...	...	...	...	...	1	6	7	1	13	15
3	3	6	3	1	4	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...
8	3	11	7	1	8	1	1	...	1	1	...	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...
2	2	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	3	7	4	3	7	1	3	4	2	2	2	1	1	1	1	1	2	1	1	1	1	1	2	4	5	9
2	2	4	...	...	...	1	1	...	...	...	...	2	2	...	1	1	...	...	...	...	...	...	...	...	...	...
11	10	21	3	4	7	4	3	7	8	9	17	12	13	25	1	2	3	3	5	8	4	7	11	18	28	46
1	1	1	...	...	...	1	1	2	1	1	2	1	1	2	1	3	4	1	1	1	2	2	3	1	2	3
4	3	7	1	1	2	1	1	2	1	1	2	1	1	2	1	3	4	1	1	1	1	2	3	1	2	3
2	6	8	...	...	...	1	3	1	1	1	2	2	2	1	1	1	1	1	1	1	2	3	5	1	5	1
6	4	10	2	4	6	3	1	4	4	1	5	4	1	5	...	...	...	2	2	4	1	1	2	2	12	14
60	58	118	29	29	58	18	17	35	19	16	35	21	25	46	3	8	11	6	9	15	11	19	30	33	62	95

TABLE No. 19

Shows the Abnormal Conditions in relatives of first admissions, classified with reference to principal psychoses.

Psychoses	Total No.	Psy- choses	Neu- roses	Men- tal Defi- ciency	Suici- dal At- tempts	Psy- cho- pathic Per- son- ality	Alco- hol, Drugs, etc.	Un- ascer- tained	Denied
1. Traumatic Psychoses.....	6							3	3
2. Senile Psychoses.....	201	26	2	2	1		6	48	116
3. Psychoses with Cerebral Arteriosclerosis.....	79	10		1	1		2	12	53
4. General Paralysis.....	111	8	1				2	49	51
5. Psychoses with Cerebral Syphilis.....	4						1	2	1
6. Psychoses with Hunting- ton's Chorea.....	5	3							2
7. Psychoses with Brain Tumour.....									
8. Psychoses with other Brain or Nervous Diseases...	26	3	1	1			1	3	17
9. Alcoholic Psychoses.....	42							13	29
10. Psychoses due to Drugs and other Exogenous Toxins.....	3							2	1
11. Psychoses with Pellagra..	1								1
12. Psychoses with other Somatic Diseases.....	57	12	3	1	1		1	11	28
13. Manic-depressive Psy- choses.....	185	44	7	2			4	30	98
14. Involuntional Melancholia.	86	15	4					14	53
15. Dementia Praecox (Schizo- phrenia).....	580	123	15	4	3	1	9	123	302
16. Paranoia or Paranoid Con- ditions.....	33	3	1				1	10	18
17. Epileptic Psychoses.....	45	5	1	1			1	10	27
18. Psychoneuroses and Neu- roses.....	30	6	3				2	3	16
19. Psychoses with Psycho- pathic Personality.....	11	2		1				4	4
20. Psychoses with Mental Deficiency.....	68	6	1	7	1		4	14	35
21. Undiagnosed Psychoses...	36	6		1				10	19
22. Without Psychoses.....	250	16	6	37	4		11	66	110
Total.....	1,859	288	45	58	11	1	45	427	984

TABLE No. 20

To those interested in the matter of the Religion of the patients, this table furnishes a classification under the church headings, for admissions of the year, the total number in residence, and admissions since the opening of the Hospitals.

Religion	Admissions of Year			In Residence			Admissions Since Opening		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Baptists.....	56	60	116	255	272	527	1,543	1,714	3,257
Congregationalists....	1	1	2	7	11	18	62	55	117
Episcopalians.....	247	214	461	898	982	1,880	7,746	7,696	15,442
Jews.....	28	24	52	78	89	167	196	200	396
Presbyterians.....	155	162	317	702	849	1,551	6,606	6,651	13,257
Roman Catholics.....	316	229	545	1,241	1,014	2,255	8,302	7,158	15,460
United Church.....	268	246	514	955	1,195	2,150	7,929	8,355	16,284
Other Denominations..	133	173	306	537	580	1,117	3,630	3,000	6,630
Unascertained.....	89	67	156	407	318	725	2,029	1,394	3,423
Total.....	1,293	1,176	2,469	5,080	5,310	10,390	38,043	36,223	74,266

TABLE No. 21

This table should prove interesting in the study of the Vocations of the patients admitted during the current year. It will be noted that the mechanical class has been divided as between outside and inside work.

Occupation	Admitted this Year		
	Male	Female	Total
Professional:			
Clergy, military and naval officers, physicians, lawyers, architects, artists, authors, civil engineers, surveyors, etc.....	44	1	45
Commercial:			
Bankers, merchants, accountants, clerks, salesmen, stenographers, typewriters, etc.....	140	47	187
Agricultural and Pastoral:			
Farmers, gardeners, stockmen, etc.....	204	.....	204
Mechanics at Outdoor Vocations:			
Railway and stationary engineers, blacksmiths, carpenters, engine fitters, sawyers, painters, police, etc.....	118	.....	118
Mechanics, etc., at Sedentary Vocations:			
Shoemakers, bookbinders, compositors, weavers, tailors, seamstresses, bakers, factory workers, etc.....	109	31	140
Domestic Service:			
Waiters, cooks, servants, etc.....	24	240	264
Education and Higher Domestic Duties:			
Governesses, teachers, students, housekeepers, nurses, etc.....	19	464	483
Miners, Marine Engineers, Railway Employees, Seamen, etc.....	24	.....	24
Labourers.....	391	.....	391
No occupation.....	213	392	605
Unascertained.....	7	1	8
Total.....	1,293	1,176	2,469

TABLE No. 22

Showing the Counties and Districts from which patients have been admitted during the year, and since the opening of the Hospitals.

Counties and Districts	Admitted during Year			Admitted since Opening			Remaining in Residence		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Algoma District.....	16	13	29	368	276	644	184	123	307
Brant.....	17	17	34	519	557	1,076	37	76	113
Bruce.....	12	15	27	539	513	1,052	68	69	137
Carleton.....	53	58	111	1,430	1,492	2,922	233	240	473
Cochrane.....	11	12	23	66	35	101	35	14	49
Dufferin.....	6	8	14	135	178	313	13	36	50
Dundas.....	5	7	12	249	224	473	22	21	43
Durham.....	14	8	22	414	403	817	38	41	79
Elgin.....	13	24	37	540	540	1,080	52	70	122
Essex.....	67	27	94	822	749	1,571	160	148	308
Frontenac.....	28	28	56	1,117	1,010	2,127	82	74	156
Glengarry.....	8	3	11	289	266	555	32	22	54
Grenville.....	10	3	13	326	305	631	37	14	51
Grey.....	14	8	22	683	588	1,271	105	86	191
Haldimand.....	8	5	13	282	263	545	28	28	56
Haliburton.....	5	2	7	20	20	40	15	6	21
Halton.....	1	8	9	206	309	515	18	28	46
Hastings.....	23	19	42	752	706	1,458	102	90	192
Huron.....	11	13	24	656	692	1,348	67	73	140
Kenora.....	2	4	6	28	38	66	8	12	20
Kent.....	21	11	32	571	545	1,116	71	66	137
Lambton.....	17	14	31	733	636	1,369	73	69	142
Lanark.....	15	14	29	525	513	1,038	65	58	123
Leeds.....	24	16	40	617	606	1,223	54	92	146
Lennox and Addington.....	7	7	14	389	349	738	40	34	74
Lincoln.....	11	14	25	493	454	947	60	57	117
Manitoulin.....	1	1	2	34	30	64	12	12	24
Middlesex.....	67	62	129	1,931	1,825	3,756	200	253	453
Muskoka District.....	5	5	10	198	162	360	48	56	104
Nipissing District.....	17	11	28	463	271	734	64	42	106
Norfolk.....	7	13	20	299	348	647	29	52	81
Northumberland.....	12	7	19	520	583	1,103	74	79	153
Ontario.....	23	25	48	779	745	1,524	77	82	159
Oxford.....	17	6	23	679	565	1,244	63	64	127
Parry Sound District.....	11	8	19	220	168	388	41	34	75
Peel.....	2	6	8	328	392	720	13	39	52
Perth.....	9	17	26	627	601	1,228	71	72	143
Peterborough.....	12	16	28	474	541	1,015	58	80	138
Prescott.....	12	2	14	265	241	506	58	48	106
Prince Edward.....	1	1	2	212	199	411	24	18	42
Rainy River District.....	3	1	4	111	65	176	18	15	33
Renfrew.....	14	11	25	451	467	918	63	73	136
Russell.....	5	3	8	153	127	280	32	32	64
Simcoe.....	34	26	60	1,132	991	2,123	129	125	254
Stormont.....	15	9	24	408	353	761	42	46	88
Sudbury.....	13	8	21	136	94	230	41	34	75
Temiskaming.....	20	3	23	216	106	322	53	32	85
Thunder Bay District.....	25	11	36	380	256	636	66	57	123
Victoria.....	21	17	38	538	514	1,052	66	67	133
Waterloo.....	14	22	36	568	621	1,189	81	112	193
Welland.....	16	16	32	504	538	1,042	89	90	179
Wellington.....	22	19	41	780	797	1,577	92	110	202
Wentworth.....	66	66	132	2,244	2,229	4,473	280	303	583
York.....	401	422	823	9,800	9,884	19,684	1,391	1,570	2,961
Unascertained.....	5	2	7	664	193	857	44	25	69
Other Provinces.....	4	2	6	160	50	210	61	41	102
Total.....	1,293	1,176	2,469	38,043	36,223	74,266	5,080	5,310	10,390

ANNUAL DENTAL REPORT

At each hospital a dental clinic is held for a certain number of days each week, and the following table shows the various dental operations carried on at the different hospitals during the year, including Burwash, Guelph, Boys' Training School, Bowmanville, and the Mercer Reformatory.

	MENTAL HOSPITALS													Reformatories					Totals
	Brockville, Dr. Woodrow	Cobourg, Dr. Kerr	Hamilton, [†] Dr. Kappale	Kingston, Dr. Renton	London, Dr. Smyth	Mimico, Dr. Hall	Orilla, Dr. Seymour	Penetang, Dr. King	Toronto, Dr. Hodgins	Whitby, Dr. Beaton	Woodstock, Dr. Heath	Reception, Dr. Hodgins	Burwash, Dr. Brownlee	Guelph, Dr. Wing	Mercer, Dr. Black	Bowmanville, Dr. Bonnycastle			
Number of patients during the year.....	1,137	458	1,535	1,034	1,787	881	1,569	429	1,306	2,006	231	857	2,428	128	354	281	16,421		
Number of half days.....	47	51	74	98	156	157	247	24	156	154	47	51	*47	31	52	54	1,446		
Number of patients examined...	634	458	414	900	963	494	980	320	1,126	2,006	231	425	730	52	354	281	10,368		
Public charge, patients treated.	402	414	193	592	437	428	798	143	317	528	67	301	668	49	253	281	5,871		
Private charge, patients treated.	25	43	196	38	379	6	82	69	10	572	59	44	62	.....	.....	.....	1,585
X-rays.....	85	.....	.....	.....	.....	.....	.....	.....	.....	207	.....	.....	.....	.....	.....	.....	292
Extractions.....	431	337	222	457	1,681	735	757	269	425	1,212	98	41	663	19	212	143	7,702		
General anaesthetics.....	47	5	.....	1	223	.....	21	.....	34	.....	.....	.....	7	.....	.....	.....	339
Local anaesthetics.....	59	149	156	443	.....	235	490	103	253	1,212	98	39	.....	.....	212	143	3,592
Amalgam and cement fillings...	223	42	242	270	167	126	605	11	173	239	111	6	263	33	357	442	3,310		
Pyorrhoea treatments.....	44	5	184	100	96	194	434	92	180	455	117	18	68	1	42	2	1,990		
Other treatments.....	6	.....	237	600	.....	41	241	1	359	58	122	20	14	6	.....	.....	1,874
Prophylaxis.....	117	608	120	237	53	432	836	1	352	370	44	53	53	.....	5	178	3,459	
Replacements.....	16	.....	6	10	.....	14	34	.....	25	1	5	.....	24	.....	2	11	148
Dentures repaired.....	20	6	14	13	18	20	35	12	30	16	9	2	14	6	3	3	221		
Other work.....	35	8	2	691	.....	5	28	.....	70	.....	11	.....	.....	4	.....	91	945

*Burwash—Full days.

†Hamilton—Ten months only.

PER CAPITA COST STATEMENT

The foregoing tables have dealt with the various classifications of the patients, but the report would be incomplete without information as to the cost of operations of the various hospitals.
The following table shows the per capita cost of maintaining each patient per day and is shown divided under the different items of expenditure.

Items	Brockville	Cobourg	Hamilton	Kingston	London	Mimico	Orillia	Penetang	Toronto	Whitby	Woodstock
Medicines.....	cents 2.28	cents 1.12	cents 1.45	cents 1.92	cents 1.77	cents 1.80	cents 1.22	cents 1.48	cents 1.60	cents 1.65	cents 4.31
Provisions.....	19.03	18.74	23.41	24.58	19.04	20.16	20.74	17.96	23.36	22.36	19.93
Fuel, light and water.....	10.80	10.95	12.02	15.96	8.47	12.24	7.98	9.45	10.56	12.04	15.88
Clothing.....	5.65	3.82	3.15	5.50	4.68	4.10	4.61	4.96	4.31	6.43	1.49
Laundry and cleaning.....	1.97	1.40	1.39	2.35	2.11	3.39	2.06	1.48	2.63	2.85	2.51
Furniture and furnishings.....	6.03	5.63	3.85	3.73	5.26	6.97	3.89	2.34	7.09	5.94	2.25
Office expense.....	.45	.29	.39	.38	.42	.44	.39	.50	.33	.72	1.29
Allowances.....	9.76	7.39	11.40	11.50	6.51	9.90	6.18	6.88	7.84	8.43	10.56
Feed and fodder.....	6.02	.....	4.25	1.99	3.97	.20	2.48	3.74	.12	3.23	11.59
Farm expense.....	2.18	.65	1.04	1.30	2.05	.98	1.06	1.52	.41	1.78	7.52
Contingencies.....	2.07	1.44	1.62	1.67	1.16	1.63	1.24	1.78	1.09	1.09	3.55
Salaries.....	62.45	33.25	53.86	60.90	54.45	63.39	44.92	51.87	49.64	48.69	87.62
Total gross per Capita.....	128.69	84.68	117.83	131.78	109.89	125.20	96.77	102.96	108.98	115.21	168.50
Less Recoveries.....	40.94	17.17	46.92	31.67	43.22	38.94	25.68	28.55	30.41	45.16	91.08
Net per Capita cost.....	87.75	67.51	70.91	100.11	66.67	86.26	71.09	74.41	78.57	70.05	77.42
Repairs to Buildings Expense.....	12.28	13.11	14.12	11.22	25.42	78.81	12.17	14.20	12.88	8.68	13.67
Total per Capita payable by Province.....	100.03	80.62	85.03	111.33	92.09	165.07	83.26	88.61	91.45	78.73	91.09

SIXTY-FIRST ANNUAL REPORT

OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES

UPON THE

Hospitals and Charitable Institutions

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR WHICH ENDED 30th SEPTEMBER

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

SESSIONAL PAPER No. 17, 1931



ONTARIO

TORONTO

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1931

Hospitals and Charitable Institutions

The Sixty-first Annual Report upon the Hospitals and Charitable Institutions of the Province of Ontario for the year which ended September 30th, 1930, is presented herein.

The Governing Board of each institution listed is respectfully requested to compare the annual report of their institution with those of others of the same capacity.

An explanatory note accompanies each table showing the information that may be derived therefrom.

There are operating at the present time, in the Province of Ontario, 340 Hospitals and Charitable Institutions, classified as follows:

118 Public Hospitals.	3 Convalescent Homes.
21 Red Cross Outposts.	34 Orphanages.
6 Hospitals for Incurables.	31 County Houses of Refuge.
10 Public Sanatoria.	70 Private Hospitals.
40 City Refuges.	2 Private Sanatoria.
3 District Houses of Refuge.	2 Private Sanitaria (Nervous and Mental).

The above institutions are subject to provincial inspection and with the exception of County Houses of Refuge and Private institutions, are in receipt of provincial aid, pursuant to the provisions of The Hospitals and Charitable Institutions Act, c. 359, R.S.O. 1927.

During the current hospital year three new Public Hospitals have been designated to receive provincial aid and are as follows:

1. Misericorde Hospital, Haileybury.
2. Mindemoya Hospital, Mindemoya.
3. General Hospital, Palmerston.

All institutions have received as far as possible, official visits of inspection during the year, and those entitled to receive provincial aid in accordance with the Statutes have shared in the grants voted by the Legislature.

COMPARATIVE STATEMENT SHOWING GROWTH OF HOSPITAL SERVICE IN THE PROVINCE
DURING THE PAST THREE DECADES

	Number in operation	Capacity in Beds (including nursery cots)	Number of patients under treatment, in- cluding infants born	Total collective days' stay of adults and infants born	Total maintenance expenditure	Average per diem cost (does not include reserves and doubtful accounts)	Number of deaths	Number of births	Percentage of accommo- dation used during the year	Provincial grants for maintenance of patients	Income from all other sources.
GENERAL HOSPITALS:	1910	5,523	52,321	1,050,905	\$1,265,216 69	1.20	3,143	2,751	52%	\$139,611 36	\$1,172,804 65
	1920	8,149	130,382	1,945,310	5,692,673 91	2.95	6,663	11,924	65%	346,150 30	5,334,378 08
	1930	118	12,685	215,623	2,959,183	10,803,304 34	3.66	10,882	24,901	64%	956,835 30	10,886,324 11
SANATORIA	1910	7	522	1,371	173,423 20	1.35	201	....	67%	41,465 33	130,296 15
	1920	9	1,482	3,122	1,169,413 83	3.36	290	....	65%	182,161 25	775,938 31
	1930	10	2,363	4,279	768,222	1,707,315 45	2.22	418	8	89%	529,036 50	1,542,719 34
INCURABLES	1920	4	376	471	209,423 69	1.42	76	....	91%	43,818 50	181,718 06
	1930	6	777	1,049	524,281 28	2.16	197	....	85%	148,938 40	460,395 83

CONSOLIDATED STATEMENT GIVING CERTAIN STATISTICAL AND
FINANCIAL INFORMATION

	Public Hospitals	Red Cross Hospitals	Sanatoria for Con- sumptives	Hospitals for Incurables	Totals
Adult Bed capacity.....	11,020	158	2,363	777	14,318
Nursery Cots.....	1,665	43	.....	.....	1,708
Average number of beds per 1,000 population.....	.....	.....	.....	.....	4.9
Number of patients in residence on October 1, 1929.....	7,307	84	1,948	685	10,024
Number of patients admitted during the year.....	183,415	2,605	2,323	364	188,707
Number of births during the year.....	24,901	441	8	.....	25,350
Total number under treatment during the year.....	215,623	3,130	4,279	1,049	224,081
Number of patients discharged during the year.....	196,809	2,914	1,668	119	201,510
Number of deaths during the year....	10,882	122	418	197	11,619
Number of patients remaining in resi- dence September 30, 1930.....	7,932	94	2,193	733	10,952
Employees on payrolls, September 30th, 1930, classified as follows:					
Graduate nurses.....	1,006	49	165	38	1,258
Pupil nurses.....	3,240	.....	114	81	3,435
Probationers.....	833	.....	7	26	866
Other Graduate staff.....	347	.....	43	6	396
Orderlies.....	283	11	79	24	397
All other employees.....	3,739	31	680	202	4,652
TOTAL NUMBER OF EMPLOYEES.....	9,448	91	1,088	377	11,004
Total collective days' stay of adults and infants.....	2,959,183	30,226	768,222	242,542	4,000,173
OPERATING REVENUE:					
Income from patients for maintenance and treatment, and miscellaneous..	\$7,985,135 13	\$79,186 03	\$452,156 39	\$105,455 88	\$8,621,933 43
Income from Municipalities for main- tenance of patients, and Clinics....	1,754,498 77	962 75	824,995 17	286,133 81	2,866,590 50
Grants from Government for main- tenance of patients.....	956,835 30	15,111 70	529,036 50	148,938 40	1,649,921 90
TOTAL OPERATING REVENUE.....	10,696,469 20	95,260 48	1,806,188 06	540,528 09	13,138,445 83
NON-OPERATING REVENUE:					
Income from Investments, Endow- ments, etc.....	254,387 37	.....	123,920 86	16,629 62	394,937 85
Income from Donations and Bequests, and other gratuitous income.....	789,926 34	55,958 63	141,646 92	52,176 52	1,039,708 41
Special grants for buildings, new equip- ment, etc.....	102,376 50	.....	.....	.....	102,376 50
TOTAL NON-OPERATING REVENUE.....	1,146,690 21	55,958 63	265,567 78	68,806 14	1,537,022 76
TOTAL REVENUE:.....	11,843,159 41	151,219 11	2,071,755 84	609,334 23	14,675,468 59
OPERATING EXPENSE:					
Total cost of Diets.....	2,513,848 39	26,130 63	501,014 26	123,660 95	3,164,654 23
Total cost of Salaries.....	4,315,892 33	74,026 46	673,769 95	198,764 53	5,262,453 27
Other maintenance costs.....	3,973,563 62	33,775 78	532,531 24	201,855 80	4,741,726 44
TOTAL OPERATING EXPENSE.....	10,803,304 34	133,932 87	1,707,315 45	524,281 28	13,168,833 94
Average per diem cost of each adult patient.....	4.03	5.21	2.23	2.16	.....
Average per diem cost of each patient, including infants.....	3.66	4.43	2.22	.....	.....

No provision is made in these figures for reserves for depreciation on buildings, plant and equipment, and for bad and doubtful accounts.

H. M. ROBBINS,
Deputy Provincial Secretary.

A. L. McPHERSON,
Inspector of Hospitals and Charitable Institutions

TABLE No. I.—Showing the bed capacity, both adult and nursery, together with the movements in each hospital separately.

GENERAL HOSPITALS

Name of Hospital	Location	Number of Adult Beds	Number of Nursery Cots	Number remaining under treatment Oct. 1st, 1929	Number admitted during year ending Sept. 30th, 1930	Number of Births during year	Total number of patients treated during year	Number of patients discharged during year	Number of deaths	Number remaining in residence on Sept. 30th, 1930
Group 1, Bed Capacity, 1 to 25										
Stevenson Memorial	Alliston	21	5	10	310	48	368	339	19	10
Rcsamond Memorial	Almonte	20	6	14	315	90	419	385	17	17
General Hospital	Bowmanville	20	6	10	341	86	437	398	27	12
Peel Memorial Hospital	Brampton	23	6	19	363	128	510	473	22	10
Public Hospital	Clinton	20	6	9	205	41	255	233	12	15
Haldimand War Memorial	Dunnville	21	7	13	358	45	416	379	23	14
Red Cross Memorial	Durham	25	8	2	234	50	286	264	16	6
Royal Alexandra Hospital	Fergus	23	7	17	399	49	465	421	34	10
Misericorde Hospital	Haileybury	15	4	6	268	3	277	262	8	7
Memorial Hospital	Hanover	20	4	7	282	37	326	308	10	8
Notre Dame Hospital	Hawkesbury	16	3	10	336	12	358	329	18	11
St. Paul's Hospital	Hearst	13	4	11	286	54	351	341	9	1
Alexandra Hospital	Ingersoll	25	5	8	260	68	336	305	23	8
General Hospital	Kincardine	23	9	30	283	79	392	360	14	18
Memorial Hospital	Listowel	18	6	9	362	46	417	393	13	11
Rosedale Memorial Hospital	Matheson	9	4	0	99	31	130	122	5	3
Mindemoya Hospital	Mindemoya	8	0	0	56	0	56	54	1	1
Louise Marshall Hospital	Mount Forest	16	5	3	144	45	192	169	11	12
Cottage Hospital	Niagara-on-Lake	11	4	7	152	16	175	162	11	2
General Hospital	Palmerston	8	2	1	131	20	152	140	8	4
Willett Hospital	Paris	16	5	7	386	75	468	425	28	15
General Hospital	Penetang	17	4	11	293	42	346	314	21	11
Seaforth Memorial Hospital	Seaforth	15	2	8	11	19	19	19	0	0
General Hospital	Sioux Lookout	22	4	11	533	49	593	555	16	22
Presbyterian Hospital	So. Porcupine	10	2	8	138	25	171	160	7	4
Soldiers' Memorial Hospital	Tillsonburg	22	9	10	348	61	419	361	38	20
General Hospital	Wingham	20	5	6	197	41	244	216	19	9
Totals (of Group 1)		477	128	247	7,090	1,241	8,578	7,887	430	261
Group 2, Bed capacity, 26 to 50										
Royal Victoria Hospital	Barrie	43	9	24	694	93	811	728	53	30
Lady Minto Hospital	Chapleau	34	4	20	447	38	505	469	16	20
Cobalt Mines Hospital, Ltd.	Cobalt	26	2	9	354	1	364	336	13	15
General Hospital	Cobourg	34	6	11	573	75	659	612	33	14
Alexandra Marine and General	Goderich	27	8	9	328	57	394	352	26	16
Anson General Hospital	Iroquois Falls	28	6	11	535	43	589	555	20	14
General Hospital	Kenora	50	6	27	675	61	763	709	29	25
Ross Memorial Hospital	Lindsay	35	8	26	859	125	1,010	924	55	31
Bethesda Hospital	London	50	23	20	230	202	452	424	15	13
General Hospital	Mattawa	34	2	15	353	11	379	331	15	33
St. Andrew's Hospital	Midland	37	8	23	658	102	783	717	41	25
York County Hospital	Newmarket	34	7	11	499	113	623	570	34	19
Queen Victoria Memorial	North Bay	42	7	31	1,267	105	1,403	1,298	71	34
Lord Dufferin Hospital	Orangeville	33	7	23	466	35	524	471	40	13
J. R. Stone Memorial	Parry Sound	30	5	10	350	50	410	399	11	0
St. Joseph's General Hospital	"	28	10	10	384	65	459	429	17	13
Cottage Hospital	Pembroke	50	6	32	896	67	995	910	58	27
Great War Memorial	Perth	34	6	33	652	95	780	694	61	25
C. E. Englehart Hospital	Petrolia	28	7	22	457	78	557	485	45	27
Prince Edward County	Pictou	35	6	12	325	52	389	363	13	13
General Hospital	Port Hope	45	6	12	655	102	769	716	36	17
Victoria Hospital	Renfrew	50	8	19	741	73	833	757	39	37
Plummer Memorial Hospital	Sault Ste. Marie	47	9	11	711	90	812	754	24	34
Norfolk General Hospital	Simcoe	36	10	29	972	202	1,203	1,119	53	31
Public Hospital	Smith's Falls	50	0	31	694	94	819	761	37	21
St. Francis General Hospital	"	36	7	29	384	53	466	419	23	24
Breuf Hospital	Sturgeon Falls	26	2	7	228	18	253	224	23	6
General Hospital	Strathroy	44	6	25	472	67	564	507	41	16
Lockwood Clinic	Toronto	45	0	16	1,346	0	1,362	1,311	15	36
Mount Sinai Hospital	"	30	12	19	1,191	282	1,492	1,439	36	17
Orthopedic Hospital	"	35	0	23	824	0	847	819	4	24
General Hospital	Walkerton	31	6	6	365	48	419	378	25	16
Totals		1,187	209	606	19,585	2,497	22,688	20,980	1,022	686

TABLE No. I.—Showing the bed capacity, both adult and nursery, together with the movements in each hospital separately.—Continued.

GENERAL HOSPITALS—Continued										
Name of Hospital	Location	Number of Adult Beds	Number of Nursery Cots	Number remaining under treatment Oct. 1st, 1929	Number admitted during year ending Sept. 30th, 1930	Number of Births during year	Total number of patients treated during year	Number of patients discharged during year	Number of deaths	Number remaining in residence of Oct. 31st, 1930
Group 3, Bed capacity, 51 to 100										
General Hospital.	Brockville	100	11	62	1,334	150	1,546	1,406	70	70
St. Vincent de Paul Hospital.	"	72	8	41	1,001	94	1,136	1,020	57	59
Public General Hospital.	Chatham	88	12	48	1,382	183	1,613	1,451	94	68
St. Joseph's Hospital.	"	80	12	49	1,210	187	1,446	1,294	107	45
Lady Minto Hospital.	Cochrane	56	8	37	601	59	697	618	41	38
General and Marine Hospital.	Collingwood	51	9	33	654	75	762	665	53	44
General Hospital.	Cornwall	68	12	35	976	133	1,144	1,032	60	52
Hôtel Dieu Hospital.	"	86	14	70	1,571	170	1,811	1,639	98	74
General Hospital.	Galt	61	10	54	1,335	202	1,591	1,421	100	70
General Hospital.	Guelph	92	12	60	1,890	239	2,189	2,028	103	58
St. Joseph's Hospital.	"	87	13	66	1,753	147	1,966	1,789	89	88
St. Joseph's Hospital.	Kenora	57	8	17	499	68	584	535	37	12
Kitchener-Waterloo Hospital.	Kitchener	70	12	62	1,694	209	1,965	1,820	84	61
Soldiers' Memorial Hospital.	Orillia	65	13	49	1,371	106	1,526	1,403	68	55
General Hospital.	Oshawa	77	20	53	1,906	348	2,307	2,157	113	37
Protestant Children's.	Ottawa	65	.....	23	186	.....	209	187	3	19
Salvation Army Grace.	"	68	38	49	896	549	1,494	1,373	60	61
General and Marine Hospital.	Owen Sound	98	10	46	1,174	156	1,376	1,278	67	31
Nicholls Hospital.	Peterborough	80	10	58	1,659	339	2,056	1,873	106	77
St. Joseph's Hospital.	"	85	15	44	1,317	246	1,607	1,460	82	65
General Hospital.	Port Arthur	92	14	31	1,312	139	1,482	1,388	54	40
Memorial Hospital.	St. Thomas	89	18	69	1,845	245	2,159	1,968	129	62
General Hospital.	Sault Ste. Marie	72	8	46	1,168	121	1,335	1,259	55	21
General Hospital.	Stratford	80	20	58	1,498	239	1,795	1,618	90	87
St. Mary's Hospital.	Timmins	69	6	36	998	55	1,089	993	58	38
St. John's Hospital.	Toronto	67	2	45	1,814	.....	1,859	1,774	42	43
S.A. Women's Hospital.	"	53	41	43	1,389	902	2,334	2,223	51	60
Women's College Hospital.	"	60	35	52	1,166	536	1,754	1,623	46	85
Wellesley Hospital.	"	86	16	72	2,601	353	3,026	2,885	82	59
Welland County Hospital.	Welland	56	7	33	1,203	130	1,366	1,213	107	46
General Hospital.	Woodstock	61	12	44	1,098	173	1,315	1,204	72	39
Totals.	.....	2,291	426	1,485	40,501	6,553	48,539	44,597	2,278	1,664
Group 4—Bed Capacity, 101 to 200										
General Hospital.	Belleville	105	16	78	2,405	308	2,791	2,568	125	98
General Hospital.	Brantford	162	20	146	3,022	511	3,679	3,287	235	157
McKellar General Hospital.	Fort William	200	20	117	3,074	351	3,542	3,310	126	106
St. Joseph's Hospital.	Hamilton	160	25	116	3,565	539	4,220	3,912	178	130
Hôtel Dieu Hospital.	Kingston	160	15	104	2,031	189	2,324	2,128	103	93
St. Mary's Hospital.	Kitchener	116	21	67	1,857	243	2,167	2,009	91	67
St. Joseph's Hospital.	London	142	18	119	3,032	428	3,579	3,284	161	134
General Hospital.	Niagara Falls	110	18	54	1,340	172	1,566	1,411	89	66
Misericordia General Hospital.	Ottawa	107	28	8	1,370	330	1,708	1,592	74	42
General Hospital.	Pembroke	94	10	42	1,237	63	1,342	1,231	57	54
St. Joseph's Hospital.	Port Arthur	149	29	70	2,152	255	2,477	2,277	122	78
General Hospital.	St. Catharines	137	18	70	2,522	372	2,964	2,726	143	95
General Hospital.	Sarnia	101	17	49	1,170	303	1,522	1,393	93	36
St. Joseph's Hospital.	Sudbury	125	18	89	2,880	283	3,252	3,020	125	107
Toronto East General Hospital.	Toronto	128	24	96	2,448	606	3,150	2,846	198	106
Metropolitan General Hospital.	Walkerville	120	32	87	2,305	622	3,014	2,765	171	78
Hôtel Dieu Hospital.	Windsor	113	19	86	2,813	310	3,209	2,939	192	78
Salvation Army Grace Hospital.	"	110	14	101	2,293	360	2,754	2,526	146	82
Totals.	.....	2,339	362	1,499	41,516	6,245	49,260	45,224	2,429	1,607
Group 5—Bed capacity, 201 and over										
General Hospital.	Hamilton	523	47	385	9,794	1,106	11,285	10,288	582	415
General Hospital.	Kingston	306	25	222	5,053	309	5,584	5,122	228	234
Victoria Hospital.	London	400	36	292	6,003	445	6,740	6,126	337	277
Civic Hospital.	Ottawa	540	60	393	8,727	791	9,911	9,082	420	409
General Hospital.	"	308	36	201	5,162	247	5,610	5,226	184	200
General Hospital.	Toronto	1,032	175	736	13,123	2,108	15,967	14,213	925	829
Hospital for Sick Children.	"	387	.....	347	6,623	.....	6,970	5,875	700	395
St. Joseph's Hospital.	"	250	24	114	2,718	406	3,238	2,919	203	116
St. Michael's Hospital.	"	552	58	375	8,610	1,109	10,094	9,097	569	428
Western and Grace Hospital.	"	428	79	405	8,910	1,844	11,159	10,173	575	411
Totals.	.....	4,726	540	3,470	74,723	8,365	86,558	78,121	4,723	3,714
Grand Totals.	.....	11,020	1,665	7,307	183,415	24,901	215,623	196,809	10,882	7,932

TABLE No. II.—Showing the collective stay in days of the patients admitted and infants born in the hospital, also the average stay in days each patient was under treatment.

GENERAL HOSPITALS—Continued

Name of Hospital	Location	Number of patients including infants born during year.	Total collective days' stay of adults treated during year.	Total collective days' stay of infants born during year.	Total collective days' stay of all patients during year.	Average days' stay of all patients, including infants.	Number of graduate and professional staff	Number of other employees, including nurses-in-training.
Group 1—Bed capacity, 1 to 25								
Stevenson Memorial	Alliston	368	2,828	486	3,314	9	5	5
Rosamond Memorial	Almonte	419	4,016	967	4,983	12	7	3
General Hospital	Bowmanville	437	4,537	898	5,435	12	2	14
Peel Memorial Hospital	Brampton	510	4,415	1,493	5,908	12	5	9
Public Hospital	Clinton	255	2,345	498	2,843	11	1	11
Haldimand War Memorial	Dunnville	416	3,573	505	4,078	10	6	3
Red Cross Memorial	Durham	286	2,806	544	3,350	11	2	10
Royal Alexandra Hospital	Fergus	465	5,884	826	6,710	15	1	21
Misericorde Hospital	Haileybury	277	2,463	16	2,479	9	2	4
Memorial Hospital	Hanover	326	2,689	436	3,125	10	2	12
Notre Dame Hospital	Hawkesbury	358	3,726	128	3,854	11	2	10
St. Paul's Hospital	Hearst	351	3,311	482	3,793	11	4	5
Alexandra Hospital	Ingersoll	336	3,364	719	4,083	12	2	10
General Hospital	Kincardine	392	3,279	1,005	4,284	10	4	10
Memorial Hospital	Listowel	417	4,038	509	4,547	11	4	9
Rosedale Memorial Hospital	Matheson	130	1,273	320	1,593	12	3	3
Mindemoya Hospital	Mindemoya	56	676	.....	676	12	1	4
Louise Marshall Hospital	Mount Forest	192	2,704	478	3,182	17	2	6
Cottage Hospital	Niagara-on-the-Lake	175	1,902	236	2,138	12	3	3
General Hospital	Palmerston	152	682	198	880	6	1	3
Willett Hospital	Paris	468	6,002	880	6,882	15	6	6
General Hospital	Penetang	346	2,967	446	3,413	10	2	11
Memorial Hospital	Seaforth	19	158	.....	158	8	1	9
General Hospital	Sioux Lookout	593	5,980	449	6,429	11	6	6
Presbyterial Hospital	South Porcupine	171	1,361	232	1,593	9	3	3
Soldiers' Memorial Hospital	Tillsonburg	419	5,321	548	5,869	14	7	9
General Hospital	Wingham	244	2,994	418	3,412	14	2	8
Totals		8,578	85,294	13,717	97,041	20	86	207
Group 2—Bed capacity, 26 to 50								
Royal Victoria Hospital	Barrie	811	12,003	1,130	13,133	16	3	25
Lady Minto Hospital	Chapleau	505	6,626	370	6,996	14	5	4
Cobalt Mines Hospital, Ltd.	Cobalt	364	4,214	15	4,229	12	3	9
General Hospital	Cobourg	659	4,968	816	5,784	9	3	19
Alexandra Marine and Gen.	Goderich	394	3,434	824	4,258	11	2	14
Anson General Hospital	Iroquois Falls	589	5,717	462	6,179	10	8	10
General Hospital	Kenora	763	14,822	573	15,395	20	4	16
Ross Memorial Hospital	Lindsay	1,010	9,450	1,216	10,666	11	5	23
Bethesda Hospital	London	452	4,803	2,944	7,747	17	8	11
General Hospital	Mattawa	379	7,892	131	8,023	21	4	17
St. Andrew's Hospital	Midland	783	8,056	916	8,972	11	3	21
York County Hospital	Newmarket	623	6,010	1,245	7,255	12	4	18
Queen Victoria Memorial	North Bay	1,403	11,425	938	12,363	8	3	30
Lord Dufferin Hospital	Orangeville	524	7,340	452	7,792	14	3	22
J. R. Stone Memorial	Pary Sound	410	4,634	553	5,187	13	2	14
St. Joseph's General Hospital	"	459	3,600	644	4,244	9	2	13
Cottage Hospital	Pembroke	995	9,450	625	10,075	10	3	32
Great War Memorial	Perth	780	7,890	936	8,826	11	4	18
C. E. Englehart Hospital	Petrolia	557	7,745	778	8,523	15	4	23
Prince Edward County	Pictou	389	3,513	503	4,016	10	3	15
General Hospital	Port Hope	769	5,333	1,156	6,489	8	3	22
Victoria Hospital	Renfrew	833	9,588	1,055	10,643	13	3	28
Plummer Memorial Hospital	Sault Ste. Marie	812	6,211	917	7,128	9	3	29
Norfolk General Hospital	Simcoe	1,203	10,656	2,245	12,901	11	14	12
Public Hospital	Smith's Falls	819	9,424	869	10,293	12	4	33
St. Francis General Hospital	"	466	7,740	514	8,254	17	9	18
Brebeuf Hospital	Sturgeon Falls	253	2,770	160	2,930	11	5	2
General Hospital	Strathroy	564	7,246	659	7,905	14	3	27
Lockwood Clinic	Toronto	1,362	9,931	.....	9,931	7	21	15
Mount Sinai Hospital	"	1,492	7,858	2,170	10,028	7	5	16
Orthopedic Hospital	Toronto	874	9,314	.....	9,314	10	5	30
General Hospital	Walkerton	419	3,799	493	4,292	10	2	16
Totals		22,688	233,462	26,309	259,771	11	155	602

TABLE No. II.—Showing the collective stay in days of the patients admitted and infants born in the hospital, also the average stay in days each patient was under treatment.—Continued.

GENERAL HOSPITALS—Continued

Name of Hospital	Location	Number of patients including infants born during year.	Total collective days' stay of adults treated during year.	Total collective days' stay of infants born during year.	Total collective days stay of all patients during year.	Average days' stay of all patients, including infants.	Number of graduate and professional staff.	Number of other employees, including nurses-in-training.
Group 3—Bed capacity, 51 to 100								
General Hospital.....	Brockville.....	1,546	20,573	1,616	22,189	14	5	55
St. Vincent de Paul Hospital.....	".....	1,136	18,068	1,366	19,434	17	12	44
Public General Hospital.....	Chatham.....	1,613	21,028	2,022	23,050	14	11	63
St. Joseph's Hospital.....	".....	1,446	15,283	1,905	17,188	11	14	56
Lady Minto Hospital.....	Cochrane.....	697	14,325	670	14,995	22	5	19
General and Marine Hospital.....	Collingwood.....	762	10,512	836	11,348	15	3	34
General Hospital.....	Cornwall.....	1,144	13,191	1,595	14,786	13	7	37
Hotel Dieu Hospital.....	".....	1,811	22,400	1,788	24,188	13	13	42
General Hospital.....	Galt.....	1,591	16,470	1,975	18,445	11	6	53
General Hospital.....	Guelph.....	2,189	25,649	2,648	28,297	12	12	74
St. Joseph's Hospital.....	".....	1,966	24,979	1,595	26,574	13	10	80
St. Joseph's Hospital.....	Kenora.....	584	7,391	682	8,073	14	6	14
Kitchener-Waterloo Hospital.....	Kitchener.....	1,965	15,088	2,322	17,410	9	7	55
Soldiers' Memorial Hospital.....	Orrilla.....	1,526	16,503	1,278	17,781	12	6	43
General Hospital.....	Oshawa.....	2,307	18,637	3,055	21,692	9	5	64
Protestant Children's.....	Ottawa.....	209	6,810	.....	6,810	32	6	12
Salvation Army Grace.....	".....	1,494	11,296	7,379	18,675	12	7	44
General and Marine Hospital.....	Owen Sound.....	1,376	15,846	1,586	17,432	12	7	55
Nicholls Hospital.....	Peterborough.....	2,056	22,837	3,568	26,405	13	8	75
St. Joseph's Hospital.....	".....	1,607	21,671	3,269	24,940	15	11	62
General Hospital.....	Port Arthur.....	1,482	15,218	1,245	16,463	11	13	56
Memorial Hospital.....	St. Thomas.....	2,159	24,091	2,625	26,716	12	13	76
General Hospital.....	Sault Ste. Marie.....	1,335	13,695	1,213	14,908	11	8	46
General Hospital.....	Stratford.....	1,795	22,445	2,724	25,169	14	9	61
St. Mary's Hospital.....	Timmins.....	1,089	16,700	669	17,369	16	10	52
St. John's Hospital.....	Toronto.....	1,859	18,407	.....	18,407	9	7	92
S. A. Women's Hospital.....	".....	2,334	13,635	10,881	24,516	10	13	45
Women's College Hospital.....	".....	1,754	15,005	7,241	22,246	13	12	59
Wellesley Hospital.....	".....	3,026	27,728	4,544	32,272	10	11	139
Welland County Hospital.....	Welland.....	1,366	12,946	1,170	14,116	10	5	39
General Hospital.....	Woodstock.....	1,315	14,023	1,986	16,009	12	8	39
Totals.....		48,539	532,450	75,453	607,903	13	270	1,685
Group 4—Bed capacity, 101 to 200								
General Hospital.....	Belleville.....	2,791	27,668	3,197	30,865	11	7	79
General Hospital.....	Brantford.....	3,679	48,716	6,508	55,224	15	22	138
McKellar General Hospital.....	Fort William.....	3,542	43,513	3,299	46,812	13	10	98
St. Joseph's Hospital.....	Hamilton.....	4,220	43,459	5,353	48,812	11	25	124
Hotel Dieu Hospital.....	Kingston.....	2,324	37,302	2,281	39,583	17	20	73
St. Mary's Hospital.....	Kitchener.....	2,167	21,344	2,327	23,671	11	11	61
St. Joseph's Hospital.....	London.....	3,579	41,961	5,584	47,545	13	19	121
General Hospital.....	Niagara Falls.....	1,566	17,323	1,524	18,847	12	7	50
Misericordia General.....	Ottawa.....	1,708	16,633	4,073	20,706	12	7	52
General Hospital.....	Pembroke.....	1,342	24,770	630	25,400	18	12	55
St. Joseph's Hospital.....	Port Arthur.....	2,477	26,519	2,555	29,074	12	13	65
General Hospital.....	St. Catharines.....	2,964	28,082	3,448	31,530	10	15	112
General Hospital.....	Sarnia.....	1,522	16,248	2,655	18,903	12	8	58
St. Joseph's Hospital.....	Sudbury.....	3,252	34,579	2,653	37,232	11	12	82
Toronto East General.....	Toronto.....	3,150	32,945	6,746	39,691	13	32	95
Metropolitan General.....	Walkerville.....	3,014	27,096	5,961	33,057	12	40	53
Hotel Dieu Hospital.....	Windsor.....	3,209	30,752	2,918	33,670	10	22	89
Salvation Army Grace.....	".....	2,754	28,384	3,541	31,925	11	10	89
Totals.....		49,260	547,294	65,253	612,547	12	292	1,494
Group 5—Bed Capacity, 201 and over								
General Hospital.....	Hamilton.....	11,285	135,736	12,559	148,295	13	62	469
General Hospital.....	Kingston.....	5,584	81,466	3,237	84,703	15	11	254
Victoria Hospital.....	London.....	6,740	115,657	5,729	121,386	18	46	382
Civic Hospital.....	Ottawa.....	9,911	147,501	9,928	157,429	16	38	468
General Hospital.....	".....	5,610	75,039	3,025	78,064	14	34	241
General Hospital.....	Toronto.....	15,967	269,546	26,780	296,326	19	157	920
Hospital for Sick Children.....	".....	6,970	132,718	.....	132,718	19	25	396
St. Joseph's Hospital.....	".....	3,238	40,620	4,333	44,953	14	11	137
St. Michael's Hospital.....	".....	10,094	148,569	11,922	160,491	16	68	470
Western and Grace Hospitals.....	".....	11,159	135,339	20,247	155,586	14	68	400
Totals.....		86,558	1,282,191	97,760	1,379,951	16	520	4,137
Grand Totals.....		215,623	2,680,691	278,492	2,959,183	22	1,323	8,125

TABLE No. III.—Showing the cost of maintaining the hospitals, also the average daily cost per patient.

GENERAL HOSPITALS—Continued

Name of Hospital	Location	Total collective days stay of adults.		Total collective days stay of infants.		Cost of dietaries.		Other maintenance costs.		Total maintenance costs.		Average cost of each adult patient per day.
						\$	c.	\$	c.	\$	c.	
Group 1—Bed capacity, 1 to 25												
Stevenson Memorial Hospital	Alliston	2,828	486	2,265	03	21,358	74	23,623	77	9,331	8	35
Rosamond Memorial Hospital	Almonte	4,016	967	2,471	40	12,533	17	15,004	57	17,307	62	74
General Hospital	Bowmanville	4,537	898	4,182	41	13,125	21	17,307	62	17,307	62	81
Peel Memorial Hospital	Brampton	4,415	1,493	3,278	73	12,924	44	16,203	17	16,203	17	67
Public Hospital	Clinton	2,345	498	2,290	61	7,243	27	9,533	88	9,533	88	46
Haldimand War Memorial	Dunnville	3,573	505	2,133	44	14,707	05	16,840	49	16,840	49	54
Red Cross Memorial Hospital	Durham	2,806	544	1,710	46	7,620	91	9,331	37	9,331	37	32
Royal Alexandra Hospital	Fergus	5,884	826	5,184	76	14,611	15	19,795	91	19,795	91	46
Misericorde Hospital	Halleybury	2,463	16	2,458	76	8,026	43	10,485	19	10,485	19	26
Memorial Hospital	Hanover	2,689	436	1,690	57	9,086	32	10,776	89	10,776	89	41
Notre Dame Hospital	Hawkesbury	3,726	128	2,156	49	11,341	04	13,497	53	13,497	53	62
St. Paul's Hospital	Hearst	3,311	482	2,905	80	9,048	16	11,953	96	11,953	96	61
Alexandra Hospital	Ingersoll	3,364	719	2,893	27	10,988	73	13,882	00	13,882	00	13
General Hospital	Kincardine	3,279	1,005	2,383	67	11,344	33	13,728	00	13,728	00	19
Memorial Hospital	Listowel	4,038	509	2,899	74	11,443	81	14,343	55	14,343	55	35
Rosedale Memorial Hospital	Matheson	1,273	320	1,289	17	6,483	53	7,772	70	7,772	70	10
Mindemoya Hospital	Mindemoya	676	.....	915	00	3,337	00	4,252	00	4,252	00	29
Louise Marshall Hospital	Mount Forest	2,704	478	1,660	82	6,557	92	8,218	74	8,218	74	22
Cottage Hospital	Niagara-on-the-Lake	1,902	236	1,871	89	6,514	53	8,386	42	8,386	42	41
General Hospital	Palmerston	682	198	482	89	1,753	82	2,236	71	2,236	71	28
Willett Hospital	Paris	6,002	880	3,188	79	16,428	07	19,616	86	19,616	86	27
General Hospital	Pentang	2,967	446	2,597	59	8,910	75	11,508	34	11,508	34	88
Memorial Hospital	Seaforth	158	.....	1,001	11	2,084	61	3,085	72	3,085	72	53
General Hospital	Sioux Lookout	5,980	449	5,671	85	13,608	51	19,280	36	19,280	36	22
Presbyterian Hospital	South Porcupine	1,361	232	2,272	22	8,115	28	10,387	50	10,387	50	63
Soldiers' Memorial Hospital	Tillsonburg	5,321	548	3,683	81	17,010	98	20,694	79	20,694	79	89
General Hospital	Wingham	2,994	418	2,869	82	7,897	81	10,767	63	10,767	63	60
Totals		85,294	13,717	68,410	10	274,105	57	342,515	67	342,515	67	4 02
Average daily cost of each patient, including infants—		\$3.46.										
Group 2—Bed capacity, 26 to 50												
Royal Victoria Hospital	Barrie	12,003	1,130	9,590	36	20,443	02	30,033	38	30,033	38	2 50
Lady Minto Hospital	Chapleau	6,626	370	2,988	50	12,047	52	15,036	02	15,036	02	27
Cobalt Mines Hospital, Ltd.	Cobalt	4,214	15	4,435	35	16,732	74	21,168	09	21,168	09	52
General Hospital	Cobourg	4,968	816	3,246	10	14,420	74	17,666	84	17,666	84	56
Alexandra Gen. and Marine	Goderich	3,434	824	4,056	11	11,286	38	15,342	49	15,342	49	47
Anson General Hospital	Iroquois Falls	5,717	462	6,633	42	38,444	74	45,078	16	45,078	16	78
General Hospital	Kenora	14,822	573	7,172	28	17,758	05	24,930	33	24,930	33	1 89
Ross Memorial Hospital	Lindsay	9,450	1,216	9,336	66	27,538	80	36,875	46	36,875	46	3 90
Bethesda Hospital	London	4,803	2,944	5,329	06	17,928	13	23,257	19	23,257	19	4 84
General Hospital	Mattawa	7,892	131	6,872	19	21,691	08	28,563	27	28,563	27	3 62
St. Andrew's Hospital	Midland	8,056	916	3,627	78	23,063	93	26,691	71	26,691	71	3 31
York County Hospital	Newmarket	6,010	1,245	3,965	47	21,122	35	25,087	82	25,087	82	4 17
Queen Victoria Memorial	North Bay	11,425	938	11,716	65	31,497	16	43,213	81	43,213	81	3 78
Lord Dufferin Hospital	Orangeville	7,340	452	5,259	41	18,084	43	23,343	84	23,343	84	3 18
J. R. Stone Memorial Hospital	Parry Sound	4,634	553	3,050	71	8,276	29	11,327	00	11,327	00	4 44
St. Joseph's General Hospital	Parry Sound	3,600	644	3,101	47	13,621	68	16,723	15	16,723	15	4 64
Cottage Hospital	Pembroke	9,450	625	12,365	66	33,107	27	45,472	93	45,472	93	4 81
Great War Memorial Hospital	Perth	7,890	936	7,122	80	18,944	80	26,067	60	26,067	60	3 30
C. E. Englehart Hospital	Petrolia	7,745	778	3,946	98	20,775	00	24,721	98	24,721	98	3 39
Prince Edward County	Pictou	3,513	503	3,695	64	13,631	13	17,326	77	17,326	77	4 93
General Hospital	Port Hope	5,333	1,156	3,694	72	17,171	90	20,866	62	20,866	62	3 91
Victoria Hospital	Renfrew	9,588	1,055	5,446	05	16,062	66	21,508	71	21,508	71	2 24
Plummer Memorial Hospital	Sault Ste. Marie	6,211	917	7,705	78	22,445	47	30,151	25	30,151	25	4 85
Norfolk General Hospital	Simcoe	10,656	2,245	10,668	14	31,999	10	42,667	24	42,667	24	4 00
Public Hospital	Smith's Falls	9,424	869	8,378	50	24,153	16	32,531	66	32,531	66	3 45
St. Francis General Hospital	Smith's Falls	7,740	514	10,699	90	24,360	03	35,059	93	35,059	93	4 53
Brebeuf Hospital	Sturgeon Falls	2,770	160	1,396	23	7,896	94	8,693	17	8,693	17	3 14
General Hospital	Strathroy	7,246	659	6,480	65	17,250	20	23,730	85	23,730	85	3 27
Lockwood Clinic	Toronto	9,931	.....	9,939	12	62,821	68	72,760	80	72,760	80	7 33
Mount Sinai Hospital	Toronto	7,858	2,170	6,988	34	24,391	87	31,380	21	31,380	21	3 99
Orthopedic Hospital	Toronto	9,314	.....	8,271	87	27,914	92	36,186	79	36,186	79	3 88
General Hospital	Walkerton	3,799	493	3,200	32	12,719	40	15,919	72	15,919	72	4 19
Totals		233,462	26,309	200,382	22	689,002	57	889,384	79	889,384	79	3 81

Average daily cost of each patient, including infants— \$3.42.

TABLE No. III.—Showing the cost of maintaining the hospitals, also the average daily cost per patient.—*Continued.*

GENERAL HOSPITALS—Continued								
Name of Hospital	Location	Total collective days' stay of adults.	Total collective days' stay of infants.	Cost of dietaries	Other maintenance costs.	Total maintenance cost.	Average cost of each adult patient per day	
Group 3—Bed capacity, 51 to 100				\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
General Hospital	Brockville	20,573	1,616	20,400 74	48,486 28	68,887 02	3 35	
St. Vincent de Paul Hospital	Brockville	18,068	1,366	17,771 87	49,033 32	66,805 19	3 70	
Public General Hospital	Chatham	21,028	2,022	18,941 78	56,371 44	75,313 22	3 58	
St. Joseph's Hospital	Chatham	15,283	1,905	17,776 29	44,812 43	62,588 72	4 09	
Lady Minto Hospital	Cochrane	14,325	670	9,486 66	23,976 60	33,463 26	2 33	
General and Marine Hospital	Collingwood	10,512	836	9,891 92	25,190 12	35,082 04	3 34	
General Hospital	Cornwall	13,191	1,595	13,614 26	44,070 47	57,684 73	4 37	
Hotel Dieu Hospital	Cornwall	22,400	1,788	20,987 10	60,203 43	81,190 53	3 62	
General Hospital	Galt	16,470	1,975	13,852 44	38,163 26	52,015 70	3 16	
General Hospital	Guelph	25,649	2,648	23,615 97	79,962 60	103,578 57	3 85	
St. Joseph's Hospital	"	24,979	1,595	22,947 84	61,971 28	84,919 12	3 40	
St. Joseph's Hospital	Kenora	7,391	682	6,380 99	22,121 85	28,502 84	3 86	
Kitchener-Waterloo Hospital	Kitchener	15,088	2,322	17,908 17	61,411 44	79,319 61	5 26	
Soldiers' Memorial Hospital	Orillia	16,503	1,278	12,460 08	38,245 87	50,705 95	3 07	
General Hospital	Oshawa	18,637	3,055	15,208 18	54,586 06	69,794 24	3 74	
Protestant Children's Hospital	Ottawa	6,810	"	2,267 03	16,995 35	19,262 38	2 83	
Salvation Army Grace Hospital	"	11,296	7,379	9,080 37	27,763 16	36,843 53	3 26	
General and Marine Hospital	Owen Sound	15,846	1,586	14,262 01	41,994 83	56,256 84	3 55	
Nicholls Hospital	Peterborough	22,837	3,568	22,088 16	65,775 42	87,863 58	3 85	
St. Joseph's Hospital	"	21,671	3,269	13,034 84	49,777 56	62,812 40	2 90	
General Hospital	Port Arthur	15,218	1,245	11,395 52	62,511 81	73,907 33	4 86	
Memorial Hospital	St. Thomas	24,091	2,625	22,371 61	74,889 04	97,260 65	4 04	
General Hospital	Sault Ste. Marie	13,695	1,213	14,784 30	60,731 13	75,515 43	5 51	
General Hospital	Stratford	22,445	2,724	20,576 21	61,952 46	82,528 67	3 68	
St. Mary's Hospital	Timmins	16,700	669	16,270 86	72,057 83	88,328 69	5 29	
St. John's Hospital	Toronto	18,407	"	25,750 60	76,303 55	102,054 15	5 54	
S. A. Women's Hospital	Toronto	13,635	10,881	14,015 05	51,879 96	65,895 01	4 83	
Women's College Hospital	"	15,005	7,241	17,223 76	66,242 00	83,465 76	5 56	
Wellesley Hospital	"	27,728	4,544	59,947 46	126,161 29	186,108 75	6 71	
Welland County Hospital	Welland	12,946	1,170	12,342 75	34,706 74	47,049 49	3 63	
General Hospital	Woodstock	14,023	1,986	12,890 32	43,677 05	56,567 37	4 03	
Totals		532,450	75,453	529,545 14	1,642,025 63	2,171,570 77	4 08	
Average daily cost of each patient including infants				\$3.57				
Group 4—Bed capacity, 101 to 200								
General Hospital	Belleville	27,668	3,197	17,758 58	60,798 72	78,557 30	2 84	
General Hospital	Brantford	48,716	6,508	43,037 56	136,673 73	179,711 29	3 69	
McKellar General Hospital	Fort William	43,513	3,299	28,864 32	104,674 06	133,538 38	3 07	
St. Joseph's Hospital	Hamilton	43,459	5,353	53,450 07	131,476 03	184,926 10	4 25	
Hotel Dieu Hospital	Kingston	37,302	2,281	33,944 64	87,014 70	120,959 34	3 24	
St. Mary's Hospital	Kitchener	21,344	2,327	16,584 65	68,877 51	85,462 16	4 00	
St. Joseph's Hospital	London	41,964	5,584	48,889 93	104,498 09	153,188 02	3 65	
General Hospital	Niagara Falls	17,323	1,524	18,387 43	47,333 86	65,721 29	3 79	
Misericordia General Hospital	Ottawa	16,633	4,073	20,886 97	77,110 11	97,997 08	5 89	
General Hospital	Pembroke	24,770	630	26,377 39	72,245 60	98,622 99	3 98	
St. Joseph's Hospital	Port Arthur	26,519	2,555	20,307 10	64,690 37	84,997 47	3 20	
General Hospital	St. Catharines	28,082	3,448	32,909 77	94,630 72	127,021 49	4 52	
General Hospital	Sarnia	16,248	2,655	19,335 24	49,041 39	68,376 63	4 21	
St. Joseph's Hospital	Sudbury	34,579	2,653	23,447 88	92,038 38	115,486 26	3 34	
Toronto East General Hospital	Toronto	32,945	6,746	29,165 02	122,008 95	151,173 97	4 59	
Metropolitan General Hospital	Walkerville	27,096	5,961	32,236 85	138,443 45	170,680 30	6 30	
Hotel Dieu Hospital	Windsor	30,752	2,918	31,989 17	106,471 64	138,460 81	4 50	
Salvation Army Grace	"	28,384	3,541	30,116 77	98,026 95	128,143 72	4 51	
Totals		547,294	65,253	526,970 34	1,656,054 26	2,183,024 60	3 99	
Average daily cost of each patient including infants				\$3.56				
Group 5—Bed capacity, 201 and over								
General Hospital	Hamilton	135,736	12,559	129,100 44	412,850 48	541,950 92	3 99	
General Hospital	Kingston	81,466	3,237	78,941 32	154,022 10	232,963 42	2 86	
Victoria Hospital	London	115,657	5,729	109,820 79	370,463 70	480,284 49	4 15	
Civic Hospital	Ottawa	147,501	9,928	143,251 22	393,023 84	536,275 06	3 63	
General Hospital	"	75,039	3,025	50,900 13	250,305 70	301,205 83	4 01	
General Hospital	Toronto	269,546	26,780	270,644 74	1,011,437 00	1,282,081 74	4 76	
Hospital for Sick Children	"	132,718	"	104,359 06	413,964 00	518,323 06	3 90	
St. Joseph's Hospital	"	40,620	4,333	31,030 16	104,589 24	135,619 40	3 34	
St. Michael's Hospital	"	148,569	11,922	129,696 84	442,787 51	572,484 35	3 85	
Western and Grace Hospitals	"	135,339	20,247	140,795 89	474,824 35	615,620 24	4 55	
Totals		1,282,191	97,760	1,188,540 59	4,028,267 92	5,216,808 51	4 07	
Average daily cost of each patient including infants				\$3.82				
Grand Totals		2,680,691	278,492	2,513,848.39	8,289,455.95	10,803,304.34	4 03	

Average daily cost of each patient including infants, \$3.66.

TABLE No. IV.—Showing the sources of income of hospitals.

GENERAL HOSPITALS—Continued

Name of Hospital	Location	Income from patients for maintenance, miscellaneous sales, etc.	Income and grants from municipalities for patients maintenance and treatment, etc.	Income from investments, endowments, etc.	Donations, bequests and other gratuitous income.	Special grants, donations, etc., for new buildings and new equipment.	Total income from all sources other than Government grant.
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Group 1— Bed capacity, 1 to 25							
Stevenson Memorial.....	Alliston.....	11,574 45	727 50	8,581 10			20,883 05
Rosamond Memorial.....	Almonte.....	9,588 81	595 00	1,052 66	2,797 82		14,034 29
General Hospital.....	Bowmanville.....	14,124 09	1,910 10	504 45	20 00	1,983 75	18,542 39
Peel Memorial Hospital	Brampton.....	14,095 63	2,183 20		1,062 50		17,341 33
Public Hospital.....	Clinton.....	9,823 73	844 80				10,668 53
Haldimand War Mem.....	Dunville.....	13,101 55	3,978 00		639 50		17,719 05
Red Cross Memorial.....	Durham.....	6,477 18	512 50		441 70		7,431 38
Royal Alexandra.....	Fergus.....	16,025 90	1,785 00				17,810 90
Misericorde Hospital.....	Haileybury.....	8,501 70	514 50		3,282 89		12,299 09
Memorial Hospital.....	Hanover.....	9,179 93	1,626 50	498 25	458 35		11,763 03
Notre Dame Hospital.....	Hawkesbury.....	9,426 51	2,667 00		5,611 45		17,704 96
St. Paul's Hospital.....	Hearst.....	5,225 39			4,901 60		10,126 99
Alexandra Hospital.....	Ingersoll.....	9,874 70	2,000 00	702 05	1,322 40		13,899 15
General Hospital.....	Kincardine.....	8,822 20	2,500 00	491 97	544 00		12,358 17
Memorial Hospital.....	Listowel.....	11,999 36	1,200 00	25 00	936 32		14,160 68
Rosedale Memorial.....	Matheson.....	1,977 33	340 00		4,767 88		7,085 21
Mindemoya Hospital.....	Mindemoya.....	1,783 00					1,783 00
Louise Marshall.....	Mount Forest.....	5,963 91	708 00	33 35	9,745 81		16,451 07
Cottage Hospital.....	Niag.-on-Lake.....	5,004 45	1,389 75	50 00	608 58	6,000 00	13,052 78
General Hospital.....	Palmerston.....	2,010 11			27 00		2,037 11
Willett Hospital.....	Paris.....	10,626 41	3,208 78	727 80	2,585 80		17,148 79
General Hospital.....	Penetang.....	6,995 36	2,012 20		1,104 62		10,112 18
Memorial Hospital.....	Seaforth.....	427 07					427 07
General Hospital.....	Sioux Lookout.....	18,954 91		21 95	2,444 85		21,421 71
Presbyterian Hospital.....	So. Porcupine.....	4,341 11	779 37		4,907 20		10,027 68
Soldiers' Memorial.....	Tillsonburg.....	15,609 29	1,502 90	2,500 00	1,887 16		21,499 35
General Hospital.....	Wingham.....	7,770 34	2,555 25		199 80		10,525 39
Totals.....		239,304 42	35,540 35	15,188 58	50,297 23	7,983 75	348,314 33
Group 2— Bed capacity, 26 to 50							
Royal Victoria Hospital	Barrie.....	21,800 53	750 00	474 73	136 45		23,161 71
Lady Minto Hospital.....	Chapleau.....	18,349 65	300 00		542 85		19,192 50
Cobalt Mines Hos., Ltd.	Cobalt.....	16,041 74	2,032 75	110 00	225 00		18,409 49
General Hospital.....	Coburg.....	14,164 24	2,934 75	832 31	1,116 54		19,047 84
Alexandra Gen. & Mar.	Goderich.....	12,151 25	1,250 00	1,173 50	415 00		14,989 75
Anson General Hospital	Iroquois Falls.....	30,974 91	2,807 43				33,782 34
General Hospital.....	Kenora.....	18,306 99	5,337 09				23,644 08
Ross Memorial Hospital	Lindsay.....	32,425 75	1,700 00	300 00			34,425 75
Bethesda Hospital.....	London.....	10,036 96	2,874 01		567 65		13,478 62
General Hospital.....	Mattawa.....	11,566 85	100 00		13,192 73		24,859 58
St. Andrew's Hospital.....	Midland.....	19,321 78	3,122 69	3,210 00	85 00	1,400 00	27,139 47
York County Hospital.....	Newmarket.....	18,490 92	2,600 00	892 00	18,731 00		40,713 92
Queen Victoria Mem.	North Bay.....	39,377 16	4,500 00		1,430 50		45,307 66
Lord Dufferin Hospital	Orangeville.....	21,606 20	2,352 75	15 96	1,271 53		25,246 44
J. R. Stone Memorial.....	Parry Sound.....	10,699 18			2,403 07		13,102 25
St. Joseph's General.....	Parry Sound.....	13,620 83		27 50	6,283 00		19,931 33
Cottage Hospital.....	Pembroke.....	33,292 12	3,000 00	1,787 80	9,266 00		47,345 92
Great War Memorial.....	Perth.....	25,632 01	1,729 25	961 48	4,598 08		32,920 82
C. E. Englehart Hospital	Petrolia.....	22,554 25	1,000 00	3,075 00			26,629 25
Prince Edward County	Pictou.....	10,402 35	2,521 95	415 93	9,760 89		23,101 12
General Hospital.....	Port Hope.....	13,854 77	2,300 50	927 24	1,014 31		18,096 82
Victoria Hospital.....	Renfrew.....	25,815 93	2,000 00		5 00		27,820 93
Plummer Memorial.....	Sault Ste. Marie.....	25,373 84	594 25	250 00	18 00		26,236 09
Norfolk General.....	Simcoe.....	34,520 33	2,202 40	1,455 56	2,653 81		40,832 10
Public Hospital.....	Smith's Falls.....	30,066 93	2,000 00	2,300 93	3,701 54		38,069 40
St. Francis General.....	Smith's Falls.....	17,382 40	1,100 00		25,419 93		43,902 33
Brebeuf Hospital.....	Sturgeon Falls.....	6,723 54	932 60		5,010 60		12,666 74
General Hospital.....	Strathroy.....	16,955 05	3,895 50	179 87	163 96		21,194 38
Lockwood Clinic.....	Toronto.....	50,559 06					50,559 06
Mount Sinai Hospital.....	Toronto.....	23,819 04	1,678 25		9,064 10		34,561 39
Orthopedic Hospital.....	Toronto.....	28,942 27	3,402 00	487 18	1,079 62		33,911 07
General Hospital.....	Walkerton.....	10,325 94	2,820 00	1,060 87	2,384 11	1,500 00	18,090 92
Totals.....		685,154 77	63,838 17	19,937 86	120,540 27	2,900 00	892,371 07

TABLE No. IV.—Showing the sources of income of hospitals.—Continued.

GENERAL HOSPITALS—Continued

Name of Hospital	Location	Income from patients for maintenance, miscellaneous sales, etc.	Income and grants from municipalities for patients maintenance, and treatment, etc.	Income from investments, endowments, etc.	Donations, bequests and other gratuitous income.	Special grants, donations, etc., for new buildings and new equipment.	Total income from all sources other than Government grant.
Group 3— Bed capacity, 51 to 200							
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
General Hospital	Brockville	69,045 41	2,750 00	1,554 43	1,005 85		74,355 69
St. Vincent de Paul	Brockville	48,481 24	2,981 90	94 11	30,039 75		81,597 00
Public General Hospital	Chatham	59,595 07	14,211 75		277 52		74,084 34
St. Joseph's Hospital	Chatham	51,215 90			16,731 50		75,390 40
Lady Minto Hospital	Cochrane	29,640 90	1,000 00		27 42		30,993 26
General and Marine	Collingwood	24,719 98	4,814 75	286 36	66 00		31,012 38
General Hospital	Cornwall	35,596 13	7,231 75	519 06	958 59		75,408 46
Hotel Dieu Hospital	Cornwall	29,214 90	20,222 75	1,997 69	30,582 89		71,629 94
General Hospital	Galt	41,567 11	10,475 75	300 00	191 42		52,534 28
General Hospital	Guelph	77,805 68	29,980 76	219 76	858 09		108,864 29
St. Joseph's Hospital	"	63,820 84	9,382 00		18,081 00		91,283 84
St. Joseph's Hospital	Kenora	19,025 37	1,678 25	186 44	7,097 15		27,987 21
Kitchener-Waterloo	Kitchener	55,354 24	12,925 31	929 58	162 23		69,371 36
Soldiers' Memorial	Orillia	49,428 20	2,648 34	449 47	50 00		52,576 01
General Hospital	Oshawa	76,830 42	7,476 05	2,336 60	83 26		87,479 33
Protestant Children's	Ottawa	11,293 25	7,594 23		105 50		18,992 98
Salvation Army Grace	"	22,772 48			1,595 91		24,368 39
General and Marine	Owen Sound	52,402 79	4,702 37		1,718 09		58,823 25
Nicholls Hospital	Peterborough	61,570 02	7,312 52	12,881 91			81,764 45
St. Joseph's Hospital	"	36,830 19	4,023 05		14,580 00		55,433 24
General Hospital	Port Arthur	49,764 98	8,312 51	616 47	766 70		59,460 66
Memorial Hospital	St. Thomas	79,968 59	13,562 50	1,248 26			94,779 35
General Hospital	Sault Ste. Marie	48,419 81	6,656 35		1,175 00		56,251 16
General Hospital	Stratford	57,935 15	18,400 00	419 73	643 38		77,398 26
St. Mary's Hospital	Timmins	69,008 83	1,745 50	156 83	28,200 34		99,111 50
St. John's Hospital	Toronto	84,942 45	1,854 75	176 51	6,740 60		93,714 31
S. A. Women's Hospital	"	55,070 05	904 49		30 00		56,004 54
Women's College	"	56,189 85	6,146 35	96 00	1,654 03		64,086 28
Wellesley Hospital	"	203,569 53	194 40				203,763 93
Welland County	Welland	45,113 58	5,040 50		2,007 00		52,161 08
General Hospital	Woodstock	43,650 42	5,000 00	1,796 14	3,026 38		53,472 94
Total		1,709,843 36	229,087 98	26,265 35	188,957 42		2,154,154 11
Group 4— Bed capacity, 101 to 200							
General Hospital	Belleville	90,055 85	15,261 55	575 23	3,598 33		109,490 96
General Hospital	Brantford	104,979 82	56,446 98	630 13	1,636 21		163,693 14
McKellar General	Fort William	91,921 75	30,000 58	100 00	430 90		122,453 23
St. Joseph's Hospital	Hamilton	148,284 22	10,999 55	995 24	34,440 00		194,719 01
Hotel Dieu Hospital	Kingston	71,290 00	12,070 75		26,190 50		109,551 25
St. Mary's Hospital	Kitchener	56,338 70	11,239 75	105 48	18,000 00		85,683 93
St. Joseph's Hospital	London	179,155 77	8,493 40		25,415 91		213,065 08
General Hospital	Niagara Falls	58,214 55	8,267 50	606 51	3,972 18	90,882 49	161,943 23
Misericordia General	Ottawa	50,309 05	10,102 00	81 64	17,224 34		77,717 03
General Hospital	Pembroke	37,850 42	4,000 00		18,976 00		60,826 42
St. Joseph's Hospital	Port Arthur	71,977 91	8,315 81	227 00	24,385 59		104,906 31
General Hospital	St. Catharines	86,399 61	22,032 75	4,297 50	2,536 16		115,806 02
General Hospital	Sarnia	51,767 91	12,000 00	2,760 70	50 00		66,578 61
St. Joseph's Hospital	Sudbury	91,256 38	2,652 50		21,389 19		115,298 07
Toronto East General	Toronto	111,656 57	13,097 00	1,699 04	541 25		126,993 86
Metropolitan General	Walkerville	83,913 02	21,714 75				105,627 77
Hotel Dieu Hospital	Windsor	210,156 89	15,125 40	69 36	21,500 00		246,851 65
S.A. Grace Hospital	Windsor	107,408 71	10,418 90		215 67		118,043 28
Totals		1,703,477 13	272,239 17	12,147 83	220,502 23	90,882 49	2,299,248 85
Group 5— Bed capac., 201 and over							
General Hospital	Hamilton	277,238 98	201,641 54				478,880 52
General Hospital	Kingston	165,402 71	72,365 04	17,162 15	3,540 77		258,470 67
Victoria Hospital	London	356,560 33	215,453 82	4,586 30	3,561 86	610 26	580,772 57
Civic Hospital	Ottawa	411,576 20	72,294 90	6,827 94			490,699 04
General Hospital	"	289,504 37	46,190 99	326 80	65,613 00		401,635 16
General Hospital	"	938,366 50	185,963 55	98,350 90	16,760 23		1,239,441 18
Hos. for Sick Children	"	126,530 38	168,115 16	52,913 10	72,507 18		420,065 82
St. Joseph's Hospital	"	100,824 48	27,230 82				128,055 30
St. Michael's Hospital	"	519,031 72	87,965 00	304 56	45,777 15		653,078 43
Western and Grace	"	462,319 78	76,572 28	376 00	1,869 00		541 137 06
Totals		3,647,355 45	1,153,793 10	180,847 75	209,629 19	610 26	5,192,235 75
Grand Totals		7,985,135 13	1,754,498 77	254,387 37	789,926 34	102,376 50	10,886,324 11

TABLE No. V.—Showing the basis on which the Statutory aid is granted.

GENERAL HOSPITALS—Continued

Name of Hospital	Location	Collective days' stay for grant at 50c. per day.	Collective days' stay for grant at 60c. per day.	Amount of Government grant for pro-hospital cases.	Total overtime, days' stay at 10c.	Amount earned for overtime.	Collective days' stay at indigent rate (\$2.00)	Amount at indigent rate.	Total payable as Government grant.
				\$ c.		\$ c.		\$ c.	\$ c.
Group 1— Bed capacity 1 to 25									
Stevenson Memorial	Alliston		2,864	1,718 40					1,718 40
Rosamond Memorial	Almonte		2,318	1,390 80	93	9 30			1,400 10
General Hospital	Bowmanville		1,740	1,044 00					1,044 00
Peel Memorial	Brampton		4,287	2,572 20	415	41 50			2,613 70
Public Hospital	Clinton		284	170 40					170 40
Haldimand War M.L.	Dunnville		2,017	1,210 20					1,210 20
Red Cross Memorial	Durham		2,812	1,687 20	15	1 50			1,688 70
Royal Alexandra	Fergus	18	882	542 40	733	73 30			615 70
Misericorde Hospital	Haileybury		1,989	1,193 40	10	1 00	31	62 00	1,256 40
Memorial Hospital	Hawkesbury		2,656	1,593 60					1,593 60
Notre Dame Hospital	Hearst		3,351	2,010 60					2,010 60
St. Paul's Hospital	Hagersoll		1,882	1,729 20	153	15 30	651	1,302 00	3,046 50
Alexandra Hospital	Hamover		2,880	828 00					828 00
General Hospital	Kincardine		1,329	497 40	119	11 90			509 30
Memorial Hospital	Listowel		2,125	1,335 00	1,242	124 20			1,459 20
Rosedale War M.L.	Matheson	120	1,264	758 40	12	1 20	168	336 00	1,095 60
Mindemoya Hosp	Mindemoya	20	937	572 20					572 20
Louise Marshall	Mount Forest		1,962	1,177 20	201	20 10			1,197 30
Cottage Hospital	Niag.-on-the-L.		1,734	1,040 40	7	70			1,041 10
General Hospital	Palmerston		1,022	613 20					613 20
Willett Hospital	Paris		5,398	3,238 80	601	60 10			3,298 90
General Hospital	Penatang		1,653	991 80	5	50			992 30
Memorial Hospital	Seaforth		1,446	87 60					87 60
General Hospital	Sioux Lookout		4,812	2,887 20	84	8 40	214	428 00	3,323 60
Presbyterian Hosp.	So. Porcupine	99	1,257	803 70	648	64 80			868 50
Soldiers' Memorial	Tillsonburg		4,330	2,598 00	269	26 90			2,624 90
Lockwood Clinic	Toronto		201	120 60					120 60
General Hospital	Wingham		285	171 00	341	34 10			205 10
Totals		257	57,424	34,582 90	4,948	494 80	1,064	2,128 00	37,205 70
Group 2— Bed capacity, 26 to 50									
Royal Victoria	Barrie		3,592	2,155 20	1,208	120 80			2,276 00
Lady Minto	Chapleau		1,949	1,169 40	20	2 00	305	610 00	1,781 40
Cobalt Mines, Ltd.	Cobalt		3,531	2,118 60	86	8 60	540	1,080 00	3,207 20
General Hospital	Cobourg		3,381	2,028 60	63	6 30			2,034 90
Alexandra Gen. & M	Goderich		1,282	769 20	43	4 30			773 50
Anson General	Iroquois Falls		5,628	3,376 80	56	5 60	118	236 00	3,618 40
General Hospital	Kenora		3,232	1,939 20	6,027	602 70			2,541 90
Ross Memorial	Lindsay		4,417	2,650 20	16	1 60			2,651 80
Bethesda Hospital	London		3,553	2,131 80	35	3 50			2,135 30
General Hospital	Mattawa	120	7,318	4,450 80	3,947	394 70	630	1,260 00	6,105 50
St. Andrew's	Midland	120	3,711	2,286 60	991	99 10	53	106 00	2,491 70
York County	Newmarket		5,752	3,451 20					3,451 20
Queen Victoria Mem.	North Bay		5,239	3,143 40	152	15 20			3,158 60
Lord Dufferin	Orangeville		3,567	2,140 20	160	16 00			2,156 20
J. R. Stone Memorial	Parry Sound		2,678	1,606 80	303	30 30	160	320 00	1,957 10
St. Joseph's General	Parry Sound		1,915	1,149 00	12	1 20	16	32 00	1,182 20
Cottage Hospital	Pembroke		3,706	2,223 60	19	1 90			2,225 50
Great War Memorial	Perth		7,445	4,467 00	439	43 90			4,510 90
C. E. Englehart	Petrolia		2,703	1,621 80	639	63 90			1,685 70
Prince Edward Co.	Pictou		1,136	681 60					681 60
General Hospital	Port Hope		3,093	1,855 80	6	60			1,856 40
Victoria Hospital	Renfrew	1,554	10,239	6,920 40	119	11 90			6,932 30
Plummer Memorial	Sault Ste. Marie		4,617	2,770 20	4	40	25	50 00	2,820 60
Norfolk General	Simcoe		10,709	6,425 40	612	61 20			6,486 60
Public Hospital	Smith's Falls	35	3,696	2,235 10	1,218	121 80			2,356 90
St. Francis General	Smith's Falls		2,540	1,524 00	1,390	139 00			1,663 00
Brebeuf Hospital	Sturgeon Falls		2,531	1,518 60	12	1 20	19	38 00	1,557 80
General Hospital	Strathroy		2,129	1,277 40	203	20 30			1,297 70
Mount Sinai	Toronto		7,264	4,358 40	53	5 30			4,363 70
Orthopedic Hospital	Toronto		3,014	1,808 40	768	76 80			1,885 20
General Hospital	Walkerton		2,125	1,275 00	54	5 40			1,280 40
Totals		1,829	127,692	77,529 70	18,655	1,865 50	1,866	3,732 00	83,127 20

TABLE No. V.—Showing the basis on which the Statutory aid is granted.—Continued.

GENERAL HOSPITALS—Continued

Name of Hospital	Location	Collective days' stay for grant at 50c. per day.	Collective days' stay for grant at 60c. per day.	Amount of Govern-ment grant for pro-per hospital cases.	Total overtime, days' stay at 10c.	Amount earned for overtime.	Collective days' stay at indigent rate (\$2.00)	Amount at indigent rate.	Total payable as Government grant.
				\$ c.		\$ c.		\$ c.	\$ c.
Group 3—Bed capacity, 51 to 100									
General Hospital	Brockville		7,201	4,320 60	1,706	170 60			4,491 20
St. Vincent de Paul	"		7,075	4,245 00	2,123	212 30			4,457 30
Public General	Chatham	120	6,419	3,911 40	3,015	301 50	58	116 00	4,328 90
St. Joseph's Hospital	"		5,168	3,100 80	892	89 20			3,190 00
Lady Minto Hospital	Cochrane		2,649	1,589 40	364	36 40	3,026	6,052 00	7,677 80
General and Marine	Collingwood		5,772	3,463 20	228	22 80			3,486 00
General Hospital	Cornwall		6,878	4,126 80	314	31 40			4,158 20
Hotel Dieu Hospital	"		15,794	9,476 40	1,497	149 70			9,626 10
General Hospital	Galt	67	6,732	4,072 70	1,247	124 70			4,197 40
General Hospital	Guelph	240	10,725	6,555 00	2,083	208 30			6,763 30
St. Joseph's Hospital	"		13,379	8,027 40	777	77 70			8,105 10
General Hospital	Kenora	120	3,499	2,159 40	983	98 30			2,257 70
Kitchener-Waterloo	Kitchener		6,753	4,051 80	80	8 00			4,059 80
Soldiers' Memorial	Orillia		9,995	5,997 00	234	23 40			6,020 40
General Hospital	Oshawa		6,547	3,928 20	953	95 30			4,023 50
Protestant Children's	Ottawa		6,805	4,083 00	862	86 20			4,169 20
S. Army Grace	Ottawa		11,126	6,675 60	81	8 10			6,683 70
General and Marine	Owen Sound		8,819	4,091 40	406	40 60			4,132 00
Nicholls Hospital	Peterborough		8,930	5,358 00	78	7 80			5,365 80
St. Joseph's Hospital	"	120	11,938	7,222 80	2,267	226 70			7,449 50
General Hospital	Port Arthur		12,338	7,402 80	2,302	230 20	213	426 00	8,059 00
Memorial Hospital	St. Thomas		21,813	13,087 80	1,390	139 00			13,226 80
General Hospital	Sault Ste. Marie		10,286	6,171 60	792	79 20	953	1,906 00	8,156 80
General Hospital	Stratford	29	9,295	5,591 50	1,656	165 60			5,757 10
St. Mary's Hospital	Timmins		14,289	8,573 40	2,396	239 60	208	416 00	9,229 00
St. John's Hospital	Toronto		7,289	4,373 40	73	7 30			4,380 70
S. Army Women's	"		5,199	3,119 40					3,119 40
Wellesley Hospital	"		449	269 40					269 40
Women's College	"		6,866	4,119 60					4,119 60
Welland County	Welland		7,146	4,287 60	71	7 10			4,294 70
General Hospital	Woodstock		4,354	2,612 40	402	40 20			2,652 60
Totals		696	259,528	156,064 80	29,272	2,927 20	4,458	8,916 00	167,908 00
Group 4—Bed capacity, 101 to 200									
General Hospital	Belleville		7,376	4,425 60	640	64 00			4,489 60
General Hospital	Brantford		33,230	19,938 00	2,922	292 20			20,230 20
McKellar General	Fort William		19,549	11,729 40	2,390	239 00	1,762	3,524 00	15,492 40
St. Joseph's Hospital	Hamilton		14,474	8,684 40	250	25 00			8,709 40
Hotel Dieu Hospital	Kingston	306	11,559	7,088 40	4,281	428 10			7,516 50
St. Mary's Hospital	Kitchener		19,876	11,925 60	947	94 70			12,020 30
St. Joseph's Hospital	London	4	8,046	4,829 60	1,788	178 80			5,008 40
General Hospital	Niagara Falls		9,731	5,838 60	91	9 10			5,847 70
Misericordia General	Ottawa		6,531	3,918 60	53	5 30			3,923 90
General Hospital	Pembroke	120	8,438	5,122 80	1,985	198 50			5,321 30
St. Joseph's Hospital	Port Arthur		13,122	7,873 20	1,684	168 40	312	624 00	8,665 60
General Hospital	St. Catharines	60	9,151	5,520 60	1,567	156 70			5,677 30
General Hospital	Sarnia		5,736	3,441 60	956	95 60			3,537 20
St. Joseph's Hospital	Sudbury	120	18,260	11,016 00	1,234	123 40	2,500	5,000 00	16,139 40
Toronto East Gen'l	Toronto		31,104	18,662 40	926	92 60	23	46 00	18,801 00
Metropolitan Gen'l	Walkerville		25,319	15,191 40	1,846	184 60			15,376 00
Hotel Dieu Hospital	Windsor		7,144	4,286 40	1,195	119 50			4,405 90
S. Army Grace	"		24,267	14,560 20	2,204	220 40			14,780 60
Totals		610	272,913	164,052 80	26,959	2,695 90	4,597	9,194 00	175,942 70
Group 5—Bed capacity, 201 & over									
General Hospital	Hamilton		96,807	58,084 20	6,284	628 40			58,712 60
General Hospital	Kingston		27,178	16,306 80	6,205	620 50			16,927 30
Victoria Hospital	London	120	39,148	23,548 80	5,998	599 80			24,148 60
Civic Hospital	Ottawa		129,821	77,892 60	7,998	799 80	49	98 00	78,790 40
General Hospital	"		32,684	19,610 40	682	68 20	251	502 00	20,180 60
General Hospital	Toronto	120	169,004	101,462 40	14,534	1,453 40	1,660	3,320 00	106,235 80
Hosp. for Sick Child	"	1,200	99,994	60,596 40	23,657	2,365 70	1,374	2,748 00	65,717 10
St. Joseph's Hospital	"		38,821	23,292 60	1,811	181 10	28	56 00	23,529 70
St. Michael's	"		84,559	50,735 40	2,892	289 20	60	120 00	51,444 60
Western and Grace	"		77,930	46,758 00	3,200	320 00	97	194 00	47,272 00
Totals		1,440	795,946	478,287 60	73,261	7,326 10	3,519	7,038 00	492,651 70
Grand Totals		4,832	1,513,503	910,517 80	153,095	15,309 50	15,504	31,008 00	956,835 30

RED CROSS OUTPOST HOSPITALS

TABLE I

Name of Hospital	Location	Number of adult beds.	Number of nursery cots.	Number remaining under treatment Oct. 1st, 1929.	Number admitted during year ending Sept. 30th, 1930.	Number of births during year.	Number of patients treated during year.	Number of patients discharged during year.	Number of deaths.	Number in residence on Sept. 30th, 1930.
Red Cross Hospital.....	Apsley.....	3	1	2	18	6	26	26	.....	.....
Red Cross Hospital.....	Bancroft.....	3	3	4	114	51	169	161	5	3
Red Cross Hospital.....	Bonfield.....	1	1	.....	4	1	5	4	1	.....
Red Cross Hospital.....	Bracebridge.....	14	5	9	369	35	413	379	23	11
Red Cross Hospital.....	Coehill.....	5	2	.....	34	8	42	40	1	1
Red Cross Hospital.....	Dryden.....	13	4	10	235	59	304	285	13	6
Red Cross Hospital.....	Englehart.....	10	3	6	123	25	154	148	4	2
Red Cross Hospital.....	Hornepayne.....	6	2	.....	56	13	69	64	3	2
Red Cross Hospital.....	Kakabeka Falls.....	2	1	.....	26	2	28	28	.....	.....
Red Cross Hospital.....	Kirkland Lake.....	30	.....	16	738	68	822	775	24	23
Red Cross Hospital.....	Lions Head.....	3	.....	.....	13	10	23	23	.....	.....
Red Cross Hospital.....	Loring.....	2	1	.....	29	13	42	39	1	2
Red Cross Hospital.....	Nakina.....	6	2	3	91	9	103	92	3	8
Lady Minto Hospital.....	New Liskeard.....	18	5	12	265	49	326	299	15	12
Red Cross Hospital.....	Quibell.....	2	1	.....	10	3	13	13	.....	.....
Red Cross Hospital.....	Rainy River.....	9	3	10	137	24	171	156	6	9
Red Cross Hospital.....	Redditt.....	3	2	.....	22	7	29	27	.....	2
Red Cross Hospital.....	St. Joseph's Island.....	8	2	1	128	24	153	143	7	3
Red Cross Hospital.....	Thessalon.....	10	3	11	174	31	216	190	16	10
Red Cross Hospital.....	Whitney.....	3	.....	.....	17	2	19	19	.....	.....
Red Cross Hospital.....	Wilberforce.....	2	1	.....	2	1	3	3	.....	.....
Totals.....	.....	158	43	84	2,605	441	3,130	2,914	122	94

TABLE II

Name of Hospital	Location	Number of patients including infants born during year.	Total collective days' stay of adult patients treated during year.	Total collective days' stay of infants born during year.	Total collective days' stay of all patients treated during year.	Average days' stay of all patients including infants.	Number of graduate and professional staff.	Number of other employees including nurses-in-training.
Red Cross Hospital.....	Apsley.....	26	192	88	280	11	1	1
Red Cross Hospital.....	Bancroft.....	169	1,201	504	1,705	10	2	2
Red Cross Hospital.....	Bonfield.....	5	20	.....	20	4	1	1
Red Cross Hospital.....	Bracebridge.....	413	3,231	270	3,501	8	5	3
Red Cross Hospital.....	Coehill.....	42	194	79	273	6	1	2
Red Cross Hospital.....	Dryden.....	304	2,952	600	3,552	12	4	4
Red Cross Hospital.....	Englehart.....	154	1,135	304	1,439	9	3	2
Red Cross Hospital.....	Hornepayne.....	69	483	143	626	9	2	1
Red Cross Hospital.....	Kakabeka Falls.....	28	78	17	95	3	1	1
Red Cross Hospital.....	Kirkland Lake.....	822	6,293	611	6,904	8	7	7
Red Cross Hospital.....	Lions Head.....	23	106	93	199	9	1	1
Red Cross Hospital.....	Loring.....	42	278	128	406	10	1	1
Red Cross Hospital.....	Nakina.....	103	757	97	854	8	2	2
Lady Minto Hospital.....	New Liskeard.....	326	3,151	630	3,781	12	4	4
Red Cross Hospital.....	Quibell.....	13	67	22	89	7	1	1
Red Cross Hospital.....	Rainy River.....	171	1,301	253	1,554	9	3	2
Red Cross Hospital.....	Redditt.....	29	102	66	168	6	1	1
Red Cross Hospital.....	St. Joseph's Island.....	153	1,260	292	1,552	10	3	2
Red Cross Hospital.....	Thessalon.....	216	2,772	290	3,062	14	4	2
Red Cross Hospital.....	Whitney.....	19	108	19	127	7	1	1
Red Cross Hospital.....	Wilberforce.....	3	29	10	39	13	1	1
Totals.....	.....	3,130	25,710	4,516	30,226	10	49	42

RED CROSS OUTPOST HOSPITALS—Continued

TABLE III

Name of Hospital	Location	Total collective days' stay of adults.	Total collective days' stay of infants.	Cost of dietaries.	Other maintenance costs.	Total maintenance cost.	Average cost of each adult patient per day.*
				\$ c.	\$ c.	\$ c.	\$ c.
Red Cross Hospital.....	Apsley.....	192	88	490 91	2,779 08	3,269 99	17 03
Red Cross Hospital.....	Bancroft.....	1,201	504	1,068 54	4,537 45	5,605 99	4 67
Red Cross Hospital.....	Bonfield.....	20	.....	471 51	3,287 84	3,759 35	187 97
Red Cross Hospital.....	Bracebridge.....	3,231	270	2,195 19	8,932 70	11,127 89	3 44
Red Cross Hospital.....	Coehill.....	194	79	453 69	3,157 61	3,611 30	18 61
Red Cross Hospital.....	Dryden.....	2,952	600	2,214 36	7,846 77	10,061 13	3 41
Red Cross Hospital.....	Englehart.....	1,135	304	1,170 02	6,048 81	7,218 83	6 36
Red Cross Hospital.....	Hornepayne.....	483	143	914 18	4,220 83	5,135 01	10 63
Red Cross Hospital.....	Kakabeka Falls.....	78	17	635 60	2,632 12	3,267 72	41 89
Red Cross Hospital.....	Kirkland Lake.....	6,293	611	6,295 57	17,446 07	23,741 64	3 77
Red Cross Hospital.....	Lions Head.....	106	93	563 63	2,595 95	3,159 58	29 81
Red Cross Hospital.....	Loring.....	278	128	483 03	3,142 74	3,625 77	13 04
Red Cross Hospital.....	Nakina.....	757	97	960 67	4,621 09	5,581 76	7 37
Lady Minto Hospital.....	New Liskeard.....	3,151	630	2,934 99	9,428 48	12,363 47	3 92
Red Cross Hospital.....	Quibell.....	67	22	438 03	2,452 70	2,890 73	43 15
Red Cross Hospital.....	Rainy River.....	1,301	253	840 97	4,508 03	5,349 00	4 11
Red Cross Hospital.....	Redditt.....	102	66	550 03	2,977 74	3,527 77	34 59
Red Cross Hospital.....	St. Joseph's Island.....	1,260	292	985 84	4,903 55	5,889 39	4 67
Red Cross Hospital.....	Thessalon.....	2,772	290	1,664 18	7,527 53	9,191 71	3 31
Red Cross Hospital.....	Whitney.....	108	19	502 04	2,560 65	3,062 69	28 36
Red Cross Hospital.....	Wilberforce.....	29	10	297 65	2,194 50	2,492 15	85 94
Totals.....	.....	25,710	4,516	26,130 63	107,802 24	133,932 87	5 21

Average daily cost of each patient including infants, \$4.43.

*The "average cost of each patient per day" includes cost of attendance on outpatients, which entails heavy travelling expenses in outlying districts.

TABLE IV

Name of Hospital	Location	Income from patients for maintenance, miscellaneous sales, etc.	Income and grants from municipalities for patients' maintenance and treatment.	Income from investments, endowments etc.	Donations, bequests and other gratuitous income.	Total income from all sources other than Government grant.
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Red Cross Hospital.....	Apsley.....	405 00	.....	.....	2,923 64	3,328 64
Red Cross Hospital.....	Bancroft.....	2,786 25	.....	.....	3,421 76	6,208 01
Red Cross Hospital.....	Bonfield.....	480 58	.....	.....	3,317 37	3,797 95
Red Cross Hospital.....	Bracebridge.....	10,204 50	659 25	.....	192 00	11,055 75
Red Cross Hospital.....	Coehill.....	605 23	28 25	.....	3,360 67	3,994 15
Red Cross Hospital.....	Dryden.....	6,696 75	67 25	.....	3,047 10	9,811 10
Red Cross Hospital.....	Englehart.....	3,161 75	208 00	.....	3,766 75	7,136 50
Red Cross Hospital.....	Hornepayne.....	2,032 50	.....	.....	2,811 20	4,843 70
Red Cross Hospital.....	Kakabeka Falls.....	185 00	.....	.....	3,230 86	3,415 86
Red Cross Hospital.....	Kirkland Lake.....	23,883 47	.....	.....	357 85	24,241 32
Red Cross Hospital.....	Lions Head.....	208 75	.....	.....	2,954 33	3,163 08
Red Cross Hospital.....	Loring.....	760 80	.....	.....	2,670 17	3,430 97
Red Cross Hospital.....	Nakina.....	2,142 00	.....	.....	3,256 76	5,398 76
Lady Minto Hospital.....	New Liskeard.....	9,158 50	.....	.....	4,235 01	13,393 51
Red Cross Hospital.....	Quibell.....	117 00	.....	.....	2,849 93	2,966 93
Red Cross Hospital.....	Rainy River.....	3,824 85	.....	.....	1,372 71	5,197 56
Red Cross Hospital.....	Redditt.....	265 10	.....	.....	3,362 07	3,627 17
Red Cross Hospital.....	St. Joseph's Island.....	2,327 50	.....	.....	3,474 35	5,801 85
Red Cross Hospital.....	Thessalon.....	9,333 40	.....	.....	226 50	9,559 90
Red Cross Hospital.....	Whitney.....	386 00	.....	.....	2,710 34	3,096 34
Red Cross Hospital.....	Wilberforce.....	221 10	.....	.....	2,417 26	2,638 36
Totals.....	.....	79,186 03	962 75	.....	55,958 63	136,107 41

RED CROSS OUTPOST HOSPITALS—Continued

TABLE V

Name of Hospital	Location	Collective days' stay for grant at 60c. per day.	Amount of grant for proper hospital cases.		Total overtime days' stay at 10c.	Amount earned for overtime.		Days' stay at indigent rate (\$2.00)	Amount at indigent rate.		Total payable as Government grant.	
			\$	c.		\$	c.		\$	c.	\$	c.
Red Cross Hospital	Apsley	192	115	20							115	20
Red Cross Hospital	Bancroft	1,013	607	80	179	17	90				625	70
Red Cross Hospital	Bonfield	9	5	40							5	40
Red Cross Hospital	Bracebridge	3,202	1,921	20							1,921	20
Red Cross Hospital	Cochill	194	116	40							116	40
Red Cross Hospital	Dryden	2,407	1,444	20	424	42	40	479	958	00	2,444	60
Red Cross Hospital	Englehart	1,172	703	20	14	1	40	167	334	00	1,038	60
Red Cross Hospital	Haileybury	470	282	00	14	1	40				283	40
Red Cross Hospital	Hornepayne	483	289	80				132	264	00	553	80
Red Cross Hospital	Kakabeka Falls	78	46	80							46	80
Red Cross Hospital	Kirkland Lake	5,839	3,503	40							3,503	40
Red Cross Hospital	Lions Head	106	63	60							63	60
Red Cross Hospital	Loring	278	166	80	2		20	30	60	00	227	00
Red Cross Hospital	Nakina	567	340	20							340	20
Lady Minto Hospital	New Liskeard	453	274	80	15	1	50	128	256	00	532	30
Red Cross Hospital	Quibell	62	37	20	8		8	8	16	00	54	00
Red Cross Hospital	Rainy River	1,222	733	20	2	20	44	88	88	00	821	40
Red Cross Hospital	Redditt	97	58	20	8		80	8	16	00	75	00
Red Cross Hospital	St. Joseph's Island	1,241	744	60							744	60
Red Cross Hospital	Thessalon	2,229	1,337	40	547	54	70	60	120	00	1,512	10
Red Cross Hospital	Whitney	88	52	80	8		80	8	16	00	69	60
Red Cross Hospital	Wilberforce	29	17	40							17	40
Totals		21,436	12,861	60	1,221	122	10	1,064	2,128	00	15,111	70

SANATORIA FOR CONSUMPTIVES

TABLE I

Name of Sanatoria	Location	Number of adult beds.	Number remaining under treatment October 1st, 1929	Number admitted during year ending September 30, 1930.	Number of births.	Total number of patients treated during year.	Number of patients discharged during the year.	Number of deaths.	Number of patients in residence on September 30, 1930
Muskoka Hospital for Consumptives	Gravenhurst	342	327	361		688	316	51	321
Mountain Sanatorium	Hamilton	460	409	336		745	236	69	440
Freeport Sanatorium	Kitchener	80	71	56		127	40	13	74
Queen Alexander Sanatorium	London	440	399	507		906	393	74	439
Royal Ottawa Sanatorium	Ottawa	149	136	146		282	116	37	129
Niagara Peninsula Sanatorium	St. Catharines	72	20	84		104	27	10	67
Essex County Sanatorium	Sandwich	136	90	127		217	88	12	117
The Preventorium	Toronto	120	63	232		295	205	1	89
Toronto and Queen Mary, for Consump.	Weston	460	345	427	8	780	206	147	427
Totals		2,363	1,948	2,323	8	4,279	1,668	418	2,193

SANATORIA FOR CONSUMPTIVES—Continued

TABLE II

Name of Sanatoria	Location	Number of patients during year.	Total collective days' stay of adult patients during year.	Total collective days' stay of infants during year.	Total collective days' stay of adults and infants during year.	Average days' stay of adults and infants during year.	Number of graduate and professional staff.	Number of all other employees including nurses-in-training.
Brant Sanatorium	Brantford	135	33,610	.....	33,610	249	10	21
Muskoka Hospital for Consumptives	Gravenhurst	688	119,533	.....	119,533	174	30	146
Mountain Sanatorium	Hamilton	745	158,958	.....	158,958	213	35	170
Freeport Sanatorium	Kitchener	127	28,097	.....	28,097	221	11	24
Queen Alexander Sanatorium	London	906	155,584	.....	155,584	172	35	172
Royal Ottawa Sanatorium	Ottawa	282	47,624	.....	47,624	169	25	51
Niagara Peninsula Sanatorium	St. Catharines	104	11,128	.....	11,128	107	8	14
Essex County Sanatorium	Sandwich	217	41,184	.....	41,184	190	12	34
The Preventorium	Toronto	295	28,857	.....	28,857	98	4	32
Toronto and Queen Mary for Consumptives	Weston	780	142,540	1,107	143,647	184	38	216
Totals	.....	4,279	767,115	1,107	768,222	180	208	880

TABLE III

Name of Sanatoria	Location	Total collective days' stay of adults.	Total collective days' stay of infants.	Total cost of dietaries.	Other maintenance costs.	Total maintenance costs.	Average cost of each adult patient per day.	Average cost of adults and infants per day.
				\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Brant Sanatorium	Brantford	33,610	.....	13,502 86	32,885 49	46,388 35	1 39	.....
Muskoka Hospital for Consumptives	Gravenhurst	119,533	.....	97,628 78	203,570 72	301,199 50	2 52	.....
Mountain Sanatorium	Hamilton	158,958	.....	106,174 77	235,635 56	341,810 33	2 15	.....
Freeport Sanatorium	Kitchener	28,097	.....	16,051 69	47,283 06	63,334 75	2 25	.....
Queen Alexander Sanatorium	London	155,584	.....	98,813 21	233,552 14	332,365 35	2 14	.....
Royal Ottawa Sanatorium	Ottawa	47,624	.....	23,412 26	90,728 07	114,140 33	2 40	.....
Niagara Peninsula Sanatorium	St. Catharines	11,128	.....	6,960 26	18,212 50	25,172 76	2 26	.....
Essex County Sanatorium	Sandwich	41,184	.....	26,281 80	67,422 08	93,703 88	2 28	.....
The Preventorium	Toronto	28,857	.....	10,373 45	50,864 54	61,237 99	2 12	.....
Toronto and Queen Mary for Cons.	Weston	142,540	1,107	101,815 18	226,147 03	327,962 21	2 30	2 28
Totals	.....	767,115	1,107	501,014 26	1,206,301 19	1,707,315 45	2 23	2 22

SANATORIA FOR CONSUMPTIVES—Continued

TABLE IV

Name of Sanatoria	Location	Income from Provincial Government for grants.		Income from patients for treatment, miscellaneous sales, etc.		Income from municipalities for patients maintenance and treatment.		Income from investments, endowments etc.		Donations, bequests and other gratuitous income.		Total income from all sources.	
		\$	c.	\$	c.	\$	c.	\$	c.	\$	c.		
Brant Sanatorium.....	Brantford...	25,207	50	3,001	20	29,424	30					57,633	00
Muskoka Hospital.....	Gravenhurst.	79,528	50	115,123	06	105,001	25	55,436	35	22,270	26	377,359	42
Mountain Sanatorium.....	Hamilton....	119,218	50	75,109	45	182,051	85	1,266	16	33,972	09	411,618	05
Freeport Sanatorium.....	Kitchener....	20,750	25	6,503	05	45,752	75	848	75	413	98	74,268	78
Queen Alexandra Sanatorium	London.....	86,095	50	161,543	30	137,550	31	27,693	00	26,613	71	439,495	82
Royal Ottawa Sanatorium....	Ottawa.....	36,156	00	12,993	65	69,611	26					118,760	91
Niagara Peninsula Sanatorium	St. Catharines	8,345	25	4,140	99	12,952	25	1,356	80	250	00	27,045	29
Essex County Sanatorium....	Sandwich....	30,519	00	19,724	16	45,848	93	8	07	261	00	96,361	16
The Preventorium.....	Toronto.....	21,518	25	7,607	00	31,967	41	14,316	12	7,075	60	82,482	38
Toronto and Queen Mary, Hospital for Consumptives	Weston.....	101,697	75	46,410	53	164,834	86	22,995	61	50,792	28	386,731	03
Totals.....		529,036	50	452,156	39	824,995	17	123,920	86	141,646	92	2,071,755	84

HOSPITALS FOR INCURABLES

TABLE I

Name of Hospital	Location	Number of adult beds.	Number remaining under treatment October 1st, 1929.	Number admitted during year ending September 30, 1930.	Number of patients treated during year.	Number of patients discharged during year.	Number of deaths.	Number in residence on Sept. 30, 1930.
Perley Home for Incurables.....	Ottawa.....	90	80	34	114	14	22	78
St. Vincent Hospital for Incurables.....	".....	128	95	81	176	25	39	112
Toronto Hospital for Incurables.....	Toronto.....	325	287	123	410	31	68	311
Home for Incurable Children.....	".....	40	37	10	47	7	1	39
Mercy Hospital for Incurables.....	".....	102	100	72	172	27	44	101
Totals.....		777	685	364	1,049	119	197	733

TABLE II

Name of Hospital	Location	Number of patients during year.	Total collective days' stay of patients during year.	Average days' stay of patients during year.	Number of graduate and professional staff.	Number of all other employees including nurses-in-training.
Perley Home for Incurables.....	Ottawa.....	114	29,650	260	5	29
St. Vincent Hospital for Incurables.....	".....	176	36,360	207	4	34
Toronto Hospital for Incurables.....	Toronto.....	410	106,720	260	18	190
Home for Incurable Children.....	".....	47	13,162	280	3	18
Mercy Hospital for Incurables.....	".....	172	24,026	140	10	26
Totals.....		1,049	242,542	231	42	335

HOSPITALS FOR INCURABLES—Continued

TABLE III

Name of Hospital	Location	Total collective days' stay of patients during year.	Total cost of dietaries.	Other maintenance costs.	Total maintenance cost.	Average cost of each patient per day.
Parkwood Hospital for Incurables.....	London.....	32,624	9,852 99	33,033 47	42,886 46	1 31
Perley Home for Incurables.....	Ottawa.....	29,650	9,491 80	36,734 06	46,225 86	1 56
St. Vincent Hospital for Incurables.....	".....	36,360	5,566 98	77,470 07	83,037 05	2 28
Toronto Hospital for Incurables.....	Toronto.....	106,720	79,936 65	195,067 13	275,003 78	2 58
Home for Incurable Children.....	".....	13,162	6,009 79	18,977 67	24,987 46	1 90
Mercy Hospital for Incurables.....	".....	24,026	12,802 74	39,337 93	52,140 67	2 17
Totals.....	.....	242,542	123,660 95	400,620 33	524,281 28	2 16

TABLE IV

Name of Hospital	Location	Income from Provincial Government for grants.	Income from patients for maintenance, miscellaneous suits, etc.	Income and grants from municipalities for patients' maintenance and treatment.	Income from investments, endowments, etc.	Donations, bequests and other gratuitous income.	Total income from all sources.
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Parkwood Hospital for Incurables.....	London.....	17,423 40	26,108 78	29,871 74	2,103 31	13,283 75	88,790 98
Perley Home for Incurables.....	Ottawa.....	17,530 00	18,525 78	10,175 00	929 01	4,421 75	51,581 54
St. Vincent Hospital for Incurables.....	".....	22,860 00	9,306 75	35,596 22	.....	13,936 56	81,699 53
Toronto Hospital for Incurables.....	Toronto.....	61,602 60	43,537 46	149,592 85	5,856 13	6,113 30	266,702 34
Home for Incurable Children.....	".....	7,897 20	2,549 50	1,684 75	5,558 06	14,281 16	31,970 67
Mercy Hospital for Incurables.....	".....	21,625 20	5,427 61	59,213 25	2,183 11	140 00	88,589 17
Totals.....	.....	148,938 40	105,455 88	286,133 81	16,629 62	52,176 52	609,334 23

CITY REFUGES

TABLE I

Name of Refuge	Location	Number of beds.	Number of inmates on Sept. 30, 1929.	Number admitted during the year.	Total number under lodgement during the year.	Total number discharged during the year.	Number of deaths during the year.	Number remaining in on Sept. 30, 1930.
Home for Friendless	Belleville	15	13	3	16	2	1	13
The Widows' Home	Brantford	16	15	2	17	5		12
Home for the Friendless	Chatham	47	36	25	61	19	6	36
St. Paul's Home for the Aged	Cornwall	100	56	53	109	38	12	59
House of Providence	Dundas	140	127	47	174	29	18	127
Elliott Home	Guelph	27	25	10	35	6	7	22
House of Providence	"	42	36	23	59	20	8	31
Aged Women's Home	Hamilton	51	54	1	55		4	51
Home for Aged and Infirm	"	220	191	111	302	72	24	206
St. Peter's Infirmary	"	28	24	30	54	15	16	23
Home for Friendless Women and Infants	Kingston	30	18	56	74	48		26
House of Providence	"	175	154	78	232	67	34	131
House of Refuge	"	55	45	20	65	20	2	43
House of Providence	London	200	186	58	244	57	19	168
McCormack Home for the Aged	"	100	89	39	128	25	8	95
District of Nipissing House of Refuge	North Bay	60	41	26	67	18	10	39
Elizabeth Residence for Elderly Ladies	Ottawa	23	22	12	34	11		23
Monastery of Our Lady of Charity	"	250	161	80	241	92	1	148
Ottawa Home for Friendless Women	"	44	29	95	124	85		39
Protestant Home for the Aged	"	44	30	15	45	14	5	26
Protestant Orphans' Home, Refuge Branch	"	27	28	7	35	8	4	23
St. Charles Hospice	"	320	249	81	330	52	39	239
St. Patrick's Asylum, Refuge Branch	"	115	105	37	142	22	12	108
Women's Convalescent Home	"	18	8	127	135	130		5
Parry Sound District House of Refuge	Powassan	40	19	11	30	2	5	23
Peterborough House Protestant Home	Peterborough	45	41	22	63	23	1	39
St. Joseph's House of Providence	"	82	80	31	111	27	10	74
Thomas Williams Home	St. Thomas	24	15	12	27	6	2	19
District of Algoma House of Refuge	Sault Ste. Marie	100	71	46	117	20	14	83
Aged Men's Home	Toronto	58	56	26	82	16	8	58
Aged Women's Home	"	112	109	18	127	9	9	109
Church Home for the Aged	"	39	33	22	55	15	2	38
Good Shepherd Female Refuge	"	190	148	113	261	100	2	159
Haven and Prison Gate Mission	"	84	68	163	231	162		69
Hillcrest Convalescent Home	"	43	32	142	174	146	2	26
Pentecostal Bethel	"	10	3	35	38	36		2
Toronto House of Industry	"	170	123	103	226	94	19	113
House of Providence	"	466	416	376	792	326	32	434
Humewood House Association	"	20	29	79	108	80		28
Jewish Old Folks' Home	"	62	37	14	51	6	4	41
St. Mary's Convalescent Home	"	26	7	59	66	52		14
Julia Greenshields' Home	"	30	30	6	36	3	4	29
Salvation Army Rescue Home	"	50	55	443	498	437		61
Toronto Industrial Refuge	"	90	75	60	135	44	1	90
Victor Home for Young Women	"	30	35	106	141	113		28
Home for the Friendless	Windsor	36	36	17	53	17	2	34
Totals		3,954	3,260	2,940	6,200	2,589	347	3,264

CITY REFUGES—Continued

TABLE II

Name of Refuge	Location	Total collective days' stay of inmates.	Total cost of dietaries	Other maintenance costs.	Total maintenance cost.	Average cost of each inmate per day.
			\$ c.	\$ c.	\$ c.	\$ c.
Home for Friendless.....	Belleville.....	4,885	942 07	1,661 93	2,604 00	53
The Widows' Home.....	Brantford.....	4,939	1,177 78	2,237 89	3,415 67	69
Home for the Friendless.....	Chatham.....	13,502	2,751 92	12,932 15	15,684 07	1 16
St. Paul's Home for the Aged.....	Cornwall.....	21,865	4,181 86	7,349 56	11,531 42	53
House of Providence.....	Dundas.....	45,671	15,462 91	27,344 60	42,807 51	94
Elliott Home.....	Guelph.....	8,688	3,872 47	7,878 14	11,750 61	1 35
House of Providence.....	".....	12,040	3,334 96	10,389 40	13,724 36	1 14
Aged Women's Home.....	Hamilton.....	19,202	4,122 28	12,045 18	16,167 46	84
Home for Aged and Infirm.....	".....	68,197	18,226 86	31,615 46	49,842 32	73
St. Peter's Infirmary.....	".....	9,165	3,109 13	8,720 88	11,830 01	1 29
Home for Friendless Women and Infants.....	Kingston.....	6,248	1,054 93	1,412 96	2,467 89	39
House of Providence.....	".....	55,019	24,252 50	24,731 63	48,984 13	89
House of Refuge.....	".....	16,044	4,887 95	8,045 60	12,933 55	81
House of Providence.....	London.....	65,473	15,975 62	26,352 55	42,328 17	65
McCormack Home for the Aged.....	".....	33,600	9,123 58	20,586 79	29,710 37	88
District of Nipissing House of Refuge.....	North Bay.....	14,285	4,190 89	9,520 62	13,711 51	96
Elizabeth Residence for Elderly Ladies.....	Ottawa.....	8,245	3,256 21	5,763 87	9,020 08	1 09
Monastery of Our Lady of Charity.....	".....	55,613	9,586 27	21,203 10	30,789 37	55
Ottawa Home for Friendless Women.....	".....	14,551	3,026 30	30,198 37	33,224 67	2 28
Protestant Home for the Aged.....	".....	9,528	2,356 13	6,055 24	8,411 37	88
Protestant Orphans' Home, Refuge Branch.....	".....	8,807	3,838 76	13,708 24	17,547 00	1 99
St. Charles Hospice.....	".....	90,615	29,368 24	90,303 04	119,671 28	1 32
St. Patrick's Asylum, Refuge Branch.....	".....	40,457	7,456 82	21,027 04	28,483 86	70
Women's Convalescent Home.....	".....	3,088	1,869 84	4,550 73	6,420 57	2 08
Parry Sound District House of Refuge.....	Powassan.....	6,942	1,473 67	6,384 85	7,858 52	1 13
Peterborough Protestant Home.....	Peterborough.....	13,033	3,769 11	8,191 79	11,960 90	92
St. Joseph's House of Providence.....	".....	28,366	6,763 99	9,503 48	16,267 47	57
Thomas Williams Home.....	St. Thomas.....	6,330	1,926 65	10,953 40	12,880 05	2 03
District of Algoma House of Refuge.....	Sault Ste. Marie.....	28,436	5,370 17	12,370 04	17,740 21	62
Aged Men's Home.....	Toronto.....	20,773	6,642 57	16,030 83	22,673 40	1 09
Aged Women's Home.....	".....	39,938	13,898 75	26,044 74	39,943 49	1 00
Church Home for the Aged.....	".....	13,237	6,235 43	11,684 68	17,920 11	1 35
Good Shepherd Female Refuge.....	".....	58,611	17,433 30	30,239 96	47,673 26	81
Haven and Prison Gate Mission.....	".....	27,709	8,177 14	24,823 60	33,000 74	1 19
Hillcrest Convalescent Home.....	".....	9,949	6,033 02	10,666 99	16,700 01	1 68
Pentecostal Bethel.....	".....	1,818	687 53	723 07	1,410 60	77
Toronto House of Industry.....	".....	41,947	301,892 46	103,545 93	405,438 39	*
House of Providence.....	".....	152,003	40,121 58	67,771 38	107,892 96	71
Humewood House Association.....	".....	10,913	2,933 60	7,171 36	10,104 96	92
Jewish Old Folks' Home.....	".....	14,559	4,508 04	12,965 04	17,473 08	1 20
St. Mary's Convalescent Home.....	".....	4,464	1,560 88	5,049 12	6,610 00	1 48
Julia Greenfields Home.....	".....	10,469	4,995 39	9,127 78	14,123 17	1 35
Salvation Army Rescue Home.....	".....	21,063	3,814 74	11,667 06	15,481 80	73
Toronto Industrial Refuge.....	".....	30,725	10,249 81	31,062 32	41,312 13	1 34
Victor Home for Young Women.....	".....	13,119	1,963 04	5,315 61	8,278 65	63
Home for the Friendless.....	Windsor.....	13,637	3,173 87	3,373 49	6,547 36	48
Totals.....		1,197,768	631,051 02	831,301 49	1,462,352 51	1 22

*Not available on account of expense for outdoor relief.

TABLE III

Name of Refugee	Location	Income from Provincial Government for grant.	Income from patients for maintenance, miscellaneous, sales, etc.	Income from municipalities and treatment.	Income from investments, endowments, etc.	Income from donations, bequests and other gratuities	Special grants, donations, etc., for new buildings, equipment, etc.	Total income from all sources.
		\$	\$	\$	\$	\$	\$	\$
Home for Friendless.	Belleville.	488 00	425 00	1,800 00		255 00		2,948 00
The Widows' Home.	Brantford.	493 80	1,300 47		1,784 41	1,173 17		4,751 85
Home for the Friendless.	Chatham.	1,342 60	3,283 49	10,200 00	166 56	1,000 00		15,992 65
St. Paul's Home for the Aged.	Corwall.	2,186 30	7,551 95		784 41	2,402 10		12,894 74
House of Providence.	Dundas.	4,560 20	20,425 84	2,137 53		11,358 26		38,481 83
Elliot's Home.	Guelph.	871 60	10,320 40		983 15	210 00		12,385 15
House of Providence.	"	1,203 30	5,142 00	3,097 36		4,920 00		14,362 66
Aged Women's Home.	Hamilton.	1,921 00	44 54	3,881 20	4,792 43	3,926 78		14,565 95
Home for Aged and Infirm.	"	6,858 50	15,258 20	28,250 32		5 00		50,367 02
St. Peter's Infirmary.	"	840 00	13,910 21	1,000 00	55 00			15,810 21
Home for Friendless Women and Infants.	Kingston.	388 00	1,224 00	5,000 00	188 46	919 23		3,219 69
House of Providence.	"	5,495 45	21,428 77	6,410 19	1,044 26	26,781 54		61,230 21
House of Refuge.	"	769 60	3,423 12	6,289 61	2,927 03	370 00		13,779 36
House of Providence.	London.	6,547 20	21,648 28	4,521 00		9,991 16		42,707 64
McCormack Home for the Aged.	"	3,360 10	13,012 93	12,458 50	1,729 94	15,402 77		45,964 24
District of Nipissing House of Refuge.	North Bay.	1,445 00	4,138 41	9,889 10	240 00	54 49		15,712 51
Elizabeth Residence for Elderly Ladies.	Ottawa.	745 40	9,159 18		115 70			10,074 77
Monastery of Our Lady of Charity.	"	5,054 55	11,895 66	608 10		10,188 63		27,746 94
Ottawa Home for Friendless Women.	"	1,372 25	34,235 34		865 82	81 00		36,554 41
Protestant Home for the Aged.	"	952 30	2,902 99	1,270 80		3,518 78		8,644 87
Protestant Orphans' Home, Refuge Branch.	"	1,202 40	6,920 62	1,146 30	24,732 32	15,672 91		49,674 55
St. Charles Hospice.	"	9,044 30	75,485 35	15,066 71		24,000 00		123,596 36
St. Patrick's Asylum, Refuge Branch.	"	4,479 20	18,963 94	3,026 70	724 88	11,818 33		39,013 05
Women's Convalescent Home.	"	257 00	2,388 55	304 10				2,949 65
Parry Sound District House of Refuge.	Powassan.	700 30	2,271 51	6,670 07	106 10	2,067 00		9,747 98
Peterborough Protestant Home.	Peterborough.	1,405 20	7,668 07	1,870 50	1,657 76	4,586 37		14,668 53
St. Joseph's House of Providence.	"	2,764 80	7,993 20	668 00		318 00		7,797 69
Thomas Williams Home.	St. Thomas.	634 60	2,411 11		4,433 98			21,509 69
District of Algoma House of Refuge.	"	2,553 80	3,521 64	15,434 25		6,214 58		26,846 71
Aged Men's Home.	Sault Ste. Marie.	2,077 30	15,051 76	1,544 04	1,959 59	8,101 07		47,564 44
Aged Women's Home.	Toronto.	3,993 80	31,986 38	2,071 56	1,411 63	4,825 60		18,908 18
Church Home for the Aged.	"	1,338 30	11,939 28		805 00			14,782 58
Good Shepherd Female Refuge.	"	5,783 40	32,101 46	275 00				49,034 86
Haven and Prison Gate Mission.	"	2,517 05	9,474 26	3,750 75	482 35	14,231 39		30,455 80
Hillcrest Convalescent Home.	"	857 70	13,252 50	1,601 00				15,711 20
Pentecostal Bethel.	"	192 50	492 00			1,512 19		2,196 69
Toronto House of Industry.	"	4,201 90	9,368 36	41,076 98	2,765 32	175 50		427,588 96
House of Providence.	"	15,203 90	58,569 78	15,684 50	121 70	20,438 51		110,037 59
Hunnewood House.	"	830 45	1,694 22		4,225 72	7,928 31		10,388 05
Jewish Old Folks Home.	"	1,456 60	1,075 80		3,600 81	16,078 84		27,288 05
St. Mary's Convalescent Home.	"	438 20	6,432 70		1,265 49	6,015 55	253 22	14,784 96
Stella Greenfields Home.	"	1,045 00	6,367 78					7,412 78
Salvation Army Rescue Home.	"	3,064 80	25,588 40	2,098 60		3,092 42		11,502 78
Toronto Industrial Rescue Home.	"	3,972 50	25,588 40	10,881 92	466 54	3,002 42		42,011 70
Victoria Home for Young Women.	"	920 10	4,606 15	517 65		50 00		7,953 90
Home for the Friendless.	Windsor.	1,340 50	2,031 63	3,510 00		3 75		6,885 88
Totals		116,871 45	567,033 34	589,112 34	60,962 14	251,542 79	253 22	1,585,775 28

ORPHANAGES

TABLE I

Name of Orphanage	Location	Number of beds.	Number of inmates on Sept. 30th, 1929.	Number admitted during the year.	Total number maintained during the year.	Total number discharged during the year.	Number of deaths during the year.	Number remaining in residence on Sept. 30th, 1930.
St. Joseph's Orphanage.....	Cobourg.....	35	30	18	48	22	1	25
Nazareth Orphanage.....	Cornwall.....	60	46	32	78	37		41
St. Joseph's Orphanage.....	Fort William.....	139	98	49	147	41		106
Boys' Home.....	Hamilton.....	70	44	17	61	20		41
Girls' Home.....	".....	64	35	33	68	28		40
Home for Friendless and Infants' Home.....	".....	120	83	105	188	112	2	74
St. Mary's Orphan Asylum.....	".....	135	121	86	207	73	2	132
Salvation Army Rescue Home.....	".....	25	22	117	139	116	2	21
Orphans' Home and Widows' Friend Society.....	Kingston.....	20	23	33	56	31		25
St. Mary's of the Lake Orphanage.....	".....	160	91	43	134	36		98
Kitchener Orphanage.....	Kitchener.....	31	31	13	44	14		30
Protestant Orphans' Home.....	London.....	55	56	45	101	51		50
Roman Catholic Orphans' Home.....	".....	207	190	92	282	75		207
Ronald Gray Memorial Home.....	".....	40	30	15	45	31		14
Salvation Army Rescue Home and Children's Shelter.....	".....	40	50	94	144	101		43
Misericordia Refuge and Orphans' Home.....	Ottawa.....	175	136	423	559	363	45	151
Protestant Orphans' Home.....	".....	36	41	22	63	51		12
Ottawa Protestant Infants' Home.....	".....	36	40	74	114	60		54
St. Joseph's Orphanage.....	".....	265	253	88	341	89		252
St. Patrick's Orphan Asylum.....	".....	80	56	46	102	48		54
Salvation Army Rescue Home and Children's Shelter.....	".....	103	84	271	355	292	1	62
St. Vincent Orphanage.....	Peterborough.....	38	20	33	53	29		24
Loyal True Blue Orphanage.....	Richmond Hill.....	200	127	47	174	23		151
St. Agatha Orphanage.....	St. Agatha.....	86	74	21	95	21	1	73
Protestant Orphans' Home.....	St. Catharines.....	36	28	18	46	14		32
Orphelinat d'Youville.....	Sudbury.....	55	52	44	96	41	2	53
Boys' Home.....	Toronto.....	62	48	38	86	37		49
Carmelite Orphanage.....	".....	58	50	16	66	18		48
Infants' Home and Infirmary.....	".....		282	570	852	496	3	353
Protestant Children's Home.....	".....		70	179	375	158		217
St. Mary's Infants' Home.....	".....		80	76	159	235	5	56
Sacred Heart Orphanage.....	".....		85	75	65	140		80
Working Boys' Home.....	".....		49	43	141	184		46
Jewish Children's Home.....	".....		45	44	23	67		45
Totals.....		2,760	2,658	3,087	5,745	2,922	64	2,759

ORPHANAGES—Continued

TABLE II

Name of Orphanage	Location	Total collective days' stay of inmates.	Total cost of dietaries.	Other maintenance costs.	Total maintenance cost.	Average cost of each inmate per day.
			\$ c.	\$ c.	\$ c.	\$ c.
St. Joseph's Orphanage.....	Cobourg.....	9,487	1,190 82	4,958 47	6,149 29	65
Nazareth Orphanage.....	Cornwall.....	16,831	2,787 52	4,703 89	7,491 41	45
St. Joseph's Orphanage.....	Fort William.....	18,557	7,703 69	18,874 03	26,577 72	1 43
Boys' Home.....	Hamilton.....	17,172	2,603 90	9,325 93	11,929 83	69
Girls' Home.....	".....	14,600	3,779 77	7,901 52	11,681 29	80
Home for Friendless and Infants' Home.....	".....	29,259	7,847 69	15,973 13	23,820 82	81
St. Mary's Orphan Asylum.....	".....	45,430	11,919 89	15,393 63	27,313 52	60
Salvation Army Rescue Home.....	".....	9,097	3,193 29	9,411 59	12,604 88	1 39
Orphans' Home and Widows' Friend Society.....	Kingston.....	8,533	947 77	9,482 05	10,429 82	1 22
St. Mary's of the Lake Orphanage.....	".....	34,985	6,262 42	14,709 04	20,971 46	60
Kitchener Orphanage.....	Kitchener.....	8,944	1,416 72	5,265 77	6,682 49	75
Protestant Orphans' Home.....	London.....	17,923	3,596 69	9,503 81	13,100 50	73
Roman Catholic Orphans' Home.....	".....	75,663	13,025 94	24,060 08	37,086 02	49
Ronald Gray Memorial Home.....	".....	9,389	1,682 29	4,147 70	5,829 99	62
Salvation Army Rescue Home and Children's Shelter.....	".....	19,787	.....	.....	.....	*
Misericordia Refuge and Orphans' Home.....	Ottawa.....	54,871	20,886 97	77,110 11	97,997 08	1 79
Protestant Orphans' Home.....	".....	9,580	3,838 76	13,708 24	17,547 00	1 83
Ottawa Protestant Infants' Home.....	".....	9,343	3,476 55	19,167 21	22,643 76	2 42
St. Joseph's Orphanage.....	".....	93,112	16,400 44	30,956 42	47,356 86	51
St. Patrick's Orphan Asylum.....	".....	20,224	7,456 82	21,027 04	28,483 86	1 41
Salvation Army Rescue Home and Children's Shelter.....	".....	26,133	3,963 78	13,241 12	17,204 90	66
St. Vincent Orphanage.....	Peterborough.....	8,373	1,908 26	5,465 34	7,373 60	88
Loyal True Blue Orphanage.....	Richmond Hill.....	52,886	7,937 25	27,970 43	35,907 68	68
St. Agatha Orphanage.....	St. Agatha.....	13,099	3,316 95	9,057 06	12,374 01	94
Protestant Orphans' Home.....	St. Catharines.....	11,714	1,928 09	3,153 19	5,081 28	43
Orphelinat d'Youville.....	Sudbury.....	19,535	3,605 84	4,613 06	8,218 90	42
Boys' Home.....	Toronto.....	18,082	4,766 39	16,174 70	20,941 09	1 16
Carmelite Orphanage.....	".....	18,591	3,503 78	13,412 98	16,916 76	91
Infants' Home and Infirmary.....	".....	119,151	.....	128,566 55	128,566 55	1 08
Protestant Children's Home.....	".....	71,639	43,517 10	32,326 20	75,843 30	1 06
St. Mary's Infants' Home.....	".....	26,083	10,194 93	11,828 44	22,023 37	84
Sacred Heart Orphanage.....	".....	28,512	5,661 27	12,658 94	18,320 21	64
Working Boys' Home.....	".....	16,437	5,927 73	9,944 06	15,871 79	97
Jewish Children's Home.....	".....	16,398	5,085 50	9,642 60	14,728 10	90
Totals.....	.....	969,420	221,334 81	613,734 33	835,069 14	86

*Financial return included in Hospital report.

ORPHANGES—Continued
TABLE III

Name of Orphanage	Location	Income from Provincial Government for grant.		Income from patients for maintenance and treatment, miscellaneous sales, etc.		Income from investments, endowments, etc.		Income from donations, bequests and other gratuitous income.		Special grants, donations, etc., for new buildings, new equipment, etc.		Total income from all sources.	
		\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.
St. Joseph's Orphanage.	Cobourg	477	65	705	40	186	00	5,999	04	4,762	80	6,130	65
Nazareth Orphanage.	Cornwall	841	80	906	40	8,848	86	5,999	04	7,747	34	7,747	34
St. Joseph's Orphanage.	Fort William	1,935	45	5,252	48	3,118	06	3,124	33	12,825	50	28,861	70
Boys' Home.	Hamilton	773	60	2,460	13	2,419	30	6,710	00	3,124	33	11,895	42
Girls' Home.	"	730	00	1,320	17	2,936	00	7,100	00	11,690	00	11,690	00
Home for Friendless and Infants' Home.	"	1,817	40	3,925	91	8,604	00	8,023	40	6,333	97	23,595	78
St. Mary's Orphan Asylum.	"	2,345	60	3,619	61	6,333	97	16,638	01	28,937	10	28,937	10
Salvation Army Rescue Home.	"	732	55	9,369	37	1,431	10	577	00	12,110	02	12,110	02
Orphans' Home and Widows' Friend Society.	Kingston	441	45	559	07	2,175	60	2,589	75	10,745	87	10,745	87
St. Mary's of the Lake Orphanage.	"	1,735	95	3,239	74	1,479	90	11,331	78	17,805	37	17,805	37
Kitchener Orphanage.	Kitchener	449	75	53	45	550	00	2,725	58	9,128	28	9,128	28
Protestant Orphans' Home.	London	902	60	2,629	25	7,112	66	6,155	92	15,423	29	15,423	29
Roman Catholic Orphans' Home.	"	3,950	65	2,973	08			26,223	49	40,259	88	40,259	88
Ronald Gray Memorial Home.	"	465	35	2,771	48			702	50	3,939	33	3,939	33
Salvation Army Rescue Home and Children's Shelter.	Ottawa	1,330	80	50,309	05	10,102	00	25,224	34	89,429	08	89,429	08
Misericordia Refuge and Orphans' Home.	"	3,712	05	6,920	62	1,146	30	24,732	32	15,672	91	48,954	00
Protestant Orphans' Home.	"	481	85	10,334	90	2,283	15	3,189	25	11,061	52	27,498	02
Ottawa Protestant Infants' Home.	"	629	20	5,561	51	13,019	85	71	36	23,472	71	46,826	33
St. Joseph's Orphanage.	"	4,700	90	18,963	94	3,026	70	724	88	11,818	33	35,537	45
St. Patrick's Orphan Asylum.	"	1,003	60	8,000	76	862	65			1,078	04	11,731	10
Salvation Army Rescue Home and Children's Shelter.	Peterborough	1,789	65	8,000	76	25	00			5,611	80	7,408	00
St. Vincent Orphanage.	Richmond Hill	419	85	1,351	35					37,681	70	52,963	04
Loyal True Blue Orphanage.	St. Agatha	2,662	80	5,515	50	800	00			9,867	17	11,975	92
Protestant Orphans' Home.	St. Catharines	1,308	75	3,705	85					2,550	57	6,861	68
Orphelinat d'Youville.	Sudbury	567	15	540	80					7,357	13	14,991	34
Boys' Home.	Toronto	1,191	95	4,392	50	2,732	15	3,203	16	7,935	00	19,669	65
Carmelite Orphanage.	"	902	10	1,458	00	19,791	72	1,151	38	10,978	88	14,550	26
Infants' Home and Infirmary.	"	6,488	00	37,790	84	6,841	75	15,263	26	46,606	18	72,736	21
Protestant Children's Home.	"	3,222	60	302	42	1,558	75			17,509	44	21,775	74
St. Mary's Infants' Home.	"	1,840	05	867	50	1,553	95			500	00	18,642	95
Sacred Heart Orphanage.	"	1,177	25	1,270	00	500	00	48	10	2,546	25	15,631	69
Woking Boys' Home.	"	825	35	11,711	81	642	25			7,642	93	14,953	01
Jewish Children's Home.	"	841	30	5,826	51								
Totals.		54,135	20	214,609	00	107,642	37	85,551	19	415,997	41	2,736,411	88

*Financial return included in Hospital report.

Sixty-Third Annual Report

OF THE

Inspector of Prisons and Public Charities

UPON THE

Prisons and Reformatories

OF THE

PROVINCE OF ONTARIO

BEING FOR THE YEAR ENDING 31st OCTOBER

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

SESSIONAL PAPER No. 18, 1931



ONTARIO

TORONTO

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1931

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INTRODUCTION

The Annual Report of Prisons and Reformatories of Ontario for the year 1930 contains statistical information of value to all who are interested in methods of crime, social conditions, and moral progress. This report does not include the total number of persons brought before the Courts, but is limited to the number of persons who were convicted and sentenced to prison terms.

During the year 1930 there were 29,126 persons convicted and sent to gaols or other penal institutions—an increase of 3,146 over 1929, or 12 per cent. The total cost of maintaining these prisoners in gaols was \$436,596.05. The average daily cost of food was 19 cents, and the average daily cost per capita was 95 cents. The Province paid \$189,267.55 towards the support of non-municipal prisoners.

There were 19,033 convicted for first offences in 1930 and 10,093 convicted for second and further offences. Unfortunately these 10,093 prisoners did not find in the first penalty a sufficient form of deterrent.

So far as Ontario is concerned with crime it has definite jurisdiction over the two classes; that is, crimes by persons against the State, and crimes committed by persons against each other. The Gaol Report classifies crime under these headings, and by reference it will be seen that the crimes against the State, including property, amount to 27,836 for which prison terms were imposed, and crimes against others amount to 1,213. The interests of the State therefore are vitally connected with crime, which is all the more reason why the State must assume not only its legal obligation but its moral obligation to deal with crime, having in view its prevention.

We may expect too much to hope that the State can either reform or regenerate the criminal nature, but it is not too much to expect that the penalty should be a deterrent, and when it fails to deter the whole programme of arrest, trial, sentence and prison punishment is largely wasted energy. This is why we feel that it is unwise to yield to the constantly increasing pressure from certain ill-advised sections of society to supply all suggested improved conditions in the common gaols simply because criminals before their conviction were accustomed to certain social privileges and luxuries. The gaol is no place for either privilege or luxury. It is a place for punishment carried out in a reasonable manner, and in proportion as it functions properly in that respect it becomes a deterrent to the would-be prisoner, and a valuable institution in the State.

Following the statistical tables and the individual reports of the Superintendents of the Provincial Penal Institutions may be found the Report of the Salvation Army, the Annual Report of the Ontario Board of Parole for the year ended October 31st, 1930, and a Special Report of the Commissioner for Extra Mural Employment covering a period of ten years and from which information of much value can be obtained by all students and workers in social reform. This latter report is published in a separate booklet and copies may be had on application to the Commissioner at the Parliament Buildings, Toronto.

In this age when unemployment is recognized as leading in some degree to crime and when crime, its causes and its consequences form favourite topics

for discussion in the pulpit and on the platform, the operations of 47 gaols and seven Provincial Institutions and the observations of the several Superintendents thereof and of the Parole Board should have more than ordinary interest to the reader. Crime, apart from its demoralizing effects, is an enormously expensive liability to any community.

The year 1930 marked the opening of three new District Gaols in the northern part of the Province. It might be mentioned that the gaols in the Judicial Districts are owned and operated entirely as Provincial Institutions. The gaols at Kenora, Sudbury and North Bay had become obsolete and altogether insufficient to meet the needs of growing communities. In planning and constructing these new institutions, the Provincial administration merely recognized the fact that gaols like all other structures become obsolete and in course of time must be replaced.

In completing the new gaols at the points indicated, almost every modern feature of gaol construction was included. The buildings are fireproof with brick structural walls, concrete floors and flat roof construction. Structural tile is used in quantities, the ceilings and walls have plaster finish and the floor finish is cement throughout except in special rooms. Considerable use is made of floor tile and wall tile in parts of the institutions. No effort has been spared to furnish a type of construction which makes it comparatively simple to keep these gaols in a clean and sanitary condition throughout.

The cell equipment throughout is of steel-plate construction with steel-grill fronts and with grill-enclosed day spaces. No effort has been spared to make the construction of a type which gives a maximum of custodial safety with the minimum of risk to the gaoler and staff. Individual toilet accommodation is provided for each cell.

The heating system is by low-pressure steam with direct radiation; at Kenora and North Bay the heating plants being in the basements of the gaol buildings and at Sudbury the heating plant being in the Court House adjoining.

Provision is made for the storage of food supplies and food for prisoners and officers is prepared in the gaol kitchen. Special dining tables are provided with attached seats, in the cell day spaces for prisoners meals.

A special feature which might be mentioned is the provision within the gaol walls of a place for execution, eliminating the discredited practice of building scaffolds in adjoining yards for these unhappy occurrences.

Small laundries are provided in the gaols for washing prisoners' clothing and sterilizing units are also being included.

Sudbury Gaol can comfortably house a population of 70, North Bay Gaol 59 and Kenora 26.

It will be recalled that within recent years modern gaols have been constructed at Port Arthur, Sault Ste. Marie and Haileybury. District Gaols of the old type are still in use at Fort Frances, Gore Bay, Bracebridge and Parry Sound. Consideration is being given to the matter of overhauling the Gore Bay Gaol and it will probably be necessary in the immediate future that consideration must be given to the erection of new structures at Fort Frances and Bracebridge.

Regular inspections have been made of the District Gaols and also the County Gaols in the southern part of the Province. The Department is sparing no effort to have the County Gaols brought up to a proper and modern standard.

The work of the Ontario Reformatory at Guelph is so well known as to require little comment. Operations at this point will be materially assisted in the near future by the removal of over 100 criminal insane to a new building in course of construction in connection with the Ontario Hospital, Penetang. The various industries at Guelph are in a thriving condition. Special mention might be made of the Abattoir, the Canning Factory, the Wood-working Shop, the Woollen Mill and also the newly installed Tailor Shop and Mattress Factory. The progress in landscape development is being continued and will furnish much outdoor work over a long period of years to come. Agricultural operations have been highly successful.

At Burwash agricultural operations are going forward satisfactorily and the work of clearing land and taking out logs and firewood continues. The same remarks apply to Fort William where one of the smaller industrial farms is located.

The Andrew Mercer Reformatory for Females continues to function satisfactorily. The inmates are largely engaged in the manufacture of clothing, such as overalls, smocks, dresses, etc., this clothing being used mainly in the Ontario Hospitals.

The Industrial Farms for Men and Women located at Langstaff and Concord respectively continue to serve an extremely useful purpose. At these institutions are housed mainly short-term prisoners from Toronto Gaol.

In conclusion it should be said that the mental hospitals of the Province use, very largely, the products of the Mercer, the Guelph Reformatory and the Ontario Brick and Tile Plant at Mimico. The operation of the prison industries makes available to the Government large quantities of goods at a reasonable price and has the effect of keeping all inmates fully employed.

H. M. ROBBINS,
Deputy Provincial Secretary.

Sixty-Third Annual Report

UPON THE

Gaols in Ontario

The following statistics have been selected from the ensuing tables as being of special interest:

(1) Number of gaols in Ontario. 47

(2) Total expenditure for gaol maintenance in Ontario:

In 1929. \$409,896 95

In 1930. 436,596 08

Increase. \$26,699 13

(3) The cash revenue from gaol labour in 1930 was \$2,219.59 and was earned at Kingston and Ottawa.

Average maintenance cost per day per prisoner. 95 cents

Average cost per day per prisoner—food, fuel and clothing. . . 36 cents

(4) Number of persons committed during the past two years:

In 1929. 25,980

In 1930. 29,126

Increase. 3,146

Commitments for murder in 1929. 27

Commitments for murder in 1930. 29

Increase. 2

Commitments for manslaughter in 1929. 55

Commitments for manslaughter in 1930. 56

Increase. 1

Commitments for crime against the person:

In 1929. 903

In 1930. 1,128

Increase. 225

Commitments for crime against property:

In 1929. 5,539

In 1930. 7,168

Increase. 1,629

Commitments for crime against public morals and decency:		
In 1929.....		610
In 1930.....		671
		<hr/>
Increase.....		61
Commitments for crime against public order and peace:		
In 1929.....		17,086
In 1930.....		18,166
		<hr/>
Increase.....		1,080
Commitments for insanity:		
In 1929.....		390
In 1930.....		313
		<hr/>
Decrease.....		77
Number of prisoners sentenced:		
In 1929.....		17,626
In 1930.....		21,421
		<hr/>
Increase.....		3,795
Number of days' stay of prisoners:		
In 1929.....		393,752
In 1930.....		459,111
		<hr/>
Increase.....		65,359
Escapes and captures:		
	Escaped	Captured
In 1929.....	15	12
In 1930.....	32	25
Deaths in gaols:		
In 1929.....		14
In 1930.....		11

COMMON GAOLS

The following table shows the number of prisoners committed to the Common Gaols in the Province in each year, from October 1st, 1913, to September 30th, 1930:

Date of Commitment	Men over 16 years of age.	Boys under 16 years of age.	Women over 16 years of age.	Girls under 16 years of age.	Totals.
Commitments for the year ending September 30th, 1913	17,442	85	1,713	10	19,250
“ “ “ 1914	21,024	84	1,665	4	22,777
“ “ “ 1915	18,566	90	1,669	12	20,337
“ “ “ 1916	14,506	80	1,502	12	16,100
“ “ “ 1917	11,417	142	878	8	12,445
“ “ “ 1918	12,182	136	914	10	13,242
“ “ “ 1919	12,034	183	872	7	13,096
“ “ “ 1920	13,759	106	882	9	14,756
“ “ “ 1921	16,526	93	1,168	13	16,800
“ “ “ 1922	13,360	126	1,300	14	14,800
“ “ “ 1923	12,766	80	1,135	14	13,995
“ “ “ 1924	14,564	78	1,211	26	15,879
“ “ “ 1925	16,343	98	1,567	15	18,023
“ “ “ 1926	16,502	62	1,460	9	18,033
“ “ “ 1927	19,564	110	884	20	20,578
“ “ “ 1928	22,047	89	1,638	12	23,786
“ “ “ 1929	24,285	123	1,695	17	25,980
“ “ “ 1930	27,342	126	1,644	14	29,126

The places of confinement to which the convicted persons were sentenced are set forth in the following statement, and similar information is given as regards the sentenced prisoners the previous year:

	1929	1930
Sentenced to Kingston Penitentiary	314	546
“ to the Industrial School	117	46
“ direct to the Ontario Reformatory	1,239	1,563
“ to the Common Gaols and subsequently transferred to the Ontario Reformatory	5,329	7,442
“ direct to the Reformatory for Females	135	147
“ to the Common Gaols and subsequently transferred to the Ontario Reformatory for Females	96	34
“ to the Common Gaols and there detained until the expiration of sentence	10,296	11,509
Died while undergoing sentence	11	8
Sentenced elsewhere	89	126
	17,626	21,421

The following table shows the period of sentence passed on the convicted prisoners:

	PERIOD OF SENTENCE	
	1929	1930
For periods under thirty days.....	6,100	7,220
For thirty days and up to sixty days or two months, not including the last term	4,984	5,395
For sixty days or two months.....	1,462	1,300
Over two months to three months.....	1,636	2,187
Over three months to four months.....	357	388
Over four months to five months.....	68	161
Over five months to six months.....	831	707
Over six months to nine months.....	223	195
Over nine months up to one year, inclusive.....	307	367
Over one year and up to two years.....	880	1,207
Over two years and up to three years in the penitentiary.....	214	357
Over three years in the penitentiary.....	136	167
For periods of any length, Reformatories and Industrial Schools.....	372	1,736
Sentenced to death and executed.....	4	3
Sentenced to death and commuted to imprisonment.....	3	1
Sentenced to imprisonment with corporal punishment.....	49	30
	<u>17,626</u>	<u>21,421</u>

The following table shows the sex, social conditions, habits, and educational status of all prisoners committed:

	SEX	
	1929	1930
Male.....	24,285	27,468
Female.....	1,695	1,658
	<u>25,980</u>	<u>29,126</u>
	SOCIAL CONDITIONS	
	1929	1930
Married.....	10,415	10,097
Unmarried.....	15,565	19,029
	<u>25,980</u>	<u>29,126</u>
	HABITS	
	1929	1930
Temperate.....	8,994	11,194
Intemperate.....	16,986	17,932
	<u>25,980</u>	<u>29,126</u>
	EDUCATIONAL STATUS	
	1929	1930
Could read and write.....	23,566	26,938
Could neither read nor write.....	2,414	2,188
	<u>25,980</u>	<u>29,126</u>

The following table shows the nationality and religion of all prisoners committed:

	NATIONALITY	
	1929	1930
Canadian-born.....	16,776	19,114
English.....	2,288	2,553
Irish.....	921	1,198
Scotch.....	1,217	1,346
United States.....	1,254	1,248
Other countries.....	3,524	3,667
	<u>25,980</u>	<u>29,126</u>
	RELIGIOUS DENOMINATIONS	
	1929	1930
Roman Catholic.....	10,410	11,573
English Church.....	4,426	5,218
Presbyterian.....	2,832	4,401
United.....	2,859	3,052
Other denominations.....	5,453	4,882
	<u>25,980</u>	<u>29,126</u>

The following tables show the classification of the offences committed and show the number of persons committed and sentenced.

I. CRIMES AGAINST THE PERSON

	Total commitments for the year			Number found guilty and sentenced;		
	Male	Female	Total	Male	Female	Total
Abduction.....	32	.....	32	2	.....	2
Abortion.....	9	7	16	6	4	10
Assault, common.....	576	11	587	375	5	380
Assault, felonious.....	159	.....	159	86	.....	86
Attempted suicide.....	57	8	65	27	2	29
Cutting, wounding, stabbing and shooting with intent.....	90	2	92	46	.....	46
Manslaughter.....	54	2	56	18	1	19
Murder.....	25	4	29	5	.....	5
Rape and assault with intent.....	92	.....	92	40	.....	40
Totals.....	1,094	34	1,128	605	12	617

II. CRIMES AGAINST PROPERTY

	Total commitments for the year			Number found guilty and sentenced		
	Male	Female	Total	Male	Female	Total
Arson and incendiarism.....	36	3	39	21	1	22
Burglary.....	378	7	385	217	1	218
Counterfeiting and passing counterfeit money.....	7	.....	7	2	.....	2
Destroying and injuring property....	274	19	293	178	10	188
Embezzlement.....	3	.....	3	1	.....	1
Forgery.....	290	13	303	212	8	220
Fraud and obtaining money and goods under false pretences.....	789	47	836	526	21	547
Horse, cattle and sheep stealing.....	28	.....	28	17	.....	17
Housebreaking and robbery.....	992	6	998	699	2	701
Larceny.....	2,645	130	2,775	1,799	62	1,861
Receiving stolen goods.....	116	8	124	68	7	75
Trespass.....	1,370	7	1,377	1,148	4	1,152
Totals.....	6,928	240	7,168	4,888	116	5,004

III. CRIMES AGAINST PUBLIC MORALS AND DECENCY

	Total commitments for the year			Number found guilty and sentenced		
	Male	Female	Total	Male	Female	Total
Bigamy.....	64	6	70	43	4	47
Indecent assault and exposure.....	162	4	166	98	3	101
Inmates and frequenters of houses of ill-fame.....	102	69	171	53	53	106
Keepers of houses of ill-fame.....	79	51	130	64	27	91
Perjury.....	24	1	25	13	.....	13
Prostitution.....	.....	44	44	.....	27	27
Seduction.....	65	.....	65	34	.....	34
Totals.....	496	175	671	305	114	419

IV. CRIMES AGAINST PUBLIC ORDER AND PEACE

	Total commitments for the year			Number found guilty and sentenced		
	Male	Female	Total	Male	Female	Total
Abusive and obscene language.....	29	5	34	22	3	25
Breaches of the by-laws.....	143	4	147	113	.....	113
Breaches of the Liquor Control Act..	4,315	258	4,573	3,533	184	3,717
Breaches of the Peace.....	150	3	153	122	3	125
Carrying unlawful weapons.....	113	1	114	79	.....	79
Contempt of Court.....	265	3	268	252	2	254
Cruelty to animals.....	15	.....	15	6	.....	6
Deserting employment.....	5	.....	5	4	.....	4
Deserting militia.....	7	.....	7	.....	.....	.....
Detained as witnesses.....	67	5	72	.....	.....	.....
Drunk and disorderly.....	8,034	298	8,332	7,172	203	7,375
Escaping from and constructing con- stable.....	74	9	83	47	5	52
Escaping from prison.....	49	1	50	46	1	47
Fraudulent debtors.....	90	.....	90	.....	.....	.....
Gambling.....	175	.....	175	89	.....	89
Lunatics and persons unsafe to be at large.....	260	53	313	.....	.....	.....
Misdemeanor.....	36	.....	36	23	.....	23
Refusing bail.....	.....	.....	.....	.....	.....	.....
Selling or giving liquor to Indians....	61	2	63	51	2	53
Threatening and seditious language..	46	.....	46	19	.....	19
Unlawful shooting.....	6	.....	6	4	.....	4
Vagrancy.....	3,122	450	3,572	2,002	287	2,289
Want of sureties to keep the peace...	12	.....	12	.....	.....	.....
Totals.....	17,074	1,092	18,166	13,584	690	14,274
Offences not classified.....	1,876	117	1,993	1,044	63	1,107
Grand Totals.....	27,468	1,658	29,126	20,426	995	21,421

TABLE

Showing the Names and Salaries of the Various Gaol

Name of Gaol	Number of Cells, Male	Number of Cells, Female	Names of		
			Sheriffs	Gaolers	Chief Matrons
Barrie.....	18	5	D. H. MacLaren . . .	J. J. Banting	Mrs. S. Banting
Belleville	32	6	B. Dorman	G. Ketcheson	" M. Ketcheson . . .
Bracebridge	13	2	J. G. Myers	Duncan MacDonald . . .	" A. MacDonald . . .
Brampton	20	4	N. Henderson	Wm. A. Partridge	" H. Partridge
Brantford	16	8	J. W. Westbrook	John Cork	" E. Cook
Brockville	28	5	Wm. J. Manahan	J. A. McLean	" M. McLean
Cayuga	9	3	W. S. Hudspeth	J. B. Smith	" J. B. Smith
Chatham	34	5	E. W. Hardy	M. W. Shaw	" Grace Shaw
Cobourg	17	7	D. J. Nesbitt	G. L. McLaughlin	" E. McLaughlin . . .
Cornwall	12	5	J. F. Ault	T. W. Ault	" J. Cowley
Fort Francis	8	2	W. A. Baker	J. E. Klng	" J. E. King
Goderich	13	3	C. G. Middleton	Jas. B. Reynolds	" J. B. Reynolds . . .
Gore Bay	6	6	J. Haddon Fell	J. W. Griffith	" H. E. Griffith . . .
Guelph	12	6	G. H. Dickson	Major T. L. Cosby	" T. L. Cosby
Haileybury	29	3	Geo. Caldbeck	J. L. Maltby	" C. Terrill
Hamilton	48	12	Leeming Carr	F. V. Lalonde	" E. Lalonde
Kenora	11	3	J. W. Humble	E. W. Cox	" M. Cox
Kingston	29	20	Robt. F. Vair	J. T. Hawkey	" Mary Maudson
Kitchener	15	6	Wm. A. Kribs	L. C. Bullock	" Bullock
Lindsay	15	9	R. J. Patterson	H. W. Stone	" E. Stone
London	43	14	D. G. Graham	Chas. H. Mitchell	" North
L'Orignal	9	9	S. W. Wright	J. A. Sabourin	" J. A. Sabourin . . .
Milton	14	5	G. A. Brown	A. McGibbon	" I. McGibbon
Napanee	12	6	C. W. Vandervoort	Wm. R. Roe	" Margaret L. Roe . . .
North Bay	17	2	W. S. Wagar	J. W. Bourke	" T. Bourke
Orangeville	18	4	H. Endacott	G. A. Leighton	" M. Leighton
Ottawa	63	30	G. C. Richardson	A. G. Dawson	Mary O'Connell
Owen Sound	26	6	Wm. Breese	W. A. Grier	Isabel Wright
Parry Sound	20	2	G. E. Armstrong	T. W. Keating	Mrs. T. W. Keating . .
Pembroke	20	4	Alex Morris	Wm. Brown	" E. Brown
Perth	15	3	J. H. Ebbs	John Oates	" F. Oates
Peterborough	15	3	F. J. Hall	T. D. Johnston	" E. Johnston
Picton	12	6	L. J. Barker	Earl Croft	" H. Croft
Port Arthur	64	9	N. Edmeston	G. F. Lasseter	" G. F. Lasseter . . .
St. Catharines	31	4	H. O'Loughlin	J. J. Dundas	" L. Dundas
St. Thomas	12	4	F. Harding	C. Ermatinger	" R. Donaldson
Sandwich	80	32	C. N. Anderson	John S. Warden	" Jessie E. Warden . . .
Sarnia	11	2	A. J. Johnston	J. N. Dodd	Annie Gowrie
Sault Ste. Marie	20	3	C. M. McCreath	R. M. Hearst	" M. Hearst
Simcoe	15	5	W. Tisdale	G. W. Boughner	" A. Boughner
Stratford	26	4	M. F. Irvine	A. T. Trethewy	" A. Trethewy
Sudbury	20	2	A. Irving	W. H. O'Leary	" W. O'Leary
Toronto	194	30	Alex McCowan	Major G. H. Basher	" May Peers
Walkerton	20	4	John Rowland	M. Hyndman	" E. Hyndman
Welland	39	9	V. Davidson	D. Sharpe	" L. Schooley
Whitby	15	6	J. F. Paxton	H. Lucas	" I. Lucas
Woodstock	25	8	Wm. McGhee	R. G. Forbes	" M. Forbes
	1,241	336			

No. 1

Officials for the Year Ending September 30th, 1930.

Officials		Salaries of Officials				
Chief Turnkeys	Gaol Surgeons	Gaolers	Matrons	Turnkeys	Gaol Surgeons	Total Salaries
J. R. Weaymouth..	Dr. Wm. Little....	\$ 1,200 00	\$500 00	\$1,326 00	\$382 00	\$3,408 00
R. E. Colling.....	" A. D. Proctor...	700 00	400 00	650 00	250 00	2,000 00
Robt. Allen.....	" P. McGibbon...	1,400 00	300 00	.....	150 00	1,850 00
Chas. Sleinin.....	" F. Vanderlip...	720 00	250 00	600 00	100 00	1,670 00
John Harrison....	" R. H. Palmer....	1,500 00	450 00	4,616 00	380 00	6,946 00
W. J. Spittal.....	" E. B. Moles....	1,150 00	200 00	876 70	150 00	2,376 70
Wm. Henley.....	" A. Bromley....	1,100 00	200 00	1,162 70	140 00	2,602 70
R. A. Hutchinson..	" J. W. Coulter...	1,200 00	500 00	3,060 00	200 00	4,960 00
James Cowley....	.....	1,000 00	200 00	800 00	.....	2,000 00
J. Miller.....	" R. Alguire....	1,600 00	378 00	1,406 00	200 00	3,584 00
Kerwood White....	" Robt. Moore....	1,600 00	300 00	1,369 00	95 00	3,364 00
A. Wilson.....	" H. Taylor.....	1,000 00	225 00	950 00	129 00	2,295 00
F. F. Topham.....	.....	774 00	332 75	81 00	.....	1,187 75
C. Austin.....	" A. B. McCarter..	1,000 00	300 00	822 99	200 00	2,322 99
J. C. Hunter.....	" G. Jackson.....	1,800 00	300 00	5,683 50	300 00	8,083 50
Harry Warner....	.....	2,000 00	1,280 00	11,300 00	.....	14,580 00
E. W. Revelle....	" W. Gunne.....	1,150 00	321 00	1,687 50	200 00	3,358 50
E. Amos.....	" S. E. Porter....	1,500 00	428 00	2,034 00	300 00	4,262 00
Chas. Grozelle....	" G. D. McTaggart..	1,105 00	413 50	3,158 00	500 00	5,176 50
W. K. Gray.....	" J. A. White....	1,200 00	240 00	1,260 00	100 00	2,800 00
N. Landriault....	" D. H. Hogg....	1,620 00	1,601 52	9,146 79	700 00	13,068 31
A. Mayes.....	" G. S. Smith....	1,000 00	300 00	730 00	100 00	2,130 00
W. H. Roe.....	" M. Howland....	900 00	200 00	930 00	100 00	2,130 00
A. E. Knapp.....	" L. M. Galbraith..	583 34	200 00	616 66	75 00	1,475 00
W. C. Campbell....	" A. E. Ranney....	1,020 84	588 22	4,705 50	150 00	6,464 56
Geo. Young.....	" Hunter.....	1,300 00	400 00	575 00	125 00	2,400 00
W. H. Wright....	" J. F. Argue....	2,300 00	1,090 00	7,432 84	365 00	11,187 84
W. J. Tait.....	" T. H. Middlebro..	1,200 00	300 00	1,327 50	250 00	3,077 50
G. P. Boland.....	" M. H. Lambert..	1,000 00	300 00	2,447 50	150 00	3,927 50
Jas. Palmer.....	" G. E. Josephs....	1,700 00	225 00	1,003 75	100 00	3,028 75
Robt. Rae.....	" W. A. Meigher..	1,000 00	300 00	1,000 00	100 00	2,400 00
C. M. York.....	" J. A. Morgan....	924 00	266 66	1,426 64	200 00	2,817 30
Wm. Clinch.....	" T. S. Philp....	800 00	200 00	.....	75 00	1,075 00
R. Donaldson....	" J. A. Crozier....	2,000 00	360 00	6,123 00	252 00	8,735 00
Jas. Pillon.....	" L. H. Werden....	1,200 00	300 00	1,200 00	150 00	2,850 00
Geo. Gilbert.....	" D. Ewin.....	1,420 00	.....	2,400 00	150 00	3,970 00
Wm. Johnson....	" H. R. Casgrain..	666 69	911 56	11,256 66	1,200 00	14,034 91
Geo. Holden.....	" T. P. Bradley....	1,075 00	500 00	1,784 96	200 00	3,559 96
John Nichol....	" S. E. Fleming....	1,200 00	300 00	3,060 00	300 00	4,860 00
C. Shelswell....	" W. A. McIntosh..	840 00	250 00	1,200 00	75 00	2,365 00
Arthur Edwards..	" T. Rutherford..	1,100 00	470 00	1,070 00	150 00	2,790 00
M. J. Fidler.....	" Morrison.....	1,800 00	300 00	5,477 50	225 00	7,802 50
H. M. Schooley..	" W. T. Parry....	3,300 00	3,649 60	30,458 75	1,500 00	38,908 35
Wm. Pellow.....	" W. A. Hall.....	800 00	300 00	700 00	100 00	1,900 00
John Skinner....	" D. Allison....	1,500 00	400 00	4,250 00	200 00	6,350 00
.....	" C. McGillivray..	850 00	478 00	3,028 00	150 00	4,506 00
.....	" G. M. McKay....	1,000 00	320 00	1,314 00	200 00	2,834 00
.....	.....	58,798 87	22,028 81	147,538 44	11,109 00	239,475 12

TABLE

Showing the social status and habits of prisoners committed

Name of Gaol	Prisoners Married			Prisoners Unmarried		
	Male	Female	Total	Male	Female	Total
Barrie.....	71	4	75	140	2	142
Belleville.....	139	18	157	206	25	231
Bracebridge.....	24	3	27	43	2	45
Brampton.....	66	1	67	113	3	116
Brantford.....	96	4	100	182	2	184
Brockville.....	87	5	92	157	1	158
Cayuga.....	54	9	63	289	4	293
Chatham.....	139	21	160	275	20	295
Cobourg.....	78	3	81	119	4	123
Cornwall.....	92	5	97	139	4	143
Fort Frances.....	75	5	80	147	8	155
Goderich.....	43	2	45	67	1	68
Gore Bay.....	23	8	31	29	1	30
Guelfh.....	107	10	117	165	.....	165
Haileybury.....	119	16	135	287	8	295
Hamilton.....	567	76	643	795	45	840
Kenora.....	35	8	43	151	7	158
Kingston.....	106	13	119	155	3	158
Kitchener.....	104	3	107	204	11	215
Lindsay.....	38	6	44	81	3	84
London.....	370	62	432	635	33	668
L'Orignal.....	30	3	33	90	1	91
Milton.....	69	1	70	182	3	185
Napanee.....	30	1	31	82	3	85
North Bay.....	165	10	175	689	8	697
Orangeville.....	32	.....	32	21	.....	21
Ottawa.....	421	38	459	682	45	727
Owen Sound.....	95	2	97	98	3	101
Parry Sound.....	80	6	86	203	3	206
Pembroke.....	26	4	30	67	5	72
Perth.....	28	1	29	94	.....	94
Peterborough.....	147	9	156	258	20	278
Picton.....	34	1	35	61	1	62
Port Arthur.....	240	9	249	882	43	925
St. Catharines.....	108	4	112	208	3	211
St. Thomas.....	120	14	134	142	5	147
Sandwich.....	682	50	732	875	53	928
Sarnia.....	206	19	225	302	18	320
Sault Ste. Marie.....	142	20	162	314	23	337
Simcoe.....	108	3	111	183	6	189
Stratford.....	58	1	59	71	.....	71
Sudbury.....	516	34	550	2,296	51	2,347
Toronto.....	3,059	285	3,344	5,276	331	5,607
Walkerton.....	33	.....	33	76	5	81
Welland.....	202	11	213	409	8	417
Whitby.....	137	12	149	158	6	164
Woodstock.....	71	5	76	98	2	100
Totals.....	9,272	825	10,097	18,196	833	19,029

No. 2

during the year ending September 30th, 1930

Temperate			Intemperate			Illiterate		
Male	Female	Total	Male	Female	Total	Male	Female	Total
117	5	122	94	1	95	16	.....	16
239	41	280	106	2	108	32	1	33
53	5	58	14	.....	14	16	1	17
51	2	53	128	2	130	.....	.....	.....
80	1	81	198	5	203	10	.....	10
153	5	158	91	1	92	18	.....	18
177	6	183	166	7	173	13	2	15
252	33	285	162	8	170	38	.....	38
103	7	110	94	.....	94	8	.....	8
78	5	83	153	4	157	71	3	74
120	8	128	102	5	107	5	1	6
62	3	65	48	.....	48	6	.....	6
24	5	29	28	4	32	13	6	19
188	.....	188	84	10	94	.....	.....	.....
205	22	227	201	2	203	60	5	65
437	57	494	925	64	989	54	5	59
183	15	198	3	.....	3	42	7	49
46	7	53	215	9	224	2	1	3
85	9	94	223	5	228	1	.....	1
55	7	62	64	2	66	19	.....	19
290	48	338	715	47	762	9	1	10
120	4	124	.....	.....	.....	28	1	29
189	4	193	62	.....	62	4	.....	4
58	3	61	54	1	55	9	.....	9
398	14	412	456	4	460	149	3	152
49	.....	49	4	.....	4	.....	.....	.....
465	55	520	638	28	666	104	15	119
87	5	92	106	.....	106	13	.....	13
106	4	110	177	5	182	19	.....	19
30	9	39	63	.....	63	14	.....	14
29	1	30	93	.....	93	17	.....	17
388	29	417	17	.....	17	15	.....	15
39	2	41	56	.....	56	.....	.....	.....
557	11	568	565	41	606	34	.....	34
77	6	83	239	1	240	21	5	26
258	19	277	4	.....	4	18	4	22
348	40	388	1,209	63	1,272	185	6	191
80	8	88	428	29	457	25	3	28
135	18	153	321	25	346	71	5	86
89	7	96	202	2	204	21	.....	21
91	1	92	38	.....	38	16	1	17
946	53	999	1,866	32	1,898	276	7	283
2,321	246	2,567	6,014	370	6,384	518	37	555
63	5	68	46	.....	46	2	.....	2
172	15	187	439	4	443	49	.....	49
151	10	161	144	8	152	.....	.....	.....
88	2	90	81	5	86	16	1	17
10,332	862	11,194	17,136	796	17,932	2,067	121	2,188

TABLE

Showing the number of prisoners committed, the number over and under sixteen years of age, unsound mind, number acquitted on trial, number waiting trial,

Name of Gaol	Total number committed during the year			Number under 16 years of age			Number 16 years of age and over			For the first time	For the second time
	Male	Female	Total	Male	Female	Total	Male	Female	Total		
Barrie.....	211	6	217				211	6	217	138	32
Belleville.....	345	43	388	3		3	342	43	385	308	45
Bracebridge....	67	5	72				67	5	72	49	12
Brampton.....	179	4	183				179	4	183	132	36
Brantford.....	278	6	284	1	1	2	277	5	282	159	42
Brockville.....	244	6	250	2	1	3	242	5	247	190	31
Cayuga.....	343	13	356	6		6	337	13	350	264	35
Chatham.....	414	41	455	9	5	14	405	36	441	254	107
Cobourg.....	197	7	204	7		7	190	7	197	129	45
Cornwall.....	231	9	240	3	1	4	228	8	236	147	42
Fort Frances..	222	13	235	4		4	218	13	231	183	22
Goderich.....	110	3	113				110	3	113	74	22
Gore Bay.....	52	9	61	1		1	51	9	60	40	16
Guelph.....	272	10	282				272	10	282	154	69
Haileybury....	406	24	430	1		1	405	24	429	324	76
Hamilton.....	1,362	121	1,483				1,362	121	1,483	785	257
Kenora.....	186	15	201	16		16	170	15	185	183	13
Kingston.....	261	16	277				261	16	277	206	30
Kitchener.....	308	14	322	3		3	305	14	319	202	82
Lindsay.....	119	9	128	2		2	117	9	126	104	13
London.....	1,005	95	1,100	7		7	998	95	1,093	654	142
L'Orignal.....	120	4	124				120	4	124	105	11
Milton.....	251	4	255	1		1	250	4	254	170	60
Napanee.....	112	4	116	1	1	2	111	3	114	81	20
North Bay....	854	18	872	1	1	2	853	17	870	603	127
Orangeville....	53		53				53		53	47	6
Ottawa.....	1,103	83	1,186	1		1	1,102	83	1,185	1,115	57
Owen Sound...	193	5	198				193	5	198	100	34
Parry Sound...	283	9	292	1		1	282	9	291	275	16
Pembroke.....	93	9	102				93	9	102	97	2
Perth.....	122	1	123				122	1	123	92	10
Peterborough..	405	29	434	1		1	404	29	433	242	95
Picton.....	95	2	97				95	2	97	91	3
Port Arthur...	1,122	52	1,174	10		10	1,112	52	1,164	1,040	134
St. Catharines.	316	7	323	1		1	315	7	322	149	50
St. Thomas....	262	19	281	1		1	261	19	280	173	62
Sandwich.....	1,557	103	1,660				1,557	103	1,660	1,600	33
Sarnia.....	508	37	545	8	2	10	500	35	535	393	95
Sault Ste. Marie	456	43	499	13		13	443	43	486	326	96
Simcoe.....	291	9	300	4		4	287	9	296	202	64
Stratford.....	129	1	130	1		1	128	1	129	92	15
Sudbury.....	2,812	85	2,897	4	1	5	2,808	84	2,892	1,741	648
Toronto.....	8,335	616	8,951	8	1	9	8,327	615	8,942	4,798	1,936
Walkerton....	109	5	114				109	5	114	96	6
Welland.....	611	19	630	2		2	609	19	628	406	138
Whitby.....	295	18	313				295	18	313	155	78
Woodstock....	169	7	176	3		3	166	7	173	165	10
Totals.....	27,468	1,658	29,126	126	14	140	27,342	1,644	28,986	19,033	4,975

*Includes "Remands."

†Includes "Afterwards paid fines."

No. 3

the number of re-committals, the number for want of sureties to keep the peace, number of number sentenced, and the number committed under civil process.

For the third time	For more than the third time	For want of sureties to keep the peace	Witnesses	Lunatics and Idiots	Fraudulent Debtors	Under civil process	Accquitted on trial and discharged	Discharged without trial	Discharged under suspended sentence	Died before Trial	Waiting trial	Sentenced for any period
21	26			5	1	10	14	1	5		1	180
22	13			1		1	177					209
8	3			2			1	2	3			64
5	10						21	8	17		6	131
27	56			4			47		17		3	212
16	13		1	6		1	25	5	19		20	173
13	44			2		5	18		7		1	323
69	25			6			39	22	71		5	321
18	12					28	18	33			1	124
18	33	2	1	2	1		9	13	10		7	195
26	4		2	7			14	55	31		4	122
10	7		1	7	3		3		14			85
3	2					1	5		6		1	48
35	24			5					39			238
20	10		5	28			11	3	12		5	366
112	329	3	9	1	10		3	254	186		5	1,012
5				8			12	4	30		1	146
16	25			1		16	10	3	8		*27	212
24	14			2			80		36		8	196
7	4	2		10		1	8	6	21		7	73
57	247		1	5		2	428	26			9	629
7	1			1		1	11		1			110
13	12					136	5		10		4	100
8	7		3	2	2		18	1	15		4	71
65	77		1	16		1	84	8	10		2	750
				1		22	2		2			26
9	5			3			496		57		12	618
16	48			3	1	2	21	10	3		5	153
1				4			88	3	4		2	191
2	1			2			5		7			88
7	14			3			3		1		1	115
43	54			3				211			6	214
2	1			1								96
			1	43			63		12		4	1,051
41	83			1			35		8		8	270
28	18	1		1	11		33	41	34		5	155
15	12			16	96		516				22	1,010
33	24		1	3		1	18	213	1	1	5	302
56	21			20			73	57		1	11	337
27	7			4	2	†61	45	30	26		4	128
7	16		4	2		†11	9		7		*53	44
326	182			11	1		12	172	59		10	2,632
1,261	956		8	61	13		349	1,323	107	1	12	7,077
8	4			2			16		13		*19	64
45	41		2	2		6	32	19	69		8	492
37	43		10	3	1		120				7	172
1				5			19	21	31		4	96
2,590	2,528	8	52	315	142	306	3,007	2,544	1,009	3	319	21,421

TABLE

Showing the number of prisoners upon whom sentences

Name of Gaol	Total number of prisoners sentenced during the year			Where sentenced to								
	Male	Female	Total	To gaol and later to the reformatory	To reformatory direct	To gaol and later to female reformatory	To female reformatory direct	To penitentiary	To industrial school or refuge	Sentenced elsewhere	Died while undergoing sentence	To gaol until expiration of sentence or payment of fine
Barrie	177	3	180	4	22			7	1	10	1	135
Belleville	191	18	209	8	39	2	10	6				144
Bracebridge	60	4	64		18		2	2				42
Brampton	130	1	131		10			2				119
Brantford	209	3	212	6	23		1	8		1		173
Brockville	171	2	173	32	15		1	4	1			120
Cayuga	322	1	323	6		1		2	2	3		309
Chatham	292	29	321	7	58	1	3	8	13			231
Cobourg	121	3	124	9	8			9	2	6		90
Cornwall	191	4	195	41	21	1	1	18	1			112
Fort Frances	117	5	122		7			1		3		111
Goderich	84	1	85	8				2				75
Gore Bay	40	8	48		2		2					44
Guelph	228	10	238		41		2	24		2		169
Haileybury	346	20	366	32	11		6	7	1	2		307
Hamilton	950	62	1,012	44	286	3	20	44		4		611
Kenora	136	10	146	7				5	1			133
Kingston	203	9	212	12		1		1		40		158
Kitchener	188	8	196		69	1	7	10	2	2		105
Lindsay	69	4	73	3	15		2	3	1			49
London	601	28	629	58		1		14			1	555
L'Orignal	107	3	110	2				1				107
Milton	100		100	2	19			3		3		73
Napanee	70	1	71	9				7	1		1	53
North Bay	740	10	750		97		2	6	1			644
Orangeville	26		26		5			1		1		19
Ottawa	585	33	618	2	85		7	46				478
Owen Sound	150	3	153	4	16	1	2	2	1			127
Parry Sound	186	5	191		60		2	9				120
Pembroke	80	8	88	12		3		1		3		69
Perth	114	1	115	1	9							105
Peterborough	203	11	214		38		4	9				163
Pictou	94	2	96		1			2				93
Port Arthur	1,012	39	1,051	754		3	2	19	7		1	265
St. Catharines	266	4	270	50		3		15				202
St. Thomas	148	7	155	7	11		3	8		1		125
Sandwich	951	59	1,010	89		11		18				892
Sarnia	281	21	302		47		7	1	2		1	244
Sault Ste. Marie	314	23	337	29		1	8	9				290
Simcoe	124	4	128		32		4	8	1			83
Stratford	43	1	44		7			5		2		30
Sudbury	2,594	38	2,632	1,434			24	21	2	42		1,109
Toronto	6,610	467	7,077	4,726	412		20	142			2	1,775
Walkerton	60	4	64	1	6		4	4				49
Welland	484	8	492	2	58		1	11			1	419
Whitby	165	7	172	41		1		16	4			110
Woodstock	93	3	96		15			5	2	1		73
Totals	20,426	995	21,421	7,442	1,563	34	147	546	46	126	8	11,509

No 4

were passed and the nature of such sentences.

Period of Sentences

Under 30 days	30 days to 60 days	60 days or 2 months	Over 2 months to 3 months	Over 3 months to 4 months	Over 4 months to 5 months	Over 5 months to 6 months	Over 6 months to 9 months	Over 9 months to 1 year	Over 1 year up to 2 years	Over 2 years and up to 3 years penitentiary	Over 3 years penitentiary	Various periods, reformatories and industrial schools	Sentenced to death and executed	Sentenced to death and commuted to imprisonment	Imprisonment with corporal punishment	Total number sentenced
57	50	13	20	1	8	5	5	1	6	1	13					180
57	42	14	25	2	18	5	5	45	6	2						209
16	14	4	10	2	4	2	2	4	2							64
34	73	6	6	1	2	2	2	1	1							131
64	46	12	40	5	11	4	4	4	7							212
43	29	1	17	26	5	8	14	1	4				1			173
285	20	2	2	2	1	3	2		2							323
110	49	38	30	2	1	10			1	6	73			1		321
35	26	10	15	2	1	9	1	2	5	3	13					124
47	15	9	22	21	8	11	21	12	11	9	4					195
71	19	11	9			3		1	4	1	3				5	122
40	16	6	8			4		1	2		8					85
19	8	6	5	1	1	2	1	5								48
22	37	15	49	6			6	19		18	7	59				238
37	118	39	105	5	2	22	2	7	1	3	4	19				366
334	106	43	142	15	8	42	36	74	164	23	22		1		2	1,012
69	37	5	13		3	2	8		4	3	2					146
16	123	9	45			7	1	5	5	1						212
48	24	14	32	16	2	19	8	7	12	5	5	2			2	196
13	15	4	15	2	1	1	1		6	1	2	12				73
359	83	16	97			21		1	27	17	8					629
76	14	5	13			1			1	1						110
32	17	10	9	1	3			1	2	2		25				100
35	11	1	3	2	3	1	3	1	4	2	5					71
577	44	9	55	7	3	27	2	19		6						750
7	4	2	3			4				1		5				26
310	55	37	60	7	1	6	1	6		27	19	89				618
50	21	9	37	2	1	6	6	6	8		2	5				153
80	24	14	28	12		10	3	3	8	5	4					191
50	9	1	4			7				1		16				88
22	34	15	18	12	2	3						9				115
76	39	19	26			3				9		42				214
84	8		1							2		1				96
83	678	78	85	14	16	28	2	14	37	9	5	2				1,051
106	57	12	29	12	5	15	3	8	13	8	2					270
31	57	11	21	3		3		3	11	2	6	7				155
646	22	71	152	8	15	13	6	25	34		18					1,010
104	53	26	65	7		12	2	4	27		1	1				302
84	93	43	66			14		10	18	1	8					337
34	26	5	18							4	4	37				128
6	8	7	10	1						5		7				44
744	1,270	12	279	137	51	6	37	17	57	13	7	2				2,632
1,868	1,723	547	464	37	5	334	21	89	655	128	14	1,177	1		14	7,077
32	8	6	3	1						2	2	10				64
276	94	19	29	1	1	1		1	3	2	3	57			5	492
22	33	58	4	4	21			11	10	9						172
9	43	6	11	1	1	4				2	3	16				96
1,220	5,395	1,300	2,187	388	161	707	195	367	1,207	357	167	1,736	3	1	30	12,421

TABLE

Showing the number of prisoners how maintained, and the average

Name of Gaol	Prisoner days					Total number of days' stay of all prisoners
	Number committed during the year	Number paid for by Province	Number paid for by municipalities	Number of days Government prisoners	Number of days municipal prisoners	
Barrie.....	217	45	172	1,498	2,929	4,427
Belleville.....	388	163	225	3,698	3,785	7,483
Bracebridge.....	72	72	.....	2,552	.....	2,552
Brampton.....	183	43	140	1,229	1,371	2,600
Brantford.....	284	113	171	2,565	4,868	7,433
Brockville.....	250	102	148	2,148	4,374	6,522
Cayuga.....	356	67	289	1,596	3,064	4,660
Chatham.....	455	116	339	4,715	7,125	11,840
Cobourg.....	204	84	120	2,346	2,272	4,618
Cornwall.....	240	113	127	3,306	3,506	6,812
Fort Frances.....	235	235	.....	4,777	.....	4,777
Goderich.....	113	50	63	1,972	1,009	2,981
Gore Bay.....	61	61	.....	2,808	.....	2,808
Guelph.....	282	45	237	714	4,975	5,689
Haileybury.....	430	430	.....	19,075	.....	19,075
Hamilton.....	1,483	569	914	9,931	16,649	26,580
Kenora.....	201	148	53	4,793	368	5,161
Kingston.....	277	79	198	2,461	6,595	9,056
Kitchener.....	322	132	190	3,056	5,697	8,753
Lindsay.....	128	63	65	2,031	1,915	3,946
London.....	1,100	86	1,014	1,076	17,640	18,716
L'Orignal.....	124	22	102	746	1,949	2,695
Milton.....	255	119	136	1,839	2,684	4,523
Napanee.....	116	43	73	778	1,136	1,914
North Bay.....	872	872	.....	10,022	.....	10,022
Orangeville.....	53	16	37	1,059	1,353	2,412
Ottawa.....	1,186	231	955	9,883	11,941	21,824
Owen Sound.....	198	56	142	2,027	4,137	6,164
Parry Sound.....	292	292	.....	5,611	.....	5,611
Pembroke.....	102	44	58	1,999	1,199	3,198
Perth.....	123	32	91	1,645	4,308	5,953
Peterborough.....	434	115	319	2,769	3,805	6,574
Picton.....	97	27	70	464	696	1,160
Port Arthur.....	1,174	172	1,002	3,579	13,709	17,288
St. Catharines.....	323	46	277	1,537	6,204	7,741
St. Thomas.....	281	79	202	2,241	3,955	6,196
Sandwich.....	1,660	166	1,494	6,132	21,738	27,870
Sarnia.....	545	98	447	2,220	8,950	11,170
Sault Ste. Marie.....	499	499	.....	15,976	.....	15,976
Simcoe.....	300	121	179	2,128	2,658	4,786
Stratford.....	130	66	64	2,210	1,882	4,092
Sudbury.....	2,897	2,897	.....	16,263	.....	16,263
Toronto.....	8,951	1,193	7,758	21,825	59,748	81,573
Walkerton.....	114	30	84	1,281	1,226	2,507
Welland.....	630	92	538	3,235	9,272	12,507
Whitby.....	313	151	162	2,454	6,473	8,927
Woodstock.....	176	45	131	959	2,717	3,676
Totals.....	29,126	10,340	18,786	199,229	259,882	459,111

No. 5

costs per day of each prisoner for the year ending September 30th, 1930.

Expenditure							
Cost of fuel, food and clothing	Cost of officials' salaries	Cost of repairs	Total gaol expenditure for maintenance for the year	Average cost of each prisoner per day	Average cost per day for fuel, food and clothing	Daily per capita dietary cost	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
3,069 96	3,408 00	96 18	6,574 14	1 49	0 69	0 17	
3,542 00	2,000 00	60 00	5,602 00	1 75	0 47	0 15	
740 30	1,850 00	25 40	2,615 70	1 02	0 29	0 15	
897 25	1,670 00	86 41	2,653 66	1 02	0 34	0 16	
2,767 56	6,946 00	260 00	9,973 56	1 34	0 37	0 15	
1,880 05	2,376 70	391 50	4,648 25	1 71	0 28	0 16	
973 64	2,602 70	8 70	3,585 04	1 76	0 20	0 21	
1,978 02	4,960 00	268 89	7,206 91	1 61	0 16	0 14	
2,396 65	2,000 00	184 41	4,581 06	1 99	0 51	0 19	
2,248 87	3,584 00	397 87	6,230 74	1 91	0 33	0 16	
1,212 10	3,364 00	135 30	4,711 40	1 99	0 25	0 15	
1,183 69	2,295 00	85 08	3,563 77	1 20	0 39	0 13	
2,317 52	1,187 75	58 11	3,563 38	1 26	0 82	0 60	
3,250 00	2,322 99	.....	5,572 99	1 98	0 57	0 32
6,227 63	8,083 40	158 71	14,469 74	1 75	0 32	0 20	
5,796 00	14,580 00	360 00	20,736 00	1 78	0 21	0 17	
1,978 21	3,358 50	.....	5,336 71	1 03	0 38	0 20
4,052 03	4,262 00	100 00	8,414 03	1 93	0 44	0 19	
3,345 26	5,176 50	218 80	8,740 56	1 00	0 38	0 17	
1,624 29	2,800 00	766 45	5,190 74	1 31	0 41	0 15	
5,485 33	13,068 31	433 61	18,987 25	1 01	0 29	0 15	
800 00	2,130 00	750 00	3,680 00	1 36	0 29	0 22	
1,177 20	2,130 00	18 00	3,325 20	1 73	0 26	0 26	
742 48	1,475 00	711 70	2,929 18	1 53	0 38	0 14	
3,389 68	6,464 56	315 64	10,169 88	1 01	0 33	0 17	
1,631 67	2,380 75	.....	4,012 42	1 66	0 67	0 24
12,517 96	11,187 84	1,483 60	25,189 40	1 15	0 57	0 17	
2,923 74	3,077 50	300 00	6,301 24	1 02	0 47	0 19	
1,631 27	3,927 50	35 00	5,593 77	1 99	0 29	0 19	
1,329 58	3,028 75	54 00	4,412 33	1 37	0 41	0 15	
1,273 18	2,400 00	292 99	3,966 17	1 66	0 21	0 15	
1,838 07	2,817 30	129 10	4,784 47	1 72	0 27	0 20	
603 21	1,075 00	119 83	1,798 04	1 55	0 52	0 18	
8,493 41	8,735 00	.....	17,228 41	1 99	0 49	0 20
3,551 90	2,850 00	98 43	6,500 33	1 83	0 45	0 15	
2,317 90	3,970 00	172 78	6,460 68	1 04	0 37	0 16	
5,564 85	14,034 91	427 75	20,027 51	1 71	0 19	0 20	
4,330 76	3,559 96	841 74	8,732 46	1 77	0 38	0 17	
7,752 19	4,860 00	490 06	13,102 25	1 82	0 48	0 20	
1,796 25	2,365 00	266 84	4,428 09	1 92	0 37	0 15	
1,898 35	2,790 00	20 58	4,708 93	1 15	0 46	0 13	
4,620 90	7,802 50	.....	12,423 40	1 76	0 28	0 22
25,780 00	50,391 00	2,452 00	78,623 00	1 96	0 31	0 14	
839 79	1,900 00	280 00	3,019 79	1 20	0 33	0 18	
5,131 37	6,350 00	2,745 42	14,226 79	1 14	0 41	0 18	
4,522 37	4,506 00	2,680 99	11,709 36	1 31	0 50	0 19	
2,622 81	2,834 00	828 54	6,285 35	1 71	0 71	0 13	
166,047 25	250,938 42	19,610 41	436,596 08	95	36	19	

TABLE No. 6

Showing the total number of prisoners who were in the several goals in the Province on the evening of September 30th, 1930, and the nature of their imprisonment; also number of cells in each gaol.

Name of Gaol	Classification				Nature of Imprisonment						Turn-keys		Number of cells	
	Men	Women	Boys under 16 years	Girls under 16 years	Waiting trial	Under sentence for periods of 2 months and under	Under sentence for periods over 2 months	In default of surties to keep the peace	Insane, idiotic or imbecile persons	Otherwise detained	Total number of persons who remained in custody, 30th Sept., 1930	Day		Night
Barrie.....	14	1			1	5	9				15	1	1	23
Belleville.....	27	2				14	14			1	29	1		38
Bracebridge.....	2						2				2	1		15
Brampton.....	11				3	4	4				11	1		24
Brantford.....	30				3	11	15			1	30	1	1	24
Brockville.....	22				6	7	8		1		22	1		33
Cayuga.....	9				1	4	3			1	9	1		12
Chatham.....	28		1		5	10	13		1		29	2	1	39
Cobourg.....	8				1	3	4				8	1	1	24
Cornwall.....	16	1			4		13				17	2		17
Fort Frances.....	7	1	1		4	2	3				9	1		10
Goderich.....	4					2	2				4	1		16
Gore Bay.....	8	2			1	4	5				10	1		12
Guelph.....	17				1	3	13				17	1	1	18
Haileybury.....	47	2			3	24	20		1	1	49	3	1	32
Hamilton.....	81	8			5	39	43			2	89	4	3	60
Kenora.....	10	1			2	3	6				11	1		14
Kingston.....	18	1			2	13	3			1	19	2	1	49
Kitchener.....	19	1	1		7	4	9		1		21	3	2	21
Lindsay.....	6				4		1			1	6	1		24
London.....	33	5			7	15	16				38	1	1	57
L'Orignal.....	12				1		11				12	1		18
Milton.....	4				3		1				4	1	1	19
Napanee.....	7				3	2	2				7	1		18
North Bay.....	44	3			2	35	8		2		47	2	1	19
Orangeville.....	4						4				4	1		22
Ottawa.....	64	6			12	21	37				70	1	1	93
Owen Sound.....	20				5	8	6		1		20	1	1	32
Parry Sound.....	18				2	2	14				18	1	1	22
Pembroke.....	5	1				3	3				6	1	1	24
Perth.....	16				1	5	10				16	1	1	18
Peterborough.....	20	2			6	10	6				22	1	1	18
Pictou.....	1						1				1			18
Port Arthur.....	45	1			4	27	14		1		46	2	1	73
St. Catharines.....	25		1		8	11	7				26	1		35
St. Thomas.....	17	2			5	8	6				19	1	1	16
Sandwich.....	98	14			22	29	38			23	112	1	1	112
Sarnia.....	35				5	8	22				35	1	1	13
Sault Ste. Marie.....	53	2			11	22	16		2	4	55	2	1	23
Simcoe.....	12				4	4	4				12	1	1	20
Stratford.....	16				5	2	6			3	16	3	2	30
Sudbury.....	42	6			5	36	6		1		48	1	1	22
Toronto.....	219	22			12	46	147		2	34	241	13	5	224
Walkerton.....	7	1			5	1	2				8	1		24
Welland.....	40	1			8	22	11				41	2	1	48
Whitby.....	27	2			7	5	17				29	1		21
Woodstock.....	9					2	5			2	9	2	1	33
Totals.....	1,277	88	4		196	476	610		12	75	1,369			1,577

TABLE No. 7

Showing the number of escapes and deaths, the revenue derived from prison labour, the cost of diet, the accommodation of the various gaols, and the highest and lowest number of prisoners in custody during year ending September 30th, 1930.

Name of Gaol	Prisoners who escaped and evaded capture	Prisoners who escaped and were recaptured	Prisoners who died	Number of cells in each gaol	Greatest number of prisoners confined in gaols at any time during year	Least number of prisoners confined in gaols during year	Actual cash revenue derived from prison labour
Barrie			1	23	24	3	\$ c.
Belleville				38	29	6	
Bracebridge				15	13	1	
Brampton				24	15		
Brantford				24	33	10	
Brockville				33	33	7	
Cayuga				12	29	2	
Chatham				39	48	18	
Cobourg		1		24	20	6	
Cornwall				17	29	9	
Fort Frances				10	29	3	
Goderich				16	18	4	
Gore Bay				12	15	5	
Guelph				18	30	8	
Haileybury				32	72	37	
Hamilton	1			60	107	43	
Kenora	1			14	33	8	
Kingston	1			49	46	13	1,800 00
Kitchener		1		21	36	12	
Lindsay				24	18	5	
London			1	57	72	33	
L'Orignal				18	27	1	
Milton	1	1		19	26	1	
Napanee	1	2	1	18	12		
North Bay				19	68	8	
Orangeville				22	11	3	
Ottawa				93	96	34	419 59
Owen Sound				32	32	6	
Parry Sound		2		22	31	5	
Pembroke				24	23	2	
Perth				18	28	6	
Peterborough				18	31		
Picton				18	8	1	
Port Arthur	1		1	73	75	26	
St. Catharines		3		35	36	10	
St. Thomas				16	29	8	
Sandwich				112	133	58	
Sarnia	1		1	13	47	20	
Sault Ste. Marie				23	60	25	
Simcoe				20	24	7	
Stratford				30	20	3	
Sudbury				22	112	21	
Toronto		14	2	224	370	136	
Walkerton				24	12	2	
Welland		1	1	48	56	17	
Whitby				21	36	12	
Woodstock				33	20	4	
Totals	7	25	8	1,577	2,172	649	2,219 59

TABLE

The following table covers the prison population and other

Name of Institution	In custody, Oct. 31st, 1929	Committed during the year	Parole violators	Total number in custody	Discharged on expiration of sentence	Discharged by ticket-of-leave	Discharged by Parole Board	Discharged by payment of fines
Ontario Reformatory—Guelph.....	507	1,036	19	1,562	420	5	312	5
Ontario Reformatory—Mimico.....	155	429	7	591	163	1	104	10
Industrial Farm—Burwash.....	429	1,999	....	2,428	1,620	3	106	35
Industrial Farm—Fort William.....	53	627	....	680	468	....	31	36
Industrial Farm—Langstaff (Males).....	291	1,824	....	2,115	1,528	....	38	65
Industrial Farm—Concord (Females).....	30	132	....	162	102	....	1	12
Mercer Reformatory—Toronto (Females)....	162	192	....	354	150	1	23	....
Totals.....	1,627	6,239	26	7,892	4,451	10	615	163

TABLE

Name of Institution	Social Conditions				Educational Status		
	Married	Single	Widowed	Totals	Read and write	Illiterate	Totals
Guelph.....	361	675	....	1,036	869	167	1,036
Mimico.....	166	250	13	429	378	51	429
Burwash.....	361	1,572	66	1,999	1,866	133	1,999
Fort William.....	108	499	20	627	616	11	627
Langstaff (Males).....	551	1,116	157	1,824	1,701	123	1,824
Concord (Females).....	86	46	....	132	88	44	132
Mercer (Females).....	81	101	10	192	170	22	192
Totals.....	1,714	4,259	266	6,239	5,688	551	6,239

No. 1

statistical information of the Ontario Reformatories for the year 1930.

Discharged by remission of sentence	Discharged by order-in-council	Discharged by Minister of Justice	Conditional discharges on bail, etc.	Other reasons	Escaped	Deported	Returned to gaols	Transferred to penitentiaries	Transferred to hospital for the insane	Transferred to provincial institutions	Released on writ of Habeas Corpus	Died while in custody	Remaining in custody, Oct. 31st, 1930
18		6	153	2						21		3	617
		1	48	15	1	9				46		1	192
	3		65		4	10				52		6	516
					6		13	8		3			121
2	117		2		3		32	2		2		2	324
	5			1			1		1				38
				1		2						1	176
20	125	7	268	19	14	21	46	10	1	125	.....	13	1,984

No. 2

Habits				Occupation of Prisoners When Committed							
Temperate	Intemperate	Drug addicts	Totals	Agricultural	Commercial	Domestic	Labourers	Mechanics	Professional	No occupation	Totals
843	187	6	1,036	158	132	31	192	289	14	220	1,036
266	155	8	429	103	28	27	122	146	3	.....	429
384	1,576	39	1,999	146	188	78	1,291	253	43	.....	1,999
212	415	.....	627	46	109	14	402	55	.....	1	627
816	1,008	.....	1,824	23	119	72	897	629	14	70	1,824
91	41	132	3	126	3	132
133	59	192	3	131	24	34	192
2,745	3,441	53	6,239	476	582	479	2,928	1,372	77	325	6,239

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TABLE No. 3

Name of Institution	Nationalities						Religions						
	Canadian-born	English	Irish	Scotch	United States	Other Nationalities	Totals	Anglican	United	Presbyterian	Roman Catholic	Other religions	Totals
Guelph.....	764	89	25	36	42	80	1,036	206	196	125	395	114	1,036
Mimico.....	308	44	13	17	16	31	429	101	57	66	124	81	429
Burwash.....	1,234	122	32	58	38	515	1,999	231	97	144	1,129	398	1,999
Fort William.....	282	62	25	32	20	206	627	85	13	91	226	212	627
Langstaff (Males)...	1,052	242	131	133	36	230	1,824	493	185	298	652	196	1,824
Concord (Females)...	54	26	11	8	11	22	132	47	21	16	38	10	132
Mercer (Females)....	155	14	2	6	5	10	192	41	38	15	67	31	192
Totals.....	3,849	599	239	290	168	1,094	6,239	1,204	607	755	2,631	1,042	6,239

TABLE No. 4

Name of Institution	One month (or less)	Two months	Three months	Four months	Five months	Six months	Nine months	Twelve months	Fifteen months	Eighteen months	Two years less 1 day	Two years	Indeterminate	Total
Guelph.....	1	47	15	4	96	3	69	3	3	44	75	1,036		
Mimico.....	24	22	7	86	14	26	3	5	23	219	429			
Burwash.....	1,020	215	175	64	8	97	4	43	3	3	23	344	1,999	
Fort William.....	390	58	54	5	12	32	5	13	4	19	17	4	14	627
Langstaff (Males)...	641	277	680	43	6	91	2	1	1	1	1	8	3	1,824
Concord (Females)...	15	30	44	6	21	5	8	1	8	2	132			
Mercer (Females)....	1	4	6	1	22	8	1	12	1	137	192			
Total.....	2,066	582	1,028	161	38	445	28	165	10	31	105	27	1,553	6,239

TABLE No. 5
CRIMES AGAINST THE PERSON

Name of Institution	Assault	Cutting, wounding, stabbing, shooting	Manslaughter	Murder attempted	Rape	Attempted suicide	Non-support	Miscellaneous	Totals
Guelph.....	39	3	2	.....	.....	2	21	11	78
Mimico.....	12	6	1	.....	.....	.....	7	6	32
Burwash.....	62	.....	1	.....	1	.....	9	3	76
Fort William.....	17	3	.....	.....	.....	.....	.....	.....	20
Langstaff (Males)...	44	10	.....	.....	.....	1	8	5	68
Concord (Females)...	.....	1	.....	.....	.....	3	.....	.....	4
Mercer (Females)....	.....	.....	.....	.....	.....	.....	2	3	5
Total.....	174	23	4	.....	1	6	47	28	283

Reformatories

THE ONTARIO REFORMATORY, GUELPH

FISCAL YEAR 1929-1930

SIR:

The attached Statistical Report of the Ontario Reformatory covers the Fiscal Year 1929-1930.

Last year I referred to the large number of admittances between and including the age years 16-20. It is a slightly hopeful sign that the number in this group has dropped, whereas it has increased in the following age group, 21-25.

The attitude of Courts has been very marked in the large number of long, definite and indeterminate sentences given. This has greatly increased the custodial risk, especially in a wide open prison system such as we have. This risk has been further increased by the number of men we have had in custody, who had received Reformatory-Penitentiary terms running consecutively. On the face of it, this is a ridiculous procedure and can only be explained as having been done through ignorance or thoughtlessness on the part of the Court authorities. Obviously, where it seems advisable to give consecutive sentences, they should be so given that the Penitentiary will be served first.

The number of admittances, 1,036, is the largest in the history of this institution. In part, it is probably due to the current economic depression. I have frequently heard of men committing crime to get into prison so that they would have food and accommodation for the winter, but I have rarely known it to happen. In actual fact, the inefficient employee gets laid off work during an economic depression, and he sometimes commits crime to live. The admittance to prison is the result but was not his aim.

You will note that no escapes are recorded. There were seventeen escapes and attempts, but at the end of the year every one had been recaptured. This also constitutes a record for this institution, and in view of the heavy custodial risk, the largest number of inmates in history here, the long sentences and the general unrest in prisons, we, frankly, did not expect a perfect record in this respect.

The other figures in the Statistical Report are pretty well in line with those of preceding years.

With the exception of two epidemics, the health of the inmates was at least in line with that of the same number of people out of prison, and the Medical Department gave excellent service. The two epidemics mentioned above were both diphtheria, and no fatalities resulted. They were directly caused by improper inspection or the entire lack of medical inspection in two of the large city gaols.

An increasing number of inmates attended school, and the results have been excellent.

All of the Industrial Departments of the Institution have operated steadily throughout the year, with the exception of the Rock-Crushing Plant. You will recall that it was burned by lightning in July, 1929. Construction of the new plant was completed in April of this year, and it has been in operation steadily since that time. Total production of all the departments shows some increase over the preceding year and well over the half million dollar mark.

On the farm, in spite of the dry season, crops were good. Some more rough land was cleared of stumps and rocks, and put under cultivation. Good progress

was made on the swamp reclamation work, where the primary object is succeeding well, i.e., teaching young inmates to work, and convincing them and older "repeaters" that prison is not a pleasant place, and if they are wise, they will in future so conduct themselves that they can keep out.

I have the following recommendations to make:

1. Because our present population is double that for which accommodation is provided, that the Ontario Hospital here—in which are the Male Criminal Insane and the Insane Criminals—be moved elsewhere, to give us much-needed space and to increase classification facilities. I understand steps have been taken with this move in view. I sincerely hope it speedily becomes a fact.

2. That the recommendations of the Ross Commission, re Classification by Institutions, be immediately put into effect.

3. That definite physical, mental and educational standards be set for admitting new officers to the Guard Staff.

4. That the proposed Tailor Shop be opened and put in full operation.

During the year, a change of Ministers occurred. For seven years we had worked under the direction of the Honourable Lincoln Goldie, who was Provincial Secretary during that time. Our memories of him are grateful and pleasant, and we hope that his remaining years of life will be many and full of happiness. We have high hopes for the regime of the Honourable Leopold MacCauley, and most certainly he will receive loyal service from the officers and staff of the Ontario Reformatory.

In conclusion, we desire to thank all those persons and organizations who in any way contributed to the welfare of the inmates while here and after discharge, and we especially desire to thank you, Sir, for the courtesy and help we have received from you, and your kindly attitude toward the work, which assures the faithful service we have striven to give.

I have the honour to be, Sir,

Your obedient servant,

C. F. NEELANDS,
Superintendent.

MR. H. M. ROBBINS,
Deputy Provincial Secretary,
Parliament Buildings,
Toronto, Ontario.

ONTARIO REFORMATORY, MIMICO

11TH NOVEMBER, 1929

To H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
Toronto, Ontario.

DEAR SIR:

I have the honour to present to you our Annual Report for the year 1929-1930.

HEALTH

Our thanks are due to Dr. McLeod of the Ontario Hospital, Mimico, for the high standard of health which this institution has enjoyed. His kindly care and efficient service has been much appreciated by all here. To the St. Joseph's

and Western Hospitals we tender our thanks for the few hospital cases which they admitted from here, and to whom the best treatment was given.

FARM

Our total Farm Receipts for the year totalled \$17,725.00. This is almost \$2,000.00 over last year's return, although our potato crop suffered considerably from the drought. Our total inventory for Live Stock and Implements amounts to \$12,175.00.

BUILDINGS

The extension to Shale Shed has now been completed, also two small kilns have been built, and a large old one has been renovated, and all now giving service. A new Chicken House built the latter end of this year is a great improvement on the old.

MILL

Our Mill has been rulling at full capacity and our output has greatly increased. This has been helped greatly by the new kilns, and the extra shale shed space, which allows us to have plenty of shale on hand when the output of shale from the pit is held up by wet weather. The new clay machine, which is almost installed, will further increase output of brick and tile during the coming year.

SOCIAL WELFARE, SPORTS, ETC.

We wish to thank the Salvation Army officers for the good and faithful work which has been carried on each Sunday. Also our thanks are due to Mr. Burtch and family of Long Branch, and to the Old Orchard Soft Ball Team who have whole heartedly given entertainments and sports to the inmates here. We appreciate the kindness of the several business firms in supplying us with prizes for our Annual Inmates' Sports Day.

Through the kind privilege of the Department for which the staff join with me in their thanks, a most pleasant and enjoyable dance was held here last New Year.

In conclusion I beg to thank you, Sir, and all the officials of the Department for the ever-ready co-operation and courtesy extended to me in the past.

I have the honour to be, Sir,

Your obedient servant,

J. R. ELLIOTT,
Superintendent.

THE INDUSTRIAL FARM, BURWASH

NOVEMBER 12, 1930

DEAR SIR:

I have the honour to submit the Annual Statistical Report for this institution for the year ending October 31st, 1930.

FARM PRODUCE

The total value of the above is as follows:

Grain, etc.	\$24,117 42
Lumber for building purposes.	13,052 28
Fuel.	23,048 63
Live stock.	23,695 00

This is quite an increase over last year, and we have sold live stock to the value of \$6,628. 80. In connection with our fuel, this is the first year we have been ahead during the past six years.

A great deal of work has been done in and around the institution to beautify it, and to make living conditions for our families as homelike as possible.

The religious, sports and social life of our community is well looked after. The Salvation Army as represented by Commander Tuck did very sincere and useful work. The Rev. Bruce, Anglican Minister from Copper Cliff, also helped us out very materially, while the Roman Catholic portion of our inmate body was looked after by the Rev. Father Trounseau.

The conduct of the inmate body during the past year has been splendid. There has been no major cases of misbehaviour tried by me, and the number of attempted escapes during the year has left us with the best record in the history of the institution.

Sincerely yours,

J. K. FAIRFIELD,
Superintendent.

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
Toronto.

THE INDUSTRIAL FARM, FORT WILLIAM

NOVEMBER 25TH, 1930

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
Toronto, Ontario.

SIR:

I have the honour to submit to you our Annual Report for the year ending October 31st, 1930. You will notice that our Statistical Report shows a large increase in our population during the past year, this I have no doubt is due to the general depression all over the Dominion.

During the past year we have been able to extend our laundry facilities which has helped a great deal towards the cleanliness of the place.

I am very pleased to state that we were fortunate in having a wonderfully growing season, giving much larger quantities in grain, hay and garden vegetables.

I wish to take this opportunity of thanking you and the officers of the Department for the great courtesy and kindness which have been extended to me. I also wish to thank the Rev. D. McIvor of Fort William and the local unit of the Salvation Army for their many kindnesses shown to the inmates and staff of this institution.

All of which is respectfully submitted.

I have the honour to be,

N. J. OLIVER,
Superintendent.

TORONTO INDUSTRIAL FARM, LANGSTAFF

DECEMBER 5TH, 1930

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
Toronto, Ontario.

DEAR SIR:

I have the honour to submit my Fourteenth Annual Report of the Toronto Municipal Farm, covering the fiscal year November 1st, 1929, to October 31st, 1930.

In reviewing the past year's activities we note there were only two deaths in the Institution, which is a remarkably low record; these two were both from old age. The health of the inmates remained in a good state, there being no epidemic disease; there were three escapes, all of which were apprehended and dealt with by the Courts. Due attention has been paid to social diseases which on presentation will show a marked percentage of improvement.

The Ross Report recently published by your Royal Commission covers the conditions under which this institution has been suffering from for years very thoroughly. I am in full agreement with that report.

The discipline remains on a high plane, there being only fourteen orderly room cases handled during the year which, in view of the fact that 1,824 inmates passed through the institution during the preceding fiscal year, is evidence of smooth working in the handling of this large number of men.

In conclusion, Sir, permit me to again extend my thanks to the Sheriff of Toronto and yourself for the continued interest shown in the Institution. I also wish to again thank all those public-spirited people who have ministered to the spiritual and social welfare of the inmates, among these are Canon J. C. Davidson, Church of England; Captain Buntin, Salvation Army; Rev. Father Malone, Roman Catholic; Mr. Fred Graham, Y.M.C.A., and many others including the Sportsmen's Patriotic Association who again supplied Christmas and New Year's cheer.

The Institution suffered a great loss in the untimely death of Dr. C. P. Johns, surgeon of the institution, who passed away during the year; he was beloved by all who came in contact with him.

I have the honour to be, Sir,

Your obedient servant,

MAJOR W. J. MORRISON,
Superintendent.

TORONTO INDUSTRIAL FARM FOR WOMEN, CONCORD

NOVEMBER 11TH, 1930.

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
Toronto, Ontario.

DEAR SIR:

I have the honour to submit to you the Annual Report for this Institution for the year ending October 31st, 1930.

The Statistical Report shows that 170 were admitted during the year. The number convicted for first offences was 36; 13 were under 21 years; 117 between ages 21 to 50; 32 between ages 50 to 70.

We emphasize outdoor work for women in this institution. During the spring and summer we have kept as many as possible employed in the gardens, and small fruit orchards; as well as caring for young chickens, ducks and geese. This branch of work is very much sought after by the inmates. Those who are working in the sewing and knitting rooms are given part of the outdoor work, which brings a diversion into the daily task.

Knitting machines were provided several years ago, and three thousand pairs of socks are turned out each year for the benefit of the 300 prisoners who are incarcerated on the Langstaff Farm.

A Guard, with eight men, comes over daily to take charge of the heavy work; such as ploughing, threshing, etc., while our Farmerette and the girls take care of the gardens, small fruit orchards and lawns, as well as caring for a fine lot of poultry of all sorts.

In the sewing room clothing is made up for the inmates, both men and women, and of late we have taken on sewing for Toronto Gaol.

Part of the laundry is also done for the Men's Farm.

During the winter, shovelling snow and caring for the stock, which includes cows, horses, sheep and poultry, and running the heating plant provides plenty of work outside.

We wish to express our sincere thanks to the Salvation Army officers who have been untiring in their efforts to provide clothing and employment for all who required any help. Also to Archdeacon Davidson and the Rev. Father Malone who, with the Army officers, have done much good work both social and religious.

In conclusion I wish to thank you, Sir, and all officials for the courtesy shown and the assistance given us during the year which has closed.

All of which is respectfully submitted.

I have the honour to be, Sir,

Your obedient servant,

MARGARET M. CARSON,
Superintendent.

MERCER REFORMATORY, TORONTO

NOVEMBER 10TH, 1930

H. M. ROBBINS, ESQ.,
Deputy Provincial Secretary,
Parliament Buildings,
Toronto, Ontario.

SIR:

I have the honour to submit herewith the Annual Report of the Andrew Mercer Reformatory for Females, for the year ending October 31st, 1930.

The statistical tables for the year show an increase in the number admitted to the Institution. Of the 192 admitted, 72 were under 20 years of age, 40 between 20 and 24 years of age, and 80 between the ages of 24 and 55. The number admitted for the first time was 160; repeaters to this institution were 32, chiefly mentally deficient girls who need permanent custodial care.

A number of those discharged during the year are reported as doing well; nearly all are in correspondence with one or more attendants of the institution. Encouraging letters, and visits, are received regularly from those who left these sheltering walls during the past several years.

A fire occurred in the Laundry, the first fire to break out in this building since the institution was opened in August, 1880. I am thankful to say that, owing to the efficiency of our staff, under the capable supervision of our Graduate Nurse, and the fire drill which is regularly practised, there was no sign of panic in the inmates. The Toronto Fire Department responded to the call and had the fire under control very quickly. The damage to the building is being repaired, under the capable supervision of the Maintenance Architect and his department.

It is with deep regret that I chronicle here the death of Mr. Thomas McKenzie, who for twenty-five years held the responsible position of Bursar for this institution. Mr. McKenzie was respected and loved by all who came in contact with him.

Throughout the year I have had the assistance and support of a loyal and efficient staff. Many interested friends have given their services to the uplifting of those confined in this institution. Representatives of the different religious denominations visit weekly, and they not only assist the women while they are confined in the institution but continue their interest in them after they leave the Reformatory. Mrs. Archdekin and her staff of teachers are unfailing in their attendance to the Reformatory Sunday School. All these aids are gratefully acknowledged.

The late Venerable Archdeacon Ingles, Chaplain of Institutions, who was revered by all, and whose many years of service were productive of such excellent results, has been succeeded by the Rev. Mr. Soans (formerly of Aurora), who is equally devoted.

In conclusion, permit me to express to you and the officials of your Department my sincere thanks for the consideration and kindness with which you have always favoured me.

I have the honour to be, Sir,

Your obedient servant,

LETITIA SCOTT,
Superintendent.

Report of the Salvation Army

The Report of the Salvation Army includes personal visits to all the Provincial Penal Institutions, Jails, and Police Courts in the Province. For this work six persons (three men and three women) are specially set apart and spend their whole time, besides the part service given by many others.

On their discharge from the prisons the prisoners without homes are received by the Salvation Army and given board and lodging till work can be obtained for them. In all, 625 persons were provided with work during the year through the agency of their Employment Bureau. The real sufferers frequently are the wives and families of prisoners who have been left destitute, and to these families the Salvation Army ministers by supplying food and paying rents.

The following figures show the receipts from various sources and the funds expended by the Army. Receipts from the Ontario Government and other municipalities, \$8,022.45. The expenditures as shown include money paid to prisoners and their dependents, \$7,914.47. Rents paid, \$1,714.34. Wages paid to the Salvation Army workers, \$6,670.92, or a total of \$16,299.73, which is \$8,277.28 more than their receipts, and which funds were contributed by the members of the Salvation Army themselves.

Board of Parole

PARLIAMENT BUILDINGS,

TORONTO, March 30th, 1931

SIR:

I have the honour to present herewith report of the Ontario Board of Parole for the year ending October 31st, 1930.

I have the honour to be, Sir,

Your obedient servant,

ALFRED E. LAVELL,

Secretary,

Ontario Board of Parole.

THE HONOURABLE L MACAULAY,
Provincial Secretary,
Parliament Buildings,
Toronto, Ontario.

The statistical record for the year is as follows:

	1930
Meetings of the Board.....	31
Cases dealt with.....	1,988
Paroles authorized.....	794
Paroles put into effect.....	684
Disappeared.....	63
Committed crime while on parole.....	39
Sent back and parole cancelled.....	26
Recommended for Extra Mural Employment (Cap. 163, R.S.C., ss. 13-15, 59, 61).....	151
Recommended for ticket-of-leave.....	3
Recommended for Extra Mural Employment with parole to follow....	329
Number outside, October 31, 1930:	
On parole.....	487
On permit.....	153

The following is the record for the four previous years:

	1926	1927	1928	1929
Meetings of the Board.....			26	30
Cases dealt with.....	1,296	1,364	1,680	1,702
Paroles authorized.....	473	504	650	747
Disappeared.....	41	46	35	73
Committed crime on parole.....	16	18	31	53
Sent back and parole cancelled.....	30	21	24	31
Recommended for Extra Mural Employment.....	116	141	305	310
Recommended for ticket-of-leave.....	16	11	5	4

It seems advisable to explain each year why the number of paroles authorized is in excess of those put into effect. Numerous paroles are authorized to take effect at a later date than the end of the fiscal year, and there are always some paroles authorized that cannot be put into effect, because of inability to meet conditions, or subsequent misbehaviour, or new adverse facts disclosed, or because work is not available.

The failures can be roughly divided into two classes: Those who disappear and those who commit crime. The second are the certain and real failures. Those who disappear and are never heard of again may not be social failures. A number of those who disappear and are real failures are each year apprehended by us and adequately dealt with. An average clear success year by year is

about 80 per cent., which, considering the salvage nature of our work and the kind of material dealt with, would appear to be as satisfactory as could be expected. Every year there are a few persons who have to be returned to the institutions in their own interest and that of the public, but they do not in any respect constitute a failure of the system. They are rather an evidence of strict supervision.

Since the indeterminate sentence is given by the Court for the evident purpose of supervision and control outside prison and on parole if upon careful examination the Board considers this wise, most of those given such a sentence are paroled. It is not thought fair to keep any one in prison without good reason. Unfortunately there are some whom the Board cannot conscientiously parole nor recommend favourably to other authorities. It would seem unfair either to these inmates or to anyone else to place them outside. We are glad to say that this type of person, who can only adequately be dealt with in an institution, is far less than half of those dealt with by us.

Every prisoner is paroled under certain conditions approved by the Minister of Justice. One of these essential conditions is that an inmate must go at once to some employment which has been arranged for him before his conditional release. He is then able immediately to begin to earn his way. All employment is arranged through our office. Friends and relatives exert themselves successfully in many cases to get positions for those whose paroles are due, and our officers also, while they are under no legal obligation to do so, find work for hundreds of men. For a considerable time the employment conditions have been such as to make it extremely difficult to place those whose paroles have been authorized, and we regret to state that a good many are still in the institutions whom we would gladly have paroled had employment been available for them, though more inmates were actually placed outside by us this year than ever before.

During the year it has been thought advisable in addition to personal interviews and explanations to give to every paroled man a printed statement explaining the parole system and giving him some counsel based upon past experience. In spite of this a number have failed to keep the conditions and it has been found advisable to return them to the institutions. Since we believe that our duty is to guide as many as possible into civil re-establishment, a violator is only returned to prison when it is believed that his offence was deliberate. Usually warnings and cautions bring about the desired result. If too high a standard were set, some, because of lack of previous training or mentality, could not possibly live up to it. A number find it very difficult to grasp the requirements and these have to be explained to them repeatedly. When we say that a man has been a success we, of course, take his personality and qualifications into account and mean that he has kept his parole to the best of his ability and in good faith and without injury to the public.

The personnel of the Board is as follows: Chairman, Mr. George S. Matthews, Brantford; Vice-Chairman, Mr. W. A. Evans, Sudbury; Vice-Chairman, Judge Emerson Coatsworth, Toronto; Mr. J. B. Tudhope, Orillia; Mr. Daniel Miller, Toronto; Mr. J. F. McKinley, Judge of the Juvenile Court, Ottawa; Dr. F. C. Grenside, Guelph; Mr. G. B. Woods, Toronto, and Mrs. G. A. Brodie, Toronto.

The executive staff consists of Dr. A. E. Lavell, Secretary and Chief Officer; Mr. E. J. Etherington and Mr. T. D. Bell, Assistant Parole Officers. The offices are in the Parliament Buildings, Toronto. The clerical staff consists of one head clerk, a filing clerk, and four stenographers.

GEO. S. MATTHEWS, *Chairman.*

ALFRED E. LAVELL, *Secretary.*

Report of the Commissioner for the Extra Mural Employment of Sentenced Persons for the Ten Years Ending October 31st, 1930

The Prisons and Reformatories Act, Cap. 163, R.S.C. (1927), Secs. 13-15, 49, 61)

When the extra mural employment of inmates of Ontario reformatories, industrial farms and jails was begun ten years ago, the present Commissioner was appointed to act on behalf of and under instructions from the Lieutenant-Governor in Council for the carrying out of the provisions, (1), of the Ontario Extra Mural Employment Act, and (2), certain sections of the Dominion Prisons and Reformatories Act: the first Act applying to offenders against Provincial law and the second to offenders against the law of Canada. At the end of five years an exhaustive report was submitted, including the following statistics:

Inmates employed outside in custody.....	1,149
Custodial failures (disappeared or broke the law).....	49
Aggregate days served while working outside.....	101,739
Wages earned (cir.).....	\$245,000.00
Net saving to the public in the care and keep of prisoners (cir.)..	\$100,000.00

The experiment was considered successful enough to be continued. Ten years have now been completed (see paragraph "d" below), and it seemed desirable, in submitting the report for the year, to review the most important and significant facts and some of the conclusions which may be gathered from the complete ten-year period.

The figures for the past year and the full ten years are, as follows:

	1929-1930	Total for 10 years
Inmates employed outside in custody.....	429	2,354
Custodial failures.....	10	113
Aggregate days served working outside.....	60,506	299,510
Wages earned, all going solely to prisoners and families.....	\$120,000.00	\$637,000.00
Net saving to Province in maintenance (cir.).....	\$50,000.00	\$300,000.00

(a) The total custodial failures were about 5% of those placed outside. The majority of those who disappeared or broke the law were recaptured and adequately penalized. The percentage of failures each year has been about the same. This is rather curious.

(b) The cost of an inmate of a reformatory or industrial farm to the Province averages about \$1.20 per day. The cost to the Province of each prisoner placed outside to work in custody on an Extra Mural Permit is a small fraction of this. The difference is due to the fact that the prisoner placed is actually earning his own keep and also to the valuable aid given freely by many officials and private citizens throughout the Province in the maintenance of the necessary custodial supervision.

(c) The system is the equivalent of an institution with a daily population of upwards of 100 prisoners.

(d) The figures for the first five years cover offenders against Ontario law and also offenders against Dominion law. For the last three years Dominion offenders, i.e., criminals, are alone included; in other words no Extra Mural Permits were granted under the Extra Mural Act of Ontario. They were all granted under sections of the Dominion Prisons and Reformatories Act, Chapter 163, R.S.C., 1927.

THE INTRA MURAL EMPLOYMENT OF PRISONERS

From ancient times it has been presumed that prisoners would be given employment when this was profitable or convenient to their captors. They have been put to work in gangs on public buildings, roads, in the galleys and elsewhere, as this has suited public convenience or profit, or for the purposes of punishment. Benefit or advantage to the prisoner has rarely, until recently, been considered; in fact, his treatment has often been directly contrary to his good. Idleness was the lot of many, only relieved by the treadmill or similar contrivances for the carrying out of the sentence which included the phrase "with hard labour." In the county jails of Ontario, apart from cooking, cleaning, etc., idleness is the rule, though in winter, snow may be shovelled, and in the summer some road-making and gardening may be done, and in two or three jails some other work is carried on for the counties concerned. Of course in this Province the jails are merely used for temporary detention or very short terms.

During the last half of the past century in Great Britain, the United States, Canada and elsewhere, work was increasingly allotted to prisoners for the triple purposes of lessening the cost of maintenance to the taxpayer, the improvement and upkeep of the property, and also for the health of the prisoner, the idea of work as punishment operating less and less except in rare cases. Fifty years ago, prison labour was (and is even yet, in too many of the American States, about twenty) let by contract at a small sum per day which was devoted to reducing the cost of prison upkeep. This had certain financial advantages to the state and showed that many prisoners could be productively employed, but the objections to it are very serious and the pressure of enlightened public opinion and of free labour is compelling governments to discontinue it. However, it is clear that with the passing of the contract system other work must be devised for prisoners to save the cost of upkeep of institutions and to prevent the degenerating results of idleness. This is a problem that is now acutely faced in the United States since the passing of the Hawes-Cooper Bill, which in a year or two will practically eliminate contract prison labour in the United States. The prison contract system has not been in operation in Ontario for many years.

But an additional object in the employment of prisoners has for some years been demanded by an increasing section of the public. Until recently the prisoner's family or dependants could go to the devil so far as the public cared. Officialdom certainly took no interest. The man had broken the law and had to be punished by imprisonment. If his dependants suffered it could not be helped. Friends, philanthropic agencies, churches and municipalities might help the innocent dependants if they pleased, but it was held that the punishment of the prisoner must not be lessened nor the burden to the state increased because others were suffering also. The fallacy of this contention eventually became so clear that in a number of the states of the American Republic, experiments were made in the employment of prisoners at productive labour and the crediting of "wages" to the prisoner for his dependants. After a good many years of trial this payment of "wages" has practically become a settled policy in some institutions.

There are, however, some serious difficulties and objections to it. If F. and P. have wives and families and are both out of work and in want, and P. finds that by committing a crime, he may be successful in getting money, or if unsuccessful, he and his family are supported by the state, will not F. be

tempted to follow P.'s example, or feel grave injustice at the spectacle of a lawbreaker and his family being aided while honest persons are left to suffer? Furthermore, while it is clear that the state could, if it wished, pay a bonus or gratuity to anyone, and while it may be reasonably contended in certain cases that such a bonus or gratuity should be paid out of the public funds to the dependants of prisoners, a real wage can only be economically sound and possible if it is a fair recognition and return for actual net value given. Whether and what wages can be paid to prisoners will depend, therefore, mainly on the following:—

1. The prisoner's physical and mental ability and his attitude.
2. The availability of employment suited to his abilities.
3. The length of the term for which the prisoner will actually remain inside the institution and at a particular job which he has been trained to perform efficiently.
4. The market and demand for his products.
5. The cost of handling the product.
6. The cost of housing, feeding and custody; and depreciation and repairs of building and equipment.
7. The interest on capital invested in the plant and material.

Possibly the first item is the most important but all are closely related. On them all depends whether a wage can be economically paid and if so, how much, or whether the defects and unfortunate attitude of the prisoner and the overhead charges are such that he is and will remain a financial loss to the institution.

An examination of the annual reports concerning the persons committed to the five Provincial Reformatories or Industrial Farms of Ontario and to the two Toronto Municipal Farms show that about 10% *could neither write nor read*, about *one-third had no trade*, and a large number of others who were classed as mechanics or agriculturists were not really skilled workers at all. In other words the great majority of the inmates of our institutions are practically untrained and their economic value is by no means high, even as free men.

After a good many years' association with prisoners, though I have found many very likeable men among them, some highly capable and intelligent, and not a few decent and in many respects reliable; I think it is safe to say that a large number are not dependable (for mental, moral or physical reasons) and the great majority are not economically of very great value, being untrained, and not having the right attitude toward public service. It would, I believe, be safe to say that of the prisoners mentioned in the Deputy Provincial Secretary's reports, two-thirds lack the ability and attitude which would make the payment of wages to them economically possible under any practicable internal custodial conditions, and when the actual intra mural custodial conditions are taken into account the number which might possibly be paid wages on a sound economic basis is still less. Another important feature of the problem is that usually over half of those convicted in a year in Ontario are given sentences of three months or less and an increasing number receive indeterminate sentences.

These facts, without any others, show how difficult it would be to attempt to pay wages to non-penitentiary prisoners in Ontario on any sound basis except in occasional cases. The problem of penitentiary long-term prisoners is, of course, another matter, nor am I here dealing at all with the question as to

whether the Province should undertake to assist the dependants of its prisoners out of the public purse. That is also another matter and would involve a revision of a past policy which places dependants upon municipalities rather than upon the Province. However, the Ontario Extra Mural Employment System with which this report deals is based upon the assumption that whether the payment of gratuities to dependants of prisoners is proper or improper, it is certainly undesirable if it can be avoided.

In the Provincial institutions of Ontario a creditable effort has been made to use the labour of inmates to the physical and mental advantage of prisoners and public. In the Ontario Reformatory at Guelph for example, work is done each year by prisoners in weaving, farming, packing, canning and turning out other products to be used by provincial institutions, which reduces the expense of upkeep by three or four hundred thousand dollars. A very creditable figure indeed. But the full aggregate annual cost of that reformatory is twice that sum. This showing of such a well-managed institution demonstrates the practical economic difficulties in the way of paying wages to intra mural prisoners. If reformatory products were more extensively used by provincial departments which now buy from the regular markets, the taxpayers would undoubtedly benefit; but even then the feasibility of a general payment of wages would be by no means sure. If certain industries in the reformatory—the abattoir at Guelph or the Brick and Tile Plant at Mimico for example, and certain selected inmates were alone to be considered, the matter would be somewhat simpler and less difficult of solution. It might be worth while to make a definite experiment of a “one industry” place like Mimico for a few years as a wage-paying institution, with carefully selected prisoners. But the full institutional overhead of the Province should really be included and all the institutions and prisoners considered together. The taking out of this institution and these selected prisoners would increase the deficit on the rest. The apparent settled impossibility in Ontario of the sale of the products of prison labour in the open market, and the failure up to the present of an adequate use of prison labour for the needs of provincial institutions and departments, makes it impossible as yet to use prison labour to its full economic extent even if its full value were much higher than it is.

I have visited and examined the records in a number of American institutions which pay wages to prisoners for dependants. With long term men it seems to have been carried on with economic soundness but with the rest I confess myself not satisfied. When the overhead expenses were all taken into account, even a small wage in most cases was really a gratuity paid out of public funds. It is not easy to get the full facts in connection with some of these institutions. The organization for producing work is rather complete but the cost is great, and under proper system of accounting would show aggregate overhead charges far exceeding earnings, and the net deficit would make the payment of real wages impossible.

It is an interesting fact that the products of prison industries in the United States run in value up to fully seventy million dollars, and the greater part of the stuff manufactured is sold to the open market. This includes goods manufactured under the contract system. But while the figures are large they by no means indicate a net profit because the total overhead expense to the state was greater than the profit.

Here are the main questions:—

1. Should the prisoner be employed?
2. Who is to settle what his employment should be?

3. Should the financial returns be the lessening of the cost of his upkeep?
4. Should the financial returns be devoted instead to the maintenance of his dependants?
5. Should his employment be selected with a view to its effect upon him and his future after his discharge?
6. Should all these objects be kept in view and in what order of importance?

In answering these other questions will arise:—

(a) Are there many sentenced to imprisonment who should instead be placed outside on probation under strict conditions?

(b) Are some sentenced to imprisonment who really should have been given a sound spanking and sent home on parole with a warning as to the future? In this latter question I am thinking of young fellows who are merely mischievous, thoughtless, or lazy, or of those convicted of certain assaults, or of those who refuse to support dependants, or of similar offenders. It would seem that the number of actual prisoners could be in this way lessened to the distinct advantage of all concerned.

(c) If some must be incarcerated as the only means of protecting the public, or to put it in another way, if they need to be put into temporary or extended quarantine, should they not be given long indefinite sentences so that they might stay long enough at one job in an institution to learn that job, earn their keep and possibly support their dependants as well. The problem of the rest might be solved in several ways, mainly the following:—

1. There are a number of young fellows who can and should learn a trade if they are ever to succeed as citizens outside. Should provision not be made for this and should such sentences not be given to them as would enable the authorities to hold them inside until they had sufficiently learned a trade? Their parole would be practically in their own hands.

2. Many prisoners given indeterminate sentences can after a term of incarceration be safely paroled in their own interest and that of their dependants. If has been shown that in about eighty per cent. of those selected by the Ontario Board of Parole the appeal to honour as well as fear of return has been successful.

3. There is the Extra Mural Permit System on which the rest of this report will be centered. It seemed advisable to make the above introduction in order to answer the possible question as to why prisoners should, during sentences, for financial and other reasons, be placed outside to work at all.

THE EXTRA MURAL EMPLOYMENT OF PRISONERS

As stated above, the actual present experiment in the Extra Mural Employment of prisoners began ten years ago and was from the beginning recognized as an experiment because it had never before been tried, and no one could foretell the results. During the first year or two the majority of cases dealt with were those of offenders against provincial law but these steadily decreased as it was deemed wise to centre the effort mainly upon Dominion offenders, and for some years offenders against provincial law have not been dealt with by the Extra Mural System at all.

The objects of the Extra Mural System were, first, to see whether a better use could be made of the time and energies of offenders than merely to employ them inside institutions; and, second, to find out whether prisoners, without changing their status in any way, but merely their environment, could, without

imperilling custody, be employed outside the prison to the common advantage of the prisoner, his family and the public. It was presumed that the traditional idea of punishment for crime was in most respects faulty. It was formerly held that crime could be eliminated by mere punishment and that the more severe this was the greater its efficiency. Modern criminologists are able to produce overwhelming facts that show the fallacy of this. They hold that each individual offender should so far as possible be dealt with on his own merits, and in the light of the facts of his own individual case; though in dealing with these and estimating them, experience with other cases must be a guide. It is recognized that there must be common fundamental principles and that the application of these in each individual case affects and concerns other offenders and prospective offenders, as well as society at large, as much as the individual whose case is under consideration.

It seems now clear that when a prison sentence is given the real and proper punishment to the offender is that he is deprived of his liberty. He no longer controls himself but is entirely in the care of the officials appointed for the purpose of restraining him and guiding him, but while this discipline is essentially a punishment for any individual, it is dangerous to control him with merely this in view. It is not only a waste of time but its effect on the prisoner is injurious both to him and the public. The fact to be kept in view is that at the end of his sentence the prisoner will be a free man. His energies and all his time in fact, therefore, during the period when he is under control should be directed in such a way that when he is a free man he will be the more likely to become an asset instead of a liability.

The Extra Mural Employment System is neither executive clemency nor is it parole. It does not lessen any sentence of a court nor does it contemplate the possibility or desirability of lessening a sentence. It is essentially and wholly a plan for the best use of a prisoner's time in the common interest of himself, his family and the province. The placing of a man at work outside instead of inside the institution is not granting him his liberty. He is as much a prisoner under sentence as if he were actually inside the institution. It is necessary of course to allow a prisoner granted the privilege of an extra mural permit somewhat more initiative than if he were working with a gang inside an institution, but he is in all applicable respects subject to the discipline and regulations of the institution of which he continues to be a prisoner, even though he may be employed far from it.

The legal method under which the prisoner is at present placed outside on an extra mural permit is through an Order of the Lieutenant-Governor-in-Council in each case. This has been called a cumbrous and unnecessary piece of mere formality. It has been said that for a cabinet to be compelled to leave weighty matters of wide public importance in order to decide where a prisoner, John Doe, should work was absurd. It is pointed out that while a prisoner is held inside an institution this responsibility is placed upon a superintendent who is under obligation in choosing the place of an inmate's employment carefully to consider custody as well as all other matters, and it held that instead of the responsibility being placed upon the Lieutenant-Governor-in-Council for employing a prisoner outside the walls, the same method (*i.e.* the decision and authority of one official) should be followed as in the case of his intra-mural employment.

Against this contention must be placed the all-important fact that according to the Dominion law as it now stands this would be illegal. No authority but the Lieutenant-Governor-in-Council has the legal right to order the employ-

ment of any prisoner beyond the limits of an institution. No other course is, therefore, legally possible than to have the Lieutenant-Governor-in-Council pass a special order in each case.

The Commissioner administering the Extra Mural Employment System is wholly and solely an executive officer acting under the authority of the Lieutenant-Governor-in-Council. He is empowered to make recommendations to the Council and to take the custody of any prisoner put to work outside, and though during the 10 years of the operation of the system there have been very few cases in which his recommendations have not been followed, the Council has full power to reject or to accept these as it will. Sometime in the distant future it may be found advisable to increase the responsibilities of the Commissioner and give him fuller powers so that no Government can be even tempted to make use of the system for political purposes, but it does not appear at present that there is any danger of the misuse of the system for ulterior objects. During the 10 years' experiment there has not been a single case in which any Government has authorized or has refrained from authorizing the employment of a prisoner outside for partisan political reasons. In our experience so far, therefore, the fear of this, expressed by some, appears to be entirely groundless. During the ten years no recommendation has been made except upon what the Commissioner honestly believed was in the interest of the public as well as the prisoner and his family. No pressure has been brought to bear upon him by the Government to make any recommendation whatever, and when the recommendation has been approved there has not been cause for even a shadow of suspicion as to the motives of the Council. There were no facts in any case dealt with in the ten years which could not have stood the fullest light and most severe scrutiny. It has seemed necessary to make this statement because while astonishingly little criticism of any kind has been directed against the system, it has come to the knowledge of the Commissioner that there are some who have been a little suspicious.

The reason for the appointment of a Commissioner to act for the Council and under its control is made clear, I think, by the following: The Dominion law on which the system is based and which is quoted at the end of this report, was passed by Parliament in 1916. At first some use was made of it for the occasional employment of prisoners in the immediate neighborhood of certain institutions, the superintendent of the institution taking full responsibility. It appeared that no superintendent was willing to go farther than this, and furthermore there was no set of principles or practise common to the whole Province except where certain gangs were employed outside the institution under the direct scrutiny of institution officers. Therefore, from 1916 until 1920 very little use was made of the Dominion Statutes on which the Extra Mural System is now based. The Ontario Government had full power but it was impossible that the Cabinet or any member of it should find time to go into all the necessary details in each case; because in deciding the question whether John Doe should be placed outside of an institution to be employed in custody, many facts have to be known and many detailed decisions given.

(1) The prisoner has to be personally sized up, his record investigated, his attitude and probable reliability determined and also his ability and mentality.

(2) It has to be decided whether, however erroneously, the public or those interested might with any reasonable grounds interpret the granting of a permit as legal clemency or a condoning of the offence, to the injury of the administration of justice.

(3) The family conditions have to be known and properly estimated in relation to the prisoner.

(4) Specific employment has to be arranged in conformity with the law.

(5) Some local responsible and willing party has to be secured who will undertake his strict custody, acting on behalf of the Commissioner.

(6) Specific instructions in the case of each prisoner have to be decided upon, which will reasonably ensure the adequate carrying out of the sentence of the court and which will serve the interest of all concerned.

It was for these reasons that though the law had been in force since 1916 it was deemed advisable ten years ago to appoint a Commissioner who on behalf of the Government would make the necessary investigations and recommendations for all the Gaols, Industrial Farms and Reformatories of the Province. Regulations were drawn up and approved by Order-in-Council, for the general guidance of the Commissioner and in each individual case he has only such authority as may be specifically given him by the Lieutenant-Governor in Council.

THE ESSENTIAL FEATURES OF THE SYSTEM

1. Though the prisoner is outside during his term of sentence he is neither "at large" nor is he "released." He is not on ticket-of-leave nor is he paroled. His status is not changed, nor is the sentence.

2. He is placed outside solely for "specific employment" (See Cap. 163 R.S.C., 1927, sections 13-16, 49). Illness, sentiment, doubt as to the wisdom of conviction or sentence, services to the Crown, or other similar matters do not enter into the decision. These points may be taken into account when a case is being considered for clemency by the proper constitutional authorities, but not by the Commissioner for Extra Mural Employment.

3. The earnings of the prisoner outside on permit go wholly to him and his dependants and not to the Province nor to any official. This is a far cry from the contract system under which all earnings went to government and contractor.

4. The Commissioner has complete custody of the prisoner and can appoint a local deputy to act on his behalf with custodial powers. The co-operation received by the Commissioner from judges, magistrates, police, clergymen, Salvation Army officers, and many other responsible citizens has been most gratifying and effective. They have taken charge of prisoners voluntarily and without expense to the public and have done this efficiently.

5. The assistance received from the Board of Parole and its staff has been invaluable.

6. The system is based fundamentally on the presumption that when a prisoner's liberty is taken from him this time should be used with a view to the fact that he will eventually be a free man. It takes for granted that while the offender needs institutional treatment for at least a while, there is a psychological time after which this is needless, ineffective and harmful to prisoner and public and that at that time it is best for all concerned that he be placed to work outside in custody instead of inside. It also presumes that whether inside or outside he shall be occupied to the best economic interest of himself and the public.

SOME DIFFICULTIES OF THE SYSTEM

1. In certain important respects the system for the Extra Mural Employment of prisoners in Ontario is new and from the beginning great caution had therefore to be exercised, though some features were found possible after a

year or two which were considered unwise at first. For example, those guilty of certain crimes like manslaughter, breach of the Inland Revenue Act, etc. were deliberately not dealt with. Later on, offenders guilty of these crimes were recommended provided this was approved by the authorities at Ottawa. After a time the Ottawa authorities decided that since no clemency was exercised and the matter was entirely in the hands of the Lieutenant-Governor in Council of Ontario it would be unnecessary to communicate with them further on the subject.

In only two cases during the ten years have valid objections been pressed by the Dominion authorities. In the first year of the system an offender against Dominion law was placed outside under the Extra Mural Employment Act of Ontario. It was objected that this was ultra vires, and the Extra Mural Employment Act was amended so that it would apply only to offenders against Provincial law. It was in connection with this case that the present Commissioner interviewed the Department of Justice and was assured of its interest in the experiment provided all offenders against Dominion law were in the future placed outside on the basis of the clauses in the Prisons and Reformatories Act, a Dominion Statute.

The second case in which valid objection was taken was that of a gaol inmate serving a short term. It was held that, in the section of the Prisons and Reformatories Act relating to the employment of prisoners outside gaols, this could only be done when the offender was sentenced "with hard labour." Since the person placed outside to work had not been so sentenced he had to be at once returned inside the limits of the gaol. These, I believe, are the only instances in the ten years in which a mistake has been made in law. It would appear that the sections in the Prisons and Reformatories Act relating to gaols could wisely be changed to conform with the sections relating to reformatories and industrial farms. Had the present use of the law been in view when section 14 of chapter 163 R.S.C. was being drafted, it seems reasonable to think that the words relating to hard labour would have been omitted, especially since under the Extra Mural system no prisoner is compelled to work outside under the system against his will.

2. It has often been difficult to find the approximate common interest of the prisoner and his family. The advice of the Ontario Board of Parole has been invaluable in this regard. In several cases during the ten years, men convicted of false pretences in connection with the sale of stocks and given two-year terms were found to be essential in the carrying on of certain industrial enterprises and it was shown that shareholders in these enterprises would lose large sums of money if the offenders remained in prison. On the advice of the Board of Parole they were therefore employed outside in the custody of the Commissioner and his deputies in the carrying on of the industries, and as a result the innocent shareholders in these enterprises were not penalized by the loss of their investments. Permission to work outside is not given necessarily as an act of sympathy to the offenders themselves. Numerous offenders who were not at all reliable and their offences rather serious were because of their innocent wives and families placed outside to work though under unusually strict conditions, a number being placed in the gaol each night at 8 o'clock. In all these cases the prisoner went voluntarily to the gaol at that hour. Failures to report were almost negligible.

In a number of instances the difficulty was the inmates' strong thirst for intoxicating liquor; many of these, however, were given the privilege of working for their dependants. In several cases where they yielded to liquor they were

disciplined by the superintendent of the Reformatory, some of them being given a spanking, and were immediately placed outside again to continue supporting their families. In all these cases the disciplinary action of the reformatory authorities was effective. There was no subsequent relapse. A fairly large number of offenders who had been sentenced for non-support of dependants were dealt with satisfactorily. Most of them were unreliable but feared the penalties of the breaking of instructions.

3. Possibly the most important and difficult duty of the Commissioner has been to determine the reliability and fitness of those proposed as deputy custodians, but this difficulty has been lessened by the very fine public spirit, reliability and intelligence of those willing to give their services. It is remarkable how willingly and efficiently clergymen, Salvation Army officers, police, magistrates, sheriffs and other officials and private citizens have devoted their time and energies to persons committed to their charge by the Commissioner. I can only recall one instance in which a deputy custodian failed to appreciate and act up to his responsibilities. Two examples of efficient and public-spirited service are the following: The head of a firm whose plant covers 10 acres took charge of the son of one of his employees and carefully, kindly and strictly supervised him until the end of his sentence. He employed him in his plant. That prisoner has now risen to a good post and has justified the care and time given to his proper guidance. The other case is that of a man who had resisted arrest and put the Chief Constable of a certain town into the hospital for a week by assaulting him. The prisoner had a dependent family. Later on he was placed outside to work in that town and the Chief Constable consented to supervise him on behalf of the Commissioner, a very generous action.

4. To apply the system to single men with no dependents was clearly a perilous venture but it has proven worth while and during the past ten years more single persons were granted extra mural permits than married persons. The reason for the placing of many a young single man outside was the danger that a young fellow, especially a first offender, will usually either become discouraged and lose his ambition and self respect by long incarceration, or after the first few months he will become accustomed to his surroundings and will lower himself to the status of baser men. In hundreds of cases young fellows given from one to two years have been placed outside after a few months actual imprisonment and have subsequently made good in every way. For some years the Ontario Board of Parole has adopted the policy of recommending that certain offenders who had been given definite terms followed by an indeterminate should be allowed to work outside the institution in custody for the balance of their definite term, and have promised the inmate that if he made good on an Extra Mural Permit he would be granted parole, but have cautioned him that if he failed to carry out his extra mural instructions he would not be paroled. This has been remarkably successful. Last year the Board of Parole made such recommendations in 329 cases.

SPECIAL DANGERS OF THE SYSTEM

1. The Commissioner needs constantly to bear in mind his constitutional limitations and requirements and that an Extra Mural Permit is in no sense legal or executive clemency nor a change of the sentence of the court. The objects of the system would be defeated if the sentence were changed. Practically all offenders need to lose their liberty for the full time set by the court. The Commissioner's powers are wholly confined, with the necessary approval of the

the Lieutenant-Governor in Council, to determining when it would seem advisable in the interest of all concerned that a prisoner should be employed outside instead of inside an institution without any change in his status as a prisoner and making recommendations accordingly.

2. Since no official is perfect there is always the possibility of ulterior influences operating. Your Commissioner believes that he has successfully kept away from these and has endeavoured to be judicial and scientific. Very few attempts have been made to influence his decisions improperly on political or any grounds whatever, and the support of governments has been such as has enabled him to deal with these as the circumstances seemed properly to demand.

3. There was the danger that the system might at least to some extent be interpreted as nullifying the intention of the court and the effect of the sentence on the public. I believe a careful review of the cases dealt with during the ten years will fail to show any reasonable grounds for such an interpretation. When there has been any doubt on this point either an adverse decision has been given, or the judge or magistrate has been asked regarding the matter, as there should be no reasonable cause for such an interpretation to be put upon the issuing of an extra mural permit in any case. It has been said that in some cases granting to a prisoner the opportunity of working extra murally in custody has increased his comfort and therefore decreased his punishment. This has been dealt with above. Even inside an institution the change of a man's employment, say from a sewer or a quarry to a greenhouse or an office, would decrease his discomfort and his punishment. The objection cannot be held as having any great weight. In not a few cases the acceptance of extra mural employment by a prisoner has distinctly increased his responsibilities and sometimes his penalty but he was willing to accept it because of what it meant to his family.

4. There is always danger in giving powers to any official such as those given to the Commissioner or to institutional custodians, but this can hardly be avoided. Power has to be given in all cases proportionate to responsibilities, and so far as the Commissioner is concerned he certainly can only act under the powers given him by law and regulations and conferred upon him in each case by the Lieutenant-Governor in Council.

5. The greatest danger of the system is the custodial, and there is little wonder that when it was instituted few persons believed that it could have a reasonable success in this regard. The Commissioner was himself not at all sure that this danger could be guarded against, but his experience of many years with offenders made him volunteer with some confidence to undertake the necessary duties. The figures given are far better than even he dared hope. It will be seen that out of 2,354 Extra Mural Permits granted in the ten years there have only been 113 custodial failures, that is, persons who either committed crime while working outside or disappeared. This means a custodial success of over 95% and it might be added that over one-half of the custodial failures have subsequently been apprehended and adequately dealt with by additional prison terms. Each year it has been deemed advisable to return a few inside the prison again for various prudential reasons. Some of these have subsequently been given another chance. Last year 10 were returned inside the institution either for misbehaviour or as a precautionary measure. They are of course not custodial failures in fact their return to the institution proved to the persons concerned that the custody was real and efficient.

THE PRINCIPAL BENEFITS OF THE SYSTEM

1. The saving of suffering and punishment to many innocent dependants of offenders.

The family is an organic unit. There is much suffering brought upon the other members by the one who goes wrong and which is unescapable. Nothing can be done to alleviate it. But some kinds of hardship bear upon innocent dependants of offenders which can be lifted, at least to some extent, and which should be taken off their weak shoulders. In ancient days a whole clan was wiped out, including women and children, for the misdeed of one member. We abhor this but are guilty of similar cruelty when we seize and imprison a man who was the only support of his family and make no attempt to provide for its needs. The Extra Mural System of Ontario is by no means a panacea but it does meet this need in many cases. Instead of offering cold charity or kindly philanthropy or municipal doles to those left destitute, it gives the criminal himself the opportunity to save his family from want. It does this without expense, but rather a considerable saving, to the Province, and with no sacrifice of the just demands of the law. Unless and until some better plan offers it would seem right and proper to maintain and develop this.

There are some who repudiate the responsibility of the public to provide for the family of a prisoner and call it a sentimental interference with the course of justice. They point to the flaws in a system which no one claims to be perfect. They point to the man's offence against society. He stole a car, or forged a note or committed some other crime. He should be imprisoned and kept in prison, they say, no matter what suffering is entailed to others. He did the deed. The public was wronged thereby. Why should the public bear any of his family responsibilities? Such is the attitude, fortunately, of but a few. It is plausible, but no criminologist will admit the unwarranted assumption that the serving of a long sentence in prison is generally to the ultimate advantage of the public. The facts are against it, not for it as is often presumed. Furthermore the contention is heartless. A wife and her children have surely had trouble enough from the conviction of the husband and father. Why add to this by inflicting financial and physical suffering upon these innocent persons if it can be avoided? (It sometimes cannot be avoided.) To protest against this is surely not sentimentality but reasonable humanity. By what ethical right can these persons, wholly guiltless of wrongdoing, be included in the penalty quite properly inflicted upon the criminal himself, unless there is no escape from this?

A few typical illustrations might be briefly sketched. A first offender was convicted of theft and given a two-year term. He had a good farm and had almost completed his payments. His wife and family lived on the farm. After he had completed a few months he was in the springtime placed on his farm and forbidden to go half a mile from the farm without permission. He was put in charge of a clergyman who had been an Overseas padre. The family were thus saved from unnecessary suffering and the man's services were employed to the best economic interest of the Province. This course has been followed a number of times with excellent results. Another offender was convicted of false pretences. He was a good workman and earned good wages but when under the influence of liquor he would sign cheques. He was sentenced to a year in the Reformatory. The police officer who arrested him informed the Commissioner that he had a good wife and two little boys and stated that if he were allowed to work outside he, the detective, was willing to act as Deputy Custodian. The Government approved of the recommendation and after one

month actually in prison he was put at a good job to support his family. While thus employed he again took liquor and signed another bad cheque. The Commissioner got in touch with the magistrate and the man was given another year's term. It did not seem fair, however, to punish his wife and boys for his misdeed. He was accordingly returned to the Reformatory only long enough to receive a spanking for having, while a prisoner, broken the rules and discipline of the institution by becoming intoxicated and committing crime. He was then immediately returned to his job outside, served the full balance of his term satisfactorily, and when he was finally discharged from custody he had a good little home well furnished and was on his feet. He confessed to us that mere imprisonment would never have cured him of his unfortunate tendencies, but that the two other factors employed had permanently straightened him. First, being allowed to help his needy family, and second, the spanking. A young woman in her teens was employed in an office which was very loosely administered. She came from a poor family and her wages were not very high. She helped herself at times to various sums of money. Eventually on an audit her crime was discovered. The judge censured those in charge of the office for their carelessness, but felt compelled to administer a sentence to the girl. However, he was impressed with her abilities and believed that she would henceforth walk in the right path. On his recommendations she was after a few months placed outside on an Extra Mural Permit and is now quite re-established as a good citizen. It might be added that in this case, as in many, there was thorough repentance even before any sentence was pronounced.

Some years ago a man was convicted of manslaughter and given two years in the Reformatory. On account of the illness of his wife the justice of the Supreme Court, who sentenced him, felt compelled to recommend clemency so that the offender could take care of his sick and destitute wife. In reviewing his case the Board of Parole was not favourably impressed with the man and believed that it would be a mistake to have his sentence shortened through the executive clemency of His Excellency. On the advice of the Board the Commissioner therefore had an interview with the judge. He entirely agreed that the man was unworthy of clemency and expressed himself as delighted to learn that the offender could legally be employed outside to help his dependants without in any way interfering with the sentence of the court. On reading the statute he immediately changed his recommendation for clemency to a recommendation for Extra Mural Employment. The man was accordingly granted permission to work outside the Reformatory and while he needed careful watching for the full period of his sentence he kept all instructions and supported his family. It is very doubtful whether he would have carried on so faithfully had he been granted clemency, but under the Extra Mural System he knew that he either had to do as he was told or suffer penalties.

Many young fellows have been given rather lengthy terms for crimes, sometimes with and sometimes without an indeterminate sentence added, and in reviewing these cases at the reformatories and farms the Board of Parole in hundreds of cases has felt that if the offenders remained actually in the institution for the full definite terms given them the result would be disastrous. There was no doubt that they needed to be kept under control and guidance for the maximum term given by the court and that some months of institutional discipline were necessary, but that the greater part of the term should be spent outside in custody. On the recommendation of the Board these hundreds of young fellows have been put to work outside under good environment and strict control, and in the great majority of cases they have been turned into

permanent assets. A few of them have gone wrong again and were not given a further chance.

2. Magistrates and judges are freer to give adequate sentences knowing that so far as it can be arranged in the public interest the suffering of needy and innocent dependants will be alleviated.

Furthermore, the courts may realize that the best possible economic use will be made of the offenders' time and energies during the full sentence given to the reformatory or industrial farm. They are aware that if it seems advisable in the ultimate interest of the offender and the Province an Extra Mural Permit will be granted and as the facts have been disclosed during the successive years of the experiment there has not only been an almost complete disappearance of any adverse criticism from the courts but on the contrary there has been a steadily increasing number of magistrates and judges who have actually recommended that after a short time extra mural permits be granted. At the outset and even yet in a few cases some officials have misunderstood the system and have thought that the granting of an extra mural permit was a condoning of the offence and was an act of clemency. When these protests have come to the office it has not been difficult to clear up the difficulty to the satisfaction of the official.

3. The guiding of many offenders themselves to re-establishment before the end of their sentences, through the channel of work for themselves or for their dependents outside as if they were free men, and apparently under the conditions of free men, though they were well aware that they were not free but were strictly accountable and in all respects under control by the Province.

When the system had been in force five years it was stated that time alone could determine how far its apparently satisfactory results would be permanently effective. The five years' experience had been satisfactory, but the Commissioner felt at that time that there was the possibility of coincidences being interpreted as sequences. There was also the danger that hopes might be mixed up with facts though the system seemed to be based upon sound psychology. However, the facts for each of the ten years seem so significant and conclusive that it would appear proven that this attempt to guide offenders to re-establishment, while they are actually and in all respects prisoners, is feasible. There seems to be no reason for fear that, with the added experience of the years, extreme caution, and strict and fair supervision, there will be any material increase in the percentage of failure. If this be so, the system has meant and will mean not only for the past but for the future the conversion of hundreds of liabilities into assets, protection and assistance given to thousands of innocent dependents, and excellent economic results to the Province without in any way lessening the deterrent effects of sentences given. There were many who questioned this last statement eight or nine years ago, but it does not appear that in the light of the facts anyone would be justified in making that criticism now.

4. The financial advantage to dependents, to municipalities or philanthropic agencies who otherwise would find it necessary to support the dependents while the prisoner was serving his term inside, and to the Province which is saved almost the whole cost of guarding, housing and feeding him. The cost of each prisoner inside the reformatory is about \$400 a year. The full cost of each prisoner to whom was issued an Extra Mural permit in the past five years averages less than \$15.00 a year.

I believe it is far less than that. It is difficult to estimate the financial debt of the system to the Parole office. Supervision of men working outside

on Extra Mural permit is attended to by the officers of the Board of Parole while they are on their parole inspections, and all the correspondence is carried on in and through the Parole office. My own opinion is that an expense of \$10.00 a year for each offender granted an Extra Mural permit would be a fair estimate.

In closing it might not be out of place to quote a few of the many comments received on the system. A letter from a Chief Constable is typical of many that have been received from Police officials during the ten years.

1. "Since the Extra Mural Permit System has been in vogue I have watched the working of it very closely and have had the opportunity of watching a lot of cases in this district as deputy custodian, and I am pleased to be able to say that practically every case while under Extra Mural Permit has been very successful indeed in this locality. I have no hesitation in recommending the work done in connection with the Extra Mural System."

2. A typical letter from a Police Magistrate is as follows:—

"I am a greater believer in the system. Persons who break the law should be made to work and support themselves and their dependents. I hope it will be maintained. I see no reason why this system should not be made one of the most powerful instruments in the reformation of the law breaker. I think the saving to the Province alone warrants its continuation although that is a small part of the benefit we have received through the system. It is a wonderful system."

3. A wife and mother writes:—

"My five little children and me were ready to give up. We were living in one room on charity. My man was always a good husband and father to us. Allowing him to get out to help us has saved our lives."

4. An experienced county judge states that:—

"It is the sanest and most effective system I know of in connection with the handling of certain offenders."

It is pleasant to be able to state that the custodians in charge of all the Reformatories and Industrial Farms of the Province have from the beginning given the system their most hearty approval. They have made many helpful suggestions and there has been the utmost harmony between the Superintendents of these institutions, the Ontario Board of Parole, and the Commissioner. The Canadian Bar Association has on two occasions commended the system to other provinces and the sympathetic attitude of the Department of Justice has been continued from the time of the interview of the Commissioner with the Deputy Minister of Justice ten years ago.

The Commissioner is surprised that the system has received so little adverse criticism. The principles on which it is based are diametrically opposed to the old idea of the proper treatment of the criminal. He had no idea that public opinion had made such progress even in the enlightened Province of Ontario. When Victor Hugo wrote "Les Miserables" and later on Charles Reade wrote "It is Never Too Late To Mend" under the stimulating principles enunciated by John Howard, the public responded with its heart but was unconvinced of the feasibility of the carrying out of their ideas. But in the last 50 years in all countries there have been successful and extensive advances made in the practise of handling criminals in a sane, just and beneficial way. Each country has its own difficulties and problems and has to apply the principles in the

manner which best suits its own conditions. Those of us who have watched and taken some part in the development of practical criminology in Ontario in the last 40 years have good reason for surprise and gratification at the way in which Ontario has measured up to the progress in other parts of the world, and in this experiment of employing prisoners outside in custody it has gone farther than any other province or country. From the figures and facts of the ten years it appears to fit the conditions of Ontario. Whether it would suit the conditions of other provinces and other countries is for them to determine. It would appear that some such system would be applicable in any country where there was a good public respect for law and order, an assurance that political or other ulterior factors would not enter into the administration of the system, and sentimentality was not allowed to be substituted for common sense, scientific respect for facts, and a humane and Christian attitude toward offenders and their families. Experience seems to show that while officials must necessarily administer the system it would be certain to fail without the intelligent voluntary co-operation of public-spirited and responsible citizens and officials freely giving their services as Deputy Custodians of offenders allowed to work outside while under sentence. Too much credit for the success of the ten years experiment cannot be given to the hundreds of citizens of this Province who have sacrificed their time and energies in order to attempt the salvage of offenders and the relief of dependent families whose breadwinner had been sentenced to prison.

The powers and duties of the Commissioner are stated in the regulations approved by the Lieutenant-Governor in Council, September 19, 1922, and given in each specific case by an Order-in-Council. The statutory basis is Cap. 163, R.S.C. (1927), Secs. 13-15, 49 and 61, which read as follows:—

GAOLS

“13. The Lieutenant-Governor of any Province may, from time to time, make regulations for the purpose of preventing escapes and preserving discipline in the case of prisoners in any common gaol or prison employed beyond the limits of such common gaol or prison.

14. After such regulations are made, the Lieutenant-Governor may, from time to time, direct or authorize the employment, upon any specific work or duty, beyond the limits of any common gaol or prison, of any prisoner who is sentenced to be imprisoned with hard labour in such gaol, for any offence against any law of Canada.

15. Every such prisoner shall, during such employment be subject to such regulations and to all the rules, regulations and discipline of the gaol or prison, so far as applicable.

ONTARIO REFORMATORY AND INDUSTRIAL FARMS

49. The Lieutenant-Governor may, from time to time, authorize, direct or sanction the employment upon any specific work or duty without or beyond the limits of the Ontario Reformatory or an Industrial Farm of any of the prisoners confined or sentenced to be imprisoned therein or transferred thereto, as herein provided.

2. All such prisoners shall, during such last mentioned employment, be subject to such rules, regulations and discipline, as are approved by the Lieutenant-Governor in that behalf.

MERCER REFORMATORY

61. The Lieutenant-Governor may, from time to time authorize, direct or sanction the employment upon any specific work or duty without or beyond the limits of the Reformatory or Industrial Farm of any female confined or sentenced to be imprisoned or transferred thereto as herein provided.

All such prisoners shall, during such last mentioned employment be subject to such rules, regulations and discipline as are approved by the Lieutenant-Governor in that behalf."

ALFRED E. LAVELL,
Commissioner for the Extra Mural Employment of Sentenced Persons, under *The Prisons and Reformatories Act.*



37th Annual Report

of

Superintendent Children's Aid Branch

dealing with

Children's Protection Act

Children of Unmarried Parents' Act

Adoption Act

Industrial Schools

SESSIONAL PAPER No. 19, 1931

Under direction of
The Minister of Public Welfare

Toronto, March 10th, 1931.

TO HIS HONOUR WILLIAM D. ROSS,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to your Honour the Thirty-seventh Annual Report under The Children's Protection Act of Ontario, the Tenth Annual Report under The Adoption Act, and the Tenth Annual Report under The Children of Unmarried Parents' Act.

Respectfully submitted,

W. G. MARTIN,
Minister of Public Welfare.

Toronto, March 15th, 1931.

HONOURABLE W. G. MARTIN,
Minister of Public Welfare,
Parliament Buildings, Toronto.

SIR,—

I have the honour to transmit herewith the Thirty-seventh Annual Report under The Children's Protection Act of Ontario, and the Annual Reports under The Adoption Act, and the Children of Unmarried Parents' Act.

I have the honour to be, Sir,

Your obedient servant,

J. J. KELSO,
Superintendent and Provincial Officer.



ONTARIO

THIRTY-SEVENTH REPORT

TORONTO,
March 4th, 1931.

IN all departments of Social Welfare the year 1930 will no doubt prove a record one in the number of cases reported and the volume of business transacted. This is due to the constantly increasing attention paid to problems of human betterment together with the distress and disruption caused by unemployment. It is in the lower paid service that unemployment is most noticeable and naturally the burden of support, with all the incidental difficulties, falls at once on the various social agencies. In this office we have had a much heavier mail, more visitors, more difficult problems than in other years, and if there is any redeeming feature about it all it would be in the privilege and opportunity of advising and relieving men, women and children whose troubles come before us for adjustment. It has been our constant endeavour to lighten the burdens of distressed applicants.—Some of them reaping the consequences of their own folly and sin, but others the victims of circumstances or the innocent sufferers for the sins of others. The outlook would be indeed hopeless if we did not feel that our efforts were of a constructive character—leading to permanent improvement, as evidenced in better lives, better homes and better social conditions generally. Sinister influences are steadily at work to undermine and destroy all that is best in our civilization and to counteract this, social welfare organizations are engaged in unselfish service to the poor, seeking to remove inequality and injustice and to bring health and happiness within the reach of all.

During the year there passed over the Superintendent's desk forty-two thousand letters and reports concerning the welfare of children, and visitors averaged from twenty to forty each day. A careful record kept for one month showed that 6,511 pieces of mail were received—letters, reports, accounts, receipts, etc.

Our aim has been to answer every enquiry promptly and to meet the wishes of our correspondents to the full extent of our ability. Where it has been impossible to comply with the request received we have at least tried to put the refusal in a kindly way, and have even been thanked by those to whom a warning or a reprimand had to be sent.

In addition to supplying general information, this office deals with Children's Aid Societies, Industrial Schools, legal adoption of children and the investigation of all cases of children born out of wedlock throughout Ontario.

In this introduction brief reference might be made to the outstanding facts and figures of our work:

Children's Aid Societies—During the year there were 1,429 children made wards of the various societies—729 permanent and 700 temporary. The making of temporary wards is a comparatively recent amendment to the Act, intended to help parents over a brief period of distress, or while they are under probation for neglect of children. It is a fine provision but very susceptible of abuse and requiring restraint on the part of children's aid and court officials.

Industrial Schools—These institutions are in a chronic state of overcrowding. As in the case of the Children's Aid Societies, increased numbers and difficulty in finding homes for wards is largely due to the prevailing depression and reduced family income.

Adoption Act—There were 706 completed legal adoptions—a steady and desirable increase.

Unmarried Parents' Act—Last year 2,180 unmarried mothers were reported—a considerable increase over previous years. The amount collected in cash from putative father was \$123,605.95 and in disbursing this money there were sent out 6,982 cheques. It is worth noting that in the past nine years we received and administered a total of \$788,319.41. This work is widespread in its social ramifications affecting many persons and every community. Our aim has been to administer it carefully, sanely and with impartial justice and we invite a thoughtful perusal of the year's activities.



Children's Aid Societies

THERE is a Children's Aid Society in every city, county and unorganized district throughout Ontario—not a corner of this great Province that is not equipped with all the necessary machinery for the prompt relief of needy or suffering childhood. It is a service of the greatest importance and should not be given second place in any programme of social adjustment. Here is an extract from an earlier report that is worth repeating:

“The best time to save the criminal is before he becomes one. It costs less in money, and infinitely less in some other things that are worth much more than money. Prevention is a greater word than reformation. The highest achievement of the state or of the church is not a man rescued in mid career from a life of vice and crime, but rather a child, strengthened in will and purpose, clean in hand and in heart, fitted by training and discipline for a whole long life of service and usefulness.”

That the societies have consistently followed this policy is evidenced in the thousands of young people who have been brought on to maturity and are now as men and women taking a useful part in community life.

First of all we seek improvement in home life. The moment a report reaches us that children are not receiving the care and attention necessary for their best welfare, friendly investigation is made and advice, admonition or practical assistance extended as may seem desirable. This does not lend itself to display but is the finest and best class of work that any worker or society could engage in. Next in order comes the hopeless cases where warning has been unheeded or the conditions such as to call for drastic action. Evidence is then submitted to the court and careful consideration is given to what should be done in the best interests of the child. Commitments may be of a temporary character or permanent if no improvement likely. The next step is a short residence in the Children's Shelter for examination as to health, and the prompt treatment of any physical defects. Much depends on the thoroughness with which this important work is done. Instead of placing neglected or dependent children in orphanages or reformatories, the aim is to get them into Christian foster homes. This has been the strong point in our work all through the years and we have had wonderful co-operation from the people of Ontario.

OVER THIRTY THOUSAND

During the years 1893 to 1930 there have been 30,398 children made wards by court order with over double that number assisted and befriended in various ways without being made permanent wards. Of this large number the failures are less than one per cent.

To the foster parents who have assisted in the laudable work of maintaining and training these children the Province owes a great debt of thanks. The finest service too often goes unrecognized and unappreciated while the occasional case of overwork or ill-treatment is advertised far and wide.

CHILDREN MADE WARDS

Committed as temporary wards.....	700
Committed as permanent wards.....	729
Total.....	1,429

PERMANENT WARDS

A comparative statement showing the number of children made permanent wards in the years 1926 to 1930, inclusive, is as follows:

1926.....	809
1927.....	686
1928.....	706
1929.....	693
1930.....	729

TEMPORARY WARDS

Of the 700 children made temporary wards in 1930, 501 were Protestant and 199 Roman Catholic.

Temporarily committed in 1927.....	82
“ “ “ 1928.....	283
“ “ “ 1929.....	327
“ “ “ 1930.....	700

There has been an increase in the number of temporary wards each succeeding year. Many of the children committed have remained in the care of the Society for a few months and then been returned to the parents after improvement of home conditions. To permit of still further adjustment renewals have been made in some cases.

Temporary commitment has also been resorted to in a number of cases where fathers had been sent to prison and the family left destitute. Also in other cases of father's desertion and inability to locate him.

RELIGION OF CHILDREN MADE PERMANENT WARDS

Protestant		Roman Catholic	
Boys.....	264	Boys.....	74
Girls.....	301	Girls.....	90

NATIONALITY OF PERMANENT WARDS

American.....	2	Irish.....	27
Armenian.....	1	Italian.....	2
Austrian.....	2	Jamaican.....	1
Belgian.....	1	Japanese.....	1
Canadian.....	520	Jewish.....	4
Croatian.....	1	Polish.....	23
English.....	58	Russian.....	5
Finnish.....	4	Scotch.....	20
French.....	39	Swedish.....	2
Galician.....	1	Ukrainian.....	1
German.....	8	Welsh.....	5
Indian.....	1		

CAUSES OF COMMITMENT

	Protestant	Roman Catholic
Neglect.....	204	37
Desertion of parents.....	67	22
Father in prison.....	37	11
Born out of wedlock.....	126	31
Theft or delinquency.....	7	4
Immorality of parents.....	21	8
Parents separated.....	21	22
No means of support.....	38	16
Orphans.....	44	12

AGES OF CHILDREN COMMITTED

	Protestant	Roman Catholic
Under 3 years of age.....	146	46
Between 3 and 7 years of age.....	152	46
“ 7 “ 11 “ “.....	135	37
“ 11 “ 14 “ “.....	77	26
“ 14 “ 16 “ “.....	55	9

CHILDREN OF CATHOLIC FAITH

The number of Roman Catholic children under more or less active supervision is 1,617 and during the year personal visits or careful enquiry has been made concerning the welfare of over 800 boys and girls. This has meant many arduous trips from Ottawa to Windsor and in the north country to the borders of our Province in order to keep in close touch with all Catholic children entered in our records.

WARDS RELEASED FROM SUPERVISION

Protestant.....	625	Roman Catholic.....	123
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VISITING CHILDREN IN FOSTER HOMES

During the year between five and six thousand children were visited and reports sent to this office by our local superintendents. These reports were in the main satisfactory, and where conditions were doubtful, action has been taken to bring about improvement. Official visits are made to homes once each year with the understanding that the local Society will make any further visits or enquiry as may seem advisable. When children pass their sixteenth year it is important that steps be taken to see that they are receiving secondary education or if devoting all their time to farm or household duties they are receiving reasonable remuneration in the form of direct wages or a savings fund transmitted to the Treasurer of the Society. The aggregate amount held in trust for wards by the various societies, amounts at the present time to \$70,000.

CHILDREN UNDER SUPERVISION

The supervision and inspection involves a great amount of arduous labour and it is interesting to know that it was only necessary to remove a small number to a new environment. At the same time we must confess to a great deal of anxiety over the placing and supervision of children. Sufficient attention has not been given to home-finding with the result that many children are deprived of the great benefits of foster-home care.

CHILDREN'S SHELTERS

There has been an increase in the number of Children's Shelters throughout the Province during the past year.

Kenora—The Society at Kenora have rented a house and in future will be able to provide temporary accommodation for children needing help.

Essex County—The County of Essex has been separated from Windsor and Walkerville and the Society has secured a temporary home in the town of Essex with the understanding that the county will erect a Shelter in the near future.

IMPROVEMENTS

Fort William—The interior of the Shelter has been remodelled, and additional rooms built, thus providing necessary accommodation.

North Bay—An addition has been made to the Home and this includes a large playroom which is a necessity during the winter months.

Port Arthur—The large verandah has been made over into a sun-porch for the use of the younger children in this Shelter.

Hespeler—This Society has erected a sitting-room for the older girls and a playroom for the smaller children.

Brantford—The old Shelter has been remodelled and a large addition added thereto at a cost of \$15,000. It will now be possible to accommodate the children in comfortable quarters, with bright surroundings and every possible protection. The addition includes playrooms, a large dining-room with special conveniences for younger children, isolation room and dormitories.

TO SECURE THE BEST RESULTS

All sections of the Province are now well provided for in the matter of temporary receiving homes—we can only hope that care will be taken to maintain a high standard of efficiency and prevent abuses creeping in that would mar the usefulness of the work. These abuses are keeping children too long, failure to provide an adequate and capable staff, failure to have proper health attention given every child, and failure to supervise the moral training, so that evil habits and tendencies may be effectively checked before it is too late. The admission of a child to the Children's Shelter is the great opportunity for starting it on a new and nobler career.

PLACEMENT OF CHILDREN

As already mentioned, one of the most serious problems facing us to-day is delay in the placement of homeless children. Each year it becomes more difficult to secure homes for the many wards of the Societies, probably because we have allowed our enthusiasm to grow cold. Fewer applications are being made with the result that bright boys and girls are being cared for in the many Shelters and boarding homes, with no prospect of removal therefrom. With conditions such as they are, it is obvious that a better procedure would be for representatives of our Societies to visit the rural districts and interview homes where there are no children, in co-operation with Women's Institutes and other local agencies. No doubt, many people would be glad to take an attractive boy or girl if the matter were intelligently presented to them. This is the day of opportunity and each Society should take advantage of it by seeking out prospective homes, simply using the Shelter as a clearing house, or temporary home.

WAITING CHILDREN

Following is a pathetic appeal that has come to us from more than one source:

"We have some fine boys and girls whom we are anxious to place in good homes, children who have been in the Shelter some time and are well trained and anxious to find a permanent home, and I feel sure that there are people who would take such a child if it was only brought to their notice, and we are always pleased to give full particulars to anyone interested."

OUTSIDE STAFF

The changes in staff of local superintendents during the year numbered four. The County of Essex has been separated from Windsor and Walkerville, and W. J. Sample of Essex, Ont., appointed Local Superintendent; M. R. Winters continuing to look after the city work.

Archdeacon J. Lofthouse succeeds Andrew Gordon at Kenora.

B. W. Heise was appointed Director of Children's Aid Society of Hamilton.

George M. Pool, Welland City, succeeds J. R. Vaughan, resigned.

Alexander Clarke, of Lindsay, succeeds Mrs. E. E. Sharpe, who for thirty years has given fine service in Victoria County.

PRESERVE NATURAL AFFECTION

A fundamental principle in all child-saving work is to try and keep the home together by assisting parents in temporary need. Naturally, there is or should be a strong bond of affection between parents and their children and where at all possible this should be strengthened and preserved. Occasionally we come across exceptional cases where on moral grounds separation seems imperative, and it is indeed sad when conditions are such that children rejoice in the separation. In a certain family where there were eight children, the father and mother were constantly fighting and swearing at each other, and in addition to

slow starvation the children were abused and made to work gathering fuel, etc. They were like a lot of frightened mice when the father was around, but after they were declared wards of the Children's Aid Society and removed to the Children's Shelter they became as merry as crickets—not a word or sigh of regret and only scared looks when anyone mentioned the possibility of their return. Happily it was found possible to return them to penitent parents and the situation is now fairly satisfactory.

PARENTAL RESPONSIBILITY

It is necessary to keep constantly before the public the principle that parents properly provide for their children. When a child is found neglected and destitute we enquire who is responsible for the neglect and the parent is advised in a kindly but firm manner that the child must be better cared for as the law provides a serious penalty.

When they are at all able to provide for their family it is wrong in principle to relieve parents of their responsibilities or to remove the children to institutions at the public expense. Such a method can only aggravate the disease it is sought to cure and so lead to an increase of such cases.

The aim of the Society, therefore, is not to destroy parental responsibility, but to encourage and enforce it; not to break up a family, but to reform it; not to create paupers, but to promote self-support.

HOMELESS BABIES AND EMPTY HEARTS

One of the saddest things in the world is to hear of a helpless baby that is ill-treated, neglected, abandoned and even murdered. There is really no need for this for if there is an unwanted baby, there is also some empty heart waiting and longing for a baby to love. It has been demonstrated hundreds of times that if a homeless infant is given half a chance it will soon make an assured place for itself in the affections of some good woman. The trouble is our homeless babies are not heard of until something happens.

A six months' old infant was found deserted one night and a woman in the suburbs was asked to board it for a fortnight and this she reluctantly consented to do. When in the course of a month other arrangements were made for it, the woman let it get as far as the door and then completely broke down and begged to adopt it as her own. The result is that it is now permanently and satisfactorily provided for—this is a common experience where infants are placed in the care of sympathetic women.

The number of babies legally adopted is given later, and in addition there are nearly two hundred infants in homes on approbation.

PLACING DIFFICULT BABIES

It is hard enough to get good foster homes for children of Anglo-Saxon race but when it comes to mixed nationality, especially where there is half Chinese or half negro blood, the difficulties become infinitely greater. However, in an almost miraculous way suitable homes have been found for even these

apparently hopeless babies. A mulatto child, for instance, was gladly adopted by a coloured railway porter and his wife, while a Chinese baby was placed in the home of a wealthy Chinaman through the kind assistance of a mission worker. Two months ago an application for a child was received from a well to do Indian family and the next day a letter came from the north describing a baby that fitted in exactly. A red-headed baby was reported as difficult to place and the next day a fine red-headed man came along looking for just such a baby. One might go on indefinitely describing these interesting coincidences.

INFANT LIFE PROTECTED

Marvellous changes in social welfare have taken place during the past thirty years. Take for instance, babies born out of wedlock. Not so long ago they were given away to disreputable people for a lump sum payment, a horrible flesh and blood traffic. The Infants' Home had a capacity for sixty or seventy infants, but with the big demand it was always full, and as there was good reason why a child could not be admitted the girl-mothers, homeless themselves, were driven to despair. Baby-farms of the vilest description flourished without hindrance. More than half the infants born to unmarried mothers died within the first three or four months from neglect or starvation, or were doped out of existence. To-day, with a modern well-enforced statute for the better protection of children of unmarried parents, and the boarding-out system of caring for homeless babies, the mortality rate is exceedingly low. There is no doubt whatever that in the past ten years fully one thousand young lives have been saved to grow up to worthy citizenship, some of them indeed to careers of great public usefulness. This alone is worth all the effort and expense that has been put forth in their behalf.

SOCIAL AGENCIES WORKING TOGETHER

That the world is becoming a smaller place all the time is evidenced by the fact that we have a share in the investigation of social problems originating in distant parts of the world. For instance, recently we dealt with the following case: A London, England, Society reported a wife and children living in a small village in the South of Ireland who are not receiving any support from the father. He left Ireland for Canada and is now living in an unorganized district over five hundred miles from Toronto. The Society asked assistance in securing support. One of our Children's Aid officials interviewed the man and arranged with him to send a payment each month to the old country until such time as he can bring his family out to Canada. Similar requests came to us from widely scattered points in Europe and the United States, while we in turn solicit similar aid in locating absconders.

MUNICIPAL SUPPORT

In its early years the Society was looked upon in a tolerant way and only a few people felt that they had any responsibility; whereas, to-day the Society is recognized as a leading factor in the social life of the Province. County councils now fully appreciate the value of the Society and liberally provide for its work.

There is no longer difficulty in securing the financial support necessary. Within the past year, two additional counties have provided Shelters and maintain them to the satisfaction of the Department. All accounts are passed upon by the Society and paid by the county treasurer. This is following the custom adopted by several other counties throughout the Province.

COVERING THE VAST SPACES

One of our Children's Aid branches in an unorganized district has a field of operations larger than six counties in Southern Ontario. The annual report gives an idea of the splendid work that is being done on behalf of children in far off places. From the headquarters of the Local Branch, where a Shelter has been erected, to the western limit, the Inspector has to travel 200 miles. During the year 716 children were involved and every case investigated, thirty-two being made wards and others benefited by adjustment of the homes. Fifty-five court cases were dealt with, the majority of them being in the extreme limit of the district. Territory travelled in the interest of children, 13,264 miles—and this is only one of our sixty organizations!

CAMPING OUT IN WINTER

There are many cases of destitution in the north country, and although investigation involves a good deal of hardship the Children's Aid officers are always willing to start out on their journeys of mercy. One officer reported a trip of twenty-two miles in severe weather over rough roads to reach a family who were reported to be in a condition of starvation.

Two prospectors on their way to their camp in the Temiskaming District heard sounds like children crying and when they advanced they came across a tent in which there was an Indian family consisting of man and woman and four children. Although the weather was nearly thirty below zero the children had poor clothing and one of them had frozen fingers. They were camped on the bare ground with only the canvas between them and zero weather. The Children's Aid officer at Haileybury was notified and he immediately took charge of the children and they are now in comfortable quarters. The man and woman will engage in trapping during the winter and in the meantime they were assured that the little family would be well looked after.

WHY A CHILDLESS HOME?

Many people state that they would be willing to adopt a child but are afraid that he, or she, would not turn out well. Another reason given is their ignorance of past history of child. Why should any person be afraid to take into his home one of these children? Could they but read the records of the Society there would be no hesitation on their part to adopt a child, for past reports prove that many children taken from the lower strata of life, when placed in good environment, develop mentally and physically and become good citizens. The following, taken from the reports of local superintendents, should convince any person that the normal child is a worthwhile investment likely

to repay 100 per cent. if only given affection, wise training and a chance to make good.

"Fine, bright, studious girl, seventeen years of age. Mrs. _____ states that this girl has never given her any worry, and that she can be trusted under all circumstances."

"Girl has a good home, getting a good education and plays the organ in church. Foster parents plan to make her a nurse."

"Boy, sixteen years old, faithful and industrious with no bad habits, is anxious to improve his lot, makes his own arrangements with his employer."

"A girl graduated from High School, now attending Normal and going to make teaching her life's work."

"A boy who has been given every opportunity for education and learning in his foster home, now holds a responsible position in a large banking concern."

"Another girl, graduated from High School, is now preparing to enter a hospital to train for a nurse. She was given a splendid musical training and passed her examinations with honours."

QUOTATIONS FROM SOCIETY REPORTS

"Your superintendent has completed twenty years of continuous service for this Society. While there have been a good many unpleasant duties to perform, yet when one sees many of these boys and girls now grown up to manhood and womanhood, happily situated in homes of their own and the younger ones loved and cared for by worthy foster parents, there is ample compensation for any drawbacks encountered."

"Could you think of a greater work of mercy—a more worthwhile contribution to humanity than that of aiding and giving unfortunate children a chance to live and bring into their cheerless lives a little happiness and sympathetic care? We do not believe you could. Animated by the example of the Master who laid such great stress on the value of child life, we have endeavoured to smooth out some of the rough places in the young lives which come under our influence. While there are many visible proofs of good results achieved, yet time alone will reveal the processes that have been set in motion for the practical uplift of many of these under privileged little ones in our midst."

"Efforts are always directed towards retaining for children natural affection, relationship and life interests of their own homes and in this respect one whole family of seven children and their mother were taken into the Shelter for a time and then re-established in another home. Also, we have taken into the Shelter and cared for other children during the time of illness of parents."

"Through ignorance, selfishness and crime, parents have failed in what should have been the cheerfully fulfilled duties of parenthood, and these have been warned, advised and in some instances prosecuted in order to bring about better living conditions for the children."

"There is no finer work to be engaged in, or a more worthwhile contribution to humanity, than that of saving the delinquent or wayward child, or protecting and helping the neglected ones and bringing them out of the shadows of misery to the bright rays of the sunshine of happiness. Can anyone wish for more?"

"The work of the Society has grown to such an extent that each year the task of conveying even a minimum of its magnitude is becoming more difficult. The fact that different types of complaints coming to our notice involving over 2,515 children were handled, has meaning only to those who are thoroughly conversant with the details incidental to our task."

"To adjust the child and home without removing the children and so insure the child, or children, the home care, love and protection, to which they are entitled, is our aim. We have endeavoured to keep the family together, placing the responsibility of the children's welfare upon the parents. Every child needs the influence of his parents. Many fathers and mothers come to us seemingly discouraged through home quarrels, lack of employment, sickness and other causes. Much time is spent with cases such as these, but that time is short in comparison with the long care which would be necessary had we taken the children from their parents."

"It would be well to emphasize that the chief aim of the Children's Aid Society is to endeavour to keep families together, and as far as possible to prevent their disruption by making neglected children wards of the Society or committing delinquent children to reform schools. This effort has a far-reaching effect for one had to guard against the possible danger of relieving the parents or relatives of their responsibilities. Our first duty is to maintain the home, removing whatever difficulties may exist so the parents and children may grow up happily together, each a comfort to the other. This work is of great value to us all."

"I should like to again mention that children are not made wards until every other means of reformation has been tried. If there is an adequate improvement in the home and its surroundings the child is restored again to the parents on certain conditions. Its own home is the proper place for the child, and thus the Children's Aid Society is the greatest improver we have in any community."

"Through the kindness of Mr. and Mrs. H. E. Wadsworth, the Chetolah Fresh Air Camp for boys and girls of the Muskoka District chiefly was run during July and August and forty boys enjoyed the camp during July and forty girls in August. On arrival the children were outfitted with: bathing suits, shoes, sweaters, suits of clothes, towels, handkerchiefs, brushes and combs, looking glass, tooth brushes, soap, stockings, caps and suitcases. Each child was allowed when leaving to take his share of these gifts with him. The camp was a huge success, only one out of eighty children was sent home, and there were no cases of sickness nor accident."

"One girl abandoned by father and step-mother was found in the home of a friend who had taken pity on her. She was destitute of every comfort and sadly neglected. We took charge of her, brought her to our Shelter and soon placed her in an approved foster home where she is perfectly happy. Some years ago we removed an older sister from the same environment and she is now a young woman filling a responsible position with credit. We are hoping that the younger sister will do as well."

"Four children living in a hovel with their father, who was not fit to care for them, were found devoid of every comfort and in a most filthy condition, so

much so that our Matron said that in all her years of experience she had not met such a case of filth and neglect. These children are all happy and progressing.”

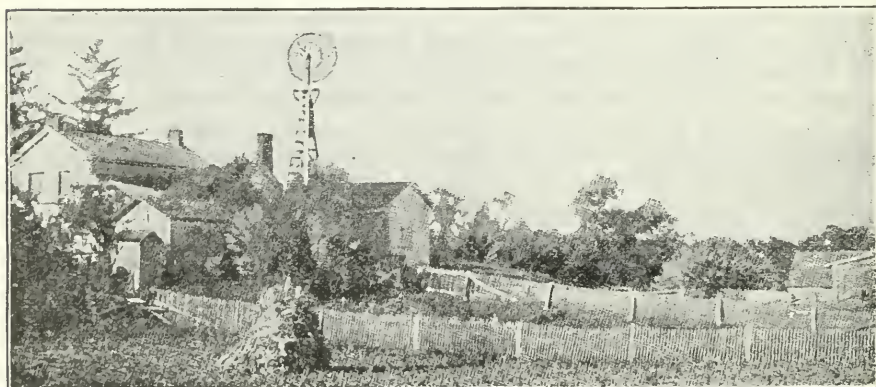
“A family residing in the country, father not supporting his children and mother and children existing on what they could gather of fruit and assistance of a generous neighbourhood, were warned with the result that shortly afterwards they moved to New Ontario, where they are in more comfortable circumstances than when located by us.”

GREATNESS OF THE WORK

There is no greater work in Ontario than that carried on by the Children's Aid Societies and for the fine place this organization has in public estimation the many friends interested deserve credit, but let us not forget that if any measure of success has been attained it is necessary to be eternally vigilant to maintain a high standard of service and merit the continued good opinion of the community.

It is important to keep abreast of the times and to cultivate the enthusiastic interest of benevolent citizens. Our local superintendents seek to originate new ideas, get new friends to take hold, do intensive educational work through the clergy, the schools, the press—and generally let the whole community know that they are the living exponents and exemplification of the Child Welfare movement.

It is a tremendous responsibility that rests upon the Children's Aid organization—for the making or the breaking of a home is largely left to its decision; often the entire destiny of a child for time and eternity depends on the judgment of the Superintendent in consultation with his Board. In what field of human endeavour is sanctified common sense more urgently needed?



Industrial Schools

THE number of pupils under supervision in the four schools during the year 1930 is as follows:

Alexandra School for Girls (Protestant).....	144
Victoria School for Boys (Protestant).....	245
St. Mary's School for Girls (Roman Catholic).....	68
St. John's School for Boys (Roman Catholic).....	171
Total.....	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 628

A summary of pupils in these Schools from 1927 to 1930 is as follows:

1927.....	562
1928.....	572
1929.....	597
1930.....	628



Children's Aid Societies

LIST OF OFFICERS FOR 1931

ALGOMA AND SAULT STE. MARIE

President, H. P. Broughton; secretary, J. P. Reed; treasurer, W. G. Hyland; inspector, J. P. Reed.

BRANT AND BRANTFORD

President, D. T. Williamson; secretary, Miss S. Brown; treasurer, C. Cook; inspector, J. L. Axford.

BRUCE

President, G. H. Martyn; secretary, Rev. R. Perdue; treasurer, Miss D. Benton; inspector, Rev. R. Perdue.

CARLETON AND OTTAWA

President, W. Lyle Reid; secretary, A. G. Munroe; treasurer, Crawford Gordon; inspector, A. G. Munroe.

COCHRANE AND TIMMINS

President, G. A. Macdonald; secretary, A. G. Carson; treasurer, A. G. Carson; inspector, A. G. Carson.

DUFFERIN AND ORANGEVILLE

President, Mrs. A. N. Brown; secretary, W. O'C. Ahern; treasurer, W. O'C. Ahern; inspector, H. F. Tuck.

ELGIN AND ST. THOMAS

President, Rev. J. W. J. Andrew; secretary, Mrs. E. H. Caughell; treasurer, C. H. Smith; inspector, Mrs. E. H. Caughell.

ESSEX COUNTY

President, J. G. Hennin; secretary, R. R. Brett; treasurer, L. E. Barber; inspector, W. J. Sample.

FORT WILLIAM

President, Mrs. C. C. McCullough; secretary, F. Blain; treasurer, F. Blain; inspector, F. Blain.

FRONTENAC AND KINGSTON

President, M. G. Johnston; secretary, F. P. Smith; treasurer, Hon. T. A. Kidd; inspector, Rev. Wm. Black.

GREY AND OWEN SOUND

President, J. E. Doyle; secretary, A. E. Trout; treasurer, J. G. Carrie; inspector, A. E. Trout

HALIDMAND

President, Jas. N. Allan; secretary, C. R. Bilger; treasurer, Geo. P. Brown; secretary, C. R. Bilger.

HALIBURTON

President, Dr. C. Frain; secretary, A. G. Schofield; treasurer, W. McArthur; inspector, A. G. Schofield.

HAMILTON

President, D. A. Souter; secretary, Mrs. Ward; treasurer, U. F. Brown; inspector, B. W. Heise.

HASTINGS AND BELLEVILLE

President, Chas. Hanna; secretary, T. D. Ruston; treasurer, H. Frost; inspector, T. D. Ruston.

HURON

President, Rev. J. E. Ford; secretary, A. M. Robertson; treasurer, A. M. Robertson; inspector, H. T. Edwards.

KENORA

President, Mrs. J. W. Humble; secretary, Mrs. H. P. Cooke; treasurer, Mrs. J. T. Brett; inspector, Archdeacon Lofthouse.

KENT AND CHATHAM

President, J. F. Fletcher; secretary, F. Appleyard; treasurer, Mildred Wright; inspector, F. Appleyard.

LAMBTON AND SARNIA

President, C. H. Belton; secretary, J. Wilkinson; treasurer, John E. Leckie; inspector, J. Wilkinson.

LANARK

President, J. S. L. McNeely; secretary, J. H. Devlin; treasurer, R. M. Anderson; inspector, J. H. Devlin.

LEEDS AND GRENVILLE

President, Dr. W. H. Woodrow; secretary, J. T. Fitzpatrick; treasurer, H. S. Dupuy; inspector, G. A. Wright.

LENNOX AND ADDINGTON

President, Alpine Woods; secretary, Mrs. F. L. Hooper; treasurer, Miss Helen Grange; inspector, W. F. Barrett.

LINCOLN AND ST. CATHARINES

President, D. C. Hetherington; secretary, Mrs. L. Moyer; treasurer, C. H. Claus; inspector, C. H. Claus

MIDDLESEX AND LONDON

President, W. R. Jarmain; secretary, Miss H. Helen Tufts; treasurer, J. Egan Magee; inspector, W. E. Kelly; assistant inspector, F. Cristall.

MANITOULIN

President, Rev. W. H. Bradford; secretary, Miss G. Batman; treasurer, A. J. Wagg; inspectors, Miss G. Batman and Hiram Pearson.

MUSKOKA

President, Rev. Walter Smith; secretary, Mrs. W. J. Moore; treasurer, Mrs. W. J. Moore; inspector, W. D. Forrest.

NIPISSING AND NORTH BAY

President, G. Deegan; secretary, H. McGee; treasurer, E. C. Rheaume; inspector, J. Brown.

NORFOLK

President, H. S. MacPherson; secretary, M. L. House; treasurer, Francis Reid; inspector, H. A. Carter.

NORTHUMBERLAND AND DURHAM

President, Harold Fulford; secretary, Dr. J. T. Daley; treasurer, W. L. Badley; inspector, Dr. J. T. Daley.

ONTARIO AND OSHAWA

President, H. P. Schell; secretary, Mrs. T. H. Everson; treasurer, E. C. Hodgins; inspector, O. M. Alger.

OXFORD AND WOODSTOCK

President, A. J. McKinney; secretary, L. C. Ecker; treasurer, L. C. Ecker; inspector, L. C. Ecker.

PARRY SOUND EAST

President, A. A. Agar; secretary, E. A. Warner; treasurer, Fred Metcalfe; inspector, J. Hartill.

PARRY SOUND WEST

President, J. H. Tully; secretary, Mrs. E. Shea; treasurer, F. N. Hurst; inspector, J. Ryder.

PEEL AND BRAMPTON

President, T. W. Duggan; secretary, Mrs. Vanderlip; treasurer, Mrs. F. Vanderlip; inspector, G. F. Thompson.

HALTON AND MILTON

President, J. M. Denyes; secretary, Mrs. T. J. Brown; treasurer, S. Wilson; inspector, G. F. Thompson.

PERTH AND STRATFORD

President, T. Magwood; secretary, Mrs. T. McLagan; treasurer, A. J. Sloane; inspector, Hugh Ferguson.

PETERBOROUGH

President, Rev. J. H. Sutcliffe; secretary, John Edgar; treasurer, C. S. Cummer; inspector, John Edgar.

PORT ARTHUR

President, Dr. C. N. Laurie; secretary, R. M. Young; treasurer, R. M. Young; inspector, G. Gibbon.

PRESCOTT AND RUSSELL

President, D. Harbic; secretary, E. Paquette; treasurer, E. Paquette; inspector, E. A. Johnson.

PRINCE EDWARD

President, F. Newman; secretary, Rev. S. M. Scott; treasurer, C. A. Wright; inspector, R. W. Hubbs.

RAINY RIVER

President, F. H. Huffman; secretary, A. MacKenzie; treasurer, W. T. Russell; inspector, A. MacKenzie.

RENFREW

President, Rev. Canon W. M. H. Quartermaine; secretary, Miss Sibary; treasurer, E. J. Stewart; inspector, W. M. H. Quartermaine.

SIMCOE AND BARRIE

President, F. Hammond; secretary, W. J. Justice; treasurer, A. G. MacLellan; inspector, W. J. Justice.

STORMONT, DUNDAS AND GLENGARRY

President, F. D. McLennan; secretary, A. K. MacMillan; treasurer, J. E. Tallon; inspector, T. W. Ault.

SUDBURY

President, W. Matheson; secretary, H. P. McKeown; treasurer, A. Fournier; inspector, J. S. Davidson.

TEMISKAMING

President, G. T. Hamilton; secretary, J. R. McCracken; treasurer, N. J. McAulay; inspector, J. R. McCracken.

VICTORIA AND LINDSAY

President, Col. I. Moore; secretary, A. Clark; treasurer, T. J. Tilley; inspector, A. Clark.

WATERLOO COUNTY (HESPELER)

President, D. N. Panabaker; secretary, W. F. Hall; treasurer, W. F. Hall; inspector, A. P. Pullam.

WATERLOO (GALT)

President, Rev. W. F. Bremner; secretary, Mrs. J. E. Keyes; treasurer, Mrs. J. E. Keyes; inspector, A. P. Pullam.

WATERLOO (KITCHENER)

President, H. D. Huber; secretary, Miss E. H. Reist; treasurer, A. B. Musselman; inspector, A. P. Pullam.

WELLAND CITY

President, E. Cardwell; secretary, Mrs. M. Asher-Wilson; treasurer, G. K. Brown; inspector, G. M. Pool.

WELLAND COUNTY

President, Mrs. R. Taylor; secretary, Mrs. W. Palmer; treasurer, A. B. Damude; inspector, R. Teakle.

WELLAND (NIAGARA FALLS)

President, Dr. Lloyd Jones; secretary, Mrs. Coatts; treasurer, J. W. Marshall; inspector, W. E. Jones.

WELLINGTON AND GUELPH

President, Dr. Norman C. Wallace; secretary, Wm. Laidlaw; treasurer, W. H. Beattie; inspector, Rev. A. Tovell.

WENTWORTH

President, John S. Fry; secretary, W. F. Moore; treasurer, J. M. Campbell; inspector, James Clark.

WINDSOR AND WALKERVILLE

President, W. Woollatt; secretary, E. T. Howe; treasurer, E. T. Howe; inspector, M. R. Winters.

YORK

President, Hon. G. S. Henry; secretary, R. W. Phillips; treasurer, W. D. Annis; inspector, G. B. Little.

TORONTO C.A.S.

President, A. R. Auld; secretary, J. Appleton; treasurer, A. M. Campbell; inspector, R. E. Mills.

TORONTO, ST. VINCENT DE PAUL

President, J. F. Boland; secretary, Gerard Mallon; treasurer, F. T. Walsh; inspector, M. P. Everett.

CHILDREN'S AID FINANCIAL RETURNS

Place	Receipts		Expenditures		Surplus		Deficit	
	\$	c.	\$	c.	\$	c.	\$	c.
Algoma and Sault Ste. Marie	13,353	31	13,254	38	98	93		
Brant and Brantford	7,368	84	7,554	83			185	99
Bruce	5,718	58	5,098	63	619	95		
Carleton and Ottawa	8,413	82	9,304	47			890	65
Cochrane and Timmins	13,040	05	12,807	96	232	09		
Dufferin and Orangeville	6,385	29	6,028	28	357	01		
Elgin and St. Thomas	8,698	49	7,495	49	1,203	00		
Essex and Windsor	24,574	97	25,537	47			962	50
Fort William	10,554	63	10,733	58			188	95
Frontenac and Kingston	2,532	96	3,303	89			770	93
Grey and Owen Sound	4,698	01	6,089	72			1,391	71
Haldimand	6,644	91	6,662	97			18	06
Haliburton	810	21	810	21				
Hamilton	34,035	51	34,979	90			944	39
Hastings and Belleville	11,111	36	10,939	98	171	38		
Huron	4,792	06	4,792	06				
Kenora	2,559	40	2,146	82	412	58		
Kent and Chatham	10,761	22	10,862	66			101	44
Lambton and Sarnia	4,670	63	4,408	81	261	82		
Lanark	1,937	47	1,937	47				
Leeds and Grenville	2,620	15	2,510	22	109	93		
Lennox and Addington	2,771	00	1,284	05	1,486	95		
Lincoln and St. Catharines	7,180	56	7,180	56				
Manitoulin Island	374	87	32	13	342	74		
Middlesex and London	26,127	25	27,467	88			1,340	63
Muskoka District	2,383	22	173	57	2,209	65		
Nipissing and North Bay	11,538	31	11,621	91			83	60
Norfolk	9,646	69	8,805	27	841	42		
Northumberland and Durham	6,811	09	6,680	43	130	66		
Ontario and Oshawa	11,276	10	12,776	10			1,500	00
Oxford and Woodstock	6,361	82	6,361	82				
Parry Sound East	4,243	43	4,242	61		82		
Parry Sound West	3,063	16	3,061	04		2	12	
Peel and Halton	8,293	63	8,087	18	206	45		
Perth and Stratford	5,364	52	5,091	19	273	33		
Peterborough	6,640	16	6,246	78	393	38		
Port Arthur	5,005	45	4,797	25	208	20		
Prescott and Russell								
Prince Edward	3,197	40	3,076	23	121	17		
Rainy River District	1,950	57	1,870	08	80	49		
Renfrew	5,800	75	5,118	58	682	17		
Simcoe and Barrie	13,012	40	13,012	40				
Stormont, Dundas and Glengarry	1,134	05	995	30	138	75		
Sudbury	17,656	70	16,767	92	888	78		
Temiskaming	6,020	60	5,895	14	125	46		
Victoria and Lindsay	7,097	46	6,883	83	213	63		
Waterloo (County)	10,285	08	9,969	36	315	72		
Welland (City)	3,116	77	3,149	29			32	52
Welland (County)	9,793	71	9,793	71				
Welland (Niagara Falls)	4,692	81	4,482	68	210	13		
Wellington and Guelph	7,229	86	7,503	23			273	37
Wentworth	653	79	334	95	318	84		
York	13,298	82	12,778	97	519	85		
Toronto C.A.S.	199,903	01	233,428	26			33,525	25
St. Vincent de Paul, Toronto	44,022	48	40,942	39	3,080	09		
Total	651,219	39	677,171	89	16,257	49	42,209	99



Legal Adoption Act

THIS Act continues to give a great deal of satisfaction to all interested in Child Welfare, and especially to those who have reaped its full benefits by grafting a motherless child on the family tree. Prior to 1921 there was no legal adoption law in Ontario, the arrangement at that time being by simple contract or agreement. This worked well in many cases and did not prevent children receiving a full measure of affection, but it was unsatisfactory in that it gave no guarantee of undisturbed possession and when foster parents died intestate the child whom they may have tenderly loved could not have any share in the division of their estate—only on compassionate grounds or for services rendered could they be given financial consideration. All that has now been changed by this beneficent Act and the fact that in nine years of its operation nearly six thousand adoption Orders have been completed indicates that the public are alive to the advantages it offers. Another remarkable fact is that in not one instance has a legal adoption order been upset on appeal to the high court. Probably the chief reason for this is the care taken to see that all parties concerned are fully aware of the seriousness of their action. Every application is carefully scrutinized by the Provincial Officer and his assistant and if any reasonable doubt exists final action is delayed until this is cleared up. Our Ontario Act provides that the Provincial Officer must give his certificate of approval in every instance before the application is submitted to the Judge for ratification. The value of this provision is obvious. It provides for uniformity, saves valuable time to the Judge, prevents the careless and hasty action that would follow if anyone could apply direct to the courts, and it offers the safety and permanence of an official whose business is to follow up every detail and be always on the alert to secure the best possible results. Once again we must bear tribute to the depth of affection that springs up in the hearts of foster parents for children bereft of other earthly ties. Often we have thanked God for the marvellous winning power He has given to little children and the unselfish devotion he has implanted in the hearts of men and

women—if it were not for this the world would indeed be a cold and dreary place.

It is a great pleasure therefore to report that during the past year there were 706 cases of legal adoption, each one investigated, certified and approved to the Judge for final sanction and ratification. Of this number it is interesting to note that 205 were infants under three years of age; 181 were from three to four years; 132 were from five to seven years, and 188 were over the latter age. In addition to the eleven children adopted by the mother and husband there were 150 children adopted by relatives.

ADOPTIONS YEAR BY YEAR

Since the Adoption Act was passed the following number of children have been legally adopted:

Year ending October 31st, 1921.....	20
“ “ “ “ 1922.....	400
“ “ “ “ 1923.....	1,002
“ “ “ “ 1924.....	600
“ “ “ “ 1925.....	648
“ “ “ “ 1926.....	660
“ “ “ “ 1927.....	639
“ “ “ “ 1928.....	663
“ “ “ “ 1929.....	639
“ “ “ “ 1930.....	706
	5,977

GENERAL INFORMATION

The following table gives some general information respecting the children for whom Orders of Adoption were signed during the year dating from November 1st, 1929, to October 31st, 1930:

Children's Aid Wards	Soldiers' Aid Commission Wards	Wards of Other Organizations	Children of Unmarried Parents	Abandoned Children—Foundlings	Orphaned Children	One Parent living	Both Parents living	Husband Adopts Wife's Child	Parents Divorced	Children adopted a Second Time	Over 21 Years of Age	
207	1	7	328	0	10	78	50	11	4	2	8	706

Tenth Annual Report of Work Under The Children of Unmarried Parents' Act

THE work under *The Children of Unmarried Parents Act* continues with unceasing activity. The following is the report of the Provincial Officer for the year ending 31st October, 1930:

During the year 2,180 children born out of wedlock were reported, or an increase of 294 over the previous year. Of this number 998 were from Toronto District, in which the Provincial Officer carries on the investigations. Elsewhere in Ontario the local officers appointed under the Act investigate the cases and make reports to the central office, which in turn instructs further procedure. Schedule "A" shows the number of cases reported annually since the passing of the Act in 1921, as well as the disposition of the cases for the fiscal year.

SETTLEMENTS

The cases settled by Agreements and Affiliation Orders totalled 401, and eighty-seven private settlements were made in addition. The weekly maintenance in thirty-six of such private settlements varied from \$2 to \$5.25, and the lump sums paid, from \$16 to \$1,000. Two other settlements were for \$10 and \$15 per week respectively, but this high rate of maintenance was only paid for a short time until marriage took place. Of the remaining forty-nine, no information could be obtained as to the amount paid by the putative father. There are many reasons for these private settlements, the most frequent being that the marriage of the persons concerned is pending or that they are relatives or friends and prefer to settle the matter between themselves. Upon being assured as to the welfare of the child, the Provincial Officer does not usually interfere, but secures whatever information is possible from the social organization interested or the local officer of the county or district.

(a) AGREEMENTS

Of the settlements by Agreements, 324 were with the Provincial Officer, 210 of which were for expenses and weekly maintenance varying from \$1 to \$6 for sixteen years; 101 for lump sum settlements of from \$100 to \$1,200 and thirteen for expenses only of from \$50 to \$115.85. Ninety Agreements in addition were entered into with the Provincial Officer on cases reported in other years, making in all a total of 414. Payments in cash at the time such Agreements were entered into approximated \$29,453.80. The Provincial Officer prefers this type of settlement, as it safeguards the child's interests and makes possible the setting in motion of the simple and effective machinery provided by the Act where, without good reason, payments are not promptly made.

This year only nine private Agreements, approved by the Judge, were recorded with the Provincial Officer. Such Agreements are provided for by the Act and usually made between the mother and the putative father. In the interests of the child, payments are required to be made to the Provincial Officer but where there is default, the mother must, at her own expense, take civil action to collect. Any private Agreement entered into without the Judge's approval may be voided by the Provincial Officer. The amount paid in cash at the time these private Agreements were received amounted to approximately \$1,950.

(b) AFFILIATION ORDERS

The total number of court hearings on applications for Affiliation Orders totalled 479, disposed of as follows:—153 adjourned for further evidence; 142 adjourned for service (owing to inability to locate the putative father); one adjourned until after birth of child; nine withdrawn (couple decided to get married or for other reasons no action desired); four cases settled by Agreements with the Provincial Officer; forty-four dismissed for lack of corroborative evidence; sixty-eight Affiliation Orders on cases reported in the current year, and fifty-eight Affiliation Orders on cases reported in other years. Of these 126 Orders, eighty-four direct payment of expenses and maintenance of from seventy-five cents to \$6 weekly; seventeen are for lump sum settlements ranging from \$100 to \$800 and seventeen for expenses only of from \$10 to \$116, where the child is dead or in a free home. In addition, eight Orders were made by common consent, four being for payment of expenses and maintenance of from \$2 to \$4 weekly, and four for lump settlements of from \$300 to \$800. Payments in cash at the time such Orders were made amounted to approximately \$3,926.38.

The Crown Attorneys, and occasionally local solicitors, act for the Provincial Officer without expense to the mother of the child. Where solicitors are retained by the mother at her own expense, the Provincial Officer is represented at the hearing to protect the child's interests.

APPEALS

Five applications for leave to appeal were made to the Appellate Division during the year, one of which was granted, two dismissed, one referred to the trial Judge for a reopening of the case (as a result of which the Order was confirmed) and one is pending at the present time.

In addition, two appeals were heard, both of which were dismissed. These applications and appeals were on Orders applied for by the mother at her own expense, and while the Provincial Officer is notified of all such proceedings, he is usually only represented where an important legal point is involved. A representative of the Provincial Officer attended on one application for leave and on one appeal.

COLLECTIONS

During the past year the receipts under Agreements and Orders amounted to \$123,605.95, with disbursements of \$119,588.57. Due to the unemployment

situation, considerable difficulty has been experienced in making collections, which in a number of instances have had to stand in abeyance until spring, when it is hoped conditions will improve. In accordance with the provisions of the Act, all moneys under Agreements and Orders are payable to the Provincial Officer at Toronto, lump sum settlements being passed on to the Public Trustee, in whose hands the money is either left for investment or may be requisitioned from time to time by the Provincial Officer for the child's needs. Cheques go out monthly to the mother, or other person having the care of the child. We have three collectors constantly at work on Toronto cases, while our Local Officers, where direct correspondence is not effective, assist us in other parts of the Province. Many of the men from whom we collect are unskilled labourers without steady employment, and others are of the nomad type having no settled place of abode.

Schedule "C" gives a comparative statement of receipts and disbursements since the Act came into force as well as a statement of the year's finances.

VARIED AGREEMENTS AND ORDERS

Including cases reported in other years, eighteen Agreements with the Provincial Officer and thirty-two Orders were varied, the Agreements to lump sum settlements of from \$100 to \$550, and the Orders as follows:—one reduced the rate of maintenance to the minimum; five to weekly payments of from \$1.25 to \$3; and twenty-six to lump sum settlements of from \$68.40 (expenses only) to \$1,000. The application for variation of an Agreement is made to the Provincial Officer and for variation of an Order, to the Judge. Where either is being changed to a lump sum settlement, the consent of the mother or guardian of the child is first obtained. Lump sum settlements under varied Agreements and Orders are usually paid in cash or substantially in cash. The cash receipts under varied Agreements totalled approximately \$3,412.70 and under varied Orders, \$7,386.50.

COURT ACTION TO ENFORCE AGREEMENTS AND ORDERS

Forty-five Affiliation Orders were issued by the Judges in cases where there was default under Agreements with the Provincial Officer, forty-two of which cover expenses and weekly maintenance of from \$1.25 to \$5, and three are for lump sum settlements of \$219, \$300 and \$400, respectively. As a result of this court procedure, \$1,132 was paid in cash. Nineteen additional applications for Orders were made to the Judge and adjourned *sine die*. Such applications are made within the time limit prescribed by the Act (one year from date of default) to keep our Agreements in force in the event of the men being located.

One hundred and fifty-four summons were issued by the various Judges in the Province to enforce Court Orders, as a result of which thirty-five Warrants and seventeen Orders of Commitment to gaol were issued. Five of the Warrants and six of the Orders of Commitment were later withdrawn as a result of satisfactory arrangements for payment being made. The amount paid in cash following such court action amounted to \$3,765.80.

STATISTICS

Schedule "B" to this report gives some facts relative to the ages, nationality, occupation, etc., of the mothers and putative fathers. It is regrettable that the information we are able to obtain is so often incomplete.

CARE OF INFANTS

During the year 1,305 children were reported with the mother, 299 in boarding homes and forty-six in foster homes. Fifty-two children were legally adopted and eighty made wards of the various Children's Aid Societies. One hundred and nine children died and twenty were stillborn. We were unable to secure data with reference to sixty-four of the children, and 207 cases are pending. In addition, 244 children were legally adopted in connection with cases reported in other years making a total of 296 legal adoptions for the year. Seventy-seven children were also made wards in connection with cases reported in other years, making a total of 157 children committed.

In the larger cities the public health nurses supervise the children placed in boarding homes and elsewhere in the Province our Local Officers carry on this important work. Every effort is made by the Provincial Officer to see that foster homes are found for these children where the mothers have no definite plans in view for them. Three children were reported as having been deserted by the mothers and were later made wards.

REPEATERS

Two hundred and forty-eight of the mothers come under the above heading, having two or more children born out of wedlock. This type always constitutes a special problem as where the children are by different fathers the mothers are frequently mental defectives, requiring special supervision. The fathers also frequently come under this heading, a case in point being that of two brothers, one of whom had three children and the other four children, each child being by a different woman.

ACKNOWLEDGMENTS

As in other years, we desire to gratefully acknowledge the services performed by the social organizations of Toronto and the larger cities of the Province, particularly the Children's Aid Societies, the Infants' Homes, the various hospitals, maternity homes and public health nurses, who arrange for the care of the mother at a critical period and later supervise both mother and child.

Our Local Officers have once again rendered efficient and self-sacrificing service, travelling long distances in all kinds of weather to meet the many requirements of the Act.

Our gratitude is due as well to the judiciary of the Province for the careful attention given our court cases, and to the legal and medical profession, the newspapers and the police force, who are always ready and willing to co-operate. We cannot over-estimate the untiring work done by the social organizations of Montreal, Quebec and the border cities of the United States, as well as the

Provincial Governments of Western Canada in locating and interviewing the men who have left Ontario to escape their obligations. This work is carried on free of charge, and our only regret is that we are so seldom able to reciprocate.

SCHEDULE "A"

TOTAL NUMBER OF CASES

Comparative report showing number of cases dealt with from July, 1921, to October 31st, 1930.

<i>1921</i>	July 1st, 1921, to October 31st, 1921.	102 cases were dealt with
<i>1921-1922</i>	October 31st, 1921, to October 31st, 1922.	672 " " " "
<i>1922-1923</i>	October 31st, 1922, to October 31st, 1923.	1,162 " " " "
<i>1923-1924</i>	October 31st, 1923, to October 31st, 1924.	1,205 " " " "
<i>1924-1925</i>	October 31st, 1924, to October 31st, 1925.	1,347 " " " "
<i>1925-1926</i>	October 31st, 1925, to October 31st, 1926.	1,705 " " " "
<i>1926-1927</i>	October 31st, 1926, to October 31st, 1927.	1,724 " " " "
<i>1927-1928</i>	October 31st, 1927, to October 31st, 1928.	1,865 " " " "
<i>1928-1929</i>	October 31st, 1928, to October 31st, 1929.	1,886 " " " "
<i>1929-1930</i>	October 31st, 1929, to October 31st, 1930.	2,180 " " " "
	Total Number.	13,848

N.B.—The above statement indicates an increase in the number of cases brought to our attention each year, rather than any increase in immorality.

NEW CASES FOR THE YEAR

Statement showing number of cases dealt with during last fiscal year.

From October 31st, 1929, to October 31st, 1930.	2,180 cases were dealt with
Of these.	422 are pending
" "	488 have been settled
" "	1,270 have been closed.
Of the cases settled.	325 were by agreements with the Provincial Officer.
" " "	67 by court orders.
" " "	9 by private settlements approved by the Judge.
" " "	87 by private settlements without agreements.
Of the cases closed.	450 no action was desired.
" " "	16 were dismissed by the court for lack of sufficient corroborative evidence.
" " "	239 were closed for lack of sufficient corroboration for court action.
" " "	64 there was no data.
" " "	89 couples were married.
" " "	98 man unknown.
" " "	228 man's whereabouts unknown.
" " "	35 man outside Province (address unknown).
" " "	16 man worthless.
" " "	12 man dead.
" " "	23 criminal action taken.

SCHEDULE "B"

	AGES	
	Women	Men
Under 20.....	843	
21-30.....	738	(Record not kept)
Over 30.....	196	

NATIONALITY		
Canadians.....	1,049	883
English.....	177	176
Scotch.....	208	106
Irish.....	77	42
Foreign.....	231	242

OCCUPATION		
Domestic and Waitresses.....	893	
Factory.....	265	
Stenographers and Clerks.....	167	(Records not kept)
Miscellaneous.....	336	
Housewife.....	74	

MARRIED OR SINGLE		
Single.....	1,571	1,123
Married.....	219	391

N.B.—The above figures are only approximate as there are a number of cases in which we are unable to get any data.

SCHEDULE "C"

FINANCES OF THE YEAR

CURRENT ACCOUNT

NOVEMBER 1ST, 1929, TO OCTOBER 31ST, 1930

TOTAL AMOUNT COLLECTED.....		\$123,605.95
DISBURSEMENTS		
Legal.....		\$887.73
Medical.....		5,006.05
HOSPITALS		
Hamilton.....	\$203.25	
Kingston.....	130.50	
London.....	259.50	
Ottawa.....	645.50	
Toronto.....	773.22	
Salvation Army.....	1,448.36	
Miscellaneous.....	1,742.93	
		5,203.26
MAINTENANCE		
Paid to Mothers.....	\$92,029.76	
Haven and Victor Homes.....	272.12	
Humewood House.....	135.75	
Children's Aid Societies.....	1,433.13	
Catholic Welfare.....	509.50	
City Relief.....	988.29	
Infants' Home, Toronto.....	3,968.82	
" " Hamilton.....	685.83	
" " Ottawa.....	860.43	
		100,883.63
To the Provincial Treasurer under Section 14, Subsection (b) of the Unmarried Parents Act.....		7,607.90
Total Disbursements.....		\$119,588.57

TRUST FUNDS

In trust with Public Trustee	
Amount transferred for year ending October 31st, 1930.....	\$46,755.36
Balance previously transferred.....	164,652.31
Gross amount with Public Trustee on October 31st, 1930.....	<u>211,407.67</u>
Disbursements from Public Trustee accounts, 2,796 cheques.....	51,452.50
Disbursements from Bank.....4,186 cheques.....	<u>68,136.07</u>
Making total number of cheques issued..6,982	\$119,588.57
TOTAL COLLECTED 1921-1930	
Collected from July, 1921, to October 31st, 1929.....	\$664,713.46
Collected from November 1st, 1929, to October 31st, 1930.....	<u>123,605.95</u>
Gross Amount Collected.....	<u>\$788,319.41</u>



Retrospect

EACH successive year brings its own problems in Child Welfare and a constantly increasing and enlarging work and responsibility. Looking back over the past we can see where we might have done better and possibly exerted a more permanent uplifting influence on the lives of young people. Are we taking advantage of our experience that we may give better service in the future? This is a thought that should engage the close attention of us all. While there are a thousand and one problems, disputes, difficulties, untimely deaths, desertions, imprisonments, lack of mental balance, and immorality with all its hurtful consequences, there are still opportunities afforded us every day of helping, befriending, rescuing and uplifting the children of misfortune. We cannot hope for success in every case but in the main the general results of our efforts will be in proportion to the efficiency and faithfulness of the service we render.

Respectfully submitted,

J. J. KELSO,

Superintendent and Provincial Officer.

1 Queen's Park,
Toronto, March, 1931.

FOURTH REPORT
OF THE
LIQUOR CONTROL BOARD
OF
ONTARIO

From November 1st, 1929 to October 31st, 1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 20, 1931



ONTARIO

TORONTO

Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty

1931

TORONTO, March 16th, 1931.

TO THE HONOURABLE WILLIAM DONALD ROSS,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to transmit to Your Honour the Fourth Report of the Liquor Control Board of Ontario for the year ending 31st of October, 1930.

Respectfully submitted,

WILLIAM H. PRICE,
Attorney-General.

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Liquor Control Board of Ontario

110 UNIVERSITY AVENUE, TORONTO,
March 11th, 1931.

TO COLONEL THE HONOURABLE W. H. PRICE, K.C.,
Attorney-General, Province of Ontario,
Parliament Buildings, Toronto 5, Ontario.

SIR:

The Liquor Control Board of Ontario has the honour to submit herewith its fourth report for the year ending 31st of October, 1930.

FINANCIAL STATEMENT

Forwarded herewith is the balance sheet and profit and loss account prepared and certified to by Messrs. Clarkson, Gordon, Dilworth, Guilfoyle and Nash, who conduct a current and extensive audit of all the Board's activities.

On referring to the balance sheet, it will be noted that the amount of fixed assets was \$201,409.86; this amount represents the cost of land and buildings situated at 154 Wellington Street West, Toronto, and Fort William, less depreciation on buildings. Included also is the value of fixtures and alterations in rented premises, furniture and equipment, less the amount written off.

Current assets amount to \$6,792,218.53, being composed of the following items:

Cash on hand and in banks.....	\$3,828,579 53
Accounts receivable made up of: Hospital sales, 5 per cent. commission on direct brewery and brewery warehouse sales, duty recoverable items due us from Customs Department, freight claims, fines, etc.....	91,437 66
Inventories of liquors and supplies.....	2,832,310 06
Prepaid insurance, etc.....	39,891.28

The liabilities are shown as \$2,408,363.92. This amount is composed of the following items:

For liquors and supplies, miscellaneous charges, accrued, etc.....	\$2,392,853 44
Due Provincial Treasurer.....	15,510 48
(For permit sales and confiscated stock).	

It will be observed that a surplus is shown of \$4,585,264.47 which includes the balance carried forward from last year of \$2,764,297.17 and the balance of net profits for the fiscal year after paying the Provincial Treasurer the sum of \$7,495,000.00. This surplus is represented by our assets, the amount thereof being the excess of assets over liabilities. It does not, of course, take into consideration contingent liabilities which amount to \$3,119,076.74. These contingent liabilities, while representing matters that have to be set up, are nevertheless not a fair charge on the operations of the Board, for the year that just closed.

The profit and loss account shows sales of \$52,283,001.71. These sales include sales made through the Liquor Control Board stores and warehouses

and the sales made from breweries and brewery warehouses. The amount sold by the breweries and brewery warehouses being \$17,518,908.00 as against \$34,764,093.71, the amount sold by the Board.

The statement shows a gross trading profit of \$11,162,858.93 and a net trading profit of \$8,373,352.68. This sum, together with other revenue, which amounted to \$942,614.62 resulted in a total profit of \$9,315,967.30, which is carried to the balance sheet.

For purposes of comparison, the percentages that the cost of stock sold, miscellaneous earnings and expenses and other revenue, bear to the total of gross sales are given for the years 1929 and 1930.

Besides the balance sheet and profit and loss account, statements showing summary of sales and the Board's expenses of administration and operation for the twelve months are also attached. Again for the purpose of comparison, the individual percentage which all these expenses bear to the total sales is given for both periods on the expense statement.

In addition, all Liquor Board stores, brewery warehouses, breweries and wineries privileged to sell alcoholic beverages in Ontario as of October 31st, 1930, are set forth on Schedule III attached, and a classification of permit and license sales appears on Schedule IV.

STORES

During the past year no new stores were opened but three were transferred to new locations; the total remaining at 122.

BREWERY WAREHOUSES

During the year no new brewery warehouses were opened but four were transferred to other premises. At the end of the year the total remained the same as one year ago, namely, 105.

BREWERIES

On October 31st, 1930, there were thirty-three breweries producing and selling beer in Ontario, three having discontinued operations during the year, viz.:

Rock Brewery, Limited, Preston.

Lake Ontario Brewing Company, Limited, Kingston.

Sleeman's Spring Bank Brewing Company, Guelph.

Changes occurred in the names of the following breweries:

St. Clair Brewing Company to Tecumseh Brewing Company, Limited.

Hamilton Brewing Association to Regal Brewing Company.

In addition, four Montreal breweries also were represented in the brewery warehouses.

WINERIES

On October 31st, 1930, the number of native wineries was fifty-two, all of which were properly licensed by the Board.

SALES

Sales have reduced in volume from \$55,360,569.81 to \$52,283,001.71. The following table gives the usual details in comparison with the preceding year, and the resultant decreases:

	1928-29	1929-30	Increase or Decrease	Percentage
Domestic Spirits.....	\$12,043,271 33	\$11,654,935 95	\$ 388,335 38 D.	3.2 D.
Imported Spirits.....	20,225,232 58	17,768,669 82	2,456,562 76 D.	12.1 D.
Domestic Wines.....	2,083,953 05	2,439,810 05	355,857 00 I.	17.1 I.
Imported Wines.....	1,153,891 45	961,009 90	192,881 55 D.	16.7 D.
Domestic Beers.....	19,621,165 10	19,245,125 39	376,039 71 D.	1.9 D.
Imported Beers.....	233,056 30	213,450 60	19,605 70 D.	8.4 D.
	<u>\$55,360,569 81</u>	<u>\$52,283,001 71</u>	<u>\$3,077,568 10 D.</u>	<u>5.5 D.</u>

It will be noted that the heavier reductions are in the imported goods. The reduction in imported spirits being 12.1 per cent., as against 3.2 per cent. in the domestic spirits; 8.4 per cent. in imported beers, as against 1.9 per cent. in domestic beers, and 16.7 per cent. in imported wines as against an actual increase in native wines of 17.1 per cent. Apart from native wines, the decrease in sales amounted to \$3,433,425.10.

The heaviest proportional reductions occur in the sales of the heavier imported wines. While the general total of the imported wines shows a reduction of 16.7 per cent., nevertheless the sale of the light beverage wines included in the general total shows an increase of 14.8 per cent.

Sales continue to reduce. The report of last year shows sales for the winter months of November, December and for the first half of January, when trade was heaviest. It showed that, with the exception of native wine, in each of the three months, domestic beer in November and January and domestic spirits in December, decreases were recorded.

A like comparison of the same months of the current year and the past follows:

	November, 1929	November, 1930	Increase	Per cent.	Decrease	Per cent.
Imported Spirits.....	\$1,513,440 03	\$1,161,236 75	.....	.....	\$352,203 28	23.3
Domestic Spirits.....	872,435 94	806,532 21	.....	.....	65,903 73	7.5
Imported Wines.....	71,796 90	62,032 85	.....	.....	9,764 05	13.6
Native Wines.....	159,970 30	176,485 60	16,515 30	10.3	.....	.....
Imported Beer.....	14,287 10	11,158 40	.....	.....	3,128 70	21.9
Domestic Beer.....	1,128,753 24	1,050,620 73	.....	.....	78,132 51	6.9
	<u>\$3,760,683 51</u>	<u>\$3,268,066 54</u>	<u>\$16,515 30</u>		<u>\$509,132 27</u>	.....
					<u>16,515 30</u>	.....
					<u>\$497,616 97</u>	13.0

	December, 1929	December, 1930	Increase	Per cent.	Decrease	Per cent.
Imported Spirits.....	\$2,441,003 43	\$2,106,495 45	.....	.....	\$334,507 98	13.7
Domestic Spirits.....	1,297,474 00	1,318,339 56	\$20,865 56	1.6	.....	.....
Imported Wines.....	159,353 10	158,068 80	.....	.....	1,284 30	.8
Native Wines.....	312,331 60	373,577 30	61,245 70	19.6	.....	.....
Imported Beer.....	17,412 20	15,023 10	.....	.....	2,389 10	13.7
Domestic Beer.....	1,377,290 63	1,488,911 45	111,620 82	8.1	.....	.....
	<u>\$5,604,864 96</u>	<u>\$5,460,415 66</u>	<u>\$193,732 08</u>		<u>\$338,181 38</u>	.....
					<u>193,732 08</u>	.....
					<u>\$144,449 30</u>	2.6

	January, 1930	January, 1931	Increase	Per cent.	Decrease	Per cent.
Imported Spirits	\$1,334,372 88	\$1,135,291 05	.....	.....	\$199,081 83	14.9
Domestic Spirits	790,788 60	769,015 19	.....	.....	21,773 41	2.7
Imported Wines	64,721 85	60,181 10	.....	.....	4,540 75	7.0
Native Wines	183,641 90	213,192 20	\$29,550 30	16.1	.....	.....
Imported Beer	13,998 65	11,156 10	.....	.....	2,842 55	20.3
Domestic Beer	908,642 43	934,562 12	25,919 69	2.8	.....	.....
	\$3,296,166 31	\$3,123,397 76	\$55,469 99		\$228,238 54	.....
					55,469 99	.....
					\$172,768 55	5.2

So that the trend of business may be more clearly shown, the following table is submitted, showing like comparisons for the two-year period, 1928-1930:

	November, 1928	November, 1930	Increase	Per cent.	Decrease	Per cent.
Imported Spirits	\$1,558,033 80	\$1,161,236 75	.....	.....	\$396,797 05	25.5
Domestic Spirits	942,428 15	806,532 21	.....	.....	135,895 94	14.4
Imported Wines	100,018 15	62,032 85	.....	.....	37,985 30	37.9
Native Wines	87,473 60	176,485 60	89,012 00	101.7	.....	.....
Imported Beers	16,416 00	11,158 40	.....	.....	5,257 60	32.0
Domestic Beers	1,066,344 24	1,050,620 73	.....	.....	15,723 51	1.5
	\$3,770,713 94	\$3,268,066 54	\$89,012 00		\$591,659 40	.....
					89,012 00	.....
					\$502,647 40	13.3

	December, 1928	December, 1930	Increase	Per cent.	Decrease	Per cent.
Imported Spirits	\$2,962,655 57	\$2,106,495 45	.....	.....	\$856,160 12	28.9
Domestic Spirits	1,554,540 40	1,318,339 56	.....	.....	236,200 84	15.2
Imported Wines	209,470 35	158,068 80	.....	.....	51,401 55	24.5
Native Wines	224,767 50	373,577 30	\$148,809 80	66.2	.....	.....
Imported Beers	22,786 80	15,023 10	.....	.....	7,763 70	34.1
Domestic Beers	1,554,507 11	1,488,911 45	.....	.....	65,595 66	4.2
	\$6,528,727 73	\$5,460,415 66	\$148,809 80		\$1,217,121 87	.....
					148,809 80	.....
					\$1,068,312 07	16.3

	January, 1929	January, 1931	Increase	Per cent.	Decrease	Per cent.
Imported Spirits	\$1,609,912 87	\$1,135,291 05	.....	.....	\$474,621 82	29.5
Domestic Spirits	910,071 80	769,015 19	.....	.....	141,056 61	15.5
Imported Wines	78,625 80	60,181 10	.....	.....	18,444 70	23.5
Native Wines	118,817 85	213,192 20	\$94,374 35	79.4	.....	.....
Imported Beers	15,141 20	11,156 10	.....	.....	3,985 10	26.3
Domestic Beers	846,712 55	934,562 12	87,849 57	10.4	.....	.....
	\$3,579,282 07	\$3,123,397 76	\$182,223 92		\$638,108 23	.....
					182,223 92	.....
					\$455,884 31	12.7

The experience of hotel managements and others interested in the tourist business indicates that the number of tourists coming to Ontario particularly in the latter months, was much below that of the previous year.

The exact figures are not yet obtainable from Ottawa, but the fact that the earnings resulting from tourist traffic were considerably reduced would appear to be generally accepted.

This is not the fact so far as liquor sales are concerned. The number of resident permits issued for the year was 409,329, as against 416,185 issued in the previous year, resulting in a reduction of 6,856 resident permits, while the number of non-resident permits issued was 111,715, as against 107,164, resulting in an increase for the year of 4,551 non-resident permits.

It must, of course, be remembered that the number of non-resident permits issued is only an indication of transient tourists. Resident permits may be obtained by those who reside in the Province for a period exceeding thirty days.

The number of people who reside out of Ontario for the greater part of the year, but who have summer or other residences in Ontario, and there reside regularly for periods considerably in excess of thirty days, is very considerable.

DOMINION TAXATION

The Board's chief expenditures continue to consist of payments to the Dominion Government for Customs Duties, Excise Duties, Malt Duties, Beer Gallonage and Sales Tax. They amounted to \$15,500,000.00.

PERMITS

The number of permits cancelled during the year amounted to 7,760, this being an increase of 641 over the cancellations for the year previous.

In order to more strictly control the sales—to directly bring home to those purchasing liquor the amount of money they are spending on luxuries, possibly to the expense of real necessities—the Permit form has been changed. The permits for this year provide a column in which the actual cash amount of each purchase is inserted; the cash values totalled and carried forward. This, of necessity, somewhat slows up the work and, at the first, objections were made to the innovation and some of them vigorous. The real value of the change has, however, already well proved itself. It is a great assistance to Permit Endorsers in properly controlling sales. It is now pretty well recognized that it is only proper to pointedly remind purchasers what liquor is costing them and how surprisingly the total mounts up.

The permit system is also now extended to the purchase of native wines. This extension was made owing to the fact that much intoxication was found to be the result of drinking native wine. This conclusion is well borne out by an analysis which has been made of the cancellations of permits which have taken place during the brief period from November 1st, 1930 to February 12th, 1931. In that period 1,933 permits were cancelled.

The permits cancelled are, as follows:

Liquor Permits, Resident	1,286
Liquor Permits, Temporary	37
Wine and Beer Permits, Resident	606
Wine and Beer Permits, Temporary	4
	1,933

The number of permits issued up to February 12th, 1931, the last day of the period under observation, were:

Liquor Permits, Resident	263,687	
Liquor Permits, Temporary	11,011	
		274,698
Wine and Beer Permits, Resident	66,874	
Wine and Beer Permits, Temporary	1,499	
		68,373
Less Conversions to Liquor Permits		11,071
		57,302

It will be observed that in the case of the liquor permits one cancellation has been made for every 207 permits issued, while in the case of the wine and beer permits a cancellation occurs for every 94 permits issued. The ratio of cancellation in connection with wine and beer permits being over twice as much as in the case of liquor permits.

A further analysis has been made to show the class of liquor purchased and reasons for cancellation. In the case of the 1,323 cancellations of the liquor permits, the results are:

Class of Liquor Purchased

Drinkers of Spirits	240	
Drinkers of Beer and Spirits	403	
Drinkers of Wine and Spirits	118	
Drinkers of Wine, Beer and Spirits	467	
Drinkers of Beer	32	
Drinkers of Wine	17	
Drinkers of Beer and Wine	29	
Minors—No purchases made	17	
		1,323

Grounds of Cancellation

Over Indulgence	499	
Drunkenness	94	
City Relief or Unemployment, etc.	123	
Minors	26	
Convictions—Liquor Control Act	416	
Prior Cancellations	55	
Other Convictions	19	
Fictitious Names and Addresses	91	
		1,323

The analysis of the 610 cancellations of the wine and beer permits gives the following results:

Class of Liquor Purchased		Grounds of Cancellation where Wine is Purchased	
Drinkers of Wine	267	Over Indulgence	60
Drinkers of Beer	85	Drunkenness	43
Drinkers of Wine and Beer	258	City Relief or Unemployment, etc.	31
	610	Minors	4
		Convictions—Liquor Control Act	79
		Prior Cancellations	7
		Fictitious Names and Addresses	43
			267

Grounds of Cancellation where Beer is Purchased		Grounds of Cancellation where both Wine and Beer are Purchased	
Over Indulgence.....	19	Over Indulgence.....	65
Drunkness.....	2	Drunkness.....	48
City Relief or Unemployment, etc.....	8	City Relief or Unemployment, etc.....	48
Minors.....	2	Minors.....	5
Convictions—Liquor Control Act.....	32	Convictions—Liquor Control Act.....	53
Prior Cancellations.....	5	Prior Cancellations.....	11
Fictitious Names and Addresses.....	17	Fictitious Names and Addresses.....	28
	85		258

Deputations of those interested in the making of native wine have urged upon the Board that native wine be again sold without permits. In the opinion of the Board no change ought to be made. Unfortunately, there are only too many cases showing that the sales of wines, heavy in alcoholic content, ought to be subject to proper measures of control and the results of excessive drinking of wines, averaging 27% of alcoholic content, are just as disastrous to the drinkers and their families, whether the wine is a native production or not. Under no possible principle is it just to apply the permit system to 9½% beers and not to 27% wines. In order to give fair effect to the principles of the Liquor Control Act, all beverages, intoxicating within the meaning of the Act (that is, having an alcoholic content more than 4.4) ought to be only purchasable under a permit.

The application of the permit system to other intoxicating drinks, but excepting native wine, has, naturally, increased the sale of native wine. Wine companies make sworn returns to the Board and the Board has as well its own figures as to purchases and sales.

The totals of the native wine business assembled from the returns and checked as to deliveries to the Board, for the years 1928, 1929 and 1930 are now given in gallons.

	1928	1929	1930
Direct Sales in Ontario.....	322,400	553,518	806,684
Sales to the Board.....	478,468	1,199,385	1,337,153
Total Ontario Sales.....	800,868	1,752,903	2,143,837
Sales to Other Provinces.....	1,564,891	1,735,194	1,346,094
Export Sales.....	42,559	31,462	14,774
	2,408,318	3,519,559	3,504,705

It will be noted that in two years Ontario sales increased from 800,868 gallons to 2,143,837 gallons, or 167%, as against a decrease in other Canadian sales from 1,564,891 to 1,346,094 gallons, or 13.98%. To again illustrate; while Ontario sales have increased by 1,342,969 gallons, sales in other Provinces have decreased by 218,797 gallons.

Behind the wine industry and always recognized, is the widespread interest of the grape growers. The Board would like to see that interest conserved and proper profits secured by the growers. The Board's merchandising of native wines all over the province has very greatly enhanced the interest of the grape growers and greatly advanced grape growing. Out of the total listings of the 823 items sold by the Board, no less than 164 listings are of native wine. The real interest, however, of the grape growers is not in an indiscriminate sale of heavy wines (as it appears to be thought) which if allowed to go on unchecked must ultimately end in disaster.

The Board hopes that the grape growers' prices will keep up. Much new planting, however, has been made—the acreage of the vineyards has much

increased. The chief danger to the grape growers lies (as in all other commodities) in over-production.

The permit system has, of course, already checked to some extent the abnormal sales of native wine, but not to the extent claimed by the wineries, although the business of some wineries will undoubtedly decrease.

The grape growers are interested in the whole volume of business and a comparison is now given of all Ontario sales for the months of November, December, January and February, with the permit system in operation, and the same months of the previous year.

	Direct Sales by Wineries	Sales from Liquor Stores	Total Sales
For 4 months ending February 28th, 1930..	286,027 Gals.	483,933 Gals.	769,960 Gals.
For 4 months ending February 28th, 1931..	193,569 "	549,297 "	742,866 "
Net Decrease.....			27,094 " 3.5%

It will be noted that the decrease is but 27,094 gallons which may be compared with the decrease of sales in other Provinces, attributable to no restriction in sale, but only to changed economic conditions, or other business reasons. These sales, which were in 1929—1,735,194 gallons, fell off to 1,346,094 gallons, a decrease of 389,100 gallons or 22.4%, as against a decrease of 3.5%.

GENERAL

Criticisms have been made with reference to the earnings of the Board and comparisons drawn between the financial results in Ontario and those of Quebec.

Nothing can be more fatal to the cause of temperance than the commencement of a rivalry between Commissions to earn out of liquor the greatest amount. Rivalry in the sale of liquor and in profits to be obtained from the sale of liquor, would bring about most deplorable results. All question of control would be abandoned. The policy of "sell as little as possible" would surely become "sell as much as possible". Again, the conditions in each Province vary. Provinces receiving their imported goods from ocean carriers save railway freights. Provinces, again, where the great bulk of the business is confined to a small territory, and without great expansion, can operate more economically, but the chief difference between one Province and another lies in the amount of control exercised. It has been generally admitted that control in Ontario is the strictest yet attempted in any Province. Control costs money and with more control, more money. The greatest economy can be obtained by the largest amount of sales per employee, with the smallest overhead charges with no real control at all. Stores would then only be opened when a proper financial return was assured and no attention whatever would be given to the question of opening stores in order to improve local social conditions, apart from any question of financial gain.

The Board has much pleasure in reporting that to an ever-increasing degree, charitable and Relief organizations are availing themselves of its services. All cases that are sent in by the different organizations, whether municipal or church, are investigated by the Board's Special Officers.

The main object here is, of course, obvious. No one abusing liquor should be allowed it. No one should be permitted to purchase liquor at the expense of the necessities of the home and it is perfectly clear that those who have to seek relief are not in any position to purchase liquor.

A great majority of cases investigated show that applicants for relief are not in possession of permits and again, the great majority of the permits which have been found to have been held by those requiring relief show very light purchases. In such cases the permits are not cancelled, but are held until such time as the charitable or relief organization states that the permittee's circumstances have so improved that he is in a position to purchase liquor. Where purchases have been unreasonably large the permits are cancelled.

In fairness to the large number of people who require relief, it must be stated, however, that those having permits constitute but a small percentage. For example: out of 8,382 cases investigated only 337 were found to have permits.

A large part of the work is done at Head Office. In addition to this, at places where unemployment is marked, on the request of the relief officers or church societies similar service is performed by the local Vendor. The societies and relief officers supply the Vendor with lists of those receiving relief and no sales are made to anyone shown on them.

In addition to this work, the Board is also most pleased to report that the number of organizations giving information to the Board as to cases requiring special attention and the strict enforcement of total abstinence, is increasing.

DANGEROUS SUBSTITUTES

Favourable results have continued to attend the action taken to eliminate the promiscuous sale of rubbing alcohol so as to prevent it being drunk rather than being used externally.

There have been some hundreds of investigations based on analyses of monthly reports of rubbing alcohol sales by druggists, these investigations extending both to the druggists themselves and in many cases to individual rubbing alcohol addicts, with beneficial results. As a further stimulus to regularity, numbers of druggists' special permits have been either cancelled or suspended for some months until satisfactory assurance was given of regularity in the future.

INSPECTION

The inspection of the stores, breweries and brewery warehouses is being carried out regularly, not only with a view to ascertaining the correctness of the stocks and finances, but also to see that the instructions of the Board are being followed with reference to the endorsing of permits, control of sales and other requisites necessary to the successful carrying out of the intentions of the Act. In all breweries we not only have an Inspector to endorse purchases on the permits, but Head Office Inspectors also make periodical visits to see that all regulations are being followed.

CIDER

In view of the fact of the wastage in Ontario's apples being very great, some two years ago the question of producing cider on a proper commercial basis, in Canada, was taken up.

The manufacture and sale of cider, both in Great Britain and France in particular, is on a large and well established basis. The cider produced in Ontario has been sweet cider. It has been sold in an unfermented condition and requires to be consumed in a comparatively short time. The sale has not been and is not now, at all large. Production is negligible in comparison with

what it might be. The difficulty in handling this bulk cider is that in time the cider becomes hard, or fermented, and produces a beverage of a high alcoholic content. After a time this hard, or fermented, cider becomes vinegar.

The process followed in Great Britain has been closely gone into. There cider is sold both in the still and effervescent forms, containing a varied alcoholic content, running perhaps from 4 to 6½% by volume.

With the view of doing something to form a market for Ontario's surplus apples, the Board has been giving attention, for some time past, to the manufacture of cider here. As a result, the Board is now selling a Champagne Cider which is perfectly sound and will keep indefinitely. There is an objection, however, to any general and free sale of this cider as the alcoholic content is 10½% by volume. The Ontario apple is much sweeter than the apple of Great Britain and sugar being the basis of alcoholic production, the producer in order to make sure that re-fermentation would not take place turned out a cider of the strength stated. In order to ensure a large consumption of cider it ought to be produced with an alcoholic content well under the definition of intoxicating liquor, which is 2.5% by volume.

Cider, which in the view of the Board would meet public requirements will be of necessity a sparkling cider, has the presence of carbonic acid gas, preferably produced naturally by the product itself (as against artificial carbonation), which inhibits the development of the cryptic yeasts which otherwise would give rise to a secondary fermentation and an increase in the alcoholic content. The cider, of course, should be produced from apple juice only and must conform to the requirements of the Pure Food Act, containing no sodium benzoate, salicylic acid, boracic acid, or other of the reputed injurious preservatives, or artificial coloring matter or flavoring. It should also be manufactured so as to be clear and free from any deposit.

Both the Provincial and Dominion Governments have since taken the matter up energetically, with the result that another cider has been turned out of a good quality, with an alcoholic content of 5.4% by volume. In the Board's view, however, a cider tasting practically the same could be turned out with a much lower alcoholic content and a further run of cider has been made which is a good sound article, and conforms to the requirements already set out and has an alcoholic content of but 2.21% by volume. It is hoped that the alcoholic content may be further reduced.

The aim of the Board is to get it down to 1.00% by volume, which is, of course, practically negligible.

HONEY

The Ontario Honey Producers Co-operative, Limited, waited last year upon the Board and pointed out to it that approximately 16,450,104 pounds of Cuban sugar were used in the manufacture of native wine and were very desirous that the surplus honey of the Association should be used for this purpose in preference to Cuban sugar. It was pointed out to the Honey Producers that their prices were considerably in excess of the price of sugar and that while it was very desirable to use the Ontario commodity for making native wine, rather than the imported, the refusal, which they stated had been given by the wine companies they had approached, could be looked upon perhaps as natural.

The added cost of making native wine from honey, in place of sugar, amounts to some 18 cents per gallon and as native wine is sold upon a strictly competitive basis, at a very low cost, by the wine manufacturer—at a price to the public of but \$1.50 per gallon, which includes the cost of the container as well as the

whole cost of the wine—it was claimed that the whole of the profits would be eaten up in this advanced cost of 18 cents per gallon. After considerable negotiation, the Board agreed to absorb one-half of this additional cost, or nine cents per gallon, without advancing to the public the cost of the wine.

The honey producers have since reported that on this basis they have been able to sell honey to the extent of over one million pounds, thus materially assisting the honey producers in disposing of a substantial part of their surplus.

LAW ENFORCEMENT

The law enforcement portion of the Liquor Control Act being in the hands of the Attorney General's Department the Board wishes to express its appreciation of the co-operation which it receives from your Department at all times. The Municipal Police throughout the Province have also aided materially, and with satisfactory results.

We have the honour to be, Sir,

Your obedient servants,

H. L. DRAYTON,
Chief Commissioner.

S. McCLENAGHAN,
Deputy Chief Commissioner.

J. M. McNAMARA,
Commissioner.

BALANCE SHEET

31st October, 1930

ASSETS

Land, buildings, furniture, equipment, fixtures and alterations to rented premises less depreciation and amounts written off.....		\$201,409 86
Cash on hand and in banks.....	\$3,828,579 53	
Accounts receivable.....	91,437 66	
Inventories of liquor and supplies in warehouses and stores.....	2,832,310 06	
		<u>6,752,327 25</u>
Prepaid charges.....	\$17,109 50	
Expenses, less sales 1930-1931 permits.....	22,781 78	
		<u>39,891 28</u>
		<u>\$6,993,628 39</u>

LIABILITIES

Accounts Payable, Accrued Charges, Deferred Revenue, etc.....		\$2,392,853 44
Provincial Treasurer:		
Permit Sales—Balance from 1928-29.....	\$6,248 12	
“ “ —1929-30, less expenses.....	962,658 89	
		<u>\$968,907 01</u>
Less: Paid to Provincial Treasurer.....	965,000 00	
		<u>\$3,907 01</u>
Confiscated liquor.....	11,603 47	
		<u>15,510 48</u>
Surplus 1st November, 1929.....	\$2,764,297 17	
Balance from Profit and Loss Account for the year ended 31st October, 1930.....	9,315,967 30	
		<u>\$12,080,264 47</u>
Less: Paid to Provincial Treasurer.....	7,495,000 00	
		<u>4,585,264 47</u>
Surplus 31st October, 1930 (represented by goods purchased and other Assets).....		4,585,264 47
Contingent Liabilities:		
Duty on goods in bond.....	\$559,316 11	
Goods ordered but not delivered.....	2,559,760 63	
		<u>\$6,993,628 39</u>

Auditors' Certificate

We certify that we have audited the books and accounts of the Liquor Control Board of Ontario for the year ended 31st October, 1930 and in our opinion the above Balance Sheet exhibits a true and correct view of the position of its affairs on that date.

CLARKSON, GORDON, DILWORTH, GUILFOYLE & NASH.

Chartered Accountants.

Toronto, 19th December, 1930.

PROFIT AND LOSS ACCOUNT
For Year Ended 31st October, 1930

		Percentage of Sales	
		1930	1929
Sales (Schedule 1).....	\$52,283,001 71	100.00	100.00
Stock on hand 1st November, 1929.....	\$2,865,405 94		
Purchases.....	41,148,556 00		
	<u>\$44,013,961 94</u>		
Stock on hand 31st October, 1930.....	2,819,726 87		
	<u>41,194,235 07</u>	78.79	79.18
	<u>\$11,088,766 64</u>	21.21	20.82
Miscellaneous earnings.....	74,092 29	.14	.07
	<u>\$11,162,858 93</u>	21.35	20.89
Expenses:			
Administering and operating head office warehouses and stores (Schedule 11)...	\$2,715,839 43		
Depreciation on buildings, fur- niture, equipment, fixtures and alterations to rented premises written off and reserved for.....	\$84,911 18		
Less: Included with main- tenance expenses.....	11,244 36		
	<u>73,666 82</u>	5.33	5.08
	<u>\$8,373,352 68</u>	16.02	15.81
Other Revenue:			
Brewery warehouse license fees.....	\$536,475 00		
Brewery license fees.....	144,375 00		
Light beer licenses, standard hotels, etc....	46,692 00		
Fines (net).....	215,072 62		
	<u>942,614 62</u>	1.80	1.64
Carried to Balance Sheet.....	\$9,315,967 30	17.82	17.45

SCHEDULE I
SUMMARY OF SALES

For Year Ended 31st October, 1930

Store Counter and mail order sales of wines, spirits and beer	\$34,502,999	64
Beer orders taken at stores for delivery by breweries and brewery warehouses	237,551	10
Head office sales	23,542	97
	\$34,764,093	71
Beer sales by breweries and brewery warehouses	17,518,908	00
	\$52,283,001	71

SCHEDULE II
ADMINISTRATION AND OPERATING EXPENSES

For Year Ended 31st October, 1930

And Number of Employees on the Staff at 31st October, 1930

	Head	Warehouses	Stores	Total	Percentage to Total Sales	
					1930	1929
Executive salaries	\$54,718 62			\$54,718 62	.10	.10
Salaries	590,070 59	\$95,684 92	\$1,092,304 54	1,778,060 05	3.40	3.01
Legal and audit fees	17,452 30			17,452 30	.03	.03
Rentals	21,600 00	15,478 82	178,577 02	215,655 84	.41	.36
Travelling	38,688 83	20 00	1,917 36	40,626 19	.08	.08
Foreign exchange	105 72		1,575 71	1,681 43	CR. .02	
Insurance	5,832 67	8,357 31	36,143 42	50,333 40	.10	.09
Postage	12,474 35	112 44	6,525 90	19,112 69	.04	.04
Stationery	24,286 72	1,087 67	17,331 56	42,705 95	.08	.11
Telegraph and tele- phone	4,046 23	520 67	6,977 73	11,544 63	.02	.02
Dominion Electric Pro- tective Service		591 36	5,574 01	6,165 37	.01	.01
Breakage		3,418 48	8,806 97	12,225 45	.02	.03
Light, heat and power	4,025 09	4,364 87	30,507 97	38,897 93	.08	.07
Repairs and mainten- ance	11,061 34	6,409 53	18,257 74	35,728 61	.07	.12
Sundries	23,049 42	1,148 09	12,502 36	36,699 87	.07	.07
Freight and cartage . .	96 93	146 45	231,964 20	232,207 58	.44	.43
Terminal Warehouse charges		65,515 33		65,515 33	.13	.15
Discounts to hospitals, etc.	770 63		14,354 41	15,125 04	.03	.03
Truck maintenance . . .	831 78	1,702 19	13,618 03	16,152 00	.03	.03
Packing materials . . .	59 06	1,502 33	23,669 76	25,231 15	.05	.05
	\$809,170 28	\$206,060 46	\$1,700,608 69	\$2,715,839 43	5.19	4.81

Percentage of total expenses	29.79	7.59	62.62	100%
Percentage of total sales—				
1930	1.55	.39	3.25	
1929	1.39	.41	3.01	

NUMBERS OF EMPLOYEES ON STAFF

Commissioners' staff.....	8
General Manager's office.....	4
Comptroller's office.....	10
Legal office.....	2
Accounting office.....	82
Beer Department.....	32
Stock Supervisors.....	11
Customs Department.....	6
Traffic Department.....	5
Purchasing and Supply Department.....	11
Inspection Department.....	15
General Inspectors.....	9
Permit Department.....	34
Maintenance.....	8
Supervision of Stores and Properties.....	4
Brewery Inspectors.....	192
Central Registry.....	2
Garage.....	6
	<hr/>
Warehouses.....	66
Stores.....	674
	<hr/>
	740
	<hr/>
Total.....	1,181

The above list includes 54 temporary employees whose services are either part time or seasonal.

SCHEDULE III

LIQUOR STORES, LICENSED BREWERS' WAREHOUSES, BREWERIES AND WINERIES IN ONTARIO AT 31st OCTOBER, 1930

LIQUOR STORES

Store No.		
1	Lombard and Church Streets.....	Toronto
2	130 Wellington Street West.....	Toronto
3	1271 Dundas Street West.....	Toronto
4	170 Danforth Avenue.....	Toronto
5	1881 Queen Street East.....	Toronto
6	1271 Queen Street West.....	Toronto
7	2223 Dundas Street West.....	Toronto
8	928 St. Clair Avenue West.....	Toronto
9	959 Bloor Street West.....	Toronto
10	543 Yonge Street.....	Toronto
11	949 Gerrard Street East.....	Toronto
12	402 Parliament Street.....	Toronto
13	1448 Danforth Avenue.....	Toronto
14	454 Spadina Avenue.....	Toronto
15	272 Dupont Street.....	Toronto
16	106 Richmond Street West.....	Toronto
18	Midland Avenue and Kingston Road.....	Scarboro Bluffs
19	Rogers Road and Blackthorn Avenue.....	Toronto
20	783 Lake Shore Road.....	New Toronto
21	29 Charles Street.....	Hamilton
22	673 King Street East.....	Hamilton
23	334 Ottawa Street North.....	Hamilton
24	88 Fraser Street.....	Port Colborne
25	81 King Street West.....	Dundas
26	419 Talbot Street.....	London
27	647 Dundas Street.....	London
28	12 Canal Street.....	Dunnville
29	Burford Street.....	Warton
30	82 Durham Street.....	Walkerton
31	334 London Street West.....	Windsor
32	52 Wyandotte Street East.....	Windsor

LIQUOR STORES—Continued

Store No.		
33	93 Drouillard Road.....	East Windsor
34	82 Victoria Road.....	Walkerville
35	29 Sandwich Street.....	Sandwich
36	272 Queen Street.....	Ottawa
37	685 Bank Street.....	Ottawa
38	188 Rideau Street.....	Ottawa
39	King Street.....	Cobourg
40	Market Square.....	Kingston
41	209 Victoria Avenue.....	Fort William
42	101 King Street West.....	Brockville
43	137 King Street East.....	Kitchener
44	69 Dalhousie Street.....	Brantford
45	408 George Street.....	Peterborough
46	Christina and Cromwell Streets.....	Sarnia
47	Ontario Street.....	St. Catharines
48	937 Victoria Avenue.....	Niagara Falls
49	66 Pitt Street.....	Cornwall
50	Cedar and Elgin Streets.....	Sudbury
51	72 Carden Street.....	Guelph
52	269 Main Street East.....	Welland
53	66 Cumberland Street South.....	Port Arthur
54	88 Main Street East.....	North Bay
55	185 Alexandria Street.....	Pembroke
56	Water Street.....	Prescott
57	52 Bridge Street East.....	Belleville
58	4 Balsam Street North.....	Timmins
59	72 Collier Street.....	Barrie
60	88 Ontario Street.....	Stratford
61	210 King Street West.....	Chatham
62	314 Talbot Street.....	St. Thomas
63	343 Queen Street East.....	Sault Ste. Marie
64	516 Dundas Street.....	Woodstock
65	Front Street.....	Trenton
66	6th Avenue North.....	Cochrane
67	Main and Ferguson Streets.....	Haileybury
68	214 Main Street South.....	Kenora
69	Church and Mowat Streets.....	Fort Frances
70	22 Beckwith Street.....	Smith's Falls
71	King and Main Streets.....	Gananoque
72	34 Gore Street.....	Perth
73	610 King Street.....	Preston
74	61 Robinson Street.....	Simcoe
75	226 Devonshire Avenue.....	Iroquois Falls
76	Prospect and Silver Street.....	Cobalt
77	121 Main Street.....	Penetang
78	Whitewood Avenue.....	New Liskeard
79	79 Walton Street.....	Port Hope
80	Great North Road.....	Parry Sound
81	Main and Queen Streets.....	Sturgeon Falls
82	79 Kent Street.....	Lindsay
83	31 Main Street West.....	Hawkesbury
84	Main Street.....	Pictou
85	Daniel and Elgin Streets.....	Arnprior
86	Queen and White Streets.....	Dryden
87	Front Street.....	Sioux Lookout
88	River Street.....	Paris
89	Main and Mattawa-Pembroke Highways.....	Mattawa
90	68 Simcoe Street North.....	Oshawa
91	29 Duncan Street.....	Kirkland Lake
92	91 Fourth Avenue.....	Englehart
93	Gilmour Road.....	Fort Erie
94	Bridge Street North.....	Eganville
95	21 Water Street North.....	Galt
96	112 Main Street.....	Deseronto
97	Dundas Street.....	Napanee
98	22 Main Street.....	Alexandria
99	Emard Street.....	Embrun
100	25 Albert Street.....	Thorold
101	48 Main Street West.....	Grimsby
102	Muskoka Street.....	Gravenhurst

LIQUOR STORES—Continued

Store No.		
103	Tudhope Street	Espanola
104	Main Street East	Thessalon
105	Concession Street	Tamworth
106	Main Street	Huntsville
107	Main Street	Palmerston
108	Woodward Avenue	Blind River
109	Murray Street	Amherstburg
110	46 Wallace Street	Wallaceburg
111	Bedford Street	Westport
112	37 Government Road	Kapuskasing
113	Opongo Street	Barry's Bay
114	Corner Fourth Street and Broadway	Rainy River
115	43 King Street North	Waterloo
116	Arthur Street	Elmira
117	Birch Street	Chapleau
118	Young Street	Capreol
119	Main Street	Merrickville
120		Pelee Island
121	1008 Wellington Street West	Ottawa
122		Hearst
123	Corner Main and Collins Streets	Lancaster

BREWERS' WAREHOUSES

Warehouse No.		
1W	351 Front Street East	Toronto
2W	74 King Street East	Toronto
3W	581 Queen Street West	Toronto
4W	398 College Street	Toronto
5W	699 Bloor Street West	Toronto
6W	1485 Queen Street West	Toronto
7W	2233 Dundas Street West	Toronto
8W	1083 St. Clair Avenue West	Toronto
9W	484 Danforth Avenue	Toronto
10W	1852 Danforth Avenue	Toronto
11W	12-14 Ferguson Street	Hamilton
12W	Barton and Ottawa Streets	Hamilton
13W	180 King Street	London
14W	665 Dundas Street	London
15W	413 Hamilton Road	London
16W	1153 McDougall Street	Windsor
17W	1636 Ottawa Street	Windsor
18W	817 Wyandotte Street	Windsor
19W	268 Queen Street	Ottawa
20W	Broad and Wellington Streets	Ottawa
21W	Ontario and Queen Streets	Kingston
22W	580 Victoria Avenue	Niagara Falls
23W	78 Niagara Street	St. Catharines
24W	11 College Street	Kitchener
25W	217 Talbot Street	St. Thomas
26W	271 Ambrose Street	Port Arthur
27W	268 George Street	Peterborough
28W	23 Water Street	Brantford
29W	113 Quebec Street East	Guelph
30W	58 Brock Street	Brockville
31W	6 Dover Street	Chatham
32W	221 Sherman Avenue North	Hamilton
33W	150 Pinnacle Street	Belleville
34W	1 Pitt Street	Cornwall
35W	University and Spring Streets	Cobourg
36W	King Street	Prescott
37W	22 Lorne Street	Sudbury
38W	143 Victoria Street North	Sarnia
39W	107 Oak Street West	North Bay
40W	2 King Street East	Lindsay
41W	Railway Street	Cochrane
42W	605 Bay Street	Sault Ste. Marie
43W	Beckwith Street	Smiths Falls
44W	Ridgeway Street	Trenton
45W	Burger and Victoria Streets	Welland
46W	492 Peel Street	Woodstock

BREWERS' WAREHOUSES—Continued

Warehouse No.		
47W	423 Erie Street	Stratford
48W	Killally Street	Port Colborne
49W	1 Second Avenue	Timmins
50W	17 Norfolk Street	Simcoe
51W	269 Mill Street	Port Hope
52W	19 Main Street	Penetang
53W	193 Victoria Street	Pembroke
54W	553 King Street	Preston
55W	27 Cockburn Street	Perth
56W	Railway Street	Kenora
57W	101 Church Street	Fort Frances
58W	King Street	Gananoque
59W	Gilmour Road	Fort Erie
60W	Post Office Square	Barrie
61W	180 Drouillard Road	East Windsor
62W	Main Street	Huntsville
63W	Ferguson Avenue	Haileybury
64W	145 Main Street	Hawkesbury
65W	William Street	Arnprior
66W	106 Lake Shore Road	Mimico
67W	Main Street	Picton
68W	Murray Street	Amherstburg
69W	North Cayuga Street	Dunnville
70W	Main Street	Belle River
71W	Main Street	Glencoe
72W	Champagne Street	Parry Sound
73W	Main Street	Ridgetown
74W	Queen Street South	Tilbury
75W	291 Ottawa Street	East Windsor
76W	897 Queen Street East	Toronto
77W	King Street West	Dundas
78W	497 James Street North	Hamilton
79W	426 Bank Street	Ottawa
80W	223 Dalhousie Street	Ottawa
81W	161 King Street West	Oshawa
82W	14 St. Paul Street	St. Catharines
83W	9 Market Street	Thorold
84W	Colborne Street	Oakville
85W	Front Street	Sioux Lookout
86W	Burford Street	Warton
87W	35 Goodfish Road	Kirkland Lake
88W	Durham Street	Walkerton
89W	39 Dickson Street	Galt
90W	Muskoka Road and Main Street	Gravenhurst
91W	Mill Street	Napanee
92W	30 Wyandotte Street	Windsor
93W	Nelson Street	Wallaceburg
94W	1395 Gerrard Street East	Toronto
95W	Goderich Street	Port Elgin
96W	2 Marlborough Street South	E. Cornwall
97W	1 Main Street	Morrisburg
98W	2420 Dufferin Street	Fairbank
99W	1145 Yonge Street	Toronto
100W	Main Street	Palmerston
101W	Regent and King Streets	Niagara-on-the-Lake
102W	3333 Danforth Avenue	Toronto
103W	Government Road	Kapuskasing
104W	Broad and Wellington Streets (Distributing Depot)	Ottawa
105W	105 Victoria Avenue	Fort William

BREWERIES

Bixel Brewing & Malting Company, Limited	Brantford
Brading Breweries, Limited	Ottawa
British American Brewing Company, Limited	Windsor
Budweiser Brewing Company of Canada, Limited	Belleville
Canada Bud Breweries, Limited	Toronto
Capital Brewing Company, Limited	Ottawa
Carling Breweries, Limited	London
Copland Brewing Company, Limited	Toronto

BREWERIES—Continued

Cosgrave Export Brewery Company, Limited.....	Toronto
Cronmiller & White Brewing & Malting Company, Limited.....	Welland
Dominion Brewery Company, Limited.....	Toronto
Formosa Springs Brewery, Limited.....	Formosa
Fort Frances Brewing Company, Limited.....	Fort Frances
Gold Belt Brewery, Limited.....	Timmins
Grant's Spring Brewery Company, Limited.....	Hamilton
Hofer Brewing Company, Limited.....	La Salle
Huether Brewing Company, Limited.....	Kitchener
Kakabeka Falls Brewing Company, Limited.....	Fort William
Kormann's Beverages, Limited.....	Toronto
Kuntz Brewery, Limited.....	Waterloo
John Labatt, Limited.....	London
Lake of the Woods Brewing Company, Limited.....	Kenora
O'Keefe's Beverages, Limited.....	Toronto
Perth Brewery.....	Stratford
Port Arthur Beverage Company, Limited.....	Port Arthur
Regal Brewing Company.....	Hamilton
Reinhardt Brewery Company, Limited.....	Toronto
Riverside Brewery Company, Limited.....	Riverside
Soo Falls Brewing Company, Limited.....	Sault Ste. Marie
Sudbury Brewing & Malting Company, Limited.....	Sudbury
Taylor & Bate, Limited.....	St. Catharines
Tecumseh Brewing Company.....	Tecumseh
Walkerville Brewery, Limited.....	Walkerville

BREWERIES LOCATED OUTSIDE THE PROVINCE OF ONTARIO WHOSE PRODUCTS ARE SOLD THROUGH ONTARIO BREWERS' WAREHOUSES

Molson's Brewery, Limited.....	Montreal, Que.
Frontenac Breweries, Limited.....	Montreal, Que.
Ontario National Beverages.....	Montreal, Que.
(Dow Brewery—Montreal)	
(Dawes Brewery—Montreal)	

WINERIES

Badalato, S.....	R.R. 9.....	London
Bayliss, F. W.....	427 Spadina Avenue.....	Toronto
Bellux, Pietro.....	514 McTavish Street.....	Fort William
Bright, T. G., & Co., Limited.....		Niagara Falls
Canada Wine Products, Limited.....	83 King St. West.....	Toronto
Canada Wine Company.....	889 Queen Street West.....	Toronto
Castrucci, O. A.....	187 Parliament Street.....	Toronto
Ciurluini, A.....	R.R. 4.....	St. Catharines
Clark, F. C.....	31 John Street South.....	Hamilton
Concord Wine Company, Limited.....	181-185 Bathurst Street.....	Toronto
Danforth Wine Company.....	355 Danforth Avenue.....	Toronto
Davie Brothers.....	176 Minto Street.....	Sudbury
Deconza, Antonio.....	51½ North Street.....	St. Catharines
Dibbley, Mrs. R. E.....	1 Tournier Street.....	Sandwich
Dominion Wine Growers.....	Dundas Street.....	Oakville
Fort William Wine Company.....	114 McVicar Street.....	Fort William
Furminger, F. L.....	R.R. 2.....	St. Catharines
Grimsby Grape & Wine Company.....	Niagara Highway.....	Grimsby
Hamilton, J. S. & Company, Limited.....	44 Dalhousie Street.....	Brantford
Hamilton Niagara Wines, Limited.....	Hess and Harriet Streets.....	Hamilton
Heuhnergard, B.....	R.R. 3.....	Kitchener
Jordan Wine Company.....		Jordan
Lake Shore Wine Company.....	Stop 22, Lake Shore Road.....	New Toronto
Lincoln Wines, Limited.....		St. Catharines
London Winery.....	R.R. 1.....	London
Marsh, Fred, Winery, Limited.....		Niagara Falls
Meconi, Mariano.....	421 Wyandotte Street East.....	Windsor
National Fruit & Wine Company.....	31 Brock Avenue.....	Toronto
Old Fort Wine Company.....		Fort Erie
Ontario Grape Growing Company.....		St. Catharines
Parkdale Wines, Limited.....	1363 Queen Street West.....	Toronto
Peerless Wine, Limited.....	448 Queen Street East.....	Toronto
Pensa, Phillip.....	24 Yonge Street.....	Kitchener

WINERIES—Continued

Porpiglia, Jos.....	R.R. 2.....	St. Catharines
Rizzo, Nicholas.....	137 York Street.....	Hamilton
Robinet, Freres.....	320 Brock Street.....	Sandwich
Robinet, Jules.....	17½ Sandwich Street East.....	Sandwich
Robinet, Victor.....	141 Sandwich Street East.....	Tecumseh
Robinson, H. Corporation.....	174-204 Catherine Street N.....	Hamilton
Rose, J. C.....	.....	Welland
Rossoni, Carlo.....	1218 Tecumseh Road East.....	Windsor
St. Catharines Wine Company.....	Woodburn Avenue.....	St. Catharines
Samborski, Albin.....	Saltfleet Township.....	Stoney Creek
Stamford Park Wine Company.....	R.R. 3.....	Niagara Falls
Subosits, Victor.....	Box 64.....	Welland
Tadeussow, Thomas.....	.....	Niagara Falls
Tantardini, John.....	32 Wilson Street.....	Guelph
Thomas, Alexander.....	Dundas Street.....	Cooksville
Thorold Winery Company, Limited.....	Ormand Street.....	Thorold
Toronto Wine Manufacturing Company.....	1682 Queen Street West.....	Toronto
Turner Wine Company.....	106 Front Street East.....	Toronto
Windsor Company, Limited.....	Walker Road and Edna St.....	Walkerville

SCHEDULE IV

STATEMENT SHOWING THE NUMBER OF PERMITS AND LICENSES ISSUED
DURING THE TWELVE MONTHS PERIOD ENDING 31st OCTOBER, 1930

PERMITS

November 1st, 1929 to October 31st, 1930:

Resident.....	409,329	
Temporary.....	111,715	
Duplicate.....	14,592	
Physicians.....	276	
Druggists.....	1,333	
Dentists and Veterinary Surgeons.....	156	
Manufacturers.....	243	
Mechanical and Scientific.....	137	
Minister of the Gospel.....	148	
Hospital.....	271	
		538,200

LICENSES

Brewers' Licenses.....	40	
Brewers' Warehouses.....	1,804	
		1,844
Native Wine Permits.....	52	
Sacramental Wine Vendorships.....	4	
Non-Potable Alcohol.....	3	
Standard Hotel.....	315	
		374

LIGHT BEER PERMITS

Brewers' light beer permits.....	29	
Brewers' light beer warehouse permits.....	43	
Hotel light beer permits.....	772	
Restaurant light beer permits.....	574	
Shop light beer permits.....	221	
Club light beer permits.....	33	
Steamships' light beer permits.....	2	
Employees' light beer permits.....	493	
Picnic light beer permits.....	7	
		2,174
		4,392

Ontario Department of Agriculture

REPORT

OF THE

Minister of Agriculture

Province of Ontario

FOR THE YEAR ENDING OCTOBER 31, 1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 21, 1931



ONTARIO

TORONTO:
Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty
1931

REPORT

OF THE

Minister of Agriculture for Ontario

1930

TO HIS HONOUR W. D. ROSS,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I have the honour to submit the Annual Report of this Department for the fiscal year ending October 31st, 1930.

It is a privilege of which I am very proud to be able to pay a sincere personal tribute to the Hon. John S. Martin, retiring Minister, and to Mr. W. Bert Roadhouse, retiring Deputy Minister of Agriculture, for their unnumbered public services to the advancement of this basic industry of our Province.

Amidst the many and varied activities of general departmental administration it is difficult to single out specific achievements and suitably acknowledge the obligation they carry. But to the Hon. Mr. Martin for his ceaseless efforts in connection with the building programme, including the fine new Main Building and Horticulture Building at the O.A.C., and to Mr. W. B. Roadhouse for his indefatigable work on the Agricultural Development Board with which he has been connected since its inception, sufficient praise cannot be given.

As they go to their future work, the Hon. Mr. Martin as America's most prominent poultryman and member of the Ontario Legislature and Mr. Roadhouse as Chairman of the Agricultural Development Board, I extend to them my very best wishes for their happiness and continued success. Both fields of endeavour are positions of trust and opportunities of further service to the people of this Province. Both incumbents are men of high integrity and singular ability.

While it is gratifying to record that as far as yields are concerned decided improvements over the Province can be seen, yet it is only too evident that returns to the growers for this production are still most inadequate. I feel the most important matter the farmers must concern themselves with this year, and in which this Department should be responsible for providing some share of the leadership, is the improvement of our agricultural marketing machinery. In this connection I have been fortunate in having for the past six months the assistance of Mr. W. B. Somerset as Special Commissioner on Fruit and Vegetable Produce Marketing. Mr. Somerset besides being a man of unusual ability and attractive personal charm, has had an extensive experience in advertising, marketing and business analysis. Mr. Somerset's previous valuable work for this Department especially in regard to the establishment of our Commercial

Representative in Great Britain and in the study of marketing conditions in Western Canada are well known. While the tangle of our marketing difficulties is much too snarled to be unravelled in a short time, I am confident that with the help and guidance he has given us in his last report, the near future will witness many important developments in this problem.

Under the different heads under which the Department is organized will be found a brief statement of the work carried on this past year. It will be noticed that a continued interest is being maintained in all the educational activities carried on by the Department. There have been a number of new and important developments in different branches of this work during the year and where these occur a brief outline of their nature and object is included in the report.

All of which is respectfully submitted,

THOMAS L. KENNEDY,
Minister of Agriculture.

ONTARIO AGRICULTURAL COLLEGE

Laying of the corner stone of the new Administration Building and Students' Residence on May 23rd, 1930, was not only an important event of the year, but it marks an outstanding period in the life and history of the Ontario Agricultural College. This day marked the passing of the old as well as the beginning of the new.

The corner stone was placed at the base of the tower near the main entrance of the new building where formerly stood the house built by the Stone Estate more than seventy-five years ago and which formed a part of the old Main Building and served as quarters for the offices of the President and other administrative offices.

Hundreds of boys who have attended the College during the past fifty-five years have many fond memories of the times spent in this old building. The passing of this structure was not without deep regret on the part of Alumni, ex-students, faculty and friends of the College.

Replacing the old building is a five storey structure of Queenston limestone, of beautiful architectural design and of modern fire-proof construction. There is also a tower, ninety feet high, massive in design, lending an atmosphere of solidarity and dignity to the entire structure. The two units of the building now completed will accommodate the administrative offices, book store and post office and will furnish rooms for two hundred and forty-five students.

The south end of this building has been designed for a Community House which will serve as a social centre on the campus, and will mean much to the building, to the life of the College, and to the Alumni and friends who visit the Institution from time to time.

ATTENDANCE INCREASES

Registration in September brought another large increase in the Agricultural Courses. The enrolment in the Freshman Classes for the Associate and Degree Courses reach 154 which is the largest enrolment since 1919. The Intermediate Year shows an attendance of forty-one which is the largest in the history of this class. The students from the Kemptville Agricultural School, Ridgetown Agricultural School, Macdonald Agricultural College, Nova Scotia Agricultural College and other institutions help swell these numbers and gives evidence that this instruction is not only appreciated but necessary to meet the needs of the large numbers of young men and women to prepare themselves for the Degree Courses.

The total enrolment in the General Course in Agriculture reached 492. Summer School for Teachers was attended by 310, an increase of sixty over the previous year. Interest in agricultural instruction in the Public Schools bring more and more teachers into these courses. With added interest on the part of men and women in the short courses, the total attendance in all courses at the College reached 2,102.

The attendance in the various courses was as follows:

General Course.....	492
Specialists in General Course Work.....	18
Daily Courses.....	204
Live Stock and Field Crops.....	243
Farm Drainage.....	15
Poultry Raising.....	42
Horticulture.....	59
Apiculture.....	10
Farm Mechanics.....	24
Farm Power.....	39
Baking School.....	30
Spray Service (two days).....	63
Soils Conference.....	37
	1,276
Home Economics (Macdonald Institute).....	497
Home Economics—Short Course (two weeks).....	19
Summer Courses for Teachers.....	310
	2,102

ANALYSIS OF COLLEGE ROLL (GENERAL COURSE), 1930

		From Ontario			
Algoma.....	3	Hastings.....	1	Perth.....	10
Brant.....	6	Huron.....	13	Prince Edward.....	1
Bruce.....	15	Kent.....	8	Renfrew.....	6
Carleton.....	18	Lambton.....	8	Russell.....	6
Dufferin.....	4	Lanark.....	6	Simcoe.....	18
Dundas.....	2	Leeds.....	5	Stormont.....	1
Durham.....	9	Lincoln.....	9	Temiskaming.....	3
Elgin.....	13	Middlesex.....	8	Thunder Bay.....	9
Essex.....	10	Muskoka.....	1	Victoria.....	3
Frontenac.....	2	Northumberland.....	3	Waterloo.....	7
Glengarry.....	5	Norfolk.....	8	Welland.....	12
Grenville.....	3	Ontario.....	6	Wellington.....	50
Grey.....	2	Oxford.....	15	Wentworth.....	21
Haldimand.....	4	Peel.....	11	York.....	57
Halton.....	13	Peterborough.....	11		426
Total.....					
From Other Provinces of the Dominion					
British Columbia.....	4	Nova Scotia.....	3	Quebec.....	3
New Brunswick.....	2	Prince Edward Island..	3		
				Total from other Provinces.....	15
From Other Countries					
Antigua.....	1	Mexico.....	1	U.S.A.....	5
Bermuda.....	1	Newfoundland.....	1	Wales.....	3
Cuba.....	1	Scotland.....	5		51
England.....	23	South Africa.....	3	Total from other Countries.....	51
Holland.....	1	Switzerland.....	1		
Ireland.....	1	Trinidad.....	1		
Japan.....	2	Ukraine.....	1		
Total.....					492

AGRICULTURAL ECONOMICS DEPARTMENT

Research work was undertaken on problems related to Canning Crops in Norfolk County, Sources of Agricultural Lime, Forms of Tenancy in Ontario, Co-operative Organizations in Ontario and County Analysis Outline.

CANNING CROPS

In the study of the production of canning crops in Norfolk County, one hundred and sixty-three farmers were interviewed regarding the variety and

acreage of crops grown; general organization of the farm; and the particular methods of production followed for individual canning crops. Local farmers growing tomato plants for distribution in the district were visited and finally interviews were obtained with a number of managers of canning and pickle factories. The information obtained is in process of analysis.

A superficial examination of this information reveals a concentration of production of canning and vegetable crops in the area adjacent to the towns of Simcoe, Waterford and Port Dover, following the highway running north and south through Simcoe. This area extends from the highway into the Townships of Townsend, Windham, Woodhouse and Charlotteville.

There is a further concentration about the Town of Delhi in Middleton and Windham Townships. The clay soils of the eastern portions of Townsend and Woodhouse provide suitable conditions for the production of canning peas. This acreage fluctuates considerably from year to year.

There are three main types of farm organization under which canning crops are grown in the district. They differ mainly in the acreage under these crops. One type operates on from seven to ten acres, under intensive methods, producing vegetables and berries for both cannery and market. A second type embraces those farms of relatively large acreage, upward of one hundred and fifty acres. Some of these farms have as much as seventy acres in vegetable crops while livestock makes up the balance with the purpose of soil fertility in view. The third type comprises the twenty to fifty acre farm, which while not so intensive as the small farm, is largely devoted to the production of vegetable crops.

SOURCES OF AGRICULTURAL LIME IN ONTARIO

Soil surveys in Ontario reveal that certain sections would be benefited through the application of lime, and the question arose as to commercial sources and costs of agricultural lime for these sections. Accordingly this Department made a rather close study of available limestone sources, both actual and potential. This survey shows that large amounts of agricultural lime are available, and at reasonable cost, as by-products of a number of companies operating in Old Ontario. Enquiry has also been made as to costs of moving lime from these plants to sections where lime might be used in commercial quantities and the survey gives definite information which will be of assistance in determining an agricultural lime policy for the Province.

FORMS OF TENANCY IN ONTARIO

Questions regarding details of terms of renting farms in various parts of the Province frequently reach the Department. Apparently little is known as to rental conditions and during the summer preliminary information was gathered on the subject. In a majority of cases, tenancy appears to be a step toward ownership, and there does not appear to be a large class of farmers who operate permanently on a tenant basis. However, some ten to twelve per cent. of Ontario farm land is rented, and of the farmers visited approximately forty-one per cent. of the tenants stayed less than four years on any one farm. The survey also shows that cash tenancy is by far the most popular type, and is usually on the basis of rent per acre, the rate varying considerably from section to section in the Province.

Share renting, either on a crop share, or livestock and crop share basis presents many variations. In the crop share renting plan, division of expenses

and returns may be on a 50-50, 1/3-2/3 or 2/5-3/5 basis, depending on the equipment supplied by the tenant, the productivity of the farm, the types of crops grown and many other factors. The livestock and crop share renting also shows variations, but the 50-50 basis is the most common where the landlord supplies both the land and livestock (except possibly the work horses). The landlord also pays half all ordinary expenses while the tenant supplies all labour, including extra labour and board and half the expenses.

CO-OPERATIVE ORGANIZATIONS

During the last few years numerous co-operative organizations have been established throughout Ontario. With a view to finding the status and extent of these co-operative activities a survey was conducted by the Department last summer. In this survey only incorporated co-operatives were listed and it should be borne in mind here that these constitute only a portion of co-operative business in the Province, much additional business being done through shipping clubs, farmers' clubs and numerous other voluntary organizations. At the present time it appears that there are some one hundred active co-operative organizations incorporated under the Ontario Companies Act. This preliminary inquiry only indicates the existence of numerous co-operative business organizations many of which have been functioning for some time and giving efficient service to their patrons.

AGRICULTURAL ENGINEERING DEPARTMENT

DRAINAGE DIVISION

The activities of the workers in the Drainage Division have been largely in the nature of extension. An honest endeavour has been made to meet, as far as conditions would permit, all requests from farmers relative to their drainage problems. Field surveys, inspections, awards and the financing of drainage work make up the largest percentage of the requests received. Several districts interested in securing machines were assisted in this regard.

The exceptionally dry summer and fall does not seem in any way to have decreased drainage activity. Some very outstanding instances of drainage in a dry year giving big returns have been observed. In many cases, the dry weather made possible the drainage of areas which in an ordinary season were too wet to tile.

The general depression and low prices prevailing for farm produce has in some instances been responsible for curtailing expenditures in drainage. The prices of tile have during the year shown some reduction and ditching prices have in most cases been lowered, so that the farmer has been encouraged to undertake anticipated work. Many have also signified their intention to proceed next year.

With permanent field men in different localities, the farmers are gradually becoming more and more familiar with the nature of the service available. Increased demands from year to year are overtaking the possibilities of rendering the necessary assistance in different localities. Frequently the farmer is not willing to proceed until a survey has been made and in several instances machine operators have been delayed waiting for the surveyor. This is particularly true in Western and Southern Ontario, where many machines are operating and the

farmers are doing the work subject to the approval of the field supervisors. It is evident that more assistance must be provided for these districts.

ANIMAL HUSBANDRY DEPARTMENT

The Department of Animal Husbandry operates the College farm which is used for the pasture of the herds and flocks and for the production of feeds. In addition to the regular land fifty-five acres near the College farm has been rented for the pasture of livestock during the past summer.

The different herds and flocks maintained for instructional, investigational and demonstration work have been kept as in the past. Every effort is made to introduce the best possible blood to build up the different classes of livestock. It is our hope to make this farm a source of high-class breeding animals, and we feel that we are having reasonable success in this way.

During the past season close check was kept on the cost of maintaining beef cattle and a table drawn up indicating the relationship of the cost for animals of different ages and sexes figured on the prices of feed for the season 1929-1930.

Intensive study is still being carried on with swine. The fourth test of feeding cross-bred versus pure-bred hogs was carried out during the winter months. As on former occasions all three crosses were fed in comparison with the pure-breds of our three recognized bacon types, and tables have been prepared showing comparative gains in weight and profits over feed consumed per hog. The constantly increasing cost of constructing piggeries has led to experimentation to determine how satisfactorily bacon type hogs can be produced with little more than a shelter from wind and storm during our winter months. No definite conclusions should be drawn from the interesting result observed to date owing to the relatively small number of hogs used but further investigation along this line will be made.

Research was made during the winter of 1929-1930 to ascertain the best method of raising dairy calves and to obtain comparative data on the development and growth of calves fed different protein rations. In the tables that resulted from these observations it was noticed that the greatest gain was made with the calves fed with whole milk. Powdered skim milk was next, then semi-solid buttermilk. This product was used as it was difficult to get a fresh supply of buttermilk regularly. The least gain was made on the calf meals without any dairy products. On the other hand, the cheapest gains were made on the home mixed calf meal. Powdered skim milk was next and the buttermilk was third. It was interesting to note that all the calves were healthy and made reasonable growth so that it would be possible for dairy farmers to use any one of the methods and be assured of their calves being raised successfully.

APICULTURE DEPARTMENT

In the experimental work carried on by the Department now being done on many apiary problems the project "Sealing Honey by Vaccum" has been completed and unless something unforeseen arises it is thought that this investigation has given all the information possible to secure. The results should be of considerable financial gain to the beekeepers of the Province.

In co-operation with the Department of Bacteriology fifty-eight samples of honey comb were diagnosed American foulbrood, eighteen European foulbrood, while seven contained no disease. A total of eighty-three samples were received

during the year. For the Ontario Honey Producers' Co-operative, Ltd., 619 samples of honey were received and graded as to colour and specific gravity as well as sixty samples being received from private beekeepers.

Altogether 115 apiary inspectors were engaged for varying periods throughout the year. There were 3,405 apiaries examined and 51,304 colonies inspected. A total of 3,518 colonies were found to be diseased and were consequently destroyed.

Registration returns for the year show that \$7,742.00 was received as registration fees by the Department or just over one-half the apiary inspection grant. The registration of beekeepers in the Province enables us to secure very valuable information from the application forms. These figures are summarized in January of each year and give us an excellent idea of the amount and value of the honey crop in Ontario. The Province as a whole produces in an average year almost fifteen million pounds of honey with a cash value of about one and one-quarter million dollars.

BACTERIOLOGY DEPARTMENT

The Department in addition to its teaching and research work renders considerable service to the Province in carrying out investigational projects for various government and private bodies. This year sees a large increase in the amount of investigational work done on problems of interest to different industries throughout Ontario. Valuable assistance has been given large growers interested in the florist and cut flower trade who were combating serious bulb diseases. Investigation has been made into much advertised commercial fertilizers with recommendations as to the true worth of the same given to growers. Research projects have been carried on in the dairy industry; the causes of rancid cheese, ropy milk, moulding of print butter, improving butter surface flavour and so forth. Some 90,000 agglutination tests for *Sal Pullorum* were made on poultry blood samples. Bacteria for the inoculation of legumes was prepared and sent out to farmers during the season, and many samples of farm well water were examined and where contamination was found expert advice was given for its correction. This particular matter is worthy of more attention than is being given it on Ontario farms.

One of the most important contributions of the Bacteriology Department each year is the analysis of butter samples forwarded from the Butter Grading Station at Toronto. This year 3,468 analyses of butter samples for yeast and mould content were made. The test further serves as a check on the cleanliness and general efficiency of the creamery in which the butter is made. That the work is greatly appreciated is shown by the figures for analyses for 1928 and 1930. This year shows more than double the analyses on butter samples as compared with two years ago. One of the results of this work is the vastly improved hygienic conditions under which butter is being manufactured all over the Province.

CHEMISTRY DEPARTMENT

Study of soil conditions and analyses of soil samples continues to be the prominent outside activity of the Chemistry Department. This year extensive surveys of soil conditions in Kent and Grenville Counties were made with results that can be of far-reaching importance for the producer if followed. Valuable suggestions are made in numbers of cases, for instance in Grenville County, a

district now given over to producing luxuriant crops of sweet clover and alfalfa, whereby farmers could greatly increase the productivity of their land by including more legumes in their crop rotations.

The work of the soil survey in the field is followed up with exhaustive chemical studies in the laboratory. Investigations of the organic matter content of virgin and cultivated soils of the same type, show that the losses of organic matter and nitrogen are very great when a soil is brought under cultivation. This study leads into the many problems of fertilizers and their suitability for many different types of soil. Immense amounts of money have been saved the farmers of the Province by the researches of this department in the matter of proper fertilizers suitable for local and regional soil conditions. These researches extend to all the various soil structures of all sections of the Province, the best kinds of soil for promoting growth of fruit or vegetable; cereal or pasture-land production; what ingredients these various agricultural products take away from the humus in growing, and the best type of fertilizer needed to replenish the soil to its original fertility. It is a painstaking yet valuable work and one that is rightly being urged to further efforts.

FIELD HUSBANDRY DEPARTMENT

Throughout the year many addresses by different members of the department were given at Farmers' Clubs, Rotary and Kiwanis Clubs and other meetings. Articles for the press were written, an increasingly large correspondence on cultural matters cared for as well as a number of official circulars, some illustrated, were prepared by the Department.

In 1930 there were over 100 distinct projects under investigation at the College, a number of which were being observed for the first time. No single factor is of greater importance in increasing and improving crop production and quality than the variety grown. From experimental work done by this department in 1930 and in preceding years the Field Husbandry Branch is prepared to recommend both early and late maturing varieties of many kinds of crops for the average soil and climatic conditions of Ontario.

Farmer interest in the bean crop continues unabated. This is especially so in the soy bean variety. Questions and correspondence on this particular crop were more numerous last year than ever before. Due to public interest in this crop much time and care has been spent by the Department in searching for improved methods of culture and production of the soy bean. In the average result of the last five years, during which there was a total of thirty-five varieties and strains of varieties of soy beans under test, the O.A.C. No. 211 variety produced an average yield of 25.73 bushels of grain per acre. In the average of another experiment conducted for a period of six years in which twenty-one varieties of soy beans were compared in duplicate for forage production, the O.A.C. No. 211 produced an average of 10.16 tons of green fodder per acre. This was the largest yield of any one of the varieties under test. The O.A.C. No. 211 soy bean is the only variety grown in Canada eligible for registration by the Canadian Seed Growers' Association.

Further valuable research into many such problems as the soup pea value of different varieties of peas, barley and buckwheat mixtures for grain production, hardier varieties of alfalfa, plant breeding investigations with cereal and forage crops has been made with resulting better cultural and production information, which is available to all interested farmers.

NORFOLK COUNTY TURKEY FARM

This year was the most successful in the history of the Turkey Farm. About seventeen hundred and fifty turkeys were raised to a marketable age. The eggs hatched over seventy-five per cent. of the eggs set, and the mortality among the young turkeys from all causes was low. The increased fertility in the main was due to arranging the breeding yards so that the hen turkeys were unable to see the males in adjoining yards. This is an important point to all turkey breeders.

There are three plans of turkey range on the farm. One consists of moving the colony house occasionally over a ten acre field and supplying green feed; another range is taken in a small wood-lot and, roughly, fifty acres of land or where the turkeys have free range; and the third consists of four one acre yards, the birds ranging in a new yard each week, or each yard has a three-week rest between pasturing. The point at issue is a question of the land being contaminated or turkey sick. There is no particular evidence to date that one plan is better than the others where the feeding is similar. High fibre green feed causes losses in young turkeys. Fall rye sown in the spring, and at various times throughout the summer, has proven to be very satisfactory. It has the advantage of being low in fibre, rapid growth, drought resistant, and adaptability to poor soil. The feeding trials in the nutritional laboratory suggest that a turkey feed for starting young poults should not be lower than twenty-one per cent. protein. Low protein rations have given high mortality, slow growth and a generally unsatisfactory condition.

POULTRY DEPARTMENT

The interest in the keeping of poultry on the farm and the number of specialized poultry farms continues to increase each year. There has developed within the Province a gradual but positive increase in the sale of day-old chicks and the one group operators of incubators will have much to do with the quality of poultry kept in the Province. It would therefor appear if we are to maintain and improve the present quality of stock in the Province, some plan of co-operation must be maintained between the Department of Agriculture and the operators of hatcheries. At the moment there appears to be no better method of flock improvement than through the quality of stock controlled by the operators of incubators. This means that there has been a gradual change from natural incubation to artificial incubation and with this change has come large flocks and the need for more information on handling poultry in confinement. Research work is planned in an endeavour to try to solve some of these problems.

Present research projects are mainly of such feeds as fish meal, meat scrap, milk, etc., as they may influence the hatching quality of eggs. There is now available the data of three years' work on this project. Another study is the influence of the four factors; breeding of the birds, feed of the laying hens, season of the year or the amount of sunshine and the physical condition of the birds, on the hatchability of eggs. Several papers in reference to this work are being published. A general Poultry Bulletin of service to poultry people is about complete and will give the practical information of three years' research work on many poultry problems.

TRENT INSTITUTE

During the past year, Trent Institute graduated twenty-nine students and twelve are taking the present course. The Institute is closely identified with the commercial industry, and its students are all apprenticed bakers who have completed at least twelve months practical work in a commercial shop. The students receive practical experience in bread and cake making and experimental work with different ingredients used in baking, and their effect on the finished product is carried out in the Experimental Laboratory. Further objects of the Institute are to create a larger feeling of fellowship and goodwill amongst the students, to provide an exchange of ideas and to improve methods of production, to bring about better co-operation among its members and those of the trade and to show the absolute necessity for the strictest cleanliness and sanitation in all bakeries.

In co-operation with the milling industry chemical analyses, milling and baking tests were made on 740 samples of wheat and flour. The revenue from this work amounted to \$1,317.85. Samples of bread and cake are frequently received from bakers for scoring, instructive criticism and advice as to various problems for which services no charge is made by the Institute.

The Institute is gradually accumulating a valuable collection of books pertaining to the sciences of baking and cereal chemistry and this year sees also improved equipment in new fermentation and proofing cabinets with automatic temperature, humidity controls and cooling devices along with an automatic temperature control for the Experimental bake oven.

ONTARIO VETERINARY COLLEGE

It is gratifying to report that the student enrolment has markedly increased during the past year. For the session ending April 30th, 1930, a total of 79 students were in regular attendance, of which 20 were in the first year, 25 in the second year, 19 in the third year, and 15 in the senior year. Of the senior year 15 were successful in passing the final examinations and were graduated with the degree of Bachelor of Veterinary Science (B.V.Sc.) conferred by the University of Toronto at a special convocation held on April 30th, 1930.

During the present session which commenced October 1st, 1930, a total of 97 students have registered, an increase of 18 over the previous year, of which 36 are in the first year, 19 in the second year, 23 in the third year and 19 in the senior year. The requirements for University entrance are being complied with and less difficulty is being encountered in obtaining candidates with complete high school training and matriculation standing. Students were enrolled from each of the provinces in Canada, as well as from distant parts of the British Empire and from many parts of the United States. The demand for graduate veterinarians is also very encouraging, reflecting an increased interest in the promotion of animal husbandry by conserving the health of farm animals.

An arrangement has now been entered into with the University of Toronto to provide graduate work leading to the advanced Degrees of Master of Veterinary Science and Doctor of Veterinary Science. These degrees are intended as a mark of proficiency in original investigation or of professional eminence and will only be awarded when certain prescribed courses and standards have been met.

In addition to carrying on the most important work of instruction for the training of students, a great deal of research work is also done at the Veterinary College. This is a field of service which offers immense possibilities and when carried farther forward will prove of lasting benefit to the livestock industry. However, with the limited facilities at their disposal the College has made a consistent effort to deal with several projects that required special attention and also to investigate diseases of unusual nature requested by interested persons throughout the Province.

During the year an increasing number of specimens were received for laboratory examination. The increase was particularly noticeable as regards poultry diseases, including blood tests for pullorum disease, parasitic diseases of sheep and swine, diseases of fur-bearing animals, blood tests for infectious abortion in cattle. There is also a perceptible demand from owners and veterinarians to be supplied with vaccines for the treatment of abortion-affected herds, but in these cases only the killed culture vaccines is supplied for this purpose. During the past year 5,300 agglutination tests were made for abortion in cattle, and those concerned were furnished with laboratory reports of the results of the test for their guidance. The occurrence of hemorrhagic septicemia in cattle is causing considerable concern. These losses could be greatly reduced if consignments of feeding cattle were vaccinated against this disease before leaving their original shipping point.

Much of the work carried on during the past year is outlined in a separate report of the College which contains a mass of valuable information. The subjects dealt with are as follows:—

- Cattle Diseases.
- Sheep Diseases.
- Pig Diseases.
- Small Animal Diseases.
- Liver Diseases in Horses.
- Disinfection of Incubators during Hatching.
- Infection in Fowls.
- Parasitism in Animals.
- Other related subjects.

PUBLICATIONS AND STATISTICS BRANCH

The work of compiling agricultural statistics was carried on in co-operation with the federal authorities. The results are published from time to time as completed.

The distribution of the annual reports has been continued and the following are the figures of the numbers printed for distribution:

Minister's Report	5,000
The Ontario Agricultural College.....	10,000
The Experimental Union.....	50,000
Agricultural Societies and Field Crop Competitions.....	10,000
Appendix to Agricultural Societies.....	4,000
Horticultural Societies.....	25,000
Vegetable Growers Association.....	5,000
Ontario Veterinary College.....	4,000
Agricultural Development Branch.....	5,000
Stallion Enrolment Board.....	4,000
Agricultural Statistics.....	15,000
Fruit Growers Association.....	4,000
Entomological Society.....	3,000
Beekeepers' Association.....	4,000
Women's Institute.....	45,000
Total.....	193,000

The following crop bulletins have been printed for distribution:

181 December, 1929.....	20,000
182 April, 1930.....	3,000
183 May, 1930.....	3,000
184 August, 1930.....	3,500

Other bulletins printed for distribution were:

*188 Weeds of Ontario.....	20,000
*300 The Care of Farm Implements and Tools.....	10,000
*304 Infectious Abortion of Cattle.....	3,000
350 The Warble Flies.....	25,000
351 Insecticides, Fungicides and Herbicides.....	10,000
352 Potatoes.....	25,000
353 Rose Culture.....	15,000
354 The Pear.....	15,000
355 The Raspberry and Blackberry.....	15,000
356 Insects Attacking Fruit Trees.....	30,000
Total.....	168,000

Circulars without series number:

Food for the Family.....	30,000
Girls Garment-making Clubs.....	10,000
Weed Control Act.....	160,000

*New editions.

AGRICULTURAL AND HORTICULTURAL SOCIETIES

Nineteen hundred and thirty notwithstanding the depression existing in every country in the world with prices for livestock and farm produce reaching the lowest point in nearly threescore years, reports show that progress has been made in nearly every department of our fairs. More attention is being paid than before to the preparation of animal and farm products so that when they are placed in these "show windows" they prove an attraction to the multitudes who visit our annual Fairs and Exhibitions. Deserving special notice is the progress made in the ladies work, domestic science, art and dairy exhibits which are prepared by the farmers' wives and daughters in every section of Ontario. The exhibits of flowers, fruits and vegetables are becoming a feature of special interest. Fair grounds are being improved and kept in better condition and excellent buildings are being erected particularly for the housing of horses, cattle, sheep and swine. Livestock has been and it is hoped always will be the chief feature of interest at an agricultural society's fair. The main idea behind these exhibitions for the past 150 years has been a purely educational one.

Many new societies are being organized by the pioneer settlers of Northern Ontario. For their encouragement their grant is based on double their expenditure for agricultural purposes. The exhibits at northern Fairs particularly of potatoes, grain and vegetables are of a high standard and reflect credit on the exhibitors who have not all the modern facilities with which to work. New settlers are anxious to improve their stock and the Department is assisting where possible in this connection. Judges attending these Fairs give advice regarding the class of stock suitable to their districts and farmers are beginning to see that it does not take any more to raise a pure-bred animal than it does a scrub, and the financial returns from the former type of animal are much more attractive. Many sections of Northern Ontario are particularly well adapted to the raising of sheep and farmers are going in more for this class of stock.

The system of sending out departmental judges to the fairs throughout the Province seems to meet with general approval. This year application was made for nearly 1,300 judges. Of this number 380 were for ladies' work, domestic science, art, etc. The Short Courses for our departmental judges proved of educational value and have tended to standardize our system.

FIELD CROP COMPETITIONS

Bad weather conditions in sections of the Province, particularly in Northern Ontario, had a detrimental effect on some of our competitions, but on the whole Ontario can boast of as fine crops of grain as it has ever had. In proof of this those who attended the Canadian National, the Royal, the Guelph and the Ottawa Winter Fairs saw grain, clover and potatoes of the finest quality ever exhibited.

Outstanding field crop competitions and the combined field crop and cleaned seed competitions have been a factor in bringing to the forefront this fine quality produce. In 1930, 199 Agricultural Societies held the regular standing field crop competitions and 36 Societies entered the combined field crop and cleaned seed competitions for registered grain, a total of 3,620 contestants entering these competitions from the various Societies in Ontario.

Many of our exhibitors in the field crop classes intend making entry at the World's Grain Show which will be held in Regina in 1932.

HORTICULTURAL SOCIETIES

These organizations have been progressing steadily from year to year and the Ontario Government realizing the work being accomplished has from time to time increased the grant allotted for their support. Previous to 1930 this grant was \$20,000 but the Government recognizing the work being done to make Ontario a more delightful place in which to live and a more attractive place for the thousands of tourists who visit the Province increased the grant to \$40,000.

The maximum grant to a local Horticultural Society is \$500, and 14 societies qualified for this amount in 1930. Eighteen new ones were organized this year. Many meetings were addressed by the lecturer in Horticulture and demands are continually coming to the Department for services of this nature. A number of lecturers are available through this Branch from time to time for this purpose and last year many meetings were addressed by them.

Many of the Branches hold Flower Shows during the growing season and those put on this year were unsurpassed for beauty and excellence of bloom despite the fact that weather conditions were unfavourable in many sections of the Province. The naming of the different varieties shown has proved of considerable educational value, and the judges all reported marked improvement in every department.

The floral displays at the Canadian National Exhibition and the Royal Winter Fair were the best ever staged at these Exhibitions. The premier awards went to the Scarboro Society for displays at the C.N.E.

ONTARIO VEGETABLE GROWERS' ASSOCIATION

This past year, with weather conditions bad and prices for farm produce low, has been a depressing one for the market gardeners of Ontario. Yet splendid exhibits of vegetables were put up at the larger fairs in the Province and the Branch Competition at the Canadian National Exhibition was the best yet staged with more branches represented than ever before. This special exhibit created considerable interest to the many spectators who passed through the Ontario Government Building. Prizes in this class amounting to \$520 were paid by the Canadian National Exhibition Board.

Field Crop Competitions were conducted with the following crops: cabbage, celery, head lettuce, melons, onions, potatoes, staked tomatoes, ground tomatoes and field tomatoes. Competition was keen and the prizes awarded amounted to \$720 in each of the three districts, making a total of \$2,160.

A matter that is being discussed from time to time among the growers and at our conventions is the price offered for canning products in the different sections of the Province as there is a great variation in the prices fixed in the different contracts. This is a matter which it is hoped will be gradually remedied as new marketing methods are worked out by the Department. It is felt, however, that a standard for prices as well as for grades should be amicably arranged with all concerned.

A new line of work which is being developed and which is resulting in financial gain not only to the grower but also to the consumer is the growing of mushrooms for which there is an excellent market in Ontario. Many new

mushroom houses have been built in the different districts this year. Increased production of this crop has lowered the cost to the consumer by over fifty per cent. and as a result of protection, few mushrooms are imported into Canada.

ONTARIO PLOWMEN'S ASSOCIATION

Up-to-date cultural methods are being much more widely adopted by Ontario farmers. The manufacturers and business men in general have caught the spirit of this forward movement and through the various agricultural associations are assisting in making such educational institutions of real benefit to all local communities. No difficulty has been experienced in securing necessary financial assistance to further the activities of these organizations thus far. Perhaps one of the most progressive of these institutions is the Ontario Plowmen's Association. Since its inception it has gone forward rapidly and every succeeding year shows a marked advancement in all lines of work it has undertaken. New branches have been organized this year and now 67 operate in different sections of the Province. Each branch holds a plowing match in the fall and at each one the attendance and entries have shown an increase.

Demonstrations and Short Courses in Plowing are held each year in a number of the counties where expert plowmen train and coach boys and give them a good grounding in this important phase of farm work. These classes are largely attended by both young and old.

Perhaps the most important gathering in the interests of farmers is the International Plowing Match and Farm Machinery Demonstration which is staged in October of each year in a different section of the Province. Last year's event held in the County of Perth, near the City of Stratford, exceeded both in attendance and entries that of any other ever held before. The several hundreds of acres of land selected and arranged for by the local committee was ideal for the purpose. Some 445 plowmen entered the different events and upwards of 100,000 people were in attendance during the period of the demonstration.

LIVE STOCK BRANCH

SHEEP EXTENSION WORK

The Live Stock Branch through the sheep club policy inaugurated in 1928 has continued to organize new clubs and to give supervision through the year to the clubs formed in 1928 and 1929. There has been organized up to date fifty-one sheep clubs in twenty-four counties, with a total membership of 636. To each of these members was given a flock of five ewes and a ram. Returns are made to the Department over a period of four years as repayment for the original flock given. The ram is supplied by the Department for two years, after which the flock owner must supply his own ram. As these flocks are placed on farms where sheep have not been kept the members at the beginning are very inexperienced in sheep raising, with the result that supervision of the flocks and education of the members is of utmost importance.

The following table shows the clubs organized during the last fiscal year:

County	Name of Club	Number of Members
Bruce.....	Tiverton.....	11
Grey.....	Owen Sound.....	15
Halton.....	Halton Sheep Breeders'.....	13
Huron.....	Colborne.....	11
Hastings.....	Maynooth.....	10
Ontario.....	Scugog Leicester.....	3
Peterborough.....	Keene Junior Farmers'.....	10
Perth.....	Dublin.....	18
Port Arthur.....	Port Arthur.....	13
Rainy River.....	Rainy River.....	13
“.....	Crosier.....	9
“.....	Mather.....	8
Renfrew.....	Cobden.....	22
Kenora.....	Eagle River.....	14
“.....	Minnitaki.....	11
“.....	Oxdrift.....	14
“.....	Quibell.....	11
Welland.....	Humberstone.....	11
Wentworth.....	Beverley Township.....	11

MARKET LAMB FAIRS

In sections where sheep raising is of prime importance and where it was felt educational and extension work could be done to good advantage this work was carried on, and as a final demonstration of market requirements market lamb fairs were organized and competition was open to anyone. Fairs were held at Westport, Markdale, Kenilworth, and St. Joseph's Island. At each of these fairs anywhere from 100 to 400 lambs were marketed.

Generally speaking, sheep breeding in Ontario during the past year has suffered from a decline in prices, and interest in sheep improvement has been necessarily more difficult to stimulate. Prices for wool have gone to remarkably low levels, and prices on market lambs have dropped approximately four cents per pound from 1929 levels. The American Trade, which usually absorbed

considerable numbers of pure bred sheep from Ontario, fell off during the past year, and in order to assist in taking care of the available supply of good pure bred rams the Dominion and Provincial Departments co-operated in placing pure bred rams under a bonus policy in the following counties and districts: North Simcoe, South Simcoe, Dufferin, Bruce, Wellington, Algoma, Grey. Under this policy about 200 rams were placed. The use of these rams should do much good in building up the quality of the sheep in the sections where they were placed.

THE DOG TAX AND SHEEP PROTECTION ACT

The administration of this Act has in the main been under the Live Stock Branch. During the past year twelve appeals have been received and the following counties have been represented: Hastings, Simcoe, Middlesex, Norfolk, Brant, Perth, Frontenac, Nipissing, Oxford, and Renfrew. With appeals being received from such a wide range of territory, it is evident that the Dog Tax and Sheep Protection Act is being of service to sheep breeders throughout Ontario.

EXHIBITIONS

The exhibits of sheep at all the leading shows during the past year have been up to a very high standard. Entries were never heavier and the quality of Ontario's sheep is well illustrated by their winnings in competition with outside provinces and outside countries. At the 1930 Royal, Ontario was successful in winning first and second prizes in the Interprovincial Carlot Competition. At Chicago where the Ontario Department assisted the Ontario Sheep Breeders' Association in making a Provincial exhibit of sheep, exhibits were made in Cotswolds, Lincolns, Oxfords, Shropshires, Southdowns, and Dorsets. In the long wool breeds Ontario breeders carried everything before them. In Oxfords, Shropshires, Dorsets and Southdowns, five Ontario flocks competed and stood well up in the prize money. Col. Robt. McEwen & Sons of London were successful in winning the Grand Championship for the best carlot of fifty market lambs at the show.

BACON HOG CLUBS

This policy originated in 1922 has been continued during the past year with supervision given to clubs already in existence and where needed new clubs were organized. Owing to the comparatively high price of hogs as related to the cost of grain there has been a great revival of interest in hog production during the past year. Twenty-six new clubs were formed during the fiscal year 1930. During the year forty-nine boars were purchased from breeders and these were delivered either freight or express free to the nearest shipping station of the club.

In connection with the improvement work in bacon hogs the Ontario Live Stock Branch co-operated with the Dominion Department of Agriculture in the selecting and placing of 321 young bacon type sows in various districts throughout the Province. The Ontario Department paid the freight or express charges, as the case might be, in the distribution of these animals. Through the Agricultural Representatives bacon hog clubs were organized in the districts where the sows were placed, and good sires were sent so that these good young

sows might be bred with the idea of improving the standard of our bacon hogs in the districts.

The standard of Ontario hogs is steadily being improved as evidenced by the fact that Ontario was successful in winning the Interprovincial Carlot Competition at the 1930 Royal Winter Fair.

BACON LITTER COMPETITION

This competition which was organized in 1929 has again been held in 1930 through the co-operation of the Dominion Live Stock Branch and the Live Stock Branch of the Province of Ontario. The Province was divided into five districts for the purpose of this competition. The following prizes were offered in each district: 1st, \$25; 2nd, \$24; 3rd, \$23; 4th, \$22; 5th, \$21; 6th, \$20; 7th, \$20; 8th, \$15; 9th, \$15; 10th, \$15; 11th, \$15; 12th, \$15; 13th, \$15; 14th, \$15; 15th, \$15.

This competition has as its object the establishment of a standard of excellence for grade brood sows kept by farmers. It is recognized that brood sows which are prolific and rear large litters of select bacon hogs, are good feeders, making good gains at a low cost, and are valuable as improvers of commercial hogs. This competition aims to give such sows prominence as breeders in their respective communities in the hope that their female progeny will be selected as foundation brood sows for the district.

Competition was open to any bona fide farmer. The date of farrowing has to be between March 1st and June 1st.

The following table briefly summarizes the results of the competition:

District	Total Entries	Number of Entries Completing Competition	Total Number of Hogs Marketed	Total Number of Selects	Per Cent. of Selects	Average Weight per Hog	Average Age in Days
District No. 1.....	24	17	81	46	56.8%	208.7	198.8
District No. 2.....	24	14	108	66	61%	208.8	188.7
District No. 3.....	23	17	155	92	60%	205.9	173
District No. 4.....	22	12	84	52	62%	210.9	177
District No. 5.....	22	17	172	106	61%	206.4	183
Province.....	115	77	600	362	60.3%	208.1	184.1

LIVE STOCK IMPROVEMENT

This work which is necessarily slow has been constant with the result that during the past fiscal year the counties of Dufferin, Middlesex and Brant have by by-law proclaimed themselves Better Bull Areas. This now makes eight counties in the Province, namely: Bruce, Perth, Oxford, Wellington and Peel, together with the three aforementioned counties, that now have at least 80 per cent. of the bulls within the county pure-bred.

In connection with this work the Live Stock Branch has assisted county live stock improvement associations in the work of eliminating poor bulls by granting a bonus of 20 per cent. on the cost price of pure-bred bulls going to farmers who never previously owned a pure-bred sire. The following table summarizes the assistance given:

County	Number of Applications for Bonus	Amount of Bonus
Bruce.....	44	\$1,072.40
Carleton.....	3	97.00
Durham.....	11	295.00
Essex.....	1	20.00
Hastings.....	1	40.00
Lambton.....	17	639.50
Lennox and Addington.....	7	152.00
Middlesex.....	29	772.20
Peel.....	14	328.20
Perth.....	23	502.00
Prince Edward.....	19	369.00
Peterborough.....	5	123.50
Wellington.....	20	468.20
	194	\$4,879.00

In Northern Ontario the Live Stock Branch has continued to assist farmers in securing good bulls by paying a grant of 30 per cent. of the purchase price of pure-bred bulls, together with the freight charges. The following tables show this work during the fiscal year ending October 31st, 1930:

TABLE SHOWING BULLS BY BREEDS

Breed	Number of Bulls Purchased	Total Purchase Price	Average Purchase Price
Ayrshire.....	21	\$2,118 00	\$100 86
Hereford.....	9	1,355 00	150 55
Holstein.....	14	2,155 00	153 93
Shorthorn.....	69	8,642 00	125 25
Jersey.....	1	140 00	140 00
Red Poll.....	1	80 00	80 00
	115	\$14,490 00	\$126 00

RESTRICTED AREAS

The educational work among the farmers of Eastern Ontario in connection with restricted areas for the eradication and control of tuberculosis in cattle is now being brought to a successful conclusion. Work in testing cattle has been going on by the Dominion Health of Animals Branch in the counties of Glengarry, Prescott, Stormont, Russell, Dundas and Carleton.

The following table summarizes the results up to the week of December 17th, 1930:

County	Herds	Total Cattle	Total Reactors	Per Cent. Reactors	Infected Premises	Compensation
Glengarry.....	2,215	34,782	1,628	4.5%	515	\$54,602 00
Prescott.....	2,210	34,737	1,628	4.6%	640	52,943 66
Stormont.....	1,992	33,033	3,391	10.2%	760	122,578 33
Russell.....	1,388	25,745	1,819	7.6%	425	60,137 00
Dundas.....	219	3,522	624	17.7%	131	22,822 00

The Ontario Live Stock Branch has arranged for the transportation of the Dominion Government Veterinarians in their work of testing.

During the past year the farmers of Manitoulin Island who have petitioned for restricted area have had their wishes met and the results of the initial test work up to November 26th, 1930, has been as follows: Number of herds, 1,227; total cattle, 17,972; total reactors, 220; total compensation allowed, \$7,280; number of infected premises, 65.

ONTARIO PROVINCIAL WINTER FAIR

The Ontario Provincial Winter Fair was held December 9th to 12th, inclusive, 1930. The Fair was successful from the standpoint of entries and exhibitors, but owing to exceptionally cold weather the attendance was not all that could be desired. As a result the gate receipts suffered considerably. Alterations were made during the year to provide more and better seating accommodation for the public.

ONTARIO PROVINCIAL WINTER FAIR, GUELPH SUMMARY OF ENTRIES AND GATE RECEIPTS, 1920 to 1929

	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
Heavy Horses.....	256	286	225	191	254	146	225	240	274	251
Light Horses.....	44	50	51	35	32	43	194	252	336	380
Beef Cattle.....	312	367	387	317	305	280	257	312	226	304
Beef Carcasses.....							11	5	15	12
Dairy Cattle.....	74	101	99	87	38	88	40	26	44	58
Sheep.....	536	716	768	581	424	408	419	398	398	527
Sheep Carcasses.....	96	121	179	112	81	96	100	99	81	102
Wool.....	40	43	54	42	41	40	38	35	30	27
Swine.....	301	287	391	273	153	184	199	173	146	198
Swine Carcasses.....	34	33	34	34	45	48	63	42	39	39
Seeds.....	291	282	295	308	372	334	262	211	220	290
Fowls.....	3,918	4,154	3,817	1,570	794	1,297	1,423	1,437	1,194	1,187
Turkeys and Water Fowl.....	367	441	372	458	359	456	383	408	415	391
Pigeons and Pet Stock	587	715	763	378	247	227	261	308	282	348
Dressed Poultry.....	186	277	273	290	145	177	111	150	113	.....
Gate Receipts.....	\$7,984	\$6,202	\$5,286	\$2,826	\$2,813	\$2,081	\$3,685	\$4,944	\$5,200	\$3,591

LIVE STOCK EXPOSITION WINNINGS AT CHICAGO, ILL., 1930

Ontario was represented in the Shorthorn classes at the 1930 International Show at Chicago by four Ontario exhibitors, namely: Bruce A. McKinnon, of Hillsburgh; F. H. Deacon, Unionville; T. A. Russell, Downsview; and Jonas Bingeman & Son, Waterloo.

In addition to the many prizes won at this show, Col. F. H. Deacon was successful in winning the grand championship in the Shorthorn steer class with his very excellent steer, "Tam O'Glenburn." This steer was later made reserve grand champion of the show. The following is a note of comment from *The Shorthorn World*, of December 10th, 1930:

"Tam O'Glenburn, grand champion Shorthorn steer over all breeds at Canadian Royal Exposition and Reserve Champion over all at the International Live Stock Exposition. He was considered the most acceptable breed contestant seen in years and was favored by many for the grand championship of the International. He was sold after the Toronto show for \$1.00 per pound to the Robert Simpson Company of Toronto. He was bred and exhibited by Col. F. H. Deacon, Unionville, Ontario. He was sired by Edelyn Favorite, a grand champion at Canadian shows and at the 1929 International."

ASSISTANCE TO AUCTION SALES OF PURE BRED LIVE STOCK

During the year ending October 31st, 1930, assistance has been given to thirteen local associations that have held auction sales of pedigreed cattle. A total of 430 head passed through these sales and the total financial assistance given by this Department amounted to \$1,412.50. Of this amount \$72.50 was given to three associations that held shows of the cattle which were offered for sale and paid prize money on the awards. This method of selling cattle among our dairy cattle men is giving way to another form of marketing, which is through a county fieldman, whose services are available to buyers at all times. There has been a decrease in the number of cattle being sold through club sales during the past few years. This is probably due to the trying conditions of the business. The following is a summary from the order-in-council under which assistance is given to these sales:

“An allowance of \$4 per head is made for tested cattle, providing all cattle at the sale have successfully passed the tuberculosis test and that an affidavit is taken by the contributors to the sale that their herds are free from contagious abortion and other infectious and contagious diseases. The maximum grant in such cases is \$150. In sales where the cattle are not all tested for tuberculosis, but are free from abortion or other infectious diseases, the grant remains at \$3 per head with a maximum of \$100 for any one sale.”

CO-OPERATIVE CAR SHIPMENTS OF LIVE STOCK

As a service to breeders of pure-bred stock in Ontario in enabling them to market their animals in Western Canada, the Live Stock Branch maintains a service known as our co-operative car shipments, whereby, when sufficient stock is sold to purchasers in Western Canada, this stock is assembled, shipped west, and distributed to the purchasers. This service is appreciated not only by our Ontario breeders but by western buyers.

STALLION ENROLMENT

During the season of 1930, there were 1,200 stallions enrolled. 162 carrying A1 Certificates; 359 Approved Form I; 557 Passed Form I; and 122 Defective Form 2 certificates. Cash premiums under the Federal-Provincial Policy amounting to \$12,870.00, were paid by the Ontario Department of Agriculture to the owners of 116 stallions on account of their season of 1929.

LOCAL POULTRY ASSOCIATIONS

Local Poultry Associations received assistance from the Department through the supplying of judges, lecturers and grants to associations during the fiscal year, November 1st, 1929 to October 31st, 1930:

Number of Associations holding a show during the fiscal year.....	32
Number of Poultry Judges supplied.....	32
Number of Lecturers supplied.....	10
Total amount of grants paid to Local Associations.....	\$1,390 00
Total expenditures in connection with Judges, Lecturers, etc.....	1,081 48
Total expenditures in connection with the World's Poultry Congress.....	3,621 57

INSTITUTES BRANCH REPORT

The educational efforts, social activities, and community service undertakings of the Women's Institutes has maintained a high standard throughout the year. In fact, in many of the 1,150 branches there seems greater enthusiasm as the years pass and the field of work is gradually broadening, while the essentials, efficiency in housing, feeding and clothing, receive due consideration. At a meeting of thirty-eight rural women's organizations, representative of twenty-eight countries held in Vienna in late May, 1930, reports of activities, survey of needs and outline of possible programmes were presented. In a report of the proceedings, those responsible have copied the programme of the standing committees as outlined for Ontario, as well as a summarized statement of work carried on. This is a great compliment to the women of this Province, and the far-sighted policy they have laid down for their own organization.

WORK OF STANDING COMMITTEES FOR 1930

Health Days, Short Courses in First Aid and Home Nursing, medical and dental clinics have been features of the activities of the *Health* programme. Crippled children have been assisted, also needy maternity cases. Literature, layettes, and loan baskets have been distributed where needed; milk supplied to undernourished children and First Aid Kits and Sanitary equipment to schools. The general aim of the branches is the prevention of disease and the achievement of efficiency through education for health.

In *Home Economics* all matters that have to do with foods, cooking, sewing, house planning, furnishing, and general management of the home and family continue to be a primary interest of the Institute Branches.

In *Education* it is felt steady progress is being made. Branch programmes are more carefully planned to balance the cultural, practical and social in the effort to bring out the talent of members as well as to hear outside speakers with special qualifications. Considerable use was made of the Travelling and Packet Loan Libraries. Music in the schools has extended in some cases to cover whole counties. Choral clubs and district musical festivals, debates, plays, lectures and lantern slides broaden the outlook and provide recreation.

In *Agriculture*, the members endeavour to increase the productivity of the farm by fighting the weed menace, encouraging the selection of clean seed and by better grading and marketing of produce. Members also carry on various side lines, such as turkey raising, egg production, bee-keeping. Poultry feeding, culling and dressing have been improved. Incomes are augmented by the production and sale of flowers, vegetables, canned chicken, meats, jams, jellies, and hand-made rugs.

Relief. The Branches generally are making enquiries as to cases of need in the territory covered and are liberal in meeting the wants of individuals and families and are helping to support hospitals, childrens' shelters, and homes for the aged by contributions in money and supplies. Their contributions are mostly in goods, although considerable sums of money have been collected and distributed to organizations and institutions in need.

In *Community Activities*, the Institutes follow activities and interests suited to the needs of their own communities. These activities often result in tangible

form such as community halls, beautified cemeteries, memorial parks, statues, the building of flower plots and so forth. That their interest is lasting in these projects is evidenced by the care and work put on them to keep them in the very best of appearance.

Canadian Industries. The women of the Institutes are becoming more and more interested in the comparative values of Canadian made products and of imported articles; this applies not only to dress goods and house furnishings but also to utensils and food products. The instructors endeavour to show how Canadian grown and manufactured products can be utilized to care for nearly every need of the Canadian consumer. As a result of these and similar activities elsewhere the women of rural Ontario are asking more and more for Canadian products.

DEMONSTRATION LECTURE COURSES

While the average number of women and girls who have taken advantage of the Demonstration Lecture Courses in Foods and Cookery, Home Nursing and First Aid, and Sewing have averaged nearly nine thousand for the past five years, the attendance at courses held under the auspices of the Women's Institutes showed a slight falling off during 1930.

In most communities very few of the farm women can take time from their home duties to attend regular classes every afternoon for two weeks, so plans are being made to give shorter courses of two, three, or four days at each centre in Nutrition, Health, and Sewing.

Nutrition: Lessons on Vegetables, Fruits, Eggs, Milk, Cereals and Cheese, Meat, Meat Substitutes, Bread, Biscuits, Desserts and Salads with leaflets on the Classification of Foods and Food Facts are provided for all members of the Nutrition classes.

Home Nursing and First Aid: General instruction in the utilization of the equipment at hand in a rural home to properly care for a patient is given. The treatment of fractures, sprains, etc., as well as proper care for maternity cases is included in the course.

SUMMER SERIES OF MEETINGS

During 1930, 780 meetings in the Summer Series were held with a number of the branches conveniently located holding joint meetings. The staff of lecturers are given the advantage of a conference at which the activities of the Institutes throughout the Province are reviewed, effective methods of carrying on considered, and the services available from outside sources outlined.

The subjects dealt with by the lecturers include health, foods and cookery, agriculture for women, programme planning, housing, clothing, schools, Institute methods and community activities of particular interest to rural women.

DISTRICT ANNUAL MEETINGS

The Province is divided into one hundred districts and in each the annual meeting of the district is held in June, when representatives from the various branches report upon their activities, elect district officers, survey the possibilities in the work, make recommendations as to programme, and arrange for

co-operation with school fairs, fall fairs, the schools, childrens' shelters, hospitals, homes for the aged, and so forth.

ANNUAL CONVENTIONS

One of the major developments of the past few years has been the holding of conventions at a number of centres throughout the Province, when representatives from the branch and district organizations meet to present reports on the activities of the preceding year, to consider the needs and possibilities of the area covered, and to hear of the services available from outside sources. Such conventions were held at Monteith, Fort Frances, Sault Ste. Marie, Mindemoya, Huntsville, Harriston, Kingston, Ottawa, London, Hamilton, Belleville and Toronto during 1930 with an aggregate attendance of 3,500.

JUNIOR INSTITUTES

There are 85 Junior Institutes with a membership of approximately 1,800. The Junior Institutes are organized in a similar manner to the Senior Institutes but feature programmes of special interest to girls. Most of the girls take part in county activities sponsored by the local office of Department of Agriculture and co-operate with the Junior Farmers in carrying on joint programmes, local and county projects. Regular meetings afford the girls an excellent opportunity to study and receive training for their duties as home makers and community leaders.

JUDGING COMPETITIONS

Fifty-two counties and districts took advantage of coaching classes provided through the Institutes Branch during the past year. The County Agricultural Representative, co-operating with local institute branches, arranged for groups of girls and women to meet with an Instructor to study Nutrition, Home Furnishing and Clothing. At the conclusion of the classes a county competition was held at a central place in the county where the girls apply the information received in coaching classes in judging menus for pre-school children, school lunches, farm living rooms, kitchen plans, formal costumes and county girls wardrobes. 1,800 girls and women took part in these competitions during the year.

GARMENT MAKING CLUBS

The Garment Making Club is an organization through which girls may learn the elementary steps in sewing. A local woman efficient in sewing acts as leader and teacher for a group of girls from ten to sixteen years of age, or sixteen to twenty years for second year work.

GIRLS' CONFERENCES

A three-day conference was held at the Kemptville Agricultural School for forty-seven girls from adjoining counties. The various school departments

co-operated in every way to give the girls valuable information on subjects of special interest.

Some of the subjects considered were: Home Economics, Health Rules for Girls, Nutrition Facts, Business Forms, The Four Square Development, Home Beautification, Textiles, Recreation, Interesting Places and People in Europe.

Four one-day County Conferences were held during the summer in the following counties: Haldimand, Halton, Oxford, and Simcoe.

THE ROYAL PARTY

The privileges of a Royal Trip to Toronto during the time of the Royal Winter Fair was extended to 260 farm girls by the Department of Agriculture for the first time this year.

The girls were selected according to the standing taken in the County or District Household Science Judging Competition, and were from sixteen to twenty-six years of age inclusive, resident on the farm, single and not a graduate of or attending a Normal School, Domestic Science School or University. It is hoped to make this feature an annual event henceforth.

THE T. EATON CO., LTD., SCHOLARSHIPS

The T. Eaton Co. gave Five Hundred Dollars (\$500.00) in scholarships for girls to be used in defraying expenses for a regular course at MacDonald Institute, Guelph.

One contestant in each subdivision earned a scholarship of one hundred dollars (\$100.00) by obtaining the highest marks in her group on an examination based on the trip to the Royal and coaching class programme.

MEETING FOR FARMERS

The Institutes Branch furnishes speakers for a variety of agricultural meetings and short courses arranged for by the agricultural representatives. During the past year speakers were provided for meetings covering poultry raising, dairy farming, potato growing, fruit and vegetable growing. Special speakers were also provided for Short Courses in the North Country covering seed production, dairying, poultry raising, veterinary science and sheep raising.

REPORT OF FRUIT BRANCH

After the disastrous season of 1929 among fruit growers generally, and the equally disastrous season of 1930 for so many of the general farm crops, it is a pleasure to record a much more favourable year on the average for the Ontario fruit grower. Prices on fruits did not reach the low levels of other produce and in some fruits, particularly apples, a distinct improvement has been noted, even to the extent that in some sections plans are now being made for further plantings.

The most serious trouble during the season arose as a result of the extreme drought in the southwestern part of the Province, particularly in the Niagara peninsula. Orchards on the heavy soils produced a large percentage of small fruits of second grade. Despite the increase in the acreage of vineyards, the production of grapes did not exceed the low figure of the previous season, viz., 50,000,000 pounds, which was in itself 20,000,000 pounds short of the season of 1928. While the dry weather seriously reduced the quantity of grapes, the quality was excellent with high sugar content. Strawberries did not suffer to the same extent as raspberries as showers were frequent up to the start of picking.

From the first week of July until the end of the season, only occasional light rain relieved what was undoubtedly one of the driest seasons in years. In the southwestern counties, east of Toronto and in the Georgian Bay district conditions were much more favorable. The dry season produced a very fine quality apple on the orchards with a sand or light loam soil. Baldwins from such orchards in the Lake Erie section were of exceptionally good quality and finish.

SPRAY SERVICE

Outside of the services of our Agricultural Representatives, there were men engaged in the actual work of directing the orchard spraying operations during the past season. Supervision was given from the Agricultural College through Prof. Caesar and Prof. Howitt, while the Vineland Experimental Station staff directed operations in the Niagara peninsula. A more limited service was also given from the Kemptville Agricultural School for the surrounding territory and from the Ridgetown Experiment Station for the southeastern counties of Essex and Kent. In this way, the service was available for all of the counties extending along the shores of Lakes Ontario, Erie and Huron, and the Georgian Bay, and inland to cover the counties of Brant, Oxford, and Middlesex.

The spray calendars were revised and brought up to date, with separate editions for apples and the other fruits, and a special calendar to cover the care of grapes in the Niagara peninsula issued from the Vineland Station. Thousands of copies were distributed through the Agricultural Representatives as well as at the various winter meetings of fruit growers.

Among fruit farmers at least, there has been no work of the Department that has appealed more to them than the spray service. The continued visits of practical men who can and do get out into the orchard and from the top of the spray machine, show the owner just how his trees should be treated does get results. There is nothing compulsory about the service. If a man does not want to follow instructions as to materials to use, times of application

and methods to follow, the supervisor simply drops him from his list and has that much more time to spend with the next man.

PACKING HOUSES

Several years ago the Department of Agriculture under an Act known as the Fruit Packing Act, provided assistance for the erection of central packing houses and dry storages. It was felt that a much better grade of any kind of fruit could be put up where the grading and packing were carried out under cover and by a properly supervised body of packers working with modern equipment.

The general requirements of the Act were that at least ten growers owning a hundred acres of orchard by banding themselves together could acquire or erect buildings suitable for a storage and packing plant. The Department would assist by paying 25 per cent. of the cost up to \$1,500.00. Since 1922, the date of the Act, only four plants were acquired by such Associations, despite their already proven value. Apparently some further movement was required to encourage central packing and during the past season this was attempted in different ways at three points.

For over twenty years, the Norfolk Fruit Growers' Association has had an enviable record for its successful operation as the largest co-operative apple shipping organization in the Province. One of the packing houses erected under the Fruit Packing Act, at Vittoria, belongs to this Association, and a portion of their apples have always been packed in their fruit shed at Simcoe. However, the great percentage of the fruit was put up in the orchards and shipped out as quickly as sales could be made or to cold storage at various points.

Satisfied that, as the result of changed conditions and increasing competition both at home and abroad, central packing, precooling and cold storage were essential, the management asked assistance from the Government for the erection of a modern cold storage plant adequately equipped for handling, box, hamper or barrel packing. A grant of approximately 30 per cent. of the estimated cost of the building was promised, which was supplemented by a similar grant from the Federal Department of Agriculture under the Cold Storage Act. The building was finished in time to handle the Transparent and Duchess apples, and proved a success right from the start.

MARKETING

Continuing the work of former years the Department has again co-operated with the Fruit Growers' Association in aiding export marketing. No one can estimate the value to the Province of having some one familiar with conditions abroad and ready to take advantage of any opportunity that arises to market our products to advantage. Fruit crops in Europe are just as variable as in America. Some years there is an unexpected failure in certain fruits which opens up a good market for Ontario. Next year this market is closed and it would be folly to attempt to export.

The season of 1930 was no exception. Our Commercial Representative found that English crops of soft fruits and cooking apples were good, that heavy exports of American pears were depressing the markets, and that prospects for good prices on plums were not favourable. On the other hand, red apples were in good demand at good prices both in Great Britain and the Continent.

As a result of his findings, growers were urged to be cautious in exporting pears or plums and to hold back green varieties of apples like Stark and Rhode Island Greening. Only a few cars of pears and plums were shipped, but over 200 cars of apples found a satisfactory outlet through our agent up to the end of December. Prices on Greenings improved rapidly after the 1st of December and Starks are now reported to be in active demand.

PROPER DISTRIBUTION MEANS BETTER PRICES

With a Representative on the spot, who is constantly in touch with market conditions, it is possible to cable to growers through our Toronto office, shipping instructions from time to time, advising the correct varieties, sizes and grades to ship, and the destination port promising the best values. By directing shipments to their proper markets, it has been demonstrated that from 2/- to 6/- a barrel has been saved the shipper. For example, shipments of Blenheims this season sent to Glasgow by independent shippers fetched 22/- No. 1 grade, while same variety, directed to a highly specialized Blenheim market in the south of England, made from 26/- to 28/- a barrel. Many such examples could be cited.

REPRESENTATION HAS REDUCED SELLING CHARGES

Since the establishment of Commercial Representation, shippers have received full benefit of spot sale terms. Formerly, only very large shippers obtained this privilege and then only when they were in a position to fully finance themselves. Under present arrangements, with the Representative looking after the growers' interests, the lowest selling terms available are secured, amounting on most markets to five per cent. commission and handling charges at cost (7d. per barrel at Liverpool and 6d. per barrel at Glasgow), where formerly commission sometimes amounted to seven per cent. and handling charges as high as 1/10d. and 2/- a barrel.

GOOD CASH SALES ON THE CONTINENT

Apple markets vary from year to year, according to crop conditions in foreign countries. With a Commercial Representative on the spot, it is possible to follow closely the market conditions and effect sales providing sufficient organized tonnage is guaranteed. For example, there was a shortage of apples on the Continent this year and realizing this fact, the Representative made a special visit to France, Belgium and Holland at the beginning of the season in order to meet the buyers and to outline the object and purpose of an Ontario organization, with the result he returned with orders for Ben Davis and Baldwins amounting to 20,000 barrels. Of this amount, 12,500 barrels have been actually sold and confirmed by Ontario shippers. The price obtained has been about \$3.60 f.o.b. Ontario points. Since confirming these sales, the Commercial Representative received further orders amounting to 30,000 barrels, making a total of 50,000 barrels that could have been sold at shipper's prices if the apples had been available. There is no doubt that organized selling attracts buyers, as it greatly facilitates business transactions.

ADOPT A PROVINCIAL MARK

With Government controlled packing houses, it is equally important to establish a recognized Provincial Mark that denotes quality and uniformity. This would eliminate the numerous shippers' brands of varying and doubtful quality that exist to-day and greatly facilitate distribution. It is of interest to note that every buyer that the Representative came in contact with this season, and in previous seasons has requested his shipments to be packed under one brand. The United Kingdom buyers are continually asking why the Newcastle pack is not being put up under one brand, as it would greatly add to the selling prices of the apples. With one dependable mark, it would be much easier to sell and advertise Ontario apples. The Representative would urge that a real live attractive brand be established before another shipping season and prominent publicity given to the advantages of its use, so that growers can become familiar with the scheme.

PRECOOLING EARLY APPLES WILL ASSURE GOOD PRICES

With the continuance of the British embargo against American lower grade apples—which means the keeping out of the United Kingdom markets of approximately eighty per cent. fruit usually shipped between August 1st and November 15th—there should continue to be a good demand for Ontario early apples. Such varieties as Duchess, Wealthy, Alexander, etc., are plentiful in Ontario and are greatly in need of a market. It has been demonstrated this season that these varieties, if properly packed, precooled and shipped under refrigeration, will reach Great Britain in excellent condition and sell at satisfactory prices. For instance, precooled and refrigerated Norfolk Duchess reached Glasgow and Liverpool in early September in splendid condition and sold at 28/- a barrel. Wealthy fetched 26/- to 28/- a barrel, while these same varieties handled in the ordinary manner arrived slack and off condition, fetching very low prices.

HORTICULTURAL EXPERIMENT STATION

The activities of the Station are discussed, as in previous reports, under the three main headings, Research and Experimentation, Plant Breeding, and Extension. In this report two or three projects have been dealt with in some detail as the results obtained seemed to warrant such treatment. Other projects are mentioned only briefly, and still others previously discussed at some length have been omitted entirely.

RESEARCH AND EXPERIMENTATION

Raspberry Soil Fertility Studies.—For some time past it has been felt that we should have more reliable information on fertilizers for the red raspberry. Growers use fertilizers more or less blindly. Various recommendations are made by experiment stations and by those interested in selling fertilizer. Sometimes the results are beneficial but more often than not no noticeable results are obtained, with consequent loss of money and also loss of faith in the use of fertilizers. That fertilizers do have a place in growing raspberries under some conditions seems to be conceded by most good growers but just what to use is

not always clear. Hence from the above considerations it was thought advisable to plan some experiments on the use of fertilizers for this crop and so a block of raspberries was set out for the purpose last spring (1930). In general, the plan is to apply the three main fertilizer elements, nitrogen, phosphorous, and potash singly and in combination, on different sections of the experimental block; each section to contain the same number of plants and records to be kept of individual plants in each section. The sections will be run in duplicate and as experiments on cultivation are to be included, four sections for each fertilizer treatment will be needed. The main part of the experiment will occupy about one acre, while a secondary part involving the use of fertilizers together with the use of straw mulch during the winter will occupy another half acre. In all about 1,800 plants will be used of which about 700 will be used as check and buffer plants. This type of experiment will call for much detailed work and also chemical analyses of the soil and considerable team work between several members of the station staff. It should be carried on for at least five years.

Sweet Cherry Transplanting.—Of all the tree fruits the sweet cherry tree seems to give the poorest stand after transplanting from the nursery to the field. In the fall of 1927 experiments were started in order to determine the time of planting and pruning treatment that would give best results in stand and growth. Plantings have been made each fall and spring up to the present and will be continued until this problem is solved beyond all question of doubt.

Every possible precaution has been taken to plant uniform trees and to distribute the trees in the planting in order to reduce to a minimum tree and soil variability. In all years, plantings have been made in early November and the latter part of April. Though some of these trees have been left for two or three years the only pruning they received was at time of planting, except in the case of fall planted trees left unpruned until spring. Each year measurements were taken of the total shoot growth per tree.

1927-28 Experiment.—In the first year trees planted in the fall made thirty per cent. more growth than trees planted in the spring. In the second year the spring planted ones made up the deficiency in first year's growth and at the end of the third year they were one-third larger than the fall planted trees. However, in the second and third years it was quite obvious that something was wrong with the fall planted trees for they showed a burning on the margins of the leaves. In the fall of 1930 these trees were taken up and it was found that the fall planted trees had been planted almost directly over a tile drain put down in 1923. Undoubtedly this explains the peculiar response obtained from fall planting in this experiment and allows for no conclusions on the time-of-planting part of the test. It opens up, however, the question of the effect of the drains on tree growth. Trees dug in the fall, stored in moist earth in a nursery storehouse over winter and planted in the spring gave results inferior in stand and growth to either fall or spring planting (spring dug).

1928-29 Experiment.—In contrast to the planting of the year previous, the 1928-29 planting gave a low percentage of surviving trees, especially among the spring planted. The summer of 1929 was a very dry one. In appears that heavy pruning had a tendency to save some trees which might otherwise have died. This is especially evident in the spring dug and planted lot where seven out of ten heavily pruned trees survived while only two lightly pruned and three unpruned remained alive out of the same number. Only two out of thirty stored trees survived. Two year's unfavourable results from "storing" was the reason for discontinuing this part of the experiment. Spring pruning of fall planted trees seemed to be just as desirable as fall pruning. In this

year fall planting gave a stand nearly twice as good as spring planting. The number of trees per treatment was so small to begin with and the mortality so high afterwards that it is unsafe to draw conclusions from this experiment on the growth figures. Nevertheless, it appears that pruning did not dwarf the tree and that probably, even allowing for the extra top on unpruned trees after the planting time pruning, there is a larger top on the pruned trees.

1929-30 Experiments.—In the third year's experiment, 1929-30, it proved to be of distinct advantage to prune the fall planted trees, only three out of fifteen unpruned trees surviving, while out of the same number, twelve each of the lightly and heavily pruned trees survived. Fall pruning gave greater growth and less casualties than spring pruning of fall planted trees. The summer of 1930 was even drier than that of 1929, therefore it was a surprise to see such a good stand of spring planted trees—better than fall planting where no pruning was done and just as good where the trees were pruned. In this year, the heavy pruning has noticeably dwarfed the top. Measurements of the 1931 growth will indicate whether this is to be permanent or temporary dwarfing.

Conclusions.—The response of sweet cherry trees to time of planting and top pruning treatments varies to a marked extent with seasonal conditions. For instance in some years there will be almost a 100 per cent. stand regardless of treatment, and in other years there will be high mortality under almost all treatments. Considering the seasonal variation it is unsafe to draw up fixed treatments as best for transplanting sweet cherries without several more years' work on the problem. However, at this early date in the experiment it appears that fall planting is better than spring planting and that it is desirable to prune the trees at planting time, cutting back all of the shoots on the tree as well as the necessary thinning out to form a satisfactory head. Fall digging and storing over winter in a nursery store-house is not to be recommended.

Soil Studies.—A new departure in the Station's work has been the inauguration of some soil analyses. Under the existing conditions of continued heavy cropping characteristics of the fruit industry in the Niagara Peninsula, it was felt that the average farmer was merely "farming out" his land, and not returning to the soil sufficient organic matter in the form of green manuring crops, and manures. Clean cultivation has been the general rule throughout the Niagara peninsula with too few farmers planting a green manuring crop of any kind. It is evident then, that a continuance of this practice will eventually reduce the organic matter in the soil to a point where fruit crops will no longer be profitable. In fact, this condition is already in evidence in some instances and will undoubtedly become increasingly serious.

Grape Yield and Maturity Studies.—A second year's results on the multiple fertilizer and pruning experiment with grapes in the W. G. Haines' graperies at Jordan, Ontario, has now been obtained. Chemical analysis again shows about one per cent. increase in sugar on the very heavily pruned plots (30 buds). However, on these same plots the crop is lighter by half a ton or more to the acre than with the thirty-six or forty-two bud pruning. So far as can be determined by careful analysis and the applying of statistical methods to the figures obtained no definite correlation exists to date between either sugar or acid and the various fertilizers applied. Nor has yield been affected to date by these applications.

Asparagus Yields.—Great variation exists in yield and growth of asparagus plants. This was shown clearly as a result of three seasons' individual records of some sixty full bearing Mary Washington plants taken during 1926, 1927 and 1928. High yielding plants from this plot are isolated together for seed pro-

duction. High yield is wanted but early yield is also desired and it appears that certain plants have a distinct early growth character. Results from another lot of individual yield records taken in 1930 showed a number of heavy yielding plants which also produced a good part of their yield early in the season. After more annual yield records have been secured the best early plants will be used in propagation experiments to establish an early high producing strain.

Vegetable Variety Tests (Beets and Carrots).—Test plots of beets and carrots using our own selected strain of Detroit Dark Red Beets and Chantenay carrots against commercial lots produced further evidence of the superiority of our own strains with respect to uniformity and smoothness of roots. The tops are relatively small yet large enough to produce good crops.

PLANT BREEDING

Strawberries.—Breeding work with strawberries was continued thirty-three new crosses being made, from which we have several thousand seedlings for setting out in the spring of 1931. Incidentally, it should be mentioned that this crossing work was done in the greenhouse quite early in the spring of 1930 before any growth had started outdoors.

From earlier breeding we have a number of selections in the field which will be fruiting in 1931. Of these, two are from 1919 breeding; four from 1922; nineteen from 1923; fifteen from 1925; and sixty-five from 1927. These last were fruited for the first time in 1929 as individual seedlings. The others have been under test for longer periods and the less promising weeded out from year to year.

Raspberries.—Several new crosses were made during the summer of 1930 between such varieties as Lloyd George, Viking, Newman and Adams 87, from which there should be several thousand plants for setting out in the near future, probably the fall of 1931. Also crosses were made between a thornless blackberry and a variety of the ordinary thorny type, the purpose of these crosses of course being to produce a thornless blackberry of commercial value.

Fifty-three selected seedlings of 1925 breeding gave a few fruits in the summer of 1930 but several years must elapse before final judgment can be passed on them.

No new seedling raspberries will be distributed for a year or so, Viking is holding its own and in places is displacing Cuthbert.

Peaches.—The station peach introductions of the past few years are increasing in popular demand each year. The need for high class varieties in the various peach seasons seems to have been amply filled by these introductions and growers have not been slow to avail themselves of the opportunity.

Notable among these seedlings is Valiant, which has proved an excellent canning peach. So much so, that one prominent canner in the district bought up all the available fruit at a distinct premium. The qualities that make Valiant such a good canner are: (1) Will hold up three or four days after reaching maturity without breaking down at the pit; (2) Will hot-water peel; (3) The texture of the flesh is such that after canning the product shows perfect halves in a clear juice; (4) Quality is excellent.

Vedette has also continued to show its superiority as an early market peach. Favourable reports are expressed on the behaviour of Veteran as more and more trees came into bearing.

Grapes.—During the past season several grape seedlings which showed considerable merit as possible commercial varieties, have been selected. These

seedlings are being propagated in a limited way so that we may have enough young plants to plant out a complete row in each of our two test vineyards and also some for distribution to growers for trial. It has been our experience that the original seedling grape vine behaves somewhat differently than plants developed from cuttings from that same vine. Also varying soil conditions affect vine behaviour. For this reason we are planting to test graperies, one on heavy clay and the other on sandy loam. From these plantings the final selection will be made.

REPORT OF THE PROVINCIAL ENTOMOLOGIST

ADMINISTRATION OF THE FRUIT PESTS ACT

(1) *Inspection of Nurseries.*—The nurseries of the Province were inspected for San José scale as in previous years. The total number of trees and shrubs of all kinds examined was 2,247,375, of which 2,340 were found infested and were destroyed. In 1929, the total number of trees and shrubs inspected was 2,904,550 of which 1,775 were found infested and destroyed.

(2) *Inspection of Orchards in the Niagara District for San José Scale and Black Knot.*—This year, just as last year, very little time was required for the inspection of orchards for San José scale, because the insect was scarce the fall before. The hot, dry summer of 1930 has enabled the scale to increase to some extent, and if we have a series of dry, hot summers, it is probable the insect will, for a time at least, become once more a major pest which will require careful spraying to keep under control.

It is a pleasure, however, to be able to report that already, as a result of the inspection and removal of the black knots generally throughout the district, there has been a decided reduction in the amount of the disease. Two or three years of thorough inspection should practically free the district once more from Black Knot.

(3) *Inspection of Peach Orchards for Peach Yellows and Little Peach.*—The inspection for Peach Yellows and Little Peach was made throughout the Niagara district during August and September. The total number of trees marked and destroyed was 1,495. Last year the number was 2,042, so that there has been a decrease this year.

(4) *Enforcement of Oriental Peach Moth Regulations.*—Two years ago the Oriental Peach Moth was added to the list of insects under the Fruit Pests Act and a regulation was passed by Order-in-Council making it compulsory for every peach grower to either plow or spade or disc the soil beneath and between his peach trees to a depth of at least four inches. This treatment of the soil was to be done by May 1st or by the time peach trees were coming into bloom. The object was to destroy any Oriental Peach Moths pupating on mummy peaches or rubbish of any kind under the trees. In the spring of 1929 the very wet weather made it impracticable to carry out the above regulation, but in the spring of 1930 the inspectors were able to get almost perfect compliance with it and did so with very little friction.

Owing to the fact that large numbers of peaches were being handled at canning factories and that this gave an opportunity to destroy at these places great numbers of the Oriental Peach Moth larvae, which would be present in the refuse or in the containers in which the peaches were brought to the factories, a regulation was passed in the fall of 1930 making it compulsory to destroy all

peach refuse at canning factories and to sterilize all the containers used for peaches.

APPLE MAGGOT

A warning was received from Great Britain that if apples infested with the apple maggot were shipped to that country an embargo would be put on all shipments of early apples. As such an embargo would mean a serious loss special care was taken last spring to explain to the local spray supervisors the habits of the apple maggot and the method of control. Moreover, each supervisor was urged to have all infested orchards in his district, so far as these were known, specially sprayed for the insect. In this way many orchards were sprayed which otherwise would have gone unsprayed. In the fall of the year when the work of the insect could be clearly seen on the fruit the Entomologist, with two well trained assistants, inspected nearly all the commercial orchards in Prince Edward, South Hastings, Northumberland, Durham and Ontario counties. A list was made showing what orchards were free from the maggot, what were infested, and the extent of the infestation in each case. A copy of the list was given to each of the local federal fruit inspectors so that they might know what fruit should be specially watched and take the necessary precautions. Other copies of the list were given to the Director of the Fruit Branch and to the local agricultural representatives. This orchard inspection for the apple maggot has therefore helped to prevent infested fruit from being exported. It will be of much value next spring to the local spray supervisors by providing them with the names of the infested orchards or their districts and thus enable them to take the necessary measures for the destruction of the insect.

In addition to inspecting orchards for the above purpose, the Entomologist, in conjunction with the Director of the Fruit Branch and Mr. W. A. Ross, advised that the apple maggot be added to the list of insects under The Fruit Pests Act and that regulations be passed making it illegal not only to export infested fruit, but even to sell it for any other purpose than the manufacture of cider or of pectin or its products. Fruit infested by this insect is unfit either for cooking or eating raw.

As the federal fruit inspectors had no power under The Fruit Marks Act to prohibit the export or sale of apples infested with the apple maggot, it was suggested to the Department that they be given the necessary power through appointing them provincial inspectors. The Department acted upon this suggestion and passed an Order-in-Council to that effect.

The apple maggot situation is serious enough to justify the necessary funds being provided so that each local spray supervisor may make a survey of all the orchards in his district late in August or early in September. This would enable him to take the necessary measures the following year to stamp out the insect.

In localities where unsprayed infested orchards are within a mile of sprayed orchards it is very difficult to get complete control of the apple maggot because it will fly from the untreated to the treated orchards; hence it would appear that it may be necessary to making spraying for this insect compulsory or else require that all unsprayed orchards be cut down in certain zones.

ORIENTAL PEACH MOTH

All efforts to control the Oriental Peach Moth by sprays or other artificial means have merely served to check the rate of progress of the insect, but have not been able to effect control. It looks, therefore, as though control must be

sought largely through the enemies of the insect, namely, parasites and predators. The writer has been of this opinion for several years and has encouraged the importation of parasites from New Jersey where they are very helpful in holding the insect in check. Last spring, he sent Mr. R. W. Thompson to New Jersey to co-operate with a member of the Dominion Entomological Branch in collecting peach twigs containing parasitized larvae. Two weeks were devoted to this work and a large amount of material brought back. From this approximately eight thousand parasites were reared and distributed in peach orchards in the Niagara District. These attacked the Oriental Peach Moth larvae and increased rapidly during the season. This fall, Mr. Gordon Dustan, who has conducted research work for the Provincial Entomologist and the Fruit Branch on the Oriental Peach Moth for the last four years, was sent to New Jersey, along with the Dominion Entomologist, to bring in more parasites. The object in this case is to rear the parasites throughout the winter on strawberry leaf rollers on strawberry plants grown in greenhouses in Vineland Station.

DAIRY BRANCH REPORT

Nineteen hundred and thirty was a fairly good year for the production of dairy products in Ontario. Excellent crops all over the Province and good pastures in Eastern Ontario increased the output of creamery butter; and also kept the output of cheese well up to that of 1929. Careful work on the part of the cheese and buttermakers kept the quality up to any former year.

The per centage of first and special grade cheese increased from 95.49 per cent. in 1929 to 96.46 in 1930, only .24 per cent. below the banner year, 1928.

The average price for cheese was about 14 $\frac{3}{5}$ cents per pound as against 17 $\frac{3}{8}$ cents in 1929. The average price for butter averaged 30 $\frac{3}{4}$ cents per pound as compared with 38 cents in 1929.

We cannot check up the quality of the creamery butter so closely, but the Ontario Government Grading Station reports a decided improvement in the quality of butter graded there during the year.

The Cheesemakers' Association continued to function and did splendid work in reducing mechanical defects in the cheese. The second buttermakers' club of the Province was organized in the Belleville district, which has resulted in a much better understanding re grading and inspection of cream among the buttermakers in this section.

The outstanding feature of the season was a cheese factory patrons' herd competition, in Central and Western Ontario. The Central Ontario Cheesemakers' Association took the initiative in this movement by offering about \$600 worth of prizes for the highest number of pounds of butter-fat per acre, the minimum size of farm to be fifty acres. Four hundred and three farmers in Central Ontario entered the competition, which was won by J. Milleous of Gananoque, on a 150-acre farm with 34.22 pounds of butter fat per acre.

The Western Ontario Dairymen's Association Competition, for the highest number of pounds of milk per acre, was won by Fred R. Thornton, of Kintore, on a 75-acre farm with 1,619 pounds of milk per acre.

INSTRUCTION AT CHEESE FACTORIES

The same staff of instructors were employed as in 1929. The following tables show the number of plants, patrons, number of makers' certificates, and the quantity and quality of the cheese and butter:

CHEESE FACTORIES	1930	1929
Northern Ontario.....	14	14
Eastern Ontario.....	643	654
Western Ontario.....	78	83
	735	751
PATRONS	1930	1929
Northern Ontario.....	293	309
Eastern Ontario.....	21,147	22,376
Western Ontario.....	4,808	5,265
	26,248	27,950
POUNDS CHEESE MANUFACTURED	1930	1929
Northern Ontario, May 1st to October 31st.....	584,426	620,825
Eastern Ontario, May 1st to October 31st.....	63,606,219	63,368,804
Western Ontario, January 1st to October 31st.....	13,896,706	14,122,549
	78,087,351	78,112,178

Number of boxes and percentage of first and special grade cheese by provinces as shown in the Federal Graders' Report for 1930:

	Number of Boxes	Special and First Grade
		Per Cent.
Ontario.....	888,955	96.46
Quebec.....	367,220	83.22
Prince Edward.....	8,998	93.33
New Brunswick.....	203	33.50
Manitoba.....	2,163	93.90
Totals.....	1,267,539	92.59

Number of boxes and percentage of first and special grade cheese in Ontario as shown by the Federal Graders' Report for 1930:

	Number of Boxes	Special and First Grade
		Per Cent.
Northern Ontario.....	5,895	91.59
Eastern Ontario.....	460,433	96.10
Central Ontario.....	254,283	95.89
Western Ontario.....	168,342	98.45
Totals.....	888,955	96.46

Number of boxes and percentage of first and special grade cheese in the different counties in Ontario as shown by the Federal Graders' Report for 1930:

	Number of Boxes	Special and First Grade
		Per Cent.
Addington.....	18,232	87.4
Bruce.....	1,974	98.4
Carleton.....	42,431	96.9
Dundas.....	52,417	94.9
Frontenac.....	66,927	96.3
Glengarry.....	51,374	96.9
Grenville.....	23,501	96.0
Hastings.....	67,194	97.9
Huron.....	3,686	96.2
Lambton.....	331	100.0
Lanark.....	25,742	97.3
Leeds.....	88,604	96.1
Lennox.....	24,843	95.2
Middlesex.....	40,538	99.24
Nipissing.....	4,697	90.5
Northumberland.....	30,720	96.4
Oxford.....	65,298	98.29
Perth.....	38,006	97.10
Peterborough.....	17,009	96.3
Prescott.....	79,540	95.9
Prince Edward.....	27,506	95.3
Renfrew.....	6,071	97.5
Russell.....	54,488	95.8
Sudbury.....	1,198	95.8
Stormont.....	36,257	95.6
Victoria.....	1,854	96.5
Waterloo.....	8,539	95.4
Welland.....	326	84.4

EASTERN DAIRY SCHOOL, KINGSTON, ONTARIO

The annual course for the training of cheese and buttermakers was opened on January 2nd, and closed on March 19th—thirty-four students registered. Of this number twenty-nine wrote on the examinations given at the end of the course.

In addition, a short course of one week was put on for old experienced makers which was fairly well attended.

The total attendance for the term was as follows:

Regular Course	34
Special Cheese and Buttermakers' Course.....	64
Instructors' Course.....	31
	129
Total.....	129

Manufacturing statement for the fiscal year, November 1st to October 31st:

Butter manufactured.....	143,027 lbs.
Pounds butter per 100 lbs. fat.....	123.1 lbs.
Average price paid the patrons per lb. fat.....	35.58 cts.
Cheese manufactured.....	86,897 lbs.
Average price received per lb. cheese.....	17.37 cts.
Average lbs. milk per lb. cheese.....	11.49 lbs.
Average lbs. cheese per lb. fat.....	2.52 lbs.
Average price paid patrons per lb. fat.....	38.52 cts.

AGRICULTURAL REPRESENTATIVE BRANCH

The Agricultural Representatives Branch, through its Representatives in every country, continued to advance agricultural education by its extension methods and has been influential in stimulating an endeavour to better farming and homemaking by bringing together groups for the solving of community and neighbourhood problems and the problem of better relations between town and country. Agricultural extension work is organized and conducted to stimulate farm men and women to think about their business and to think in terms of action. With the coming of new methods, increased farm and home efficiency, better live stock, better crops, better homes and a larger social and recreational life, there likewise comes pride of occupation, growth in education and culture, and a satisfying feeling of greater responsibility and power.

The objective of Agricultural Representative work is to increase the net income of the farmer through more efficient production and marketing and the better use of capital and credit; to promote better homes and a higher standard of living on the farm and to develop rural leaders.

The question of soil fertility and economy of production have been foremost in the minds of the farmers, and a programme "Cut the Cost of Production" was pursued as a provincial project with very gratifying results.

Junior work received a fair share of attention and has been fruitful in developing young men and women capable of acting as leaders in their communities. This method of extension is destined to develop initiative and self-reliance in farm boys and girls. It is hoped they will learn that farming is a business which requires as much ability and training as any other walk of life, and that they will demand and secure an audience for farming in the councils of business, realizing that they are not only farmers but citizens as well and willing to take an interest in the welfare of the communities in which they live.

SUMMARY OF AGRICULTURAL CONDITIONS

Nineteen hundred and thirty will long be remembered as a year of declining prices for all farm commodities. Not only did wheat and all spring grains touch the lowest levels ever witnessed by many of the younger generation, but live stock prices declined seriously as well. However, in spite of the existing low prices, the majority of Ontario farmers had a good crop of cheap feed, grains and roughages.

Over the greater part of the Province, oats, barley and hay crops exceeded the average yield; while cash crops such as sugar beets, tobacco, beans, fruits and vegetables returned yields that were satisfactory. Beef and mutton prices declined sharply, accompanied by a lowering market price for whole milk, butterfat and eggs. Hog prices remained high but unfortunately the number of hogs had been greatly reduced, due to preceding low prices.

Despite the apparent feeling of general depression among farmers, there are many outward signs of prosperity to be noticed throughout the rural districts; for example, additions and improvements have been made to many farm buildings and rapid strides have been made in hydro installation in farm homes.

Representatives come in touch with a great many people and many requests to address meetings are received. The following summary measures, to some extent, the number of contacts made by this method of extension work:

MEETINGS ADDRESSED BY THE REPRESENTATIVES

County	Number of Meetings	Attendance
Algoma.....	57	2,216
Brant.....	51	2,119
Bruce.....	75	3,497
Carleton.....	62	5,207
Cochrane.....	24	4,105
Dufferin.....	55	8,183
Dundas.....	28	2,555
Durham.....	32	1,527
Elgin.....	90	5,983
Essex.....	106	5,452
Frontenac.....	26	835
Gelngarry.....	14	519
Grenville.....	9	884
Grey.....	79	4,283
Haldimand.....	65	3,236
Halton.....	59	3,877
Hastings.....	28	1,696
Huron.....	97	12,441
Kenora.....	25	577
Kent.....	61	2,559
Lambton.....	35	1,951
Lanark.....	45	2,529
Leeds.....	62	9,561
Lennox and Addington.....	30	2,014
Lincoln.....	77	4,011
Manitoulin.....	61	7,584
Middlesex.....	97	4,938
Muskoka and Parry Sound.....	39	1,995
Norfolk.....	35	1,875
Northumberland.....	55	5,189
Ontario.....	26	1,920
Oxford.....	35	1,387
Peel.....	111	5,708
Perth.....	62	2,259
Peterborough.....	51	4,185
Prescott and Russell.....	66	8,398
Prince Edward.....	63	2,437
Rainy River.....	74	7,082
Renfrew.....	42	6,711
Simcoe North.....	62	4,302
Simcoe South.....	37	1,357
Sudbury.....	25	1,625
Temiskaming.....	39	.....
Fort William.....	109	10,162
Port Arthur.....	51	6,922
Victoria.....	17	1,311
Waterloo.....	90	5,558
Welland.....	77	2,939
Wellington.....	62	6,563
Wentworth.....	49	9,515
York.....	39	2,442
Totals.....	2,766	206,671
Average.....	54	4,052

SENIOR EXTENSION WORK

LIVE STOCK IMPROVEMENT

Rapid strides have been made in Live Stock Improvement work since the adoption of a definite programme. Local associations have been organized and have assisted in obtaining a complete census of the live stock in their respective counties.

CATTLE

With the co-operation of the Ontario Live Stock Branch, 290 bonuses have been paid to assist in the replacing of grade sires with purebreds and the following counties have now been declared "Better Bull Areas:" Oxford, Perth, Wellington, Peel, Bruce, Dufferin and Brant, the latter two having been added during the past year. Agricultural Representatives have also assisted various Cattle Breeders' Associations in conducting grading demonstrations, staging picnics and selecting county herds for exhibit at large fairs, as well as being active in organizing and managing County Cattle Fairs.

ERADICATION OF BOVINE TUBERCULOSIS

The campaign for the eradication of bovine tuberculosis has made rapid strides in Ontario during the past year; increased requests to enter herds under the Accredited Herd System have been received and new restricted Free T.B. Areas have been formed. The Agricultural Representatives have co-operated with the Dominion Health of Animals Branch and the Ontario Live Stock Branch in organizing their districts and generally furthering educational work to enlighten farmers regarding the advantages of healthy herds. The following counties are now Restricted Free T.B. Areas: Prince Edward, Glengarry, Prescott and Manitoulin; while in the Counties of Stormont, Dundas, Russell and Carlton the test is under way. In addition a number of counties have obtained the necessary signatures to warrant going ahead with the test.

COW TESTING

Cow Testing, which is one of the important factors in dairy farming, has always been a major feature in live stock improvement, and the Agricultural Representatives enjoy the co-operation of the Ontario Dairy and Live Stock Branches in furthering this work. During the latter months of 1930 an increased interest has been manifested by dairymen in the butterfat content of the milk from their cows; this being brought about by the fact that dairy products are purchased on the basis of their fat content.

SHEEP

Sheep promotion work has consisted of co-operation with the Dominion and Provincial Live Stock Branches in holding Lamb Fairs, Short Courses, and in the conducting of dipping, docking and castrating demonstrations. With the assistance of the Provincial Zoologist many Internal Parasitic Demonstrations have been carried on. The representatives have also been active in organizing

Boys' Sheep Clubs. Perhaps no line of sheep extension work received the approval of the average breeder more than the conducting of demonstrations on the treatment for internal parasites.

SWINE

The swine industry suffered a distinct set-back in numbers during the past year, due largely to a preceding period of heavy production and reduced prices; however, towards the end of 1930 there was an increase of approximately twenty per cent. in the number of sows being kept for breeding purposes.

Agricultural Representatives have been instrumental in assisting with the organization of Bacon Hog Clubs, Swine Field Days at Packing Plants, distribution of breeding stock, Internal Parasitic Demonstrations, Grading Demonstrations, Swine Fairs and County Exhibits. Close co-operation has been maintained with the Dominion and Provincial Live Stock Branches and the Provincial Zoologist in all of this work.

POULTRY

Poultry production goes on apace and there is each year an increased interest shown in the poultry raising industry. To see new brooder houses here and there through the country is a common sight. This would lead us to believe that up-to-date methods are coming in use more and more. The Agricultural Representatives have assisted the Poultry Department of the Ontario Agricultural College in securing applications for the Ontario Poultry Breeding Station scheme and in conducting Poultry Culling Demonstrations.

SOIL AND CROP IMPROVEMENT

To aid the marginal or less fortunate farmer, the Agricultural Representatives Branch, in co-operation with the Crops, Co-operation and Markets Branch, the Provincial Field Crop Committee and the various interested departments of the Ontario Agricultural College inaugurated a programme of extension work entitled "Cutting the Cost of Production," realizing that only yields and returns which exceed cost of production could harbour the period of low prices.

An excellent response was accorded by the Agricultural Representatives and all others interested in Crop and Soil Work.

The Agricultural Representatives prepared and forwarded over 70,000 crop letters and distributed over 34,000 agricultural news sheets, besides preparing 266 Crop and Soil news items for local newspapers and conducting 356 meetings which were attended by 20,000 persons. They also assisted in advertising and making local arrangements for the Soils and Crops Train and arranged with ninety-two hardware merchants to handle material for repairing fanning mill screens.

The fact that 2,000 farmers repaired their fanning mills is an indication that many farmers are cleaning their seed grain. There is an increased demand for seed cleaning plants and an increase in the number of bushels of grain cleaned in the plants already established; some plants reporting a 100 per cent. increase over 1929. The Federal Department of Agriculture assisted in this work in a number of counties by analyzing samples of seed grain which were taken direct from the seed drills or collected by school children and junior farmers and

submitted by the Agricultural Representatives. All samples were analyzed and the separations enclosed in separate containers and returned to the farmers so that they could see exactly what grade of seed they were sowing.

POTATOES

The Agricultural Representatives in the counties having areas suitable for extensive potato growing gave considerable help to the growers in the marketing of the crop and the conducting of field experiments. Perhaps the most effective work this year was the Boys' Potato Club work which was carried on in the following counties and districts: Ontario, York, Grey, Middlesex, Welland, Wentworth, Sudbury, Temiskaming, Thunder Bay and Rainy River.

WEEDS

Weed control has sprung into prominence in Ontario during the past few years and farmers, municipal officers and agricultural workers are bending their efforts in an endeavour to conquer this nuisance that is adding so much to the cost of producing farm products. With the enforcement of The Weed Act come reports that roadsides, farm fields and vacant lands are being cleaned up in a way that was not in evidence a few years ago.

The Agricultural Representatives are attempting to do their part in bringing about, through educational meetings and other ways, a fuller appreciation of the seriousness of this menace. More and more farmers are following the practice of summer fallowing, after harvest cultivation, short rotations and sowing clean seed; and with these practices becoming more common there is every hope that eventually weeds will be brought under control.

FERTILIZER EXPERIMENTS

With the increased interest being taken to produce yields that will give a return over the cost of production, more interest has been manifested in commercial fertilizers. The Agricultural Representatives have co-operated with the Chemistry Department of the O.A.C. and the various fertilizer companies in securing suitable farmers with whom experiments were conducted.

AGRICULTURAL ENGINEERING

Agricultural Representatives have kept up with the changes coming about in cultural and other farming practices. With the demand to make man labour more productive, many farmers are now using multiple hitches and demonstrations were given on different types of hook-ups. Following these demonstrations many inquiries were received and an increased number of larger outfits was noticed working in practically every county. Sub-soil demonstrations were also conducted in Lincoln County with Kellifer tools in an endeavour to break up soil of a hard clay nature and having a hard-pan sub-soil.

REFORESTATION

Application forms of the Ontario Forestry Branch for trees for reforestation and windbreaks are carried in all the offices and assistance and advice given regarding the proper type and species of tree to plant. A very interesting and

worthwhile reforestation project working with public school pupils is being supervised by the Agricultural Representative in Waterloo County.

FARM LABOUR

The farm labour problem in rural sections has not been acute in 1930 as it was the year previous. The local offices still continue to act as mediums for bringing together the farmers and the farm hands and in the County of Peel alone 648 men were placed.

JUNIOR DEVELOPMENT

When people learn facts and acquire information along various lines they can take advantage of the knowledge thus gained through a life expectancy of thirty to forty years. Thus in looking to the future of Ontario's Agriculture this Branch attempts to put into effect lines of Junior Extension Work which pertains not only to children in the schools but also to the young men and women on the farm.

SCHOOL FAIRS

The twenty-first year in the history of Rural School Fair Work has passed and the continued interest and participation of the rural school pupils indicate that the work is appreciated. The object of this work is simply to create greater interest in agriculture, and the following statistics are indicative of the growth of the work since its inception:

	1909	1930
Number School Fairs Held	1	565
Number Schools Taking Part	3	4,747
Number Children Taking Part	47	122,606
Number Entries at the Fairs	174	343,396
Number Children Attending Fairs	80	153,008
Number Adults Attending Fairs	170	193,700
Total Attendance	250	346,708
Number Championship Fairs		21

The school fair programme, in addition to the judging and discussion of exhibits, includes such educational features as Inter-School Competition in live stock judging, domestic science judging, vegetable and fruit judging, first aid, poultry judging, singing, physical exercises and also individual competitions in public speaking, weed naming and rope splicing. A number of different types of projects in the Boys' and Girls' Club Work are being carried on and the following table measures to some extent the field of educational work being covered:

Type of Project	Number of Clubs	Number of Competitors
Home Garden Contests	40	1,749
Home Garden and Canning Clubs	25	543
Potato Clubs	11	474
Grain Clubs	2	132
Corn Clubs	22	155
Sugar Beet Clubs	1	94
Heifer Clubs	12	126
Sheep Clubs	52	636
Pig Clubs	1	36
Totals	146	3,945

ONE-MONTH SHORT COURSES

Short Courses in Agriculture were instituted in 1912. Since that time 638 one-month short courses have been held with an attendance of 17,852. This is an average of over thirty-three courses per year with an average attendance of approximately twenty-eight. In 1930, thirty-one courses were given with an average attendance at each of twenty-seven. The courses are rotated to the various communities each year. The lectures and demonstrations in general are given by the Agricultural Representatives and their assistants. In addition special lecturers are supplied for such subjects as Veterinary Science, Bees, Fruit and Vegetable Growing and Poultry.

THREE-MONTH COURSES

Since 1921-22, three months' courses in Agriculture and Home Economics for boys and girls have been held during December, January and February of each year. They are organized and supervised by the Representative with the assistance of itinerant lecturers. For these courses the local communities co-operate by supplying the halls, including heating and lighting, free of charge. During the nine years since the three-month courses were first organized, sixty-three such courses have been held with an attendance of 2,447 boys and 2,858 girls.

FARM MECHANICS COURSES

During the past three years special five-day courses in Farm Mechanics have been held in fifty counties during the months of December, January, February and March. In 1930, fifteen of these courses were held in as many counties with an attendance of 805, or an average of fifty-six per course.

SWINE COURSES AT PACKING PLANTS

The Canadian Swine Breeders' Association, the Industrial and Development Council of Canadian Meat Packers and the Federal and Provincial Departments of Agriculture again co-operated in conducting Swine Courses for young men at the following points: one in Montreal and two in Toronto, with a total attendance of 200. These courses are intended to be helpful in demonstrating grading regulations and market requirements of bacon hogs. Besides these, Swine Breeders' Field Days were held at the following cities where packing plants are in operation: London, Kitchener and Peterborough.

JUNIOR FARMER ASSOCIATIONS

These organizations are an outgrowth of the short courses in agriculture. The object is to hold the members of the class together and keep up the interest of the young men in the community in better agriculture. First organized in 1914, there are now 139 organizations in the Province, with a total membership of 4,153. In twelve counties there are county organizations which give leadership to the planning and carrying on of a balanced programme in their respective branches. The activities of these organizations are many and varied. Prizes of a two weeks' short course at the Ontario Agricultural College, Guelph, and

the Kemptville Agricultural School, with free transportation and accommodation, were awarded by the Department for participation in a number of projects during the year.

ROYAL "500" PARTY

Ten young men from each county in Southern Ontario and five from each district in Northern Ontario where an Agricultural Representative is located were brought to Toronto for four days at the time of the Royal Winter Fair. Free transportation and accommodation was provided by the Ontario Government. The members of the party were selected by means of special judging competitions in live stock and field products. To be eligible for their respective county or district competition all contestants during the summer completed projects pertaining to the cost of producing some farm product or of performing some farm operation.

CROPS, CO-OPERATION AND MARKETS BRANCH

The marketing programme of this Branch has been expended considerably during the year. The appointment of an Assistant Director in May permitted the Director to spend more time in investigating the marketing of farm products, and planning a programme to assist Ontario farmers to meet ever increasing competition.

In the hope of materially improving present day economic conditions whereby the farm producer income has been drastically cut, a "Consumer Programme" for the purpose of increasing consumption of home grown farm products was inaugurated by this Department. Beginning in September daily radio broadcasting was commenced and is being continued in the endeavour to assist women buyers in their purchases of farm produce. Market reports are included which give the kinds of Ontario products being offered with price for various packages and the supply available. Suggestions are offered on the best time to buy such as: "Peaches are plentiful to-day, and as the peak has been reached, we would suggest that you buy your supply for canning during the next few days. Prices range from —, etc." Advice is given on the varieties of products most suitable for different purposes. The meat market is watched closely and the nutritional value of different cuts is related to prevailing prices. The fact that "Ontario Farm Products are Freshest and Best" is often repeated. It is admitted that all Ontario products offered are not what they might be and consumers are urged to buy grade in order to get uniformly high quality products. The many different grades are outlined and explained. Publications giving grades in detail, information on the best methods of storing, preparing and cooking farm products are offered.

An advertising programme in the daily press was commenced about August 25th and continued until December. The same kind of information was given here as in the radio talks. Excellent co-operation has been received from the press of the Province. The public platform has been used as opportunities have occurred.

Just previous to the Royal Winter Fair, a Window Dressing Competition featuring Ontario Farm Products was arranged. In Toronto, there were distinct competitions for windows featuring: (a) Meat and Poultry; (b) Fruits and Vegetables; (c) Dairy Products and Honey. The first prize in each class was fifty dollars; second prize, thirty dollars; third prize, twenty dollars; and ten prizes of ten dollars each. Prize money was also offered for each chain store organization, the management of which would arrange a competition within the chain. In addition prize money was offered to all cities in Ontario where a local organization would undertake to conduct the competition. The Department is satisfied that these competitions did much to bring Ontario Farm Products before consumers in these cities and particularly directed the attention of the trade to our programme.

In co-operation with the Royal Winter Fair, a contest was staged on Children's Day, November 19th, open to all public and separate school children in the Province. One hundred and twenty-five prizes were given in the form of Savings Accounts in the Ontario Savings Bank. Over forty-two thousand competition forms were given out to every boy and girl entering the Winter Fair buildings.

A Farm Products Competition for women was conducted in connection with the booth at the Fair. Fifty-three attractive prizes consisting of Savings

Accounts and choice apples and potatoes proved tempting and over three thousand women and girls competed. This feature was considered very successful.

POTATO MARKETING

Last year this Department reported the efforts which were being made to improve the marketing of potatoes. The Central Ontario Potato Growers had a very successful season. These farmers, by co-operative effort in the growing and marketing of high quality, well-graded, disease-free potatoes, succeeded in making an impression on Ontario markets. About seventy carloads of table stock graded to the standard of the TEE PEE brand, which is higher than that required for Canada No. 1, were distributed as far west as Windsor, north as far as Timmins and east as far as Kingston. Consumers and particularly the large dealers in the trade were shown that Ontario can produce as high quality potatoes as can be procured anywhere. While a premium has been paid for years on imported stock before the end of the season this brand realized top prices.

The work was extended this year and locals are now located at the following points:

Craighurst	New Lowell
Orangeville	Lafontaine
Whitfield	Uxbridge
Caledon	Pontypool
Alliston	Mount Albert

CROP PROGRAMME

Our crop plans were formulated this year with a view to urge farmers to give serious consideration to reducing their cost of production per crop unit. Two main ways were suggested: that of reducing the cost by increasing the yield per acre and by using more power per farm worker. It is admitted by all who have given the subject any thought that to have a low cost per bushel, or per ton, it is necessary to obtain a high yield per acre. The attention of farmers was directed to those crop practices which, if applied, would increase the yield per acre. Suggestions were offered on the efficient use of farm labour by the greater use of machinery and by careful planning of farm work.

Co-operating with the Canadian National and Pacific Railways, a Soils and Crops Train was run through eighteen counties in Eastern Ontario. In the Soils Car, exhibits, demonstrations and lectures were devoted to drainage, tillage, fertility, etc., while in the Crops Car advice was given on crop rotation, good seed and weed control. Lecturers were supplied by the Agricultural College and this Branch. There was a total attendance of 21,922 which was an average of 361 for the fifty-seven stops. The train stood at each station for a day and the local school authorities in each case were invited to have all school pupils visit the train in the morning while the afternoon was devoted to adults. The train was very popular last season and the farmers attending it seemed more keen for information than in former years.

A poster entitled "Are Your Crop Costs Too High" was distributed in all farming areas of the Province. Splendid co-operation was received from the press in Ontario. Through the Agricultural Representatives, crop letters were sent out to farmers offering practical suggestions on the improvement of crop management. This Branch supplied special speakers for 345 meetings arranged

by the Agricultural Representatives and attended by 21,170 people. All of these men were highly skilled agriculturists, most of them being practical farmers who have had a scientific farm training. In January a two-day conference and school was arranged for these speakers in order that they might get the latest information from members of the O.A.C. staff and also benefit by the practical farm experience of those present.

WEED CONTROL

The people of Ontario both rural and urban took an active interest in the Weed Control Act of 1930. Every municipality in the Province appointed a weed inspector. Most of these inspectors were very active and did good work. A few inspectors, however, were hampered in their duties by their Municipal Councils who instructed them to "go easy." On the whole interest taken in destroying weeds increased to a very marked extent. District inspectors report an increase of 100 per cent. in their correspondence for 1930. Farmers as a class are wholeheartedly in favour of the Act. Many farmers and some county councils have recommended that more drastic action be taken with Weed Act offenders.

More than 900 municipal inspectors were appointed this year. These men were supervised by four District Weed Inspectors attached to this Branch. Two of these were full-time men during the weed season, while the other two acted as part-time employees in Northern Ontario. In the spring, weed inspectors' meetings were held in every county of the Province. Weed inspectors, road overseers and members of local councils were invited and attended in large numbers. Much attention was paid to publicity by advertising in provincial and local papers, also by a large number of articles and news items. Weed control was featured on the Soils and Crops Train and also at a large number of crop meetings held throughout the Province. A summary of the Weed Control Act was placed in practically every farm home in Ontario.

While twitch grass by causing loss of crop and increased labour expenditure reduces profits more than any other weed in Ontario, perennial sow thistle is considered as the most dangerous robber plant. It is very similar in habits to twitch grass. In addition to the vicious characteristics possessed by twitch grass, the seeds will blow for miles. This renders it very difficult for a farmer to protect his property from infestation if this weed is permitted to seed in the neighbourhood. In heavily infested areas, there is a tendency for farmers to become discouraged, and for this reason it was decided to demonstrate that a good crop could be grown if proper means were employed and also to show some of the most approved methods. This demonstration was successfully carried out in the Stratford area and conclusively proved that the worst infested sow thistle patch could be completely cleaned and made into highly productive land with the proper care and treatment.

COMMUNITY HALLS

The Community Halls Act of 1920, which is administered by this Branch, has proved to be a real asset to rural communities. Farmers and their families now see the need of a more advanced standard of education and a more intensive social and community spirit. Suitable accommodation for meetings has always been a limiting factor in the social and community life in the country. The

Community Halls Act is, therefore, filling an important gap in Ontario agriculture and is becoming increasingly more popular year by year.

Since the Act came into force, grants have been paid to aid the establishment of eighty-nine halls, twelve athletic fields and twelve community parks. Of this number, eight halls, three athletic fields and four parks were established in 1930. More projects were assisted during the year than in any period since 1923.

WORLD'S GRAIN SHOW, 1932

Ontario is preparing to uphold her reputation as an agricultural Province at the World's Grain Show to be held in Regina, 1932. The Committee which was appointed by the Minister of Agriculture has been at work since January on plans to encourage exhibitors to prepare for this event and to assist them in every practical way. Attention has been paid to publicity. Lists of prospective exhibitors have been prepared and the services of the Committee offered to these growers in any way in which it is possible for it to be of service. The kinds of crops and varieties considered most suitable have been recommended to all intending exhibitors.

INTERNATIONAL GRAIN AND HAY SHOW, CHICAGO, 1930

A special effort was made to get a large number of exhibitors to enter the International this year. It was thought that this would be useful as a preliminary to entering the World's Grain Show in 1932. Owing to this special effort and to the good crops this year, there was a remarkable response, resulting in 111 entries being sent to Chicago compared with forty-seven in 1929. Results were very satisfactory and the Ontario exhibitors are to be congratulated on winning two championships and one reserve championship. In several classes, almost a clean sweep of the top prizes was made. In alfalfa (Eastern Section), five of the first six prizes came to this Province; in alsike, five out of the first seven; in large yellow peas, two out of the first four; in white field peas, four out of the first five, and in soy beans (any other colour) the first three prizes came to this Province.

COLONIZATION AND IMMIGRATION

The following figures best give the picture of the activities of this Branch for the past current year.

Number of farm placements classified:

Single men	2,850	
Married men	64	
Married women	61	
Children	79	
Domestics	37	
Total		3,091

Nationalities:

British	2,333	
Foreign	758	
Total		3,091

Total number of placements during the previous fiscal years:

Years		
1925-1926	2,624	
1926-1927	3,581	
1927-1928	3,124	
1928-1929	4,340	
1929-1930	3,091	

We were advised by our London Office of migrants coming to Ontario under our auspices as follows:

Single men	71
Married men accompanied by families	27
Married men unaccompanied by families	3
Total	101

CANADIAN WOMEN'S HOSTEL

Number of Domestics that passed through the Canadian Women's Hostel, 72 Carlton Street	1,060
New Arrivals from the British Isles	837

SALVATION ARMY

Summary of arrivals in the Province of Ontario:

Domestic servants placed	168
Youths placed on farms	289
Farm hands	60
Others unclassified	422
Total	939

Cost of operating Reception Lodges and aftercare:

Mooreside Lodge, Smiths Falls	\$9,004	16
Clinton Lodge, Toronto	3,634	43
Woodside Lodge, Toronto	2,043	10
Burnside Lodge, Woodstock	11,312	26
Total	\$35,993	95

VIMY RIDGE FARM, GUELPH, ONTARIO

Total number of boys received since the inception of the Vimy Ridge Farm Scheme, March 1st, 1926:

Arrivals in 1926.....	173
“ 1927.....	428
“ 1928.....	391
“ 1929.....	510
“ 1930.....	240
Total.....	1,742

The Department is very pleased to report that after careful inspection and aftercare of our Vimy Ridge Boys that 76.41 per cent. of our number still remain at farm work. In view of the fact that there were very few of them that had had any farm experience prior to coming to Canada the Department is satisfied that the scheme is working out very satisfactorily. Some 5.81 per cent. of the boys have gone to parents or relatives who assume responsibility for their welfare, but in most cases these also are doing farm work. There are, however, over 7 per cent. of the boys taking other employment and from what the Department can learn getting along very well.

While farm placements for the years 1929 and 1930 show a decrease of 1,249 and only 101 men were induced to come to Canada by the Department, yet it was possible for 3,091 men to be placed on Ontario farms. Most of this help was picked up from the seasonal unemployed, but on the other hand it is very possible that farmers throughout the Province were able to secure a larger amount of local help this year which undoubtedly was responsible for the decreased demand from the head office.

AGRICULTURAL DEVELOPMENT BOARD

The following is a comparative statement showing the business of the Board for the past nine years and illustrates, especially during the last two years, the rapid increase in the demands made for the services of the Board.

Year	Number of applications passed	Amount of loans passed	Value of security	Number of loans paid out	Amount
1922.....	458	\$2,040,605 00	\$4,693,403 00	334	\$1,188,000 00
1923.....	953	3,729,350 00	8,685,166 00	776	3,000,000 00
1924.....	990	3,582,150 00	7,871,026 25	819	3,200,000 00
1925.....	892	3,246 680 00	7,197,300 00	701	2,700,000 00
1926.....	1,119	4 028,300 00	9,089,008 57	831	3,200,000 00
1927.....	1,275	5,043,995 00	11,298,263 50	1,001	4,100,000 00
1928.....	1,567	5,670,025 00	13,903,576 17	1,132	5,000,000 00
1929.....	1,757	6,803,393 00	14,797,660 20	1,397	5,800,000 00
1930.....	2,764	8,969,225 00	20,293,918 24	1,887	7,000,000 00
Total....	.....	\$43,113,723 00	\$97,829,321 93	8,878	\$35,188,000 00

Although over \$35,000,000 has been paid out since the Board was established, upwards of \$6,000,000 has been paid back on capital, so that the total amount outstanding at the end of the fiscal year was \$29,454,834. The outstanding feature of the year, however, has been the big increase in the demands made for the services of the Board. This increase began in the fall of 1929 and has continued ever since. As will be noted, there was an increase of over two millions in the aggregate of loans granted. There was also a total of 905 loans which for one reason or another could not be granted.

To some extent this reflects the general economic conditions which have adversely affected agriculture to a greater degree than some other lines. It should be understood, however, that for the most part this is not new indebtedness. The bulk of it is made up of the transfer of mortgages previously held by corporations or individuals. Corporations are finding other outlets for their capital and individuals find bonds more convenient. To the existing mortgage, however, there has been added in not a few cases a few hundred dollars of current debts which a "good year" would otherwise have taken care of. Very often it has not been possible for the Board to loan sufficient to clear up all outstanding liabilities. With decreased earnings, there follows inevitably decreased land values and this has called for greater care on the part of the valuers and the Board alike. It has, however, been a great advantage to a large number to have their mortgages taken over with or without the consolidation of current debts and at a lower rate of interest.

General economic conditions have also made themselves prominent in the matter of collections. For the two payment dates during the past fiscal year, over fifty per cent. of the amount due was paid on time, which is perhaps in itself an evidence of the stability of Ontario agriculture even under the most trying conditions. The amount outstanding more than two years is less than ten per cent., but extensions have been numerous for the 1929 and 1930 seasons. Requests to be permitted to feed grain to live stock instead of selling it at sacrifice prices have been numerous, and it has been a service to be able to grant

them in most cases. At the same time, sale proceedings have been necessary in ninety cases. Sale proceedings are taken only as a last resort when the accumulation of two or three years' arrears and taxes and perhaps other debts makes it apparent that a fresh start is in the best interests of the borrower as well as of the Board. These farms for the most part were sold or rented, and very few remained idle for the season. With upwards of ten thousand farms on our books, the Board will necessarily always have some farms on hand for sale.

SHORT TERM ASSOCIATIONS

There was a slight revival of interest during the year in the short term loan association with the result that the total amount outstanding at the end of the year was \$139,064.17 as against \$133,999.68 the previous year. There are only eight associations which may be described as active. There were forty-four loans paid off during the year, but against this there were forty-one new borrowers and seven old borrowers who increased their loans. The principal paid off amounted to \$30,540.51 and the new loans to \$33,603. Of \$9,437.11 interest due, \$7,528.30 was paid. All recommendations for these short term loans are made by the directors of the associations and these accounts are believed to be substantially all sound.

KEMPTVILLE AGRICULTURAL SCHOOL

This institution has had a most successful year. The attendance has increased, returns from our fields and flocks have been satisfactory, and interest in the School has been wide-spread judging from the increased number of visitors during the year and the inquiries for information sent in by farmers as well as the demands made on the staff for attendance at farmers' meetings throughout Eastern Ontario counties.

A new two-year course in Household Science was established during the past year but the attendance so far has been disappointing while the attendance in the agriculture classes is continually increasing.

The attendance in the regular classes was as follows:

Agriculture.....	Senior Year.....	11
	Junior Year.....	40
Domestic Science.....		9
Short Courses.....	Agriculture.....	25
	Teachers'.....	52

An additional storey was added to the Mechanics Building during the past year and a new greenhouse erected. These were necessary to provide sufficient accommodation for the larger classes in agriculture.

A Shropshire ram and Yorkshire hog have been purchased during the year. Believing that an interest can be aroused in the district in the breeding of "hunters," the school secured the thoroughbred stallion "Rancher" owned by the Dominion Live Stock Branch for service. This horse has size, quality and substance of bone and is an excellent type and should sire foals of the hunter type.

FIELD HUSBANDRY

Experiencing one of the best years in its history the Kemptville Agricultural School fields produced excellent crops of all kinds, excelling the previous years' returns generally in quality and yield. The spring opened up reasonably early and from the time growth started the different crops did not receive a check of a serious nature to prevent vigorous growth. Sufficient moisture and heat during the growing season resulted in an abundance of every class of crop grown. Late pasture was perhaps affected due to the dry fall but all other crops did not suffer and they were all harvested in excellent condition.

The hay yields in general were high, especially the alfalfa. Due to the abundance of moisture extra good second cuts were harvested. Where fertilizers were used on new seedings marked increases were obtained when they were cut for hay the first year.

The application of an 0-12-15 mixture with alfalfa at 500 pounds to the acre should be an outstanding practice. Not only was there an increase in the yield of hay but there was an increase of over five bushels of wheat to the acre on the same plot in 1929.

The sweet clover crop for silage was heavy making the outstanding average of eleven tons to the acre. This was ensiled under ideal conditions and is proving to be a splendid feed in every way. Quite a number of farmers are now making a success of this crop, and many inquiries were answered by the

institution regarding the method of growing and of harvesting the crop especially from the silage standpoint. Marked beneficial after effects continue to be noted on the crops following sweet clover. This clover crop works in nicely where after harvest cultivation is practiced.

The grain crop was the best ever obtained on the farm excepting fall wheat which was a few bushels per acre lower than the year previous. Barley was about equal in yield to the past crop, but the oat crop in yield and quality was outstanding. Alaska oats made the fine average of eighty bushels to the acre, which weighed when cleaned forty-seven pounds to the bushel. An exhibit of these oats received first award at the past Royal Seed Show, Toronto, in the registered seed class. This oat has become very popular and there is a keen demand for seed. Five hundred bushels of these oats are available for disposal, measuring in every way up to the standard of the Royal prize-winning sample. They are registered No. 1, second generation. Registered Banner Oats averaged 81.5 bushels to the acre and were a wonderful stand.

The mangel crop, which was grown on a field that was thoroughly cleaned the year previous, was sown early. They responded well to their careful management and yielded when harvested twenty-three tons to the acre for seven acres. Some commercial fertilizer was used in a few plots which gave highly satisfactory results.

The turnip crop was superior to that of the previous year. Quite a marked increase in yield was obtained by using 500 pounds of 0-16-5 fertilizer to the acre. Eight tons more being recorded over the unfertilized plot.

Potatoes followed the previously harvested crops with the excellent yield of 352.9 bushels to the acre for 4.25 acres. They followed a pea crop in 1929 and the peas followed an alfalfa sod that was broken early in 1928. High yields have always been recorded in the institution where potatoes followed any of the legume crops. Twenty tons of manure were applied to the acre. Along with this application of manure some plots were further provided with plant food by the application of commercial fertilizer mixtures. The outstanding one was an 8-16-20 at 500 pounds to the acre with an increase of 128.52 bushels over its check plot. The variety of potato grown and the one giving us continued excellent results is the Irish Cobbler.

The institution continues to most strenuously advocate after harvest cultivation for the control of weeds. A considerable acreage was given this treatment this year on the farm. Half the trouble with cultivated crops are overcome when land is subjected to a severe cultivation the year previous. With the present efficient machines there is not a time more opportune to clean land than after the harvest is garnered and when it is hot and dry. The fall ploughing although it was very dry was all finished. All cultivated acreage was drilled up and left in that condition.

Most of our 1929 grain crop was disposed of for seed to farmers in the district. The demand for good seed is still growing and farmers are giving more consideration to suitable varieties than they did. Our seed cleaning plant as usual has been busy during the fall and winter months. Many bushels of small seed were cleaned last fall, such as Alfalfa, Red Clover, Sweet Clover and Timothy. Due to the fact that many seed merchants will not purchase oats for seed unless they are tailed or scoured the institution installed a machine for this purpose. An outstanding improvement is made by its use. The equipment now is fairly well up to date, and it is felt that the farmers making use of this plant for cleaning and grading their grain will be well repaid. At least 156 farmers of the district made use of this plant.

CHEMISTRY DEPARTMENT

Besides the regular lectures in connection with the courses considerable extension work has been accomplished through addresses at gatherings and experimental fertilizer work.

During the summer of 1930 a soil survey of Grenville County was conducted by the O.A.C. Chemistry Department, and it is hoped that through the classification of the soils, proper fertilizer experiments may be carried on during the coming year on the various classes. In co-operation with several of the fertilizer companies several extensive fertilizer demonstrations were carried out, and many investigations made into the relative value of various mixtures and so forth.

HORTICULTURE DEPARTMENT

The work in Horticulture during the past year has consisted as formerly, in lectures and practical instruction in Pomology, Floriculture, and Vegetable Gardening, together with similar work in the subjects of Botany and Entomology.

During the year assistance was rendered to several Agricultural Representatives during short courses, and when special lectures were requested similar assistance was given to a number of Horticultural Societies and other organizations along horticultural lines.

During the past two years an earnest request was made for increased greenhouse accommodation owing to the increased size of student classes. It is pleasing to report a new greenhouse is practically completed and will be available for student work within the next week or two. This acquisition will greatly facilitate the instructional work in Horticulture. Additions in equipment have also been added to the laboratory where instruction is given in Biology.

Owing to the nature of the previous season a heavy crop of apples was not anticipated in the school orchard, but a fair crop was harvested from such varieties as Wealthy and Duchess, the former having shown little injurious effect from the previous exceptionally dry season. As stated in a previous report the orchard is now being employed as a variety and testing ground for several types of fertilizer, but again the season was not a satisfactory one to obtain evidence of results. It is intended, however, to carry on these fertilizer tests for a number of years until the effect is known either positively or negatively. As formerly, generous assistance was given in doing this work by several firms dealing in fertilizers, and it is sincerely hoped that this assistance may be continued for several seasons to come.

APICULTURE DEPARTMENT

Bees wintered very well last winter and with the opening up of an early spring very few colonies were lost. The summer proved rather peculiar as everything came along fairly early and it was difficult to keep the various grades of honey separated. Buckwheat matured much earlier and nectar was secured from this source while the Sweet Clover was still producing, giving as a result a dark amber grade in many instances.

Robbing was fairly prevalent due to an early maturing of honey producing plants and a very late open fall. Bees went into winter quarters in good condition but heavier feeding was required. A considerable number of inquiries were received and dealt with and inspection for foul brood carried on.

POULTRY DEPARTMENT

The poultry plant has the best year in its history. Egg production was increased and the vigour and health of the birds improved. A particularly gratifying feature was the winning of the Silver Cup for Heavy Breeds in the Michigan Contest. The Kemptville Agriculture School Pen started in the lead and held this enviable position for the full year. A great deal of the credit of this win belongs to Mr. S. Stevenson, the poultryman in charge of the work on the plant. He selected the pen and prepared them for this contest.

During the winter and spring the usual course of lectures and practical instruction was given to the students in poultry. This course consists of a short history of the more common breeds, housing and sanitation, feeding, incubation, breeding and judging.

The extension work continues to increase and more interest is being shown in the production of poultry and poultry products.

There is a rapidly growing demand for some feeding trials at the Kemptville Agricultural School especially in the use of home grown feeds. This work is impossible with the present limited pen space, and hence would necessitate the expenditure of money and labour but the school feels that the project should be started without delay.

FARM MECHANICS AND DRAINAGE DEPARTMENT

The work carried on by the Farm Mechanics and Drainage Department consisted of lectures on the above subjects to the regular and short course students. Outside short courses were also attended and lectures were given on the Soils Train at several points.

The drainage staff was further increased last summer and we were able to make very good progress with our applications. The most gratifying phase of this work is that almost seventy-five per cent. of our surveys were actually installed.

Additional township councils are interesting themselves in the financing of drainage schemes. This necessitates attendance at their meetings to give them information. Interest in drainage work is on the increase and demands for assistance as a consequence will in all probability increase also.

NEW LISKEARD DEMONSTRATION FARM

The New Liskeard area suffered more from wet weather than did any of the surrounding sections, while farther north in the Cochrane District there was not nearly so much rainfall, resulting in the harvesting of better grain crops in that area. The excessive moisture affected particularly the cereal, potato and root crops. An average hay crop was harvested during weather that was somewhat catchy but fairly favourable.

The wet season very forcibly demonstrated the necessity for the use of early maturing varieties of grain and the early seeding of same. A field of O.A.C. No. 3 oats, seeded May 12th, made splendid progress despite the wet weather, due to the fact that it had a full month's start before the rainy season commenced. This crop was harvested and threshed in splendid condition.

It is of interest to note that in the main farmers of the north are realizing more than ever before the necessity for good surface drainage, early seeding and the use of early maturing crops.

The Farm has continued the sale of young breeding stock, more particularly young bulls of the Holstein and Shorthorn breeds, and the enlargement of its Sheep Club policy.

The production of fall wheat remains a major project and continues to give very satisfactory results.

Fertilizer tests gave almost negative results because of the wet weather.

Early and late blight on potatoes was more prevalent than in former years; the condition no doubt being enhanced because of the excessive dampness. The presence of these diseases means that the farmers of the north country must make preparation for the control of same by the use of Bordeaux mixture in order to insure against rot. It is only within the last few years the blight has become a factor in potato production in Eastern-Northern Ontario especially in the clay belt and is now something that must be reckoned with yearly:

PRECIPITATION

Total precipitation for year November 1st, 1929 to October 31st, 1930.	34.04 inches
Average total precipitation for the last five years.	29.41 "
Total precipitation from April 1st, 1930 to October 31st, 1930.	25.24 "
Month having greatest precipitation, June.	9.64 "

TEMPERATURE

Highest temperature during year. . . . .	.87 degrees in June
	87 degrees in July
Lowest temperature during year. . . . .	.48 degrees below
	zero on the 6th
	of February.
Average highest temperature for year. . . . .	.65 .58 degrees
Average lowest temperature for year.	2.75 degrees

SUNSHINE

Days of bright sunshine.	273 days
Total number of hours of bright sunshine.	1,430.1
Average number of hours sunshine per day.	3.91

ANIMAL HUSBANDRY

The Farm still maintains two breeds of cattle, Holstein and Shorthorn, and a survey of the herd records during the year shows that satisfactory results are being obtained.

Efforts to keep up this high standard among the Holsteins in butterfat content have been rewarded with an increase of .05 over that of last year. An average test for the herd of 3.81 is of interest especially in connection with the distribution of young breeding stock throughout the north country.

The average age of the herd, 3.5 years, shows that it is still more or less in the junior class. The performance of the milking Shorthorns was fairly satisfactory. The whole herd is in the Record of Performance Test and is now in the process of being accredited.

Sheep. The Farm maintains its flock of purebred Shropshires and a special effort is being made to keep the flock up to the standard for the breed. Dipping, drenching and docking are strictly adhered to and help to obtain more favourable results from the flock. Drenching is strongly advocated and more of it should be done among sheepmen generally.

The Farm has been most fortunate in that it has not lost any sheep due to the ravages of dogs, but in many of the townships adjacent to the Farm sheepmen have suffered quite severe losses. The sheep industry is of too great importance to the north country to permit a thing of this kind to continue, and efforts to tighten up on The Sheep and Dog Act should be considered. Sheepmen on the other hand must of course realize the importance of coralling sheep at night in order to protect them from dogs.

Hogs. The erection of a hog pen in the fall of 1930 now makes it possible to greatly improve work done with the breeding and distribution of hogs. Winter care and management is a problem in the north, requiring considerable thought and attention.

Rations compounded from home grown products is another thing to be considered and worked out to the advantage of hog producers generally. Only one breed, that of Yorkshire is kept by the Farm, as it is regarded the best suitable to meet northern conditions.

Poultry. The addition of a feed room, incubator room and brooder room, along with another laying house, makes it possible to carry on more extensive work with poultry.

White Leghorns were added to the flock last year so that now two breeds, namely, Barred Rock and Leghorn, make up the poultry population of the Farm. What may be regarded as standard regulations are adopted in connection with the management and care of the flock, special efforts being made to keep pens as sanitary as possible, dry and comfortable.

The Farm poultry flock is becoming more popular all the time and one notes quite an increase in the poultry population of this part of the north country.

Parasites are something that must be kept in mind at all times and efforts made to control same. Special poultry breeders are also realizing the advisability of blood testing for various diseases.

FIELD HUSBANDRY

Hay Crops. The Farm harvested ninety acres of hay crop from a standard mixture which has been used for a number of years. The mixture consists of: seven pounds of Timothy, five pounds of Red Clover, two pounds of Alsike and one pound of Alfalfa. Despite unfavourable weather conditions the crop was harvested in a very satisfactory condition and the yield ranged from one and one-quarter to two tons per acre.

Harvesting commenced on July 12th as compared with July 17th the year previous. Last cutting was done on August 21st, almost a month later than in

1929. It seems no matter how unfavourable weather conditions may be, the north country can invariably depend on a very satisfactory hay crop. This demonstrates again the suitability of the north to live stock work.

Silage. Never before in the history of the Farm was the necessity for having silos so forcibly demonstrated as during 1930. Reference has already been made to the unusually wet season through which grain crops suffered very materially. Forty acres of grain crop were seeded down for hay purposes and clover grew so rank that it was impossible to harvest the oats hence it was decided to put the entire crop into the silos. This was done with excellent results and a large crop saved for feeding purposes which otherwise would almost have been an entire loss. The Farm unhesitatingly recommends the use of silos in the north, more particularly pit silos, where they can be constructed. The Farm also recommends that silos be built inside the barn or stable rather than on the outside.

Grain Crops. Owing to the abnormal season experienced a few very important facts have come to view in working with grain crops as a result of the work on the Farm this last year.

In order to meet climatic conditions in the north wheat and oats should be harvested within 110 days of seeding. Thus the necessity and advisability for early seeding and the use of early maturing varieties of grain crops is easily seen, and the Farm recommends most strongly these types for sowing especially throughout the clay belt.

Surface Drainage. The Farm has at all times advocated the necessity and advisability of giving special attention to adequate surface drainage. Special reference is hereby made to this matter because of the fact that during the last few years rainfall has been a real factor in crop production. Some farmers object to water furrows because of their influence on the working farm machinery but this objection would seem to be ill-advised in comparison with a crop or no crop.

Experimental Work. Results obtained from experimental work while not as satisfactory as results obtained in other years, is of real value in checking up average results over a period of years. The Farm believes that this is the only method available of putting together authentic data for future reference. One notable feature about the plot work is the fact that as in the field crop work, early seeding and early maturing varieties come out on top.

Fertilizer Experiments. The use of fertilizer in connection with the production of fall wheat shows no startling results, and the yield under plot test as compared with the yield under field test worked out about equal.

Dawson's Golden Chaff again demonstrated its superiority over all other varieties for clay belt conditions.

Small Fruits. Very favourable results were obtained from a small plantation of strawberries and raspberries although results were not equal to those obtained in 1929. Some very satisfactory results were obtained from the production of plums and some of the hardy varieties of apples. This work will be enlarged upon after a proper shelter belt has been established.

It would appear from results obtained on the Farm and from an observation of results obtained by citizens of the town of New Liskeard, that harvest apples at least can be grown quite successfully if proper shelter is provided.

Landscape and Horticultural Work. A small beginning was made during the year in landscape and horticultural work about the farm buildings. A lawn was constructed between the farm barn and the road and some trees planted. This work will be enlarged upon during the coming year.

RIDGETOWN DEMONSTRATION FARM

The season was somewhat abnormal due to the light rainfall during the growing season. However, there was sufficient moisture stored in the subsoil to give a particularly good crop of wheat. Beans suffered due to lack of moisture. Sugar beets were apparently damaged by the heat and drought but made remarkable gains after the September rains, and Kent County harvested one of the best crops in the history of the industry. Tobacco reacted much as did the sugar beets; the crop was better than anticipated.

Rainfall during the growing season:

April.....	2.97 inches
May.....	2.86 "
June.....	2.88 "
July.....	1.45 "
August.....	1.67 "
September.....	3.32 "
October.....	1.72 "
Total.....	16.87 "

FARM CROPS

Crops, excepting beans, were satisfactory. The cropping system has changed somewhat owing to the heavy demand for seed wheat and beans. Sufficient roughage is grown to carry twenty steers and six horses through the winter and the latter the entire year. Six acres of tobacco are grown annually.

Crops produced:

Barley.....	14 acres.....	41 bushels per acre—	574 bushels
Wheat.....	34½ acres.....	43 " " " "	—1,484 "
Oats.....	12 acres.....	60 " " " "	— 720 "
Beans.....	30 acres.....	17 " " " "	— 510 "

LIVE STOCK AND POULTRY

The health of the live stock has been excellent. Over ninety spring pigs were reared and practically all of the sows were sold for breeding purposes. The demand was brisker than at any previous time since the farm was purchased. Ontario's production of hogs will be much higher in 1931 than in 1930. The movement had every appearance of a wild endeavour, because of high prices for hogs and cheap feed, to have a sow, regardless of the future. Several of the sows are being crossed this fall and the pigs will be used for experimental work, only because there is every indication that the demand for sows during the fall of 1931 may be light.

STEERS

Cost:

20 steers—19,600 lbs. at \$8.55..... \$1,675 80

Sale:

20 steers—23,250 lbs. at \$10.40..... \$2,418 00

The steers were carefully selected on the Winnipeg yards and no sickness of any kind occurred. They were excellent feeders and finished up well, topping the sales on the Toronto yards the day of sale.

POULTRY

Trap nesting was continued throughout the year with the aim of producing birds of good constitution, good weight, high laying capacity and large eggs. Steady progress is being made and the average production of those birds completing their egg-laying year increases. Eggs and cockerels for breeding are distributed to the farmers at nominal prices and are in greater demand than can be supplied. Nine thousand eggs and one hundred and sixteen cockerels were sent out. An additional breeding house could be used with profit to this section of Ontario.

Many inquiries relative to the better management of farm flocks were received. Diseased birds were often brought in for diagnosis.

This branch is also of great practical value to the Agricultural Vocational School, affording practical work in culling, judging, fattening and general poultry management.

EXTENSION WORK

This branch of work consisted largely of fertilizer tests, the use of weed sprays on Sow Thistle and Field Bindweed, inspection of poultry flocks and meetings of various kinds.

SUMMARY OF PLANT DISEASE WORK IN SOUTHWESTERN ONTARIO, 1930

The weather during the summer of 1930 was very dry—the dry period starting as early as the month of June, hence some of the experiments were not of much value. Experiments were carried on much similar to those of the previous summer either on the Experimental Farm or on some farm in the district.

Apple Orchard Spraying.—Much time was spent during the early part of the season visiting the apple orchard men in Essex and Kent counties, in order to give them as much assistance as possible regarding the best spraying materials to use and the time to apply these. Circular letters with reference to spraying were sent out through the offices of the Agricultural Representatives in Essex and Kent counties.

Greenhouse Work.—A few years ago there were a great many calls from greenhouse men who had considerable trouble with nematodes and various plant diseases attacking such crops as tomatoes, lettuce and cucumbers. Sterilizing the soil by means of tile was strongly advocated and at the present time nearly all the larger greenhouses in the district have been equipped with tile. Hence many of the troubles of a few years ago have been eliminated. Some time, however, has been spent during the past season discussing greenhouse crop diseases with the growers and giving assistance in sterilizing where any difficulties had arisen.

Celery.—An experiment for the purpose of comparing dusting and spraying for the control of celery blight was conducted. Bordeaux mixture (4-8-40) was used as the spray on one plot. Copodust as the dust on another plot and a third plot left as a check. After five applications of spray and seven applications of dust had been put on, the work was discontinued as the plants were about fully grown and no blight was developing on any of the plots.

Beans.—Owing to very dry weather, which started in June, experiments with beans were more or less of a failure, the crop being very poor. Work similar to

that of previous years was continued, viz., to determine if mosaic and anthracnose could be lessened by roguing the plots for mosaic and hand-picking the seed for anthracnose. The seed was from the 1929 crop and the following strains were used and planted in rows sixteen rods long. The plots were examined twice for mosaic and again just before pulling for anthracnose:

1. New York Robust (Ithaca)	2	plants	showing	mosaic.
2. Michigan	"	2	"	"
3. Wisconsin	"	0	"	"

A slight amount of anthracnose (less than one per cent.) was found on the New York strain but only a trace on the Michigan and Wisconsin strains.

Three samples of beans were obtained from Cornell University and planted out in rows each sixteen rods long. The three samples, No. 11, No. 28 and No. 80-1 had all proved immune for the three forms of *C. lindemuthianum* and for mosaic. Owing to weather conditions no definite results were obtained, but seed from these plants has been selected for next year's crop.

Potatoes.—An experiment to determine the value of dusting and spraying late potatoes was carried on in a similar manner to that of 1928 and 1929. Potatoes (Dooleys) were planted on June 10th. One-quarter acre plot was left as a check, being sprayed twice with calcium arsenate to control potato beetles. One-quarter acre plot was sprayed five times with Bordeaux mixture (4-8-40). Calcium arsenate was added to two of the sprayings to control potato beetles. One-quarter acre plot was dusted seven times—three times with Copotex and four times with Copodust. The spraying and dusting was started on July 8th. The last application of spraying was made on August 22nd, and the last application of dust on August 27th.

Treatment	Yield per Acre
Check.....	129.2 bushels
Spray.....	176.9 "
Dust.....	206.6 "

The above result is different from that of the two previous years when the spraying gave the best results.

Raspberries.—An attempt has been made to locate some raspberry plantations which are sufficiently free from disease to class as certified stock, but at the present time none are suitable. One plantation had been suitable for a few years, but it was somewhat neglected for a season and then the farm changed ownership. Owing to the amount of leaf curl that has developed, it is no longer suitable for certified stock.

Much time has been spent on extension work visiting the farmers, fruit growers and market gardeners, and numerous problems pertaining to various crops have been discussed.

HORTICULTURE

Numerous additions were made to the herbaceous borders and rosebeds. Despite the dry summer season, there was an abundance of bloom. Many visitors are attracted to the Farm by the floral display throughout the growing season.

The recreational grounds used by visiting parties and students of the Agricultural Vocational School were extended and improved by addition of a

windbreak and various species of trees. This planting will be continued with the aim of securing a representative collection of native and imported trees.

Fruit trees of bearing age, with the exception of Baldwin apples, bore well both on the farm and throughout the district. The young apple orchard of five acres, planted in 1926, is coming into bearing. Several varieties of peaches originated at Vineland bore their first crop this year and promise to be suitable to our district.

Extensive use of the Farm is made by the pupils attending the adjoining Agricultural Vocational School. The practical study of flowers, shrubs and trees, home grounds; the greenhouse and hotbeds and cold frames are used for practical work in vegetable gardening; much of the pruning of fruit trees, and the earlier spraying is performed by these pupils under guidance of an instructor, who is also one of the Farm staff.

The following are averages of three and four years' work on potatoes, swine and sugar beets. The results have been so consistent over this period that they may be taken as representing reasonably accurate information.

EARLY POTATOES

Average of four years' work:

Amount of fertilizer per acre	Value of increase over check per acre	Value of increase after deducting cost of fertilizer
200 lbs. per acre.....	\$18 10	\$14 16
300 " ".....	19 76	13 85
400 " ".....	25 88	18 00
500 " ".....	22 08	12 23
600 " ".....	24 82	13 00

SWINE

Feeding Corn vs. Barley

Average three years' work.

Corn produced pork at \$7.77 per cwt. Barley at \$7.63 per cwt.

It would appear that corn and barley are interchangeable in the feeding of swine.

SUGAR BEETS—THINNING

Average three years' work	Yield per acre
9 inches apart.....	14 tons, 1,027 lbs.
12 " ".....	14 " 1,520 "
15 " ".....	13 " 871 "
18 " ".....	13 " 592 "
21 " ".....	11 " 278 "

When beets are thinned at a distance greater than twelve inches, there is definite loss to the grower.

Considerable discussion has taken place during the past five years regarding the value of fertilizer in the production of beans.

The method of sowing the fertilizer was changed in 1930—in some plots it was sown through the drill tubes on either side of the bean rows and in others the fertilizer was applied with the beans also.

The acid phosphate gave some burning which was unexpected and accounted in part for the reduced yield.

During nine years no economic results have been had through the fertilization of beans. The work, however, is of sufficient importance to be continued.

HEARST DEMONSTRATION FARM

Operations during the summer season of 1930 were made comparatively easy due to the favourable weather conditions. Snowfalls the preceding winter had been lighter than usual, and the snow disappeared earlier than customary so that it was possible to get on the land the first week in May. Cultivation actually began May 5th with seeding on May 7th when several acres of Alaska oats were sown, which is about two weeks ahead of time for this district. However, heavy rains made some of the lower lying lands unfit for seeding until the first of June.

A seed cleaning plant for use with both seed and feed grain is being installed, and with the production of registered seed undertaken this facility should provide the district with a valuable service. Good practical rotations, cultural methods and management systems will be utilized in connection with the operation of the Farm, including field husbandry, horticulture, animal husbandry, and poultry. Later field days and excursions will be arranged whereby farmers in the entire clay belt may have an opportunity of viewing the results obtained from one of Ontario's newest farm settlements. It is also hoped that foundation stock of desirable types of cattle, sheep, swine and poultry, as well as seed grain best adapted to the district, will be made available to the settlers.

In co-operation with the Northern Development Branch, purebred and grade cows were purchased and kept at the Farm for resale to the settlers as required. A purebred Ayrshire bull was kept for service and a number of purebred Yorkshire pigs were sold to settlers as well as a large flock of Pekin ducks as foundation stock. Owing to the fact that the Farm has recently been taken over by the Department of Agriculture it is not yet fully equipped with livestock, but this feature is to receive special attention during the coming year.

PROVINCIAL ZOOLOGIST

The work of this Branch during the year ending October 31st, 1930, has been very largely directed toward the reduction of parasitism in the live stock of the Province. The losses to the live stock industry, while still heavy, have been appreciably reduced during the past three years. This reduction of loss has been most noticeable in the three classes, sheep, swine and poultry. The distribution of knowledge relating to life-histories, control and treatment for the various parasites attacking domestic animals has been undertaken in a practical way, wherever possible. The most valued form of extension has been the getting together of the interested stock owners, on farms where trouble was being experienced. The stockmen assembled at such "barn-yard" meetings were able to see parasitized animals in life, and also the revealed results of parasitism as shown by the post mortems conducted on such animals. Many meetings of this kind were held, in co-operation with Agricultural Representatives of the Department, in the counties where sheep, swine and poultry raising are important branches of the farm work.

Demonstrations in Swine Parasite Control.

In co-operation with the Live Stock Branch and twenty-five breeders of registered swine in Western Ontario, demonstrations in swine parasite control were conducted. This demonstration work progressed from April to October. All herds were inspected at intervals of one month. These demonstrations were entirely successful.

In co-operation with the Agricultural Representative for Waterloo County and the Federal Inspector of Swine Grading at the abattoirs in Kitchener, six demonstrations were established in Waterloo County, on farms where swine raising was a big item in the farm live stock programme. Loss from parasitism in swine while formerly great on these farms, has now been successfully removed and the general health of the herds raised to a higher standard.

EXHIBITIONS

Zoological exhibits were placed at the Canadian National Exhibition, the Ontario Provincial Winter Fair, the Essex County Grain Show, the Lambton County Grain Show, the International Plowing Match, and at County Fairs, County Plowing Matches, Lamb Fairs and Sheep Club Meetings in various parts of the Province.

LECTURES

Lectures and demonstrations on animal parasitism were given before assemblies of live stock producers, organized under the auspices of the Agricultural Representatives and Federal Live Stock Promoters and Grading Inspectors. These meetings were held in abattoirs at various centres in the Province. Lectures were also given before Short Course students at the Agricultural Short Course Schools in various counties. Lectures and demonstrations were given before the annual meeting of the Nova Scotia Farmers and Live Stock Breeders Association in Truro, Nova Scotia, during the last week of

January. Further lectures were given before the Federal Live Stock Promoters and Grading Inspectors working in the Province of Ontario.

ANTHELMINTICS

A study was made of various drugs, used as anthelmintics, having in view the finding of a formula which would simplify the application of treatment. Two formulae for use against swine parasites were successfully developed. These formulae have been passed on to interested veterinary surgeons for general use in their practices.

CATTLE PARASITES

Considerable study was given to the most serious of the internal parasites attacking cattle during the year and this study was featured in educational propaganda whenever possible. Ontario Department of Agriculture bulletins and posters were prepared and widely distributed.

HORSE PARASITES

A minute examination of the viscera was made of many horses slaughtered last year in the attempt to determine the extent of parasitism in Ontario horses. It was shown that infestation is widespread, being principally of the larvae of the bot flies, ascarids and cylicostomeae and the yearly loss heavy.

COLLEGE TEACHING AND CORRESPONDENCE

Two courses were given by the Provincial Zoologist on Veterinary Physiology, and many bulletins, posters and samples sent out in answer to inquiries on the subject of parasitism in domestic animals.

Ontario Department of Agriculture

ANNUAL REPORT

OF THE

STATISTICS BRANCH
1930

PART I.—AGRICULTURAL STATISTICS

PART II.—CHATTEL MORTGAGES

PRINTED BY ORDER OF
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Ontario Department of Agriculture Statistics Branch

PART 1—AGRICULTURAL STATISTICS

CROP AND LIVESTOCK SUMMARY FOR 1930

The 1930 harvest in Ontario, from a production standpoint, was ahead of the previous year, but there was a considerable decrease in value owing to the low prices received. Cash crops, particularly, experienced a severe decline in prices.

The winter and spring of 1929-1930 were changeable with much alternate thawing and freezing which caused considerable injury to winter crops on clay soils. Spring frosts were more numerous than usual. Seeding got under way later than normal but weather conditions after seeding were favourable and all crops advanced rapidly. With hot dry weather grain ripened early and harvesting took place under ideal conditions. Early crops suffered little damage from drought which prevailed from July 12 to August 15. Grains sown late were short in the straw but produced grain of good quality. Beans suffered greatly from the dry spell. Pastures dried up early and new seedings of alfalfa and clover suffered. Feeding of livestock commenced in some sections from five to six weeks in advance of normal.

Loss from disease and insect pests was quite restricted. Wheat was generally free from rust and potatoes were scarcely affected by rot. Infestation by the corn borer was less serious than in several recent years. The lack of moisture was held responsible for trouble from tobacco worms. Raspberries suffered more than usual from cane borer and in some localities turnips were badly injured by aphids.

The total acreage devoted to the principal crops in Ontario this year was 10,036,473 acres compared with 10,043,367 acres in 1929. Among the grains spring wheat, fall wheat, barley and buckwheat showed a decrease in acreage; oats and mixed grains increased considerable. Specialized crops—beans, husking corn, potatoes, sugar beets and tobacco—had larger acreages than one year ago. Roots showed little change in acreage from the preceding year, Fodder crops, with the exception of fodder corn, were down. Alfalfa, alsike, sweet clover and other hay and clover had smaller acreages. The acreage of orchard and other small fruits was little changed from the previous year.

In 1930 the total yield from crops was greater than in 1929. Those crops which yielded less per acre were beans, hay and clover, alsike and alfalfa. Pastures suffered acutely from drought. From a crop acreage of 10,036,473 in 1930 there was produced 193,005,775 bushels of grain; 9,291,972 tons of forage crops; 18,275,055 bushels of potatoes; 49,864,133 bushels of roots and 27,546,447 pounds of tobacco. In 1929 production from 10,043,367 acres amounted to 156,833,027 bushels of grain; 9,572,475 tons of forage crops; 14,140,088 bushels of potatoes; 44,945,908 bushels of roots and 20,693,776 pounds of tobacco. Fruit production was only fair. Peaches, cherries and pears yielded splendidly. Apples, grapes and berries did not yield as well as in 1929.

Approximately 75 per cent. of the field crop production of Ontario is fed to livestock. Consequently the returns from crops depends largely upon prices of livestock.

The livestock industry remained fairly stable during the year. Prices of livestock and livestock products experienced a relatively small decline as compared with the fall in the values of crops. The revenue from crops does not end with the calendar year, however, and the revenue from 1930 crops has been materially reduced by the persistent decline in livestock prices which has been underway during the first half of 1931.

HORSES.—The number of horses reported on farms June 15, 1930, was 606,719, having a farm value of \$66,603,793 as compared with 606,505 head one year ago having a value of \$60,606,827. The average value per head of horses and colts on farms this year was \$100.00 compared with \$110.00 last year.

CATTLE AND CALVES.—The total number of cattle and calves on hand June 15 was 2,675,488 as compared with 2,671,594 on the same date in 1929. The farm value showed a decline of \$13,984,416 from \$150,480,760 to \$136,496,344 which represented a decrease in the average value per head of milch cows from \$80.34 to \$73.11 and in the value of other cattle from \$35.61 to \$32.42.

SHEEP AND LAMBS.—Sheep and lambs on farms June 15 numbered 1,134,457 having a farm value of \$10,835,770 as compared with 1,130,395 head in 1929 having a farm value of \$12,457,554. The farm value per head was \$9.55 on June 15, 1930, and \$11.02 one year ago.

SWINE.—The estimated number of swine on hand showed some decrease. The number on hand June 15, 1930, was 1,661,556 compared with 1,681,263 on the same date one year ago. The total value was \$18,643,164 and the average value per head \$11.22 as compared with a total value of \$20,430,803 and an average value per head of \$12.15 in 1929.

POULTRY.—The number of poultry on farms continued to increase. The number in 1930 being 22,560,260 as compared with 22,045,091 in 1929. The average value per head was 59 cents, making a total value of \$13,372,682 as compared with 61 cents per head in 1929 and a total value of \$13,473,814.

THE WEATHER

TEMPERATURE.—The following table gives the temperature of the Province for each month during the last five years, together with the mean annual temperature for the six months, April-September, practically the growing season, together with the average for the five years, 1926-1930, and forty-nine years, 1882-1930.

Months	1930	1929	1928	1927	1926	1926- 1930	1882- 1930
	°	°	°	°	°	°	°
January.....	17.8	16.3	20.4	17.8	19.6	18.4	17.9
February.....	22.5	16.5	18.8	23.2	17.2	19.6	17.2
March.....	28.0	33.7	26.6	33.4	22.0	28.7	27.6
April.....	41.1	43.4	38.9	42.2	34.8	40.1	41.8
May.....	55.9	51.4	52.5	51.9	51.1	52.6	53.5
June.....	65.7	61.8	60.6	59.5	58.5	61.2	63.3
July.....	67.6	67.0	68.3	66.9	66.5	67.3	67.2
August.....	66.9	63.6	68.4	62.6	66.3	65.6	65.8
September.....	60.9	60.5	55.8	61.7	57.4	59.3	59.2
October.....	47.2	46.5	49.5	51.1	45.8	48.0	47.5
November.....	38.4	34.1	36.8	37.8	33.9	36.2	35.4
December.....	25.0	20.6	28.6	24.7	20.7	23.9	23.5
Annual Mean.....	44.8	43.0	43.8	44.4	41.2	43.4	43.4
Mean for six months April-September...	59.7	57.9	57.4	57.5	55.8	57.7	58.5

The mean temperature for 1930 was 44.7 degrees or 1.7 degrees higher than preceding year and 0.3 degree above the normal of the forty-nine years, 1882-1930.

The mean of the six growing months, April-September, was 59.7 or 1.8 degrees above the preceding year and 1.2 degrees higher than the forty-nine year normal. Nine months were above and three below normal, ranging from 5.3 degrees above in February to 0.7 degree below in April.

SUNSHINE.—In the following the averages of sunshine are derived from the records of the weather stations at Woodstock, Toronto, Lindsay, Kingston and Ottawa.

Months	Sun above horizon	1930	1929	1928	1927	1926	1926- 1930	1882- 1930
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
January.....	285.7	71.6	90.2	63.2	84.8	55.5	73.0	77.5
February.....	291.4	91.5	98.4	112.1	77.1	94.4	94.7	103.4
March.....	369.9	128.7	110.2	139.8	145.4	166.4	138.1	144.4
April.....	406.4	172.3	135.7	166.4	215.2	178.5	173.6	181.0
May.....	461.1	221.5	214.7	215.7	160.7	262.6	215.0	213.5
June.....	465.7	246.2	248.9	206.9	279.4	249.4	246.2	248.2
July.....	470.9	295.0	293.4	258.1	256.3	282.1	277.0	269.0
August.....	434.5	239.0	247.4	258.4	250.5	187.1	236.5	241.0
September.....	376.3	176.0	180.5	172.7	192.3	137.1	171.7	183.3
October.....	340.2	144.8	121.8	127.9	163.9	112.1	134.1	138.4
November.....	286.9	82.2	77.8	68.8	51.9	60.5	68.2	77.4
December.....	274.3	52.8	35.2	70.2	59.4	66.3	56.8	61.7
For year.....	4,463.3	1,921.6	1,854.2	1,860.2	1,936.9	1,852.0	1,884.9	1,938.8
For six months April-Sep- tember.....	2,614.9	1,350.0	1,320.6	1,278.2	1,354.4	1,296.8	1,320.0	1,336.0

The year 1930 had 1,921.6 hours of sunshine, 17.2 hours less than average for the last forty-nine years. The six growing months, April-September, had 1,350.0 hours or 14.0 hours more than average. Four months were above normal and eight below. July had the greatest departure above with 26.0 hours and March the greatest below normal with 15.7 hours.

PRECIPITATION.—The fall of both rain and snow for the five winter months including November, 1929, and March, 1930, is given in the following table for five years, together with the average for the forty-nine years, 1882-1930. Ten inches of snow is equivalent to one inch of rain.

Months	1930	1929	1928	1927	1926	1926-1930	1882-1930
	in.	in.	in.	in.	in'	in.	in.
November, 1929:							
Rain.....	2.18	2.31	3.85	3.14	2.52	2.80	2.00
Snow.....	9.6	5.9	8.3	13.8	5.3	8.6	7.4
December, 1929:							
Rain.....	0.34	0.74	1.52	0.26	0.66	0.70	1.22
Snow.....	26.0	10.7	17.4	17.1	13.8	17.0	15.4
January, 1930:							
Rain.....	1.51	1.95	0.49	0.34	0.54	0.97	0.91
Snow.....	18.7	25.3	19.4	13.9	17.4	18.9	19.0
February, 1930:							
Rain.....	0.74	0.19	0.74	0.26	0.54	0.49	0.71
Snow.....	11.8	11.6	12.1	19.0	16.0	14.1	15.6
March, 1930:							
Rain.....	1.11	2.13	0.84	0.99	0.82	1.18	1.19
Snow.....	12.2	10.3	17.7	5.9	18.0	12.8	10.7
Five months:							
Rain.....	5.88	7.32	7.44	4.99	5.08	6.14	6.03
Snow.....	78.3	63.8	74.9	69.7	70.5	71.4	68.1

The total amount of rainfall for the five months was 5.88 inches or 0.15 below the average of the forty-nine years, 1882-1930. The total amount of snowfall was 78.3 inches or 10.2 inches above normal.

The rainfall for the six months, April-September, comprising what is regarded as the growing season for most crops is given in the following table covering the last five years, 1926-1930, and the normal for the forty-nine years, 1882-1930.

Months	1930	1929	1928	1927	1926	1926-1930	1882-1930
	in.	in.	in.	in.	in.	in.	in.
April.....	1.49	3.81	1.97	1.19	1.53	2.00	1.88
May.....	2.92	3.08	1.71	3.92	1.47	2.62	2.75
June.....	4.01	2.00	3.94	2.94	3.28	3.23	2.84
July.....	2.44	2.94	4.28	4.36	2.72	3.35	2.89
August.....	1.58	1.55	3.66	1.94	4.10	2.57	2.64
September.....	2.29	1.90	3.27	2.33	4.12	2.78	2.70
Total for six months....	14.73	15.28	18.83	16.68	17.22	16.55	15.70

The rainfall for the six months, April-September, was 14.73 or 0.55 below preceding year, and in comparison with the forty-nine years 0.97 below. Two months were above average and four below. June with 1.17 inch above and August 1.06 inch below had the greatest departures during the growing season.

STATISTICS OF FARM CROPS, 1930

Field Crops	Acres	Production	Bushels per acre	Market Value	
				Total	Per acre
		bush.	bush.	\$	\$ c.
Fall wheat.....	676,802	18,047,207	26.7	11,958,527	17.67
Spring wheat.....	98,966	2,179,204	22.0	1,426,734	14.42
Oats.....	2,468,913	97,481,866	39.5	28,983,780	11.74
Barley.....	609,879	20,910,731	34.3	7,496,760	12.29
Peas.....	80,093	1,581,468	19.7	1,657,822	20.70
Beans.....	67,540	905,498	13.4	1,306,852	19.35
Rye.....	52,881	937,302	17.7	454,565	8.60
Buckwheat.....	275,317	5,675,616	20.6	2,935,428	10.66
Flax.....	5,235	51,257	9.8	78,809	15.05
Corn (in the ear).....	130,094	7,723,347	59.4	3,569,682	27.44
Potatoes.....	159,192	18,275,055	114.8	10,906,175	68.51
Carrots.....	1,772	236,642	134.0	47,328	26.71
Mangels.....	29,055	10,626,135	366.0	2,125,227	73.14
Turnips.....	74,133	25,386,998	342.0	5,077,400	68.49
Sugar Beets.....	38,220	13,614,358	356.0	2,333,909	61.07
Mixed grains.....	958,086	37,512,279	39.2	13,857,314	14.46
		Tons	Tons		
Corn (for silo), green.....	311,817	2,619,049	8.40	10,476,196	33.60
Hay and clover.....	2,849,702	4,353,094	1.53	45,365,729	15.92
Alfalfa.....	641,686	1,409,528	2.20	16,065,846	25.04
Alsike.....	141,480	206,020	1.46	2,010,571	14.21
Sweet clover.....	338,234	704,281	2.08	5,363,894	15.86
Totals: 1930.....	10,009,097	.....	.....	173,498,548	17.33
" 1929.....	10,020,294	.....	.....	236,651,277	23.62

The acreages devoted to other crops in 1930 were as follows:—Orchards, 212,232; strawberries, 7,286; vineyards, 11,586; other small fruits, 12,376; summer fallow, 247,067; pasture (cleared), 3,149,460.

TOBACCO.—It is estimated that 27,376 acres were grown in tobacco in 1930, yielding 27,546,447 pounds, or 1,006 per acre. Of this, Essex had 13,531 acres, 14,775,852 pounds, or 1,092 per acre, and Kent had 6,932 acres, 7,451,900 pounds, or 1,075 per acre.

RAPE.—The estimate for 1930 was 17,275 acres, of which 5,142 are in Wellington, 3,289 in Grey, and 2,639 in Dufferin.

TEMPERATURE, 1930

TABLE I.—Showing for each month the highest, lowest, mean daily range and mean temperature at the principal stations in Ontario for 1930; also the annual mean for each station.

Months	Southampton	Chatham	London	Woodstock	Vineland	Toronto	Lindsay	Beatrice	Ottawa	Montreal River
January:	°	°	°	°	°	°	°	°	°	°
Highest.....	48.0	47.0	44.0	46.0	52.0	46.8	43.4	42.0	45.0	42.0
Lowest.....	-9.4	-8.0	-9.0	-7.0	0.0	-4.0	-15.0	-35.0	-20.0	-34.0
Daily range.....	11.4	13.0	13.3	12.2	13.0	12.2	18.0	17.2	17.6	31.9
Monthly mean.....	19.9	23.0	19.5	18.7	24.7	22.8	17.5	14.4	15.5	2.1
February:										
Highest.....	56.5	64.0	58.0	58.0	56.0	54.8	53.1	48.0	53.5	55.0
Lowest.....	-19.7	1.0	-6.0	8.5	4.0	-5.8	-19.8	-33.0	-19.0	-42.0
Daily range.....	16.3	13.8	15.7	15.3	15.4	14.6	19.5	20.9	20.5	35.9
Monthly mean.....	22.6	32.5	27.4	24.9	29.6	26.8	19.8	16.9	17.3	7.4
March:										
Highest.....	53.5	67.0	64.0	60.0	62.0	51.9	43.8	45.0	47.0	45.0
Lowest.....	9.2	14.0	13.0	13.0	16.0	14.6	0.0	-7.0	2.5	-16.0
Daily range.....	14.1	16.5	15.9	13.1	14.3	12.5	18.3	18.7	15.2	28.5
Monthly mean.....	27.1	34.6	31.0	28.8	33.1	31.1	26.2	22.8	27.6	17.7
April:										
Highest.....	70.0	85.0	81.0	78.5	73.0	71.0	78.1	76.0	74.0	67.0
Lowest.....	20.2	25.0	24.0	23.0	25.0	24.8	17.0	14.0	19.0	7.0
Daily range.....	17.6	22.7	21.3	18.3	19.1	16.3	22.1	22.7	22.2	26.9
Monthly mean.....	39.2	47.1	43.9	42.5	44.1	42.9	40.1	36.9	41.2	33.2
May:										
Highest.....	83.5	89.1	86.0	84.5	90.0	86.8	87.6	81.0	88.0	87.0
Lowest.....	29.6	35.0	32.0	33.5	36.0	35.2	28.1	24.0	32.5	19.0
Daily range.....	20.0	23.0	22.8	19.1	23.4	19.6	24.2	23.6	20.9	31.3
Monthly mean.....	53.4	60.0	57.4	55.7	58.8	57.5	55.4	53.4	57.6	50.3
June:										
Highest.....	86.5	90.0	88.0	83.0	90.0	90.6	89.7	85.0	89.0	88.0
Lowest.....	40.1	47.0	43.0	40.8	43.0	46.0	44.0	38.0	42.0	33.0
Daily range.....	19.7	21.9	21.9	18.3	22.7	20.0	21.5	21.1	20.4	27.5
Monthly mean.....	62.3	69.7	66.7	64.3	69.0	66.9	66.2	63.7	67.8	60.6
July:										
Highest.....	86.0	101.0	96.0	91.0	95.0	91.6	91.4	87.0	91.5	90.0
Lowest.....	42.7	44.0	40.0	41.0	46.0	49.7	43.0	38.0	44.5	37.0
Daily range.....	18.2	25.3	26.7	22.8	24.8	21.7	14.8	23.2	20.2	31.2
Monthly mean.....	64.1	73.3	70.2	68.0	71.8	70.1	67.2	63.2	68.0	60.4
August:										
Highest.....	84.2	98.0	96.0	92.0	98.0	95.0	93.2	82.0	87.0	87.0
Lowest.....	42.0	47.0	40.0	41.0	48.0	46.0	34.7	36.0	42.0	31.0
Daily range.....	20.3	25.3	21.0	23.5	22.8	21.0	26.3	23.2	22.6	30.3
Monthly mean.....	65.1	71.8	69.1	67.2	70.6	69.1	65.4	62.7	67.0	60.6
September:										
Highest.....	84.5	87.0	90.0	86.0	89.0	87.2	85.7	82.0	90.0	82.0
Lowest.....	37.1	37.0	36.0	37.5	40.0	39.2	38.0	33.0	38.5	28.0
Daily range.....	18.5	22.7	24.6	20.2	21.7	19.0	23.0	22.5	20.0	27.6
Monthly mean.....	60.6	65.6	63.1	61.9	65.6	63.1	59.9	56.2	60.8	52.2
October:										
Highest.....	79.0	80.0	79.0	76.0	79.0	75.0	79.1	76.0	82.0	78.0
Lowest.....	21.0	25.0	21.0	21.0	25.0	27.1	21.0	18.0	25.0	12.0
Daily range.....	16.6	19.6	21.7	18.5	16.9	14.6	21.3	18.5	20.4	23.2
Monthly mean.....	47.2	50.8	47.9	46.9	49.1	49.0	46.5	43.8	47.9	42.8
November:										
Highest.....	66.2	72.0	64.0	63.0	65.0	60.6	59.6	61.0	59.0	55.0
Lowest.....	9.4	10.0	5.0	0.0	13.0	12.8	-8.0	0.0	2.5	-9.0
Daily range.....	13.6	15.8	14.6	13.0	14.0	11.8	15.7	13.1	14.2	17.2
Monthly mean.....	39.9	42.2	38.8	38.5	41.7	40.8	36.9	36.1	37.6	32.0
December:										
Highest.....	42.0	51.0	47.0	45.0	47.0	45.3	41.6	39.0	40.0	39.0
Lowest.....	0.8	5.0	0.0	1.0	6.0	0.8	-16.5	-17.0	-10.5	-24.0
Daily range.....	10.7	10.7	10.4	10.2	11.2	9.9	15.6	13.4	13.7	20.3
Monthly mean.....	27.0	28.7	26.6	25.7	29.6	28.7	23.8	21.6	22.3	16.0
Annual mean.....	44.0	49.9	46.8	45.3	49.0	47.4	43.7	41.0	44.2	36.3

AVERAGE TEMPERATURE FOR FORTY-NINE YEARS

TABLE II.—Showing for each month the monthly average for the highest, lowest, mean daily range and mean temperature at the principal stations in Ontario, derived from the forty-nine years, 1882-1930; also the annual mean at each station for the same period.

Months	Southampton	Chatham	London	Woodstock	Vineland	Toronto	Lindsay	Beatrice	Ottawa	Montreal River
January:										
Highest.....	44.0	46.1	45.5	45.3	49.1	45.1	41.3	40.6	40.4	38.0
Lowest.....	-7.6	-7.7	-9.6	-10.5	-4.9	-7.0	-20.1	-27.6	-21.5	-34.4
Daily range.....	14.4	12.5	15.0	15.5	14.5	14.4	18.1	20.5	17.8	24.4
Monthly mean.....	20.7	21.9	21.3	20.1	24.6	22.4	15.9	13.9	11.5	6.0
February:										
Highest.....	43.8	49.0	46.5	45.3	47.8	45.1	41.9	41.8	40.4	41.0
Lowest.....	-11.4	-7.9	-10.1	-10.1	-5.1	-6.6	-17.6	-26.6	-19.9	-34.2
Daily range.....	16.6	14.1	16.5	16.2	15.3	15.0	19.6	22.0	19.0	24.9
Monthly mean.....	18.9	21.7	20.8	19.5	23.2	21.6	15.7	13.7	12.9	8.8
March:										
Highest.....	54.8	60.4	60.2	57.4	60.6	57.2	53.2	51.3	50.2	51.5
Lowest.....	-2.4	1.8	0.8	0.3	6.0	4.6	-6.3	-12.7	-7.3	-22.8
Daily range.....	16.8	15.5	17.6	16.5	15.2	14.7	18.8	20.7	17.5	25.4
Monthly mean.....	27.2	31.1	30.4	28.7	32.7	30.3	26.0	23.9	24.8	20.4
April:										
Highest.....	72.4	77.5	76.5	74.4	76.8	71.4	74.1	71.1	73.6	72.2
Lowest.....	15.8	19.2	18.4	17.7	20.7	20.9	13.9	9.9	15.2	4.6
Daily range.....	17.6	18.7	20.7	19.7	17.6	16.9	21.1	21.2	19.4	24.4
Monthly mean.....	40.2	44.2	43.5	42.2	44.1	42.9	41.5	39.1	41.2	37.7
May:										
Highest.....	79.7	83.7	83.5	80.7	84.5	80.7	83.1	80.8	83.2	84.3
Lowest.....	28.3	29.8	29.2	29.3	32.8	32.1	27.7	26.1	31.1	19.6
Daily range.....	19.4	21.4	23.2	21.6	20.5	19.2	24.2	23.2	21.9	26.5
Monthly mean.....	50.7	55.5	55.1	53.5	54.5	53.9	53.7	51.8	54.9	51.2
June:										
Highest.....	85.1	89.5	89.4	86.4	91.1	87.9	89.0	86.5	88.3	90.0
Lowest.....	37.3	38.6	38.0	38.3	41.0	42.0	37.9	35.4	41.5	33.3
Daily range.....	19.9	22.0	23.5	22.1	21.5	20.4	24.7	24.3	21.5	27.6
Monthly mean.....	60.3	65.2	64.9	63.2	65.1	64.1	63.5	61.8	64.5	61.2
July:										
Highest.....	87.3	93.2	92.8	89.4	92.6	91.3	91.7	89.3	91.1	91.8
Lowest.....	43.9	44.7	44.1	44.4	48.0	48.7	43.7	41.9	48.0	39.7
Daily range.....	20.0	22.3	23.5	22.4	21.4	20.5	24.8	23.5	20.8	26.3
Monthly mean.....	66.0	69.9	69.5	67.6	70.9	69.3	67.8	66.2	68.9	65.3
August:										
Highest.....	85.8	91.3	91.2	88.3	92.7	89.1	89.8	87.3	88.8	88.3
Lowest.....	41.9	43.3	41.0	41.7	45.7	46.6	40.4	37.7	43.9	36.5
Daily range.....	18.3	21.5	23.7	23.1	21.2	21.7	24.4	23.2	20.9	25.5
Monthly mean.....	64.5	67.9	66.9	65.2	68.8	66.3	65.4	63.8	66.2	62.3
September:										
Highest.....	84.1	88.1	87.3	84.8	89.3	85.5	85.5	82.9	84.7	83.4
Lowest.....	34.5	35.0	32.3	32.5	36.1	36.8	31.8	30.2	33.5	28.8
Daily range.....	18.2	20.1	22.4	21.3	20.4	18.7	22.9	21.6	20.7	23.7
Monthly mean.....	59.1	61.9	60.8	59.3	62.5	60.7	58.4	57.2	58.6	54.9
October:										
Highest.....	74.6	76.9	76.3	74.4	77.5	73.9	74.4	72.5	72.6	73.1
Lowest.....	25.8	26.6	24.3	24.2	26.5	27.3	21.5	20.8	24.4	17.7
Daily range.....	16.1	17.5	20.1	18.7	18.6	16.4	20.0	18.9	17.7	19.8
Monthly mean.....	48.2	50.1	48.6	47.4	50.6	48.8	46.4	45.6	46.2	43.0
November:										
Highest.....	61.2	63.5	62.1	61.3	65.1	60.7	59.6	58.5	58.5	55.4
Lowest.....	14.4	14.8	13.3	12.2	17.6	15.8	6.4	5.6	7.3	-1.6
Daily range.....	13.1	12.6	14.4	14.2	13.9	12.7	15.1	14.5	12.5	15.2
Monthly mean.....	36.9	37.9	36.9	35.8	39.6	37.8	33.9	33.1	32.9	29.1
December:										
Highest.....	48.9	50.0	52.1	48.9	53.1	48.7	45.4	44.4	43.0	42.9
Lowest.....	0.7	1.0	-1.3	-2.3	0.0	0.2	-12.4	-15.2	-14.3	-24.9
Daily range.....	12.4	10.8	13.1	13.1	12.5	12.4	15.8	16.9	14.6	19.4
Monthly mean.....	26.6	27.0	26.5	25.1	29.1	27.5	21.4	20.3	18.1	13.9
Annual mean.....	43.3	46.2	45.4	44.0	47.1	45.5	42.5	40.9	41.7	37.8

RAIN AND SNOW

TABLE III.—Summary of the total fall of rain and snow and the number of days on which rain and snow fell in Ontario during 1930, at stations reporting the whole year, and the average of the Province.

Stations	Rain		Snow		Stations	Rain		Snow	
	Inches	Days	Inches	Days		Inches	Days	Inches	Days
ALGOMA:					NORFOLK:				
Biscotasing.....	20.01	60	49.2	36	Simcoe.....	22.18	90	71.0	44
Franz.....	22.31	85	60.5	30	NORTHUMBERLAND:				
Kapuskasing.....	19.39	86	97.0	46	Healey Falls.....	23.57	86	46.3	38
Steep Hill Falls....	27.56	75	166.4	44	OXFORD:				
BRANT:					Woodstock.....	16.47	86	56.7	63
Paris.....	21.62	90	60.3	39	PARRY SOUND:				
BRUCE:					Magnetawan.....	23.37	100	111.0	64
Southampton.....	22.62	103	125.5	78	Nipissing.....	16.13	108	71.4	49
Tobermory.....	15.24	44	54.0	22	Parry Sound.....	23.06	114	142.7	75
Warton.....	19.39	65	177.0	54	PEEL:				
Walkerton.....	17.46	57	119.8	44	Alton.....	22.09	72	126.5	46
CARLETON:					PERTH:				
Ottawa.....	23.54	112	54.5	48	Stratford.....	22.88	82	103.7	57
DUNDAS:					PETERBOROUGH:				
Morrisburg.....	27.79	76	53.0	35	Apsley.....	26.73	108	62.5	37
DURHAM:					Lakefield.....	17.53	67	52.0	26
Orono.....	22.05	80	55.1	37	Peterborough.....	21.61	92	76.5	44
ELGIN:					PRINCE EDWARD:				
St. Thomas.....	25.53	79	45.0	30	Bloomfield.....	21.73	68	61.5	31
ESSEX:					RAINY RIVER:				
Harrow.....	10.28	57	27.6	32	Emo.....	18.24	73	45.3	39
Leamington.....	20.57	54	24.0	17	Fort Frances.....	20.63	75	57.3	28
FRONTENAC:					Kenora.....	18.45	53	54.5	33
Kingston.....	25.74	116	18.1	38	Mine Centre.....	19.67	88	49.2	56
GREY:					Sioux Lookout.....	17.74	79	47.0	32
Eugenia.....	9.39	50	83.0	40	Atikokan.....	17.95	64	41.7	32
HASTINGS:					RENFREW:				
Belleville.....	21.10	96	48.0	31	Clontarf.....	17.61	70	39.4	27
Queensboro.....	17.73	82	58.0	22	Pembroke.....	20.30	88	49.0	36
Trenton.....	23.75	79	57.3	31	SIMCOE:				
HURON:					Beeton.....	17.09	44	52.5	19
Brucefield.....	22.16	64	48.3	30	Orillia.....	23.40	111	73.3	48
Ridgecrest.....	18.76	91	75.3	30	Washago.....	26.94	129	77.8	42
KENORA:					SUDBURY:				
Ignace.....	17.00	60	48.5	16	Chapleau.....	19.96	86	83.5	31
KENT:					Coniston.....	22.39	74	59.0	40
Chatham.....	19.25	58	47.0	25	Timmins.....	16.92	86	57.2	38
LEEDS:					THUNDER BAY:				
Brockville.....	20.02	50	30.9	16	Kakabeka Falls....	22.29	93	46.0	27
LINCOLN:					Port Arthur.....	25.56	83	29.0	32
St. Catharines....	17.93	74	33.8	35	Savanne.....	15.28	70	28.1	28
Vineland.....	20.71	97	31.9	29	Schreiber.....	18.20	68	42.8	21
MANITOULIN:					VICTORIA:				
Providence Bay....	16.91	39	125.0	31	Fenelon Falls.....	22.62	103	63.8	49
MIDDLESEX:					Lindsay.....	20.49	90	57.4	47
London.....	28.87	99	115.1	69	WATERLOO:				
Lucan.....	19.09	85	100.4	74	Kitchener.....	21.42	78	55.6	40
MUSKOKA:					WELLINGTON:				
Beatrice.....	22.70	99	125.0	41	Guelph.....	19.77	70	47.9	40
Walker's Point....	25.74	119	126.3	53	YORK:				
NIPISSING:					Agincourt.....	21.04	78	39.9	40
Algonquin Park....	17.89	66	53.0	25	Toronto.....	21.44	93	43.0	54
Iroquois Falls....	19.13	111	105.5	69	Average for the				
Madawaska.....	16.55	58	28.0	16	Province: 1930....	20.95	81	65.7	39
Montreal River....	27.81	107	72.8	56	1929.....	24.83	82	88.5	46
New Liskeard....	26.37	92	65.5	40	1928.....	27.75	94	70.3	37
North Bay.....	19.78	76	59.4	33	1882-1930....	24.35	74	72.7	39
Rutherglen.....	19.12	73	85.0	36					

RAIN AND SNOW

TABLE IV.—Monthly summary of inches of rain and snow in precipitation in the several districts in Ontario in 1930. Also the average derived from the forty-nine years, 1882-1930.

Months	West and Southwest		North and Northwest		Centre		East and Northeast		The Province	
	Rain	Snow	Rain	Snow	Rain	Snow	Rain	Snow	Rain	Snow
1930	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
January.....	2.23	19.6	0.09	13.1	1.68	23.8	2.06	18.2	1.51	18.7
February.....	1.22	13.5	0.37	10.2	0.89	12.5	0.49	11.2	0.74	11.8
March.....	0.82	15.2	0.21	14.1	1.56	10.5	1.83	9.2	1.11	12.2
April.....	1.57	2.2	1.09	3.4	1.45	3.0	1.83	0.8	1.49	2.4
May.....	2.74	.....	2.71	.....	2.85	.....	3.37	.....	2.92	.....
June.....	3.99	.....	5.36	.....	3.60	.....	3.10	.....	4.01	.....
July.....	1.29	.....	2.64	.....	2.52	.....	3.29	.....	2.44	.....
August.....	1.13	.....	1.62	.....	1.88	.....	1.71	.....	1.58	.....
September.....	1.71	.....	3.23	.....	2.45	.....	1.76	.....	2.29	.....
October.....	1.56	2.7	1.51	4.0	1.58	4.6	0.95	0.8	1.40	3.0
November.....	1.21	10.4	1.27	5.0	0.78	5.0	1.07	3.2	1.07	5.9
December.....	0.50	11.4	0.02	13.9	0.47	14.3	0.59	7.1	0.39	11.7
The year.....	19.97	75.0	20.12	63.7	21.65	73.7	22.05	50.5	20.95	65.7
1882-1930										
January.....	1.14	16.4	0.54	22.7	10.2	17.1	0.94	19.7	0.91	19.0
February.....	1.05	13.8	0.36	18.0	0.83	14.2	0.59	16.5	0.71	15.6
March.....	1.41	8.7	0.83	13.1	1.32	9.8	1.20	11.4	1.19	10.7
April.....	2.17	2.1	1.51	4.4	2.08	3.0	1.77	3.6	1.88	3.3
May.....	3.06	0.1	2.48	0.2	2.78	0.1	2.69	0.1	2.75	0.1
June.....	2.95	.....	2.79	S	2.80	.....	2.81	.....	2.84	.....
July.....	2.76	.....	2.98	.....	2.91	.....	2.89	.....	2.89	.....
August.....	2.71	.....	2.79	.....	2.44	.....	2.62	.....	2.64	.....
September.....	2.68	.....	3.09	.....	2.46	.....	2.57	S	2.70	.....
October.....	2.71	0.8	2.78	2.3	2.58	0.7	2.53	1.0	2.65	1.2
November.....	2.29	5.5	1.68	11.7	2.03	5.3	1.93	7.0	1.98	7.4
December.....	1.91	14.4	0.71	20.3	1.16	12.6	1.05	14.2	1.21	15.4
The year.....	26.84	61.8	22.54	92.7	24.41	62.8	23.59	73.5	24.35	72.7

SUNSHINE

TABLE V.—Monthly summary of bright sunshine at the principal stations in Ontario for 1930 showing the number of hours the sun was above the horizon, the hours of registered sunshine, the total for the year and average derived from the forty-nine years, 1882-1930.

Months	Sun above horizon	Woodstock	Toronto	Lindsay	Kingston	Ottawa	Average of five stations		
							1930	1929	1882-1930
1930	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
January	285.7	80.8	83.3	61.7	64.0	68.0	71.6	90.2	.....
February	291.4	83.6	88.7	67.1	100.4	117.5	91.5	98.4	.....
March	369.9	117.4	138.8	111.4	134.6	141.3	128.7	110.2	.....
April	406.4	166.8	181.8	149.6	170.9	192.5	172.3	135.7	.....
May	461.1	257.6	247.9	180.1	213.6	208.4	221.5	214.7	.....
June	465.7	288.1	268.2	200.2	233.6	240.9	246.2	248.9	.....
July	470.9	341.1	325.8	231.5	292.7	284.1	295.0	293.4	.....
August	434.5	257.4	244.4	195.6	250.4	247.0	239.0	247.4	.....
September	376.3	181.6	200.1	155.4	189.4	153.6	176.0	180.5	.....
October	340.2	146.2	144.0	128.0	148.5	157.5	144.8	121.8	.....
November	286.9	75.4	90.1	71.9	92.4	81.3	82.2	77.8	.....
December	274.3	57.3	55.2	45.5	55.8	50.4	52.8	35.2	.....
The year	4,463.3	2,053.3	2,068.3	1,598.0	1,946.3	1,942.5	1,921.6	1,854.2	.....
1882-1930									
January		66.6	78.7	74.0	79.2	88.9	.....	.....	77.5
February		90.5	106.3	98.4	109.2	112.3	.....	.....	103.3
March		127.0	153.7	142.2	145.8	152.8	.....	.....	144.3
April		169.2	188.9	176.4	180.1	190.7	.....	.....	181.1
May		214.1	225.2	203.9	210.0	213.9	.....	.....	213.4
June		253.8	263.7	233.2	249.5	240.9	.....	.....	248.2
July		278.0	286.0	248.2	271.6	261.6	.....	.....	269.0
August		237.3	253.7	223.3	247.7	242.8	.....	.....	241.0
September		176.2	204.7	178.3	182.5	174.6	.....	.....	183.3
October		145.4	152.3	127.1	134.3	133.2	.....	.....	138.5
November		75.2	82.5	68.3	79.4	81.6	.....	.....	77.4
December		54.8	64.7	55.5	67.7	66.5	.....	.....	61.8
The year		1,888.1	2,060.4	1,828.8	1,957.0	1,959.8	.....	.....	1,938.8

RURAL AREA ASSESSED

TABLE VI.—Showing by County Municipalities the rural area of Ontario as returned by Municipal Assessors for 1930 to the Bureau of Municipal Affairs.

Counties and Districts	Acres of Assessed Land			Acres Cleared			Per cent. cleared
	Resident	Non-resident	Total	Resident	Non-resident	Total	
Algoma.....	276,526	57,491	334,017	64,802	3,364	68,166	20.41
Brant.....	214,286	82	214,368	179,158	82	179,240	83.61
Bruce.....	917,184	14,873	932,057	577,759	7,113	584,872	62.75
Carleton.....	554,858	8,615	563,473	381,894	4,592	386,486	68.59
Cochrane.....	140,410	27,873	168,283	22,692	615	23,307	13.85
Dufferin.....	356,013	283	356,296	284,413	.....	284,413	79.82
Dundas.....	236,389	.....	236,389	187,476	.....	187,476	79.31
Durham.....	365,607	3,454	369,061	308,973	1,865	310,838	84.22
Elgin.....	436,255	200	436,455	367,265	200	367,465	84.19
Essex.....	409,260	4,852	414,112	371,183	3,953	375,136	90.59
Frontenac.....	617,819	67,192	685,011	240,263	11,439	251,702	36.74
Glengarry.....	288,058	925	288,983	202,083	90	202,173	69.96
Grenville.....	268,372	4,180	272,552	183,673	3,850	187,523	68.80
Grey.....	1,064,376	639	1,065,015	702,450	78	702,528	65.96
Haldimand.....	277,870	3,369	281,239	244,618	2,872	247,490	88.00
Haliburton.....	525,369	56,208	581,577	43,266	7,257	50,523	8.69
Halton.....	216,025	8,533	224,558	169,885	2,877	172,762	76.93
Hastings.....	987,123	102,396	1,089,519	417,268	4,550	421,818	38.72
Huron.....	789,299	11,095	800,394	671,957	9,966	681,653	85.16
Kenora.....	77,762	13,845	91,607	9,628	1,348	10,976	11.98
Kent.....	560,961	6,022	566,983	493,827	4,007	497,834	87.80
Lambton.....	661,864	407	662,271	546,020	.....	546,020	82.45
Lanark.....	663,298	10,169	673,467	338,803	3,637	342,440	50.85
Leeds.....	466,665	3,435	470,100	273,281	854	274,135	58.31
Lennox & Addington	426,759	7,080	433,839	254,236	831	255,067	58.79
Lincoln.....	188,401	1,077	189,478	164,371	943	165,314	87.25
Manitoulin.....	268,815	79,357	348,172	49,924	1,507	51,431	14.77
Middlesex.....	740,048	15,662	755,710	660,954	13,895	674,849	89.30
Muskoka.....	527,330	42,834	570,164	73,194	2,253	75,447	13.23
Nipissing.....	292,159	17,632	309,791	66,204	2,278	68,482	22.11
Norfolk.....	391,343	2,570	393,913	280,949	1,585	282,534	71.72
Northumberland.....	433,454	803	434,257	358,617	802	359,419	82.77
Ontario.....	505,072	1,585	506,657	385,866	.....	385,866	76.16
Oxford.....	468,283	3,266	471,549	403,428	2,465	405,893	86.08
Parry Sound.....	549,895	90,398	640,293	87,355	4,490	91,845	14.34
Peel.....	286,975	615	287,590	261,844	445	262,289	91.20
Perth.....	512,550	6,068	518,618	456,343	3,488	459,831	88.66
Peterborough.....	512,768	69,130	581,898	256,539	12,571	269,110	46.25
Prescott.....	290,594	2,509	293,103	220,481	2,356	222,837	76.03
Prince Edward.....	234,618	651	235,269	198,102	.....	198,102	84.20
Rainy River.....	304,506	96,032	400,538	49,723	7,054	56,777	14.18
Renfrew.....	1,021,774	62,847	1,084,621	389,290	15,294	404,584	37.30
Russell.....	248,546	3,343	251,889	169,622	5	169,627	67.34
Simcoe.....	945,021	12,629	957,650	683,334	10,502	693,836	72.45
Storont.....	245,908	2,500	248,408	166,378	500	166,878	67.18
Sudbury.....	283,332	118,813	402,145	68,271	11,259	79,530	19.78
Thunder Bay.....	430,444	42,784	473,228	43,237	5,290	48,527	10.25
Timiskaming.....	243,103	61,194	304,297	67,877	7,191	75,068	24.67
Victoria.....	579,891	12,386	592,277	292,687	4,257	296,944	50.14
Waterloo.....	305,204	1,754	306,958	255,503	1,430	256,933	83.70
Welland.....	219,540	2,797	222,337	181,350	2,218	183,568	82.56
Wellington.....	621,434	5,989	627,423	506,739	4,107	510,846	81.42
Wentworth.....	265,846	.....	265,846	209,507	.....	209,507	78.81
York.....	530,865	1,306	532,171	444,003	1,320	445,323	83.68
The Province:							
1930.....	24,246,127	1,171,749	25,417,876	14,988,565	194,675	15,183,240	59.73
1929.....	24,250,377	1,155,083	25,405,460	14,985,586	178,311	15,163,897	59.69
1928.....	24,304,661	1,101,157	25,405,818	14,978,926	173,513	15,152,439	59.64

NOTE.—Statistics regarding non-resident lands which should include unoccupied lands assessable are not satisfactory, as many assessors do not make any distinction on their rolls.

FALL WHEAT AND SPRING WHEAT

TABLE VII.—Showing by County Municipalities of Ontario the area, produce and market value of Fall Wheat and Spring Wheat for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Fall Wheat				Spring Wheat			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
Algoma.....	90	2,025	22.5	1,458	762	15,621	20.5	11,247
Brant.....	15,225	359,310	23.6	242,894	407	9,158	22.5	6,081
Bruce.....	25,529	671,413	26.3	434,404	1,010	22,826	22.6	14,700
Carleton.....	261	6,264	24.0	4,197	5,104	112,288	22.0	75,121
Cochrane.....	33	660	20.0	449	54	1,188	22.0	796
Dufferin.....	2,211	62,571	28.3	40,921	2,177	50,071	23.0	32,296
Dundas.....	55	1,375	25.0	914	1,127	27,837	24.7	18,372
Durham.....	8,859	252,482	28.5	171,183	4,630	93,063	20.1	58,909
Elgin.....	22,416	544,709	24.3	365,500	267	5,874	22.0	3,889
Essex.....	50,497	1,383,618	27.4	917,339	870	18,531	21.3	11,675
Frontenac.....	187	4,993	26.7	3,375	880	22,000	25.0	15,730
Glengarry.....	112	2,688	24.0	1,774	1,855	37,286	20.1	26,063
Grenville.....	51	1,275	25.0	829	715	16,588	23.2	10,699
Grey.....	24,122	658,531	27.3	440,557	2,687	62,607	23.3	42,385
Haldimand.....	17,404	365,484	21.0	250,357	1,540	30,030	19.5	20,480
Haliburton.....	8	160	20.0	104	58	870	15.0	566
Halton.....	5,732	132,409	23.1	91,892	1,242	27,697	22.3	17,477
Hastings.....	3,155	82,030	26.0	59,718	1,891	38,766	20.5	27,873
Huron.....	35,843	1,053,784	29.4	673,368	3,026	73,834	24.4	46,515
Kenora.....	3	60	20.0	40	55	1,320	24.0	884
Kent.....	71,958	1,978,845	27.5	1,286,249	1,851	40,167	21.7	25,386
Lambton.....	49,337	1,351,834	27.4	878,692	1,500	35,250	23.5	21,291
Lanark.....	285	6,954	24.4	4,520	4,238	98,745	23.3	65,172
Leeds.....	427	11,273	26.4	8,218	1,074	24,487	22.8	17,533
Lennox & Add'gton	852	22,067	25.9	15,248	2,112	51,110	24.2	34,244
Lincoln.....	10,003	184,055	18.4	136,753	302	5,134	17.0	3,650
Manitoulin.....	193	4,188	21.7	3,015	654	13,472	20.6	9,700
Middlesex.....	44,191	1,135,709	25.7	746,161	695	14,665	21.1	9,547
Muskoka.....	35	700	20.0	455	124	2,232	18.0	1,451
Nipissing.....	12	240	20.0	160	677	14,149	20.9	9,437
Norfolk.....	19,307	471,091	24.4	334,475	396	8,712	22.0	5,950
Northumberland...	8,561	236,284	27.6	154,057	2,178	40,729	18.7	26,677
Ontario.....	15,497	443,214	28.6	313,796	3,183	73,527	23.1	50,219
Oxford.....	24,642	660,406	26.8	459,643	247	4,940	20.0	3,335
Parry Sound.....	2	40	20.0	27	387	6,966	18.0	4,737
Peel.....	10,123	267,247	26.4	174,780	4,693	105,123	22.4	66,122
Perth.....	26,546	777,798	29.3	512,569	538	12,535	23.3	8,248
Peterborough.....	10,563	298,933	28.3	198,790	1,621	32,420	20.0	20,976
Prescott.....	79	1,738	22.0	1,217	2,552	45,936	18.0	31,512
Prince Edward....	2,375	54,863	23.1	37,691	834	15,346	18.4	10,144
Rainy River.....	15	375	25.0	255	837	16,740	20.0	11,383
Renfrew.....	569	13,827	24.3	8,628	18,338	405,270	22.1	259,373
Russell.....	48	1,104	23.0	775	1,501	31,971	21.3	22,092
Simcoe.....	62,704	1,649,115	26.3	1,029,048	1,335	28,169	21.1	16,901
Stormont.....	88	2,024	23.0	1,275	545	11,336	20.8	7,198
Sudbury.....	49	980	20.0	686	926	20,557	22.2	14,287
Thunder Bay.....	19	437	23.0	284	883	20,486	23.2	13,562
Timiskaming.....	33	792	24.0	560	1,685	37,070	22.0	25,208
Victoria.....	10,989	304,395	27.7	196,944	2,781	57,567	20.7	34,367
Waterloo.....	21,998	593,946	27.0	406,259	101	2,151	21.3	1,362
Welland.....	16,221	368,217	22.7	261,434	172	3,732	21.7	2,631
Wellington.....	11,097	305,168	27.5	204,768	2,388	58,984	24.7	38,635
Wentworth.....	11,700	230,490	19.7	165,031	857	16,454	19.2	11,962
York.....	34,491	1,083,017	31.4	714,791	6,404	155,617	24.3	100,684
The Province:								
1930.....	676,802	18,047,207	26.7	11,958,527	98,966	2,179,204	22.0	1,426,734
1929.....	691,662	17,820,739	25.8	22,092,590	106,610	1,929,892	18.1	2,416,054

OATS AND BARLEY

TABLE VIII.—Showing by County Municipalities of Ontario the area, produce and market value of Oats and Barley for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Oats				Barley			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
Algoma.....	9,576	333,245	34.8	129,966	2,452	76,012	31.0	34,585
Brant.....	30,161	1,143,102	37.9	344,074	7,025	236,040	33.6	80,962
Bruce.....	95,454	4,018,613	42.1	1,153,342	20,972	757,089	36.1	255,896
Carleton.....	75,288	2,484,504	33.0	822,371	14,525	450,275	31.0	190,466
Cochrane.....	2,220	73,926	33.3	30,088	584	16,936	29.0	8,028
Dufferin.....	45,782	1,556,588	34.0	432,731	18,538	626,584	33.8	194,868
Dundas.....	19,641	701,184	35.7	215,965	6,059	205,400	33.9	82,365
Durham.....	41,465	1,521,766	36.7	427,616	10,601	304,249	28.7	106,487
Elgin.....	52,104	2,157,106	41.4	623,404	7,036	265,257	37.7	105,307
Essex.....	64,258	2,583,172	40.2	681,957	17,488	573,606	32.8	188,716
Frontenac.....	35,963	1,366,594	38.0	393,579	4,165	136,612	32.8	50,137
Glenarry.....	40,768	1,422,803	34.9	421,150	7,252	219,736	30.3	93,827
Grenville.....	32,434	1,200,053	37.0	391,219	3,066	104,244	34.0	41,906
Grey.....	119,390	4,620,393	38.7	1,316,812	31,116	1,120,176	36.0	385,341
Haldimand.....	43,436	1,694,004	39.0	484,485	7,314	244,288	33.4	87,455
Haliburton.....	7,703	254,199	33.0	87,190	907	22,675	25.0	8,344
Halton.....	26,308	1,026,012	39.0	310,882	8,858	299,400	33.8	100,898
Hastings.....	85,368	3,158,616	37.0	1,073,929	16,041	479,625	29.9	201,443
Huron.....	106,920	4,822,092	45.1	1,350,186	29,839	1,133,882	38.0	362,842
Kenora.....	1,585	59,438	37.5	19,674	575	20,125	35.0	7,285
Kent.....	66,455	2,804,401	42.2	709,513	26,994	931,293	34.5	341,785
Lambton.....	87,833	3,688,986	42.0	988,648	18,251	678,937	37.2	228,123
Lanark.....	42,710	1,605,896	37.6	542,793	10,691	348,527	32.6	141,153
Leeds.....	48,821	1,952,840	40.0	667,871	4,942	163,086	33.0	67,681
Lennox & Add'gton	35,130	1,278,732	36.4	392,571	7,596	235,476	31.0	98,429
Lincoln.....	24,733	887,915	35.9	287,684	2,232	71,870	32.2	27,742
Manitoulin.....	5,295	205,976	38.9	78,889	1,986	67,524	34.0	30,386
Middlesex.....	99,314	4,439,336	44.7	1,167,545	18,990	734,913	38.7	240,317
Muskoka.....	12,797	450,454	35.2	167,569	992	27,082	27.3	11,997
Nipissing.....	13,863	522,635	37.7	182,400	2,996	88,082	29.4	40,342
Norfolk.....	37,633	1,689,722	44.9	540,711	2,082	75,785	36.4	28,495
Northumberland...	63,626	2,455,964	38.6	729,421	12,183	375,236	30.8	141,464
Ontario.....	55,920	2,197,656	39.3	672,483	23,216	814,882	35.1	290,098
Oxford.....	59,972	2,680,748	44.7	879,285	12,932	513,400	39.7	204,847
Parry Sound.....	16,208	583,488	36.0	225,810	2,303	69,090	30.0	31,160
Peel.....	43,665	1,711,668	39.2	510,077	16,260	551,214	33.9	189,066
Perth.....	86,385	3,602,255	41.7	1,066,267	27,102	1,056,978	39.0	373,113
Peterborough.....	49,996	1,899,848	38.0	547,156	9,876	308,131	31.2	113,392
Prescott.....	49,606	1,795,737	36.2	499,215	8,481	255,278	30.1	105,430
Prince Edward....	25,585	954,321	37.3	239,535	11,043	334,603	30.3	117,780
Rainy River.....	7,523	295,654	39.3	95,496	2,852	88,412	31.0	31,563
Renfrew.....	70,220	2,703,470	38.5	719,123	9,413	306,864	32.6	95,742
Russell.....	35,936	1,293,696	36.0	337,655	5,289	169,248	32.0	66,853
Simcoe.....	121,420	4,868,942	40.1	1,304,876	49,070	1,594,775	32.5	508,733
Stormont.....	28,824	1,066,488	37.0	374,337	4,060	129,920	32.0	53,917
Sudbury.....	10,637	360,594	33.9	146,041	3,086	95,666	31.0	44,867
Thunder Bay.....	5,695	218,119	38.3	74,815	2,135	72,163	33.8	28,865
Timiskaming.....	12,836	423,588	33.0	169,859	4,199	117,572	28.0	54,083
Victoria.....	50,239	1,929,178	38.4	534,382	22,469	775,181	34.5	252,709
Waterloo.....	49,687	2,032,198	40.9	674,690	8,972	331,964	37.0	127,142
Welland.....	26,381	1,129,107	42.8	365,831	2,340	86,814	37.1	35,594
Wellington.....	82,518	3,218,202	39.0	1,013,734	25,739	918,882	35.7	351,932
Wentworth.....	32,440	1,226,232	37.8	371,548	7,349	242,517	33.0	86,336
York.....	73,186	3,110,405	42.5	995,330	27,345	987,155	36.1	348,466
The Province:								
1930.....	2,468,913	97,481,866	39.5	28,983,780	609,879	20,910,731	34.3	7,496,760
1929.....	2,335,310	73,640,478	31.5	45,918,227	622,063	18,032,191	29.0	13,799,386

PEAS AND BEANS

TABLE IX.—Showing by County Municipalities of Ontario the area, produce and market value of Peas and Beans for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Peas				Beans			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
Algoma.....	949	18,600	19.6	21,390	12	168	14.0	252
Brant.....	690	11,523	16.7	11,523	548	6,028	11.0	9,645
Bruce.....	3,299	69,279	21.0	56,809	59	708	12.0	1,331
Carleton.....	813	16,260	20.0	22,276	449	7,184	16.0	11,854
Cochrane.....	58	916	15.8	1,374	2	32	16.0	58
Dufferin.....	1,203	22,857	19.0	16,228	24	360	15.0	630
Dundas.....	61	1,098	18.0	1,515	131	2,096	16.0	4,464
Durham.....	6,436	126,789	19.7	154,683	382	6,532	17.1	14,436
Elgin.....	1,000	17,700	17.7	15,753	12,899	150,918	11.7	205,248
Essex.....	1,300	20,800	16.0	16,016	907	13,242	14.6	20,525
Frontenac.....	110	1,980	18.0	1,980	211	3,165	15.0	6,172
Glengarry.....	47	879	18.7	984	168	2,520	15.0	4,889
Grenville.....	45	900	20.0	954	94	1,598	17.0	3,420
Grey.....	2,508	53,922	21.5	41,520	68	680	10.0	850
Haldimand.....	826	15,942	19.3	15,304	103	1,030	10.0	1,916
Haliburton.....	111	1,665	15.0	1,948	14	140	10.0	252
Halton.....	235	4,700	20.0	4,606	28	336	12.0	437
Hastings.....	1,679	33,580	20.0	37,274	265	4,240	16.0	9,116
Huron.....	2,793	56,977	20.4	54,698	13,181	164,763	12.5	250,440
Kenora.....	17	272	16.0	367				
Kent.....	877	16,751	19.1	12,898	27,918	396,436	14.2	519,331
Lambton.....	2,196	40,187	18.3	36,168	1,665	24,975	15.0	35,215
Lanark.....	564	11,280	20.0	12,070	197	2,955	15.0	5,555
Leeds.....	49	867	17.7	980	120	1,800	15.0	3,708
Lennox & Add'gton	770	13,090	17.0	17,410	118	2,041	17.3	4,266
Lincoln.....	237	4,029	17.0	5,761	173	2,595	15.0	5,450
Manitoulin.....	1,420	33,086	23.3	31,432	15	225	15.0	338
Middlesex.....	1,953	39,060	20.0	33,201	3,152	42,237	13.4	61,244
Muskoka.....	281	5,732	20.4	7,337	15	210	14.0	473
Nipissing.....	325	6,240	19.2	6,989	21	210	10.0	420
Norfolk.....	913	18,990	20.8	18,990	1,058	13,754	13.0	23,794
Northumberland...	4,125	74,250	18.0	88,358	474	7,110	15.0	14,291
Ontario.....	2,943	61,803	21.0	56,241	68	1,020	15.0	2,071
Oxford.....	1,047	22,406	21.4	27,559	206	2,884	14.0	5,970
Parry Sound.....	523	9,571	18.3	10,720	6	90	15.0	189
Peel.....	416	7,821	18.8	6,804	28	308	11.0	431
Perth.....	1,084	24,607	22.7	21,900	154	2,387	15.5	4,559
Peterborough.....	2,712	59,122	21.8	60,304	73	1,095	15.0	2,343
Prescott.....	294	5,909	20.1	8,273	311	4,603	14.8	9,160
Prince Edward....	5,087	101,740	20.0	156,680	224	3,360	15.0	6,922
Rainy River.....	72	1,296	18.0	1,814	6	60	10.0	105
Renfrew.....	12,146	218,628	18.0	262,354	361	5,415	15.0	11,372
Russell.....	187	3,366	18.0	4,544	185	2,775	15.0	4,662
Simcoe.....	5,789	126,779	21.9	93,816	173	2,941	17.0	5,735
Stormont.....	24	432	18.0	480	82	1,394	17.0	2,927
Sudbury.....	699	14,609	20.9	18,992	32	320	10.0	560
Thunder Bay.....	173	3,581	20.7	4,476	3	30	10.0	48
Timiskaming.....	680	12,444	18.3	16,053	3	30	10.0	53
Victoria.....	3,363	67,260	20.0	71,296	89	1,469	16.5	2,527
Waterloo.....	441	8,291	18.8	7,213	53	689	13.0	1,378
Welland.....	85	1,275	15.0	1,186	632	9,038	14.3	16,268
Wellington.....	1,446	28,631	19.8	21,473	90	1,350	15.0	2,120
Wentworth.....	913	17,621	19.3	16,740	172	2,064	12.0	4,128
York.....	2,079	44,075	21.2	40,108	118	1,888	16.0	3,304
The Province:								
1930.....	80,093	1,581,468	19.7	1,657,822	67,540	905,498	13.4	1,306,852
1929.....	79,523	1,235,658	15.5	2,013,945	63,732	1,113,310	17.5	3,373,233

RYE AND BUCKWHEAT

TABLE X.—Showing by County Municipalities of Ontario the area, produce and market value of Rye and Buckwheat for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Rye				Buckwheat			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
Algoma	119	2,380	20.0	1,190	145	2,538	17.5	1,421
Brant	2,816	49,280	17.5	21,535	3,795	70,208	18.5	38,123
Bruce	107	1,926	18.0	819	6,998	152,556	21.8	80,702
Carleton	361	7,220	20.0	3,610	5,602	128,846	23.0	68,933
Cochrane	12	192	16.0	96	5	100	20.0	55
Dufferin	479	10,394	21.7	4,501	3,763	80,152	21.3	40,316
Dundas	45	855	19.0	470	2,966	74,150	25.0	40,486
Durham	4,531	72,949	16.1	31,514	10,129	225,877	22.3	110,228
Elgin	1,380	25,116	18.2	14,015	8,909	178,180	20.0	89,446
Essex	569	11,380	20.0	5,690	4,115	79,008	19.2	39,504
Frontenac	384	7,680	20.0	4,301	2,675	58,850	22.0	32,368
Glengarry					2,831	65,113	23.0	33,012
Grenville	76	1,520	20.0	920	5,454	122,715	22.5	66,021
Grey	74	1,406	19.0	703	7,428	162,673	21.9	77,920
Haldimand	98	1,793	18.3	932	2,894	49,777	17.2	29,418
Haliburton	78	1,560	20.0	858	442	9,547	21.6	5,346
Halton	66	1,254	19.0	665	2,601	44,217	17.0	26,000
Hastings	1,626	30,081	18.5	17,447	8,912	159,525	17.9	85,346
Huron	214	5,350	25.0	2,675	11,838	222,554	18.8	125,520
Kenora	10	180	18.0	99	5	100	20.0	55
Kent	845	16,816	19.9	7,651	4,578	98,885	21.6	47,959
Lambton	88	1,408	16.0	704	2,270	36,320	16.0	22,264
Lanark	180	2,700	15.0	1,350	5,247	125,928	24.0	66,490
Leeds	110	2,090	19.0	1,223	4,478	97,620	21.8	54,765
Lennox & Add'gton	353	5,683	16.1	3,126	7,499	157,479	21.0	83,621
Lincoln	72	1,346	18.7	775	810	14,580	18.0	9,040
Manitowlin	35	613	17.5	343	104	2,184	21.0	1,245
Middlesex	447	8,940	20.0	4,792	7,639	131,391	17.2	75,024
Muskoka	45	833	18.5	458	370	7,400	20.0	4,255
Nipissing	98	1,764	18.0	900	181	3,620	20.0	1,919
Norfolk	7,968	137,050	17.2	70,718	10,671	162,199	15.2	85,317
Northumberland	7,270	126,498	17.4	56,671	17,284	397,532	23.0	194,393
Ontario	4,009	68,153	17.0	32,236	13,674	300,828	22.0	159,740
Oxford	1,082	20,774	19.2	9,743	10,156	187,886	18.5	104,089
Parry Sound	66	1,168	17.7	584	140	2,520	18.0	1,310
Peel	344	6,605	19.2	3,012	2,474	47,006	19.0	24,490
Perth	76	1,368	18.0	653	6,538	127,491	19.5	65,020
Peterborough	668	12,625	18.9	5,934	5,766	131,465	22.8	70,597
Prescott	91	1,547	17.0	835	1,839	41,745	22.7	21,833
Prince Edward	2,508	49,909	19.9	23,357	11,026	165,390	15.0	85,672
Rainy River	26	494	19.0	267	12	264	22.0	145
Renfrew	4,828	77,248	16.0	39,628	4,912	113,958	23.2	52,763
Russell	82	1,476	18.0	824	1,816	39,952	22.0	20,176
Simcoe	4,129	72,258	17.5	33,528	17,967	386,291	21.5	178,080
Stormont	8	144	18.0	78	3,042	73,616	24.2	40,047
Sudbury	115	2,070	18.0	1,056	322	7,728	24.0	4,250
Thunder Bay	139	2,641	19.0	1,453	30	600	20.0	336
Timiskaming	18	288	16.0	144	120	2,400	20.0	1,344
Victoria	565	10,057	17.8	3,802	10,924	269,823	24.7	127,896
Waterloo	992	19,840	20.0	9,345	2,492	55,322	22.2	28,767
Welland	180	3,114	17.3	1,881	3,604	66,674	18.5	42,271
Wellington	139	2,641	19.0	1,188	10,613	222,873	21.0	112,997
Wentworth	442	8,265	18.7	4,232	3,164	56,952	18.0	28,818
York	1,818	36,360	20.0	20,034	12,048	253,008	21.0	128,275
The Province:								
1930	52,881	937,302	17.7	454,565	275,317	5,675,616	20.6	2,935,428
1929	52,023	873,239	16.8	447,938	294,388	5,562,013	18.9	4,627,121

FLAX AND MIXED GRAINS

TABLE XI.—Showing by County Municipalities of Ontario the area, produce and market value of Flax and Mixed Grains for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Flax				Mixed Grains			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
Algoma.....	25	200	8.0	300	2,501	83,033	33.2	36,535
Brant.....	45	315	7.0	457	15,927	619,560	38.9	219,324
Bruce.....	481	4,810	10.0	7,888	33,826	1,403,779	41.5	534,840
Carleton.....	34	340	10.0	578	16,316	620,008	38.0	217,623
Cochrane.....	3	24	8.0	35	121	3,993	33.0	1,717
Dufferin.....	62	496	8.0	1,017	28,183	1,079,409	38.3	377,793
Dundas.....	26	156	6.0	226	20,187	730,769	36.2	280,615
Durham.....	50	350	7.0	455	33,850	1,140,745	33.7	399,261
Elgin.....	5	40	8.0	58	18,659	772,483	41.4	289,681
Essex.....	5	50	10.0	73	11,490	407,895	35.5	167,645
Frontenac.....	12	72	6.0	132	5,138	174,692	34.0	71,274
Glengarry.....	18	126	7.0	183	3,768	133,387	35.4	49,353
Grenville.....	12	72	6.0	104	6,134	245,360	40.0	92,501
Grey.....	322	3,220	10.0	5,667	42,869	1,671,891	39.0	601,881
Haldimand.....	50	600	12.0	852	13,591	517,817	38.1	211,787
Haliburton.....	12	72	6.0	104	315	9,450	30.0	3,780
Halton.....	14	98	7.0	142	14,797	562,286	38.0	199,049
Hastings.....	18	126	7.0	183	14,038	503,964	35.9	221,744
Huron.....	1,516	15,918	10.5	23,240	60,353	2,426,191	40.2	837,036
Kenora.....	3	18	6.0	20	63	2,079	33.0	728
Kent.....	7	70	10.0	102	25,587	1,028,597	40.2	384,695
Lambton.....	212	2,650	12.5	3,763	26,547	1,035,333	39.0	398,603
Lanark.....	28	280	10.0	280	11,926	398,328	33.4	154,153
Leeds.....	29	290	10.0	563	8,133	314,747	38.7	129,046
Lennox & Add'ton	24	144	6.0	180	13,421	516,709	38.5	187,049
Lincoln.....	18	126	7.0	183	5,222	195,825	37.5	75,197
Manitoulin.....	14	140	10.0	252	1,683	60,588	36.0	27,265
Middlesex.....	90	900	10.0	1,152	27,649	1,161,258	42.0	397,150
Muskoka.....	5	40	8.0	65	654	22,171	33.9	10,775
Nipissing.....	17	119	7.0	173	1,181	40,390	34.2	19,185
Norfolk.....	14	98	7.0	137	9,210	343,533	37.3	129,168
Northumberland...	15	120	8.0	192	21,945	776,853	35.4	267,237
Ontario.....	44	308	7.0	385	43,693	1,704,027	39.0	639,010
Oxford.....	124	868	7.0	1,259	48,389	2,071,049	42.8	791,141
Parry Sound.....	9	54	6.0	78	1,330	45,220	34.0	21,977
Peel.....	23	269	11.7	412	18,759	716,594	38.2	285,921
Perth.....	208	2,288	11.0	4,187	49,632	2,069,654	41.7	757,493
Peterborough.....	57	570	10.0	827	10,726	379,700	35.4	140,869
Prescott.....	78	468	6.0	679	3,187	110,908	34.8	44,696
Prince Edward.....	63	378	6.0	756	8,054	281,890	35.0	94,151
Rainy River.....	213	1,704	8.0	1,874	199	6,965	35.0	2,438
Renfrew.....	119	1,190	10.0	1,464	5,540	173,956	31.4	71,148
Russell.....	78	546	7.0	890	6,202	235,676	38.0	92,149
Simcoe.....	295	2,950	10.0	5,694	42,555	1,608,579	37.8	550,134
Stormont.....	7	42	6.0	63	6,737	231,753	34.4	92,701
Sudbury.....	35	280	8.0	406	1,115	36,349	32.6	16,357
Thunder Bay.....	8	48	6.0	70	1,072	37,520	35.0	16,134
Timiskaming.....	36	216	6.0	389	1,062	29,736	28.0	12,876
Victoria.....	86	1,032	12.0	1,858	21,376	801,600	37.5	230,861
Waterloo.....	170	1,700	10.0	3,026	41,176	1,770,568	43.0	731,245
Welland.....	16	112	7.0	162	4,059	155,866	38.4	59,541
Wellington.....	246	2,952	12.0	4,103	73,510	3,072,718	41.8	1,106,178
Wentworth.....	46	322	7.0	309	23,972	925,319	38.6	303,505
York.....	88	880	10.0	1,162	50,457	2,043,509	40.5	803,099
The Province:								
1930.....	5,235	51,257	9.8	78,809	958,086	37,512,279	39.2	13,857,314
1929.....	5,492	46,927	8.5	109,034	892,897	29,903,638	33.5	21,890,640

CORN

TABLE XII.—Showing by County Municipalities of Ontario the area, produce and market value of Corn for husking and for fodder for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Corn for Husking				Corn for Silo			
	Acres	Bushels (in the ear)	Per acre	Market value	Acres	Tons (green)	Per acre	Market value
				\$				\$
Algoma	85	2,125	25.0	990	174	1,218	7.00	4,872
Brant	1,954	117,240	60.0	63,544	7,503	63,776	8.50	255,104
Bruce	168	6,048	36.0	2,988	3,914	31,312	8.00	125,248
Carleton	1,177	35,310	30.0	19,844	16,125	129,000	8.00	516,000
Cochrane								
Dufferin	28	840	30.0	475	702	5,618	8.00	22,472
Dundas	831	45,705	55.0	24,315	11,927	95,416	8.00	381,664
Durham	998	49,900	50.0	27,645	5,616	46,107	8.21	184,428
Elgin	10,406	653,497	62.8	303,223	16,178	129,424	8.00	517,696
Essex	33,645	2,149,916	63.9	937,363	6,092	44,472	7.30	177,888
Frontenac	935	37,400	40.0	19,522	3,568	24,084	6.75	96,336
Glengarry	573	25,785	45.0	14,543	6,415	51,833	8.08	207,332
Grenville	885	44,250	50.0	26,550	5,932	59,320	10.00	237,280
Grey	122	3,660	30.0	1,793	5,196	43,958	8.46	175,832
Haldimand	924	40,471	43.8	24,121	3,189	25,512	8.00	102,048
Haliburton	81	2,025	25.0	960	167	1,169	7.00	4,676
Halton	289	14,450	50.0	7,370	3,499	31,911	9.12	127,644
Hastings	1,799	71,960	40.0	36,700	5,725	49,922	8.72	199,688
Huron	1,512	75,600	50.0	49,896	5,575	50,398	9.04	201,592
Kenora								
Kent	28,443	1,894,304	66.6	712,258	9,734	82,739	8.50	330,956
Lambton	8,800	572,000	65.0	295,152	12,299	98,392	8.00	393,568
Lanark	797	39,850	50.0	18,490	7,310	73,100	10.00	292,400
Leeds	2,104	97,415	46.3	56,111	8,899	84,541	9.50	338,164
Lennox & Add'gton	1,236	75,396	61.0	43,579	4,109	32,872	8.00	131,488
Lincoln	1,412	79,072	56.0	39,852	5,407	43,256	8.00	173,024
Manitowlin	42	1,050	25.0	495	352	2,904	8.25	11,616
Middlesex	5,097	254,850	50.0	128,444	20,993	178,441	8.50	713,764
Muskoka	92	2,760	30.0	1,546	348	2,958	8.50	11,832
Nipissing	31	620	20.0	335	203	1,218	6.00	4,872
Norfolk	9,514	570,840	60.0	296,837	8,480	59,360	7.00	237,440
Northumberland	2,181	87,240	40.0	47,459	6,250	53,750	8.60	215,000
Ontario	492	24,600	50.0	12,300	9,460	94,600	10.00	378,400
Oxford	1,870	93,500	50.0	53,856	22,927	194,880	8.50	779,520
Parry Sound	78	2,340	30.0	1,287	75	750	10.00	3,000
Peel	534	20,292	38.0	10,146	4,647	27,882	6.00	111,528
Perth	396	19,800	50.0	10,692	8,969	78,479	8.75	313,916
Peterborough	278	8,340	30.0	4,003	5,001	43,009	8.60	172,036
Prescott	823	49,380	60.0	27,653	6,305	50,440	8.00	201,760
Prince Edward	2,353	141,180	60.0	74,543	2,998	17,988	6.00	71,952
Rainy River	12	300	25.0	120	61	305	5.00	1,220
Renfrew	476	14,280	30.0	7,925	3,176	33,348	10.50	133,392
Russell	435	17,400	40.0	9,657	5,151	53,570	10.40	214,280
Simcoe	309	9,270	30.0	4,172	5,814	50,291	8.65	201,164
Stormont	515	23,175	45.0	13,210	6,355	54,018	8.50	216,072
Sudbury	21	420	20.0	210	7	49	7.00	196
Thunder Bay	38	760	20.0	350	3	15	5.00	60
Timiskaming	2	40	20.0	20				
Victoria	183	5,490	30.0	2,635	4,960	39,680	8.00	158,720
Waterloo	154	6,160	40.0	3,437	6,665	53,320	8.00	213,280
Welland	3,406	152,589	44.8	90,333	5,061	36,642	7.24	146,568
Wellington	339	13,560	40.0	7,946	6,185	53,995	8.73	215,980
Wentworth	865	51,900	60.0	24,393	7,070	63,630	9.00	254,520
York	354	16,992	48.0	8,394	9,046	74,177	8.20	296,708
The Province:								
1930	130,094	7,723,347	59.4	3,569,682	311,817	2,619,049	8.40	10,476,196
1929	120,000	6,674,942	55.6	4,460,367	287,566	2,221,467	7.73	9,574,523

POTATOES AND TURNIPS

TABLE XIII.—Showing by County Municipalities of Ontario the area, produce and market value of Potatoes and Turnips for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Potatoes				Turnips			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
Algoma.....	1,049	131,859	125.7	98,367	401	112,280	280	22,456
Brant.....	2,650	207,230	78.2	129,726	1,777	533,100	300	106,620
Bruce.....	3,396	349,109	102.8	223,430	2,189	669,834	306	133,967
Carleton.....	5,066	587,656	116.0	379,626	1,038	285,450	275	57,090
Cochrane.....	310	39,060	126.0	39,294	56	14,000	250	2,800
Dufferin.....	6,007	713,632	118.8	256,908	1,998	835,164	418	167,033
Dundas.....	1,311	152,469	116.3	98,495	76	22,800	300	4,560
Durham.....	4,208	494,440	117.5	240,298	2,166	866,400	400	173,280
Elgin.....	2,352	235,200	100.0	172,637	380	76,000	200	15,200
Essex.....	5,188	525,026	101.2	367,518	59	11,800	200	2,360
Frontenac.....	2,631	293,620	111.6	195,551	122	36,600	300	7,320
Glenarry.....	1,951	253,630	130.0	155,729	182	45,500	250	9,100
Grenville.....	2,186	279,808	128.0	155,014	142	38,056	268	7,611
Grey.....	4,853	520,727	107.3	284,317	3,499	1,210,654	346	242,131
Haldimand.....	810	72,900	90.0	48,551	136	23,800	175	4,760
Haliburton.....	471	54,165	115.0	36,074	69	15,180	220	3,036
Halton.....	1,583	142,470	90.0	76,934	1,412	350,176	248	70,035
Hastings.....	4,382	569,660	130.0	372,558	738	290,034	393	58,007
Huron.....	3,462	312,965	90.4	198,420	3,508	1,052,400	300	210,480
Kenora.....	147	13,304	90.5	6,652	18	4,500	250	900
Kent.....	5,434	671,642	123.6	466,120	88	17,600	200	3,520
Lambton.....	3,782	352,104	93.1	265,486	249	59,760	240	11,952
Lanark.....	2,061	257,625	125.0	164,880	547	205,125	375	41,025
Leeds.....	2,553	323,210	126.6	206,854	479	155,675	325	31,135
Lennox & Add'gton	2,882	360,250	125.0	224,796	88	22,000	250	4,400
Lincoln.....	1,392	132,240	95.0	103,147	66	19,800	300	3,960
Manitoulin.....	439	43,900	100.0	43,637	115	31,165	271	6,233
Middlesex.....	6,025	608,525	101.0	401,627	1,555	466,500	300	93,300
Muskoka.....	986	123,250	125.0	86,275	324	93,960	290	18,792
Nipissing.....	1,550	195,300	126.0	124,992	403	90,675	225	18,135
Norfolk.....	3,921	450,915	115.0	318,346	500	150,000	300	30,000
Northumberland	3,900	462,150	118.5	258,804	2,138	833,820	390	166,764
Ontario.....	5,746	706,758	123.0	367,514	6,498	2,599,200	400	519,840
Oxford.....	2,513	311,361	123.9	219,821	5,340	1,869,000	350	373,800
Parry Sound.....	1,170	141,570	121.0	81,261	453	120,498	266	24,100
Peel.....	2,709	317,766	117.3	154,434	895	298,035	333	59,607
Perth.....	2,554	275,832	108.0	183,704	3,099	1,031,967	333	206,393
Peterborough.....	2,309	260,917	113.0	149,766	1,498	599,200	400	119,840
Prescott.....	2,061	257,625	125.0	143,240	160	36,000	225	7,200
Prince Edward.....	1,354	169,250	125.0	116,106	95	23,750	258	4,750
Rainy River.....	793	103,487	130.5	51,744	122	40,016	328	8,003
Renfrew.....	4,250	480,250	113.0	281,427	296	81,400	275	16,280
Russell.....	1,690	211,250	125.0	115,343	493	172,550	350	34,510
Simcoe.....	11,852	1,562,094	131.8	665,452	4,992	1,956,864	392	391,373
Stormont.....	1,499	191,872	128.0	135,462	85	22,100	260	4,420
Sudbury.....	1,882	237,132	126.0	175,478	336	97,440	290	19,488
Thunder Bay.....	1,893	227,160	120.0	181,728	338	74,360	220	14,872
Timiskaming.....	867	101,006	116.5	86,865	216	54,000	250	10,800
Victoria.....	1,752	174,499	99.6	104,699	2,614	784,200	300	156,840
Waterloo.....	3,163	346,981	109.7	231,089	4,101	1,336,926	326	267,385
Welland.....	2,079	163,409	78.6	118,635	86	14,620	170	2,924
Wellington.....	5,947	719,587	121.0	378,503	8,614	3,238,864	376	647,773
Wentworth.....	4,456	427,776	96.0	259,232	1,422	391,050	275	78,210
York.....	7,715	957,432	124.1	503,609	5,862	1,905,150	325	381,030
The Province:								
1930.....	159,192	18,275,055	114.8	10,906,175	74,133	25,386,998	342	5,077,400
1929.....	148,435	14,140,088	95.3	15,271,732	72,502	22,848,692	315	4,569,738

MANGELS AND SUGAR BEETS

TABLE XIV.—Showing by County Municipalities of Ontario the area, produce and market value of Mangels and Sugar Beets for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Mangels				Sugar Beets			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
Algoma.....	26	7,800	300	1,560	17	1,700	100	291
Brant.....	572	214,500	375	42,900	30	6,000	200	1,029
Bruce.....	1,048	366,800	350	73,360	35	6,125	175	1,050
Carleton.....	324	97,200	300	19,440	68	13,600	200	2,332
Cochrane.....	11	2,200	200	440	6	600	100	103
Dufferin.....	214	86,884	406	17,377	124	24,800	200	4,252
Dundas.....	48	14,880	310	2,976	60	12,000	200	2,057
Durham.....	885	335,415	379	67,083	17	3,400	200	583
Elgin.....	394	140,264	356	28,053	243	83,835	345	14,372
Essex.....	686	263,424	384	52,685	9,793	3,486,308	356	597,658
Frontenac.....	48	13,200	275	2,640	61	12,200	200	2,091
Glenarry.....	74	20,350	275	4,070	37	6,475	175	1,110
Grenville.....	47	17,625	375	3,525	38	7,600	200	1,303
Grey.....	1,424	448,560	315	89,712	115	23,000	200	3,943
Haldimand.....	169	43,940	260	8,788	40	6,400	160	1,097
Haliburton.....	21	4,200	200	840	7	875	125	150
Halton.....	592	231,472	391	46,294	20	4,400	220	754
Hastings.....	160	58,240	364	11,648	78	15,600	200	2,674
Huron.....	1,866	643,770	345	128,754	152	50,160	330	8,599
Kenora.....	5	1,125	225	225	3	300	100	51
Kent.....	437	174,800	400	34,960	21,049	7,893,375	375	1,353,161
Lambton.....	532	209,076	393	41,815	3,909	1,321,242	338	226,501
Lanark.....	135	47,250	350	9,450	74	14,800	200	2,537
Leeds.....	66	23,100	350	4,620	57	17,100	300	2,931
Lennox & Add'ton	49	12,740	260	2,548	24	4,800	200	823
Lincoln.....	159	63,600	400	12,720	74	22,200	300	3,806
Manitoulin.....	40	12,000	300	2,400	8	800	100	137
Middlesex.....	1,208	446,960	370	89,392	834	275,220	330	47,181
Muskoka.....	43	12,900	300	2,580	4	1,000	250	171
Nipissing.....	42	8,904	212	1,781	13	1,300	100	223
Norfolk.....	300	111,000	370	22,200	77	26,950	350	4,620
Northumberland...	673	259,105	385	51,821	69	13,800	200	2,366
Ontario.....	1,815	649,770	358	129,954	18	4,500	250	771
Oxford.....	1,686	733,410	435	146,682	100	20,000	200	3,429
Parry Sound.....	44	11,000	250	2,200	22	4,400	200	754
Peel.....	328	127,264	388	25,453	27	6,075	225	1,041
Perth.....	2,560	1,049,600	410	209,920	20	4,000	200	686
Peterborough.....	436	165,680	380	33,136	12	1,800	150	309
Prescott.....	57	13,680	240	2,736	43	8,600	200	1,474
Prince Edward....	62	18,600	300	3,720	26	5,200	200	891
Rainy River.....	19	5,700	300	1,140	11	1,100	100	189
Renfrew.....	155	46,500	300	9,300	56	8,400	150	1,440
Russell.....	70	18,900	270	3,780	25	3,750	150	643
Simcoe.....	1,737	656,586	378	131,317	258	76,368	296	13,092
Stormont.....	28	8,400	300	1,680	39	5,850	150	1,003
Sudbury.....	37	9,250	250	1,850	19	1,900	100	326
Thunder Bay.....	21	4,200	200	840	9	900	100	154
Timiskaming.....	21	5,040	240	1,008	14	2,800	200	480
Victoria.....	692	224,900	325	44,980	53	10,600	200	1,817
Waterloo.....	1,884	700,848	372	140,170	4	600	150	103
Welland.....	105	27,300	260	5,460	84	25,200	300	4,320
Wellington.....	1,943	742,226	382	148,445	60	15,000	250	2,571
Wentworth.....	853	297,697	349	59,539	106	31,800	300	5,451
York.....	2,204	716,300	325	143,260	78	17,550	225	3,009
The Province:								
1930.....	29,055	10,626,135	366	2,125,227	38,220	13,614,358	356	2,333,909
1929.....	30,395	9,728,083	320	1,945,617	36,864	12,146,230	329	2,022,347

ALSIKE AND SWEET CLOVER

TABLE XV.—Showing by County Municipalities of Ontario the area, produce and market value of Alsike and Sweet Clover for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Alsike				Sweet Clover			
	Acres	Tons	Per acre	Market value	Acres	Tons	Per acre	Market value
				\$				\$
Algoma.....	461	622	1.35	5,872	332	498	1.50	3,984
Brant.....	918	1,469	1.60	16,159	5,066	10,943	2.16	101,223
Bruce.....	2,585	3,593	1.39	33,487	15,126	31,916	2.11	232,029
Carleton.....	894	1,341	1.50	12,914	5,187	11,152	2.15	100,368
Cochrane.....	271	379	1.40	3,980	48	72	1.50	540
Dufferin.....	3,430	4,219	1.23	39,448	7,103	13,070	1.84	102,469
Dundas.....	681	1,076	1.58	9,576	2,122	4,244	2.00	25,719
Durham.....	3,366	4,712	1.40	40,335	11,179	22,023	1.97	176,184
Elgin.....	2,133	2,986	1.40	29,860	12,839	28,246	2.20	221,166
Essex.....	2,622	3,278	1.25	36,058	10,537	19,072	1.81	181,184
Frontenac.....	1,201	2,006	1.67	18,917	1,079	2,158	2.00	18,559
Glengarry.....	617	821	1.33	7,389	957	2,077	2.17	14,290
Grenville.....	802	1,468	1.83	14,474	2,994	6,976	2.33	65,574
Grey.....	2,867	3,670	1.28	34,021	11,584	20,851	1.80	145,957
Haldimand.....	16,166	17,298	1.07	164,331	2,968	5,936	2.00	41,552
Haliburton.....	42	55	1.30	605	325	520	1.60	4,680
Halton.....	2,435	3,409	1.40	34,772	2,184	4,368	2.00	39,312
Hastings.....	4,044	6,875	1.70	69,644	10,507	19,543	1.86	156,344
Huron.....	2,143	3,022	1.41	27,258	23,248	50,681	2.18	374,026
Kenora.....	929	929	1.00	9,290	93	93	1.00	837
Kent.....	5,060	6,780	1.34	60,478	8,147	18,983	2.33	143,511
Lambton.....	3,362	4,606	1.37	39,381	21,191	43,230	2.04	278,834
Lanark.....	1,647	2,701	1.64	29,171	3,198	7,355	2.30	55,898
Leeds.....	1,095	2,004	1.83	18,677	2,349	5,285	2.25	44,553
Lennox & Add'ton	1,254	2,044	1.63	17,149	4,750	9,025	1.90	63,175
Lincoln.....	1,829	1,975	1.08	23,127	996	1,823	1.83	17,920
Manitoulin.....	605	908	1.50	7,918	1,188	2,376	2.00	17,107
Middlesex.....	3,978	5,808	1.46	55,408	21,529	50,163	2.33	317,532
Muskoka.....	367	551	1.50	6,061	34	53	1.55	490
Nipissing.....	282	389	1.38	4,668	31	50	1.60	500
Norfolk.....	2,777	3,610	1.30	39,999	6,445	13,535	2.10	111,122
Northumberland...	3,295	5,766	1.75	46,128	15,329	34,030	2.22	242,974
Ontario.....	5,181	8,808	1.70	81,474	13,110	30,022	2.29	210,154
Oxford.....	692	900	1.30	9,540	10,775	23,921	2.22	197,348
Parry Sound.....	451	677	1.50	7,928	101	162	1.60	1,620
Peel.....	6,645	8,838	1.33	94,301	2,606	5,473	2.10	52,924
Perth.....	951	1,484	1.56	13,861	17,290	35,099	2.03	243,587
Peterborough.....	2,140	3,381	1.58	36,718	6,991	13,982	2.00	132,829
Prescott.....	492	738	1.50	7,247	573	1,077	1.88	9,693
Prince Edward....	1,662	2,078	1.25	16,562	6,991	12,794	1.83	91,477
Rainy River.....	736	736	1.00	6,624	117	117	1.00	965
Renfrew.....	1,632	2,203	1.35	22,581	2,196	2,921	1.33	27,165
Russell.....	378	605	1.60	5,784	689	1,468	2.13	13,696
Simcoe.....	18,440	31,348	1.70	305,016	17,251	36,745	2.13	246,192
Stormont.....	723	1,164	1.61	10,127	916	1,649	1.80	11,180
Sudbury.....	286	358	1.25	3,938	260	455	1.75	4,550
Thunder Bay.....	215	376	1.75	3,572	278	556	2.00	4,726
Timiskaming.....	2,270	3,496	1.54	30,975	163	293	1.80	2,344
Victoria.....	10,511	15,767	1.50	185,262	6,275	11,609	1.85	119,921
Waterloo.....	118	222	1.88	2,520	10,164	20,328	2.00	200,841
Welland.....	1,624	1,770	1.09	18,851	1,546	3,092	2.00	28,848
Wellington.....	1,520	2,174	1.43	18,783	16,451	35,370	2.15	263,507
Wentworth.....	855	1,377	1.61	15,601	3,811	6,517	1.71	56,698
York.....	9,800	17,150	1.75	156,751	9,015	20,284	2.25	144,016
The Province:								
1930.....	141,480	206,020	1.46	2,010,571	338,234	704,281	2.08	5,363,894
1929.....	189,848	289,560	1.53	2,958,780	388,106	803,576	2.07	6,595,169

ALFALFA AND HAY AND CLOVER

TABLE XVI.—Showing by County Municipalities of Ontario the area, produce and market value of Alfalfa, Hay and Clover for the year 1930, together with the comparative totals for the Province for 1929.

Counties and Districts	Alfalfa				Hay and Clover			
	Acres	Tons	Per acre	Market value	Acres	Tons	Per acre	Market value
				\$				\$
Algoma.....	381	762	2.00	8,382	28,156	41,952	1.49	429,588
Brant.....	11,301	25,653	2.27	332,719	24,838	42,473	1.71	493,536
Bruce.....	38,130	83,505	2.19	861,772	105,294	167,417	1.59	1,500,056
Carleton.....	4,829	10,865	2.25	135,161	104,410	156,615	1.50	1,561,452
Cochrane.....	46	69	1.50	828	9,280	15,219	1.64	184,606
Dufferin.....	8,463	18,449	2.18	208,658	57,987	75,383	1.30	763,630
Dundas.....	3,472	8,680	2.50	89,664	56,583	99,586	1.76	856,440
Durham.....	6,325	13,599	2.15	154,757	42,624	62,657	1.47	672,310
Elgin.....	13,063	29,392	2.25	325,663	57,598	91,005	1.58	599,087
Essex.....	23,112	51,309	2.22	659,834	29,515	45,453	1.54	531,346
Frontenac.....	5,186	11,928	2.30	131,208	76,478	133,837	1.75	1,310,264
Glengarry.....	1,934	4,061	2.10	38,864	65,109	102,221	1.57	893,412
Grenville.....	3,213	7,711	2.40	81,274	51,769	88,007	1.70	854,548
Grey.....	63,672	140,078	2.20	1,434,399	126,889	205,560	1.62	1,934,320
Haldimand.....	22,180	42,142	1.90	527,618	45,692	53,460	1.17	555,984
Haliburton.....	148	296	2.00	3,848	12,708	17,791	1.40	222,388
Halton.....	16,940	32,694	1.93	433,196	25,574	31,968	1.25	401,518
Hastings.....	20,608	40,392	1.96	455,218	90,665	133,278	1.47	1,536,695
Huron.....	32,041	73,053	2.28	747,332	91,664	152,162	1.66	1,392,282
Kenora.....	74	93	1.25	1,023	3,568	4,032	1.13	44,110
Kent.....	29,599	76,957	2.60	868,845	32,530	53,675	1.65	540,507
Lambton.....	30,662	68,990	2.25	718,186	56,866	87,005	1.53	852,649
Lanark.....	8,196	18,523	2.26	220,424	77,734	116,601	1.50	1,356,070
Leeds.....	4,581	10,216	2.23	115,952	76,172	133,301	1.75	1,384,997
Lennox & Add'gton	11,306	23,743	2.10	252,863	63,644	101,194	1.59	878,364
Lincoln.....	12,262	27,344	2.23	369,144	30,138	35,563	1.18	428,179
Manitoulin.....	2,075	4,150	2.00	43,036	18,469	27,704	1.50	256,262
Middlesex.....	25,711	57,850	2.25	626,516	80,498	134,432	1.67	1,313,401
Muskoka.....	81	162	2.00	2,106	28,577	39,150	1.37	520,695
Nipissing.....	31	50	1.60	650	28,620	38,065	1.33	506,645
Norfolk.....	10,692	24,592	2.30	312,318	44,256	73,465	1.66	852,929
Northumberland.....	11,407	25,666	2.25	261,793	50,042	90,076	1.80	972,821
Ontario.....	15,599	35,098	2.25	445,043	55,999	90,718	1.62	1,008,784
Oxford.....	14,605	32,423	2.22	405,288	63,851	101,523	1.59	1,162,438
Perry Sound.....	37	65	1.75	845	35,505	46,157	1.30	595,425
Peel.....	32,967	65,934	2.00	777,362	33,441	51,499	1.54	637,558
Perth.....	10,637	24,146	2.27	253,533	84,548	122,595	1.45	1,164,653
Peterborough.....	8,692	16,030	1.85	208,075	44,418	62,629	1.41	809,167
Prescott.....	1,141	2,282	2.00	25,102	71,444	89,305	1.25	785,884
Prince Edward.....	8,114	18,094	2.23	180,940	38,153	57,230	1.50	536,245
Rainy River.....	1,107	1,937	1.75	20,222	20,537	20,537	1.00	211,531
Renfrew.....	5,215	10,274	1.97	118,151	98,598	127,191	1.29	1,430,899
Russell.....	980	2,254	2.30	26,732	53,549	83,536	1.56	841,208
Simcoe.....	29,494	73,735	2.50	831,731	98,047	169,621	1.73	1,842,048
Stormont.....	1,540	3,511	2.28	40,377	49,773	81,130	1.63	755,320
Sudbury.....	144	252	1.75	3,024	31,561	38,189	1.21	451,776
Thunder Bay.....	480	840	1.75	9,240	21,247	29,958	1.41	329,538
Timiskaming.....	179	337	1.88	3,539	27,279	39,282	1.44	381,428
Victoria.....	5,729	12,432	2.17	160,497	51,002	72,933	1.43	957,610
Waterloo.....	10,055	22,523	2.24	290,997	39,827	73,680	1.85	854,688
Welland.....	7,103	14,348	2.02	186,524	47,605	52,366	1.10	623,155
Wellington.....	20,071	42,952	2.14	455,291	97,628	152,300	1.56	1,457,511
Wentworth.....	11,183	22,366	2.00	303,283	38,888	50,554	1.30	626,364
York.....	34,893	74,671	2.14	896,799	52,855	89,854	1.70	1,041,408
The Province:								
1930.....	641,686	1,409,528	2.20	16,065,846	2,849,702	4,353,094	1.53	45,365,729
1929.....	685,880	1,596,212	2.33	19,546,701	2,915,221	4,661,660	1.60	52,573,554

CARROTS—ALL FIELD CROPS

TABLE XVII.—Showing by County Municipalities of Ontario the area, produce and market value of Carrots and all Field Crops enumerated in Tables VII to XVII for the year 1930, together with the comparative totals for the Province of 1929.

Counties and Districts	Carrots				All Field Crops		
	Acres	Bushels	Per acre	Market value \$	Acres	Value \$	Per acre \$ c.
Algoma	40	4,000	100	800	47,753	815,506	17.08
Brant	8	800	100	160	133,256	2,517,338	18.89
Bruce	32	3,200	100	640	359,652	5,728,758	15.93
Carleton	98	12,250	125	2,450	257,969	4,223,706	16.37
Cochrane	19	1,900	100	380	13,139	275,667	20.98
Dufferin	6	600	100	120	188,484	2,724,143	14.45
Dundas	12	1,500	125	300	127,421	2,141,158	16.80
Durham	18	2,250	125	450	198,335	3,212,125	16.20
Elgin	25	4,375	175	875	240,286	4,200,133	17.48
Essex	97	14,550	150	2,910	272,845	5,595,944	20.51
Frontenac	20	2,500	125	500	141,054	2,381,956	16.89
Glengarry	31	3,100	100	620	134,699	1,977,694	14.68
Grenville	9	1,125	125	225	116,098	2,055,951	17.71
Grey	32	3,200	100	640	450,837	7,260,701	16.10
Haldimand	16	2,000	125	400	179,546	2,582,236	14.38
Haliburton	16	1,600	100	320	23,703	386,069	16.29
Halton	24	2,400	100	480	114,433	1,990,357	17.39
Hastings	48	7,200	150	1,440	271,747	4,634,689	17.06
Huron	16	1,600	100	320	430,710	7,065,479	16.40
Kenora	2	200	100	40	7,155	92,280	12.90
Kent	68	10,200	150	2,040	367,659	7,851,925	21.36
Lambton	64	6,400	100	1,280	331,615	5,738,275	17.30
Lanark	38	4,750	125	950	177,803	3,184,831	17.91
Leeds	33	4,950	150	990	166,571	3,156,572	18.95
Lennox and Addington	29	4,350	150	870	157,246	2,456,199	15.62
Lincoln	28	5,600	200	1,120	97,565	1,728,234	17.71
Manitoulin	2	200	100	40	34,734	571,746	16.46
Middlesex	78	13,650	175	2,730	371,626	6,525,428	17.56
Muskoka	30	3,750	125	750	46,204	856,133	18.53
Nipissing	38	3,800	100	760	50,615	925,486	18.28
Norfolk	35	4,375	125	875	176,249	3,464,441	19.66
Northumberland	31	3,875	125	775	232,976	3,939,466	16.91
Ontario	52	6,500	125	1,300	276,217	5,371,813	19.45
Oxford	6	600	100	120	283,162	5,838,713	20.62
Parry Sound	34	4,250	125	850	58,944	1,015,862	17.23
Peel	85	13,855	163	2,771	181,669	3,188,240	17.55
Perth	2	312	156	62	329,289	5,415,016	16.44
Peterborough	18	1,800	100	360	163,851	2,827,427	17.26
Prescott	24	2,400	100	480	149,641	1,935,319	12.93
Prince Edward	10	1,250	125	250	128,617	1,870,124	14.54
Rainy River	11	1,100	100	220	35,281	447,318	12.68
Renfrew	61	7,625	125	1,525	242,557	3,571,680	14.73
Russell	40	4,000	100	800	114,824	1,817,053	15.82
Simcoe	79	15,800	200	3,160	493,710	8,361,262	16.94
Stormont	15	2,250	150	450	104,905	1,762,324	16.80
Sudbury	63	6,300	100	1,260	51,632	909,598	17.62
Thunder Bay	30	3,000	100	600	34,709	685,723	19.76
Timiskaming	34	3,400	100	680	51,717	798,708	15.44
Victoria	18	2,250	125	450	206,670	3,350,073	16.21
Waterloo	15	1,500	100	300	202,232	4,195,237	20.74
Welland	23	2,300	100	460	122,412	2,012,877	16.44
Wellington	25	3,750	150	750	366,569	6,454,188	17.61
Wentworth	22	2,200	100	440	150,586	2,676,340	17.77
York	62	13,950	225	2,790	339,918	6,733,027	19.81
The Province:							
1930	1,777	236,642	134	47,328	10,009,097	173,498,548	17.33
1929	1,777	222,903	125	44,581	10,020,294	236,651,277	23.62

PASTURE, FALLOW, ORCHARD, SMALL FRUITS

TABLE XVIII.—Showing by County Municipalities the area in Cleared Pasture, Summer Fallow, Orchards and Small Fruits in 1930, together with totals for the Province for the past five years; also the number of silos in each county in 1930.

Counties and Districts	Cleared pasture	Summer fallow	Orchard	Small fruits	Total	Number of silos
	Acres	Acres	Acres	Acres	Acres	
Algoma.....	10,819	1,001	252	93	12,165	30
Brant.....	26,269	4,182	3,327	442	34,220	1,001
Bruce.....	144,694	16,705	6,720	309	168,428	872
Carleton.....	91,826	1,498	1,619	394	95,337	1,593
Cochrane.....	2,749	74	3	9	2,835	.....
Dufferin.....	59,748	5,753	1,631	125	67,257	146
Dundas.....	43,946	241	1,583	235	46,005	1,094
Durham.....	65,732	4,822	7,154	282	77,990	745
Elgin.....	77,832	4,812	7,194	929	90,767	1,476
Essex.....	38,704	2,980	5,562	1,291	48,537	479
Frontenac.....	76,642	221	1,174	220	78,257	412
Gengarry.....	46,689	90	933	123	47,835	669
Grenville.....	47,628	125	1,232	264	49,249	563
Grey.....	153,544	15,665	8,432	406	178,047	1,168
Haldimand.....	37,638	9,433	4,280	208	51,559	547
Haliburton.....	13,778	130	100	16	14,024	8
Halton.....	28,945	4,073	5,492	1,020	39,530	642
Hastings.....	108,707	2,417	4,344	394	115,862	586
Huron.....	159,471	9,506	11,126	463	180,566	1,409
Kenora.....	1,044	89	1	9	1,143	6
Kent.....	78,232	3,477	4,458	629	86,796	780
Lambton.....	139,286	7,017	11,075	935	158,313	1,481
Lanark.....	118,627	1,018	1,075	188	120,908	1,241
Leeds.....	82,479	264	1,535	295	84,573	1,216
Lennox and Addington.....	72,418	1,837	2,131	438	76,824	328
Lincoln.....	19,674	4,876	13,425	8,743	46,718	660
Manitoulin.....	10,965	118	195	22	11,300	102
Middlesex.....	203,929	8,213	11,399	1,018	224,559	2,391
Muskoka.....	17,317	321	115	86	17,839	47
Nipissing.....	11,179	111	37	90	11,417	16
Norfolk.....	41,799	4,943	9,004	1,632	57,378	1,087
Northumberland.....	71,319	4,126	11,806	548	87,799	835
Ontario.....	66,768	5,755	6,071	360	78,954	1,575
Oxford.....	73,694	3,673	7,475	485	85,327	2,535
Parry Sound.....	19,502	491	96	70	20,159	26
Peel.....	47,473	8,827	5,833	1,178	63,311	813
Perth.....	91,636	12,670	5,434	295	110,035	1,298
Peterborough.....	61,600	5,447	1,689	217	68,953	622
Prescott.....	54,504	14	756	162	55,436	646
Prince Edward.....	42,823	1,323	6,565	277	50,988	274
Rainy River.....	6,548	450	7	37	7,042	11
Renfrew.....	98,083	1,826	802	246	100,957	596
Russell.....	40,452	90	427	124	41,093	595
Simcoe.....	96,368	34,072	7,073	790	138,303	1,221
Stormont.....	43,125	79	983	198	44,385	751
Sudbury.....	11,388	114	28	56	11,586	17
Thunder Bay.....	4,421	265	73	77	4,836	31
Timiskaming.....	8,547	674	32	30	9,283	10
Victoria.....	59,208	3,651	1,601	179	64,639	804
Waterloo.....	29,655	6,050	4,052	278	40,035	1,426
Welland.....	27,117	8,796	6,481	1,613	44,007	663
Wellington.....	84,421	11,806	4,480	331	101,038	1,104
Weatworth.....	25,680	5,831	6,990	1,761	40,262	1,190
York.....	52,818	15,025	6,870	628	75,341	1,904
The Province:						
1930.....	3,149,460	247,067	212,232	*31,248	3,640,007	41,742
1929.....	3,134,614	247,802	214,370	*31,235	3,628,021	41,678
1928.....	3,000,172	211,015	207,003	*29,361	3,447,551	41,115
1927.....	3,012,786	212,906	211,225	*29,178	3,466,095	39,996
1926.....	3,077,424	189,488	215,779	*28,491	3,511,182	38,171

*Including 7,286 acres in strawberries and 11,586 in vineyards in 1930; and 7,613 acres in strawberries and 11,255 in vineyards in 1929; and 7,773 acres in strawberries and 8,855 in vineyards in 1928; and 7,836 acres in strawberries and 7,905 in vineyards in 1927; and 7,274 in strawberries and 7,545 in vineyards in 1926.

MARKET PRICES

TABLE XIX.—The following table shows by Counties the average prices of agricultural products for 1930, together with the average prices for 1929.

Counties and Districts	Fall Wheat,	Spring Wheat	Oats,	Barley,	Peas,	Beans,	Rye,	Buckwheat,	Corn (in ear),	Hay,	Potatoes,
	per bush.	per bush.	per bush.	per bush.	per bush.	per bush.	per bush.	per bush.	per bush.	per ton.	per bush.
	cts.	cts.	cts.	cts.	cts.	\$ c.	cts.	cts.	cts.	\$ c.	cts.
Algoma	72.0	72.0	39.0	45.5	115.0	1.50	50.0	56.0	46.6	10.24	74.6
Brant	67.6	66.4	30.1	34.3	100.0	1.60	43.7	54.3	54.2	11.62	62.6
Bruce	64.7	64.4	28.7	33.8	82.0	1.88	42.5	52.9	49.4	8.96	64.0
Carleton	67.0	66.9	33.1	42.3	137.0	1.65	50.0	53.5	56.2	9.97	64.6
Cochrane	68.0	67.0	40.7	47.4	150.0	1.80	50.0	55.0	...	12.13	100.6
Dufferin	65.4	64.5	27.8	31.1	71.0	1.75	43.3	50.3	56.6	10.13	36.0
Dundas	66.5	66.0	30.8	40.1	138.0	2.13	55.0	54.6	53.2	8.60	64.6
Durham	67.8	63.3	28.1	35.0	122.0	2.21	43.2	48.8	55.4	10.73	48.6
Elgin	67.1	66.2	28.9	39.7	89.0	1.36	55.8	50.2	46.4	9.44	73.4
Essex	66.3	63.0	26.4	32.9	77.0	1.55	50.0	50.0	43.6	11.69	70.0
Frontenac	67.6	71.5	28.8	36.7	100.0	1.95	56.0	55.0	52.2	9.79	66.6
Glengarry	66.0	69.9	29.6	42.7	112.0	1.94	...	50.7	56.4	8.74	61.4
Grenville	65.0	64.5	32.6	40.2	106.0	2.14	60.5	53.8	60.0	9.71	55.4
Grey	66.9	67.7	28.5	34.4	77.0	1.25	50.0	47.9	49.0	9.41	54.6
Haldimand	68.5	68.2	28.6	35.8	96.0	1.86	52.0	59.1	59.6	10.40	66.6
Haliburton	65.0	65.0	34.3	36.8	117.0	1.80	55.0	56.0	47.4	12.50	66.6
Halton	69.4	63.1	30.3	33.7	98.0	1.30	53.0	58.8	51.0	12.56	54.0
Hastings	72.8	71.9	34.0	42.0	111.0	2.15	58.0	53.5	51.0	11.53	65.4
Huron	63.9	63.0	28.0	32.0	96.0	1.52	50.0	56.4	66.0	9.15	63.4
Kenora	67.0	67.0	33.1	36.2	135.0	...	55.0	55.0	...	10.94	50.0
Kent	65.0	63.2	25.3	36.7	77.0	1.31	45.5	48.5	37.6	10.07	69.4
Lambton	65.0	60.4	26.8	33.6	90.0	1.41	50.0	61.3	51.6	9.80	75.4
Lanark	65.0	66.0	33.8	40.5	107.0	1.88	50.0	52.8	46.4	11.63	64.0
Leeds	72.9	71.6	34.2	41.5	113.0	2.06	58.5	56.1	57.6	10.39	64.0
Lennox and Addington	69.1	67.0	30.7	41.8	133.0	2.09	55.0	53.1	57.8	8.68	62.4
Lincoln	74.3	71.1	32.4	38.6	143.0	2.10	57.6	62.0	50.4	12.04	78.0
Manitoulin	72.0	72.0	38.3	45.0	95.0	1.50	56.0	57.0	47.1	9.25	99.4
Middlesex	65.7	65.1	26.3	32.7	85.0	1.45	53.6	57.1	50.4	9.77	66.0
Muskoka	65.0	65.0	37.2	44.3	128.0	2.25	55.0	57.5	56.0	13.30	70.0
Nipissing	66.7	66.7	34.9	45.8	112.0	2.00	51.0	53.0	54.0	13.31	64.0
Norfolk	71.0	68.3	32.0	37.6	100.0	1.73	51.6	52.6	52.0	11.61	70.6
Northumberland	65.2	65.5	29.7	37.7	119.0	2.01	44.8	48.9	54.4	10.80	56.0
Ontario	70.8	68.3	30.6	35.6	91.0	2.03	47.3	53.1	50.0	11.12	52.0
Oxford	69.6	67.5	32.8	39.9	123.0	2.07	46.9	55.4	57.6	11.45	70.6
Parry Sound	68.0	68.0	38.7	45.1	112.0	2.10	50.0	52.0	55.0	12.90	57.4
Peel	65.4	62.9	29.8	34.3	87.0	1.40	45.6	52.1	50.0	12.38	48.6
Perth	65.9	65.8	29.6	35.3	89.0	1.91	47.7	51.0	54.0	9.50	66.6
Peterborough	66.5	64.7	28.8	36.8	102.0	2.14	47.0	53.7	48.8	12.92	57.4
Prescott	70.0	68.6	27.8	41.3	140.0	1.99	54.0	52.3	56.0	8.80	55.6
Prince Edward	68.7	66.1	25.1	35.2	154.0	2.06	46.8	51.8	52.8	9.37	68.6
Rainy River	68.0	68.0	32.3	35.7	140.0	1.75	54.0	55.0	40.0	10.30	50.0
Renfrew	62.4	64.0	26.6	31.2	120.0	2.10	51.3	46.3	55.5	11.25	58.6
Russell	70.2	69.1	26.1	39.5	135.0	1.68	55.8	50.5	55.5	10.07	54.6
Simcoe	62.4	60.0	26.8	31.9	74.0	1.95	46.4	46.1	45.0	10.86	42.6
Stormont	63.0	63.5	35.1	41.5	111.0	2.10	54.0	54.4	57.0	9.31	70.6
Sudbury	70.0	69.5	40.5	46.9	130.0	1.75	51.0	55.0	50.0	11.83	74.0
Thunder Bay	65.0	66.2	34.3	40.0	125.0	1.60	55.0	56.0	46.0	11.00	80.0
Timiskaming	70.7	68.0	40.1	46.0	129.0	1.75	50.0	56.0	50.0	9.71	86.0
Victoria	64.7	59.7	27.7	32.6	106.0	1.72	37.8	47.4	48.0	13.13	60.0
Waterloo	68.4	63.3	33.2	38.3	87.0	2.00	47.1	52.0	55.8	11.60	66.6
Welland	71.0	70.5	32.4	41.0	93.0	1.80	60.4	63.4	59.2	11.90	72.6
Wellington	67.1	65.5	31.5	38.3	75.0	1.57	45.0	50.7	58.6	9.57	52.6
Wentworth	71.6	72.7	30.3	35.6	95.0	2.00	51.2	50.6	47.0	12.39	60.6
York	66.0	64.7	32.0	35.3	91.0	1.75	55.1	50.7	49.4	11.59	52.6
The Province:											
1930	66.3	65.5	29.7	35.9	104.8	1.44	48.5	51.7	46.2	10.42	59.7
1929	124.0	125.2	62.4	76.5	163.0	3.03	97.1	83.2	66.8	11.28	108.0

HORSES ON HAND

TABLE XX.—Showing by County Municipalities the number and value of Horses on hand, June 15th, 1930, together with the totals for the Province for the past five years.

Counties and Districts	Stallions, 2 yrs. old and over	Mares, 2 yrs. old and over	Geldings, 2 yrs. old and over	Colts and Fillies, under 2 years	Total Horses	
					Number	Value
						\$
Algoma.....	31	1,498	1,114	186	2,829	345,094
Brant.....	21	4,061	3,502	598	8,182	888,355
Bruce.....	80	11,158	7,757	2,271	21,266	2,207,399
Carleton.....	84	8,100	6,031	1,614	15,829	1,733,530
Cochrane.....	18	406	240	45	709	101,244
Dufferin.....	53	5,689	4,199	1,182	11,123	1,108,751
Dundas.....	40	4,160	3,658	670	8,528	840,450
Durham.....	48	6,647	5,032	984	12,711	1,320,396
Elgin.....	48	7,618	5,792	1,234	14,692	1,546,242
Essex.....	134	8,159	6,297	1,374	15,964	1,625,705
Frontenac.....	65	4,487	3,363	715	8,630	850,654
Glengarry.....	78	4,002	2,766	797	7,643	776,701
Grenville.....	30	3,305	2,804	525	6,664	641,592
Grey.....	141	13,152	10,333	2,502	26,128	2,585,185
Haldimand.....	30	4,813	3,901	788	9,532	927,551
Haliburton.....	19	736	603	114	1,472	159,232
Halton.....	23	3,401	3,017	392	6,833	712,898
Hastings.....	90	8,294	7,006	1,131	16,521	1,702,648
Huron.....	112	13,827	9,926	3,112	26,977	2,636,146
Kenora.....	8	159	239	7	413	48,361
Kent.....	150	10,774	8,756	1,823	21,503	2,089,520
Lambton.....	80	10,408	7,523	2,310	20,321	2,006,320
Lanark.....	54	5,607	4,342	1,048	11,051	1,095,076
Leeds.....	49	5,217	4,574	871	10,711	998,619
Lennox and Addington.....	55	4,743	4,340	864	10,002	977,063
Lincoln.....	58	3,463	3,736	226	7,483	733,775
Manitoulin.....	14	938	834	172	1,958	210,258
Middlesex.....	173	13,760	10,253	2,840	27,026	2,521,696
Muskoka.....	20	1,518	1,209	170	2,917	313,984
Nipissing.....	66	1,286	859	104	2,315	288,574
Norfolk.....	67	6,180	5,292	725	12,264	1,172,648
Northumberland.....	65	7,317	6,495	943	14,820	1,422,023
Ontario.....	60	8,584	6,684	1,254	16,582	1,732,992
Oxford.....	69	9,106	7,548	1,256	17,979	1,706,869
Parry Sound.....	35	1,738	1,462	219	3,454	372,463
Peel.....	35	5,273	3,999	1,182	10,489	1,061,507
Perth.....	81	10,387	7,768	2,102	20,338	1,965,122
Peterborough.....	56	5,306	4,042	776	10,180	1,024,852
Prescott.....	93	4,054	2,309	736	7,192	752,539
Prince Edward.....	20	3,881	3,210	419	7,530	747,693
Rainy River.....	20	1,029	1,009	113	2,171	226,277
Renfrew.....	114	6,923	4,778	1,474	13,289	1,318,958
Russell.....	94	3,582	2,138	830	6,644	671,266
Simcoe.....	139	14,503	11,593	2,191	28,426	2,678,907
Stormont.....	52	3,445	2,884	523	6,904	692,091
Sudbury.....	66	1,372	789	214	2,441	295,581
Thunder Bay.....	51	793	900	28	1,772	191,140
Timiskaming.....	26	1,275	1,112	131	2,544	311,028
Victoria.....	40	6,111	4,548	957	11,656	1,210,425
Waterloo.....	51	6,523	5,319	1,140	13,033	1,231,368
Welland.....	59	3,692	3,268	277	7,296	726,863
Wellington.....	87	10,914	8,811	1,896	21,708	2,107,578
Wentworth.....	68	4,724	4,233	488	9,513	978,818
York.....	42	10,230	8,775	1,514	20,561	2,014,800
The Province:						
1930.....	3,362	308,328	242,972	52,057	606,719	60,606,827
1929.....	3,396	310,856	240,893	51,360	606,505	66,603,793
1928.....	3,388	314,798	241,319	49,744	609,249	67,085,352
1927.....	3,568	320,990	246,639	45,939	617,136	66,724,527
1926.....	3,515	328,924	251,958	45,262	629,659	68,239,756

CATTLE ON HAND

TABLE XXI.—Showing by County Municipalities the number of Cattle on hand, June 15th, 1930, together with the totals for the Province for the past five years.

Counties and Districts	Bulls for breeding	Cows for milk purposes	Cows for beef purposes	Yearlings for milk purposes	Yearlings for beef purposes	Calves	All other cattle
Algoma.....	265	6,152	276	1,438	1,893	3,594	918
Brant.....	742	14,804	551	4,314	1,746	5,930	627
Bruce.....	1,471	34,554	3,066	5,768	20,363	26,762	15,977
Carleton.....	2,350	46,379	2,194	11,201	4,921	16,670	5,991
Cochrane.....	134	1,070	64	351	70	639	35
Dufferin.....	722	14,497	1,476	2,595	8,851	10,853	5,143
Dundas.....	1,945	31,072	174	7,393	101	8,093	767
Durham.....	726	17,516	2,014	4,075	7,411	10,589	4,470
Elgin.....	1,500	29,854	1,134	7,146	4,336	11,727	5,007
Essex.....	825	19,537	1,232	4,810	1,024	5,595	423
Frontenac.....	1,745	29,906	1,014	6,480	2,224	12,453	1,291
Glengarry.....	2,074	32,883	877	7,071	281	7,758	659
Grenville.....	1,296	19,930	487	5,705	154	5,935	748
Grey.....	1,620	41,389	4,348	6,943	23,217	30,096	17,143
Haldimand.....	726	15,459	444	4,366	2,873	7,352	967
Haliburton.....	177	3,459	160	598	1,342	2,652	533
Halton.....	848	13,932	1,029	3,698	2,550	6,044	1,582
Hastings.....	2,998	45,268	1,922	10,480	2,997	19,392	3,154
Huron.....	1,643	37,406	4,015	7,379	19,515	27,599	18,018
Kenora.....	44	528	11	113	32	251	9
Kent.....	845	20,425	2,870	4,398	6,513	10,910	6,376
Lambton.....	1,093	31,015	2,808	5,038	14,412	21,599	14,177
Lanark.....	1,629	29,541	2,548	7,498	9,482	18,115	5,749
Leeds.....	2,404	38,779	538	9,747	751	12,475	1,254
Lennox and Addington	1,429	26,373	635	5,380	2,295	9,886	959
Lincoln.....	449	10,190	406	2,484	620	3,337	231
Manitoulin.....	203	3,889	241	675	2,388	3,093	1,498
Middlesex.....	2,360	51,099	3,686	11,251	15,007	26,472	16,103
Muskoka.....	380	6,664	411	1,733	1,364	3,874	816
Nipissing.....	812	7,457	526	1,878	940	4,440	620
Norfolk.....	934	19,942	550	5,711	903	6,432	748
Northumberland.....	1,516	27,355	1,866	6,961	4,386	12,220	2,141
Ontario.....	1,331	28,409	3,343	6,337	9,714	15,525	4,756
Oxford.....	2,450	46,841	1,367	10,981	3,802	14,761	4,203
Parry Sound.....	395	8,032	428	1,939	3,240	5,654	1,562
Peel.....	1,032	20,997	819	5,394	2,485	7,291	2,808
Perth.....	1,847	36,471	1,881	9,648	10,484	20,307	5,776
Peterborough.....	1,044	22,599	1,045	5,302	4,720	11,645	3,245
Prescott.....	2,033	29,433	683	6,383	373	8,434	681
Prince Edward.....	943	15,998	494	3,729	327	5,004	91
Rainy River.....	231	3,637	186	962	802	2,145	181
Renfrew.....	2,426	31,822	3,226	7,083	10,762	20,883	5,802
Russell.....	1,643	26,063	756	5,957	838	7,148	772
Simcoe.....	1,926	42,710	3,077	9,443	17,068	24,859	9,189
Stormont.....	1,654	27,427	680	5,274	184	5,859	586
Sudbury.....	737	6,406	555	1,857	648	3,704	295
Thunder Bay.....	167	4,714	75	1,101	127	1,574	28
Timiskaming.....	434	4,861	345	1,552	1,233	3,332	274
Victoria.....	808	19,336	1,769	4,019	9,247	13,374	7,283
Waterloo.....	1,091	20,618	722	4,911	4,376	10,603	1,631
Welland.....	494	12,602	389	2,777	905	3,695	283
Wellington.....	1,437	30,730	3,582	5,439	15,089	21,792	6,687
Wentworth.....	969	17,710	749	4,508	1,797	5,978	607
York.....	1,938	36,863	2,508	8,763	3,583	11,042	2,575
The Province:							
1930.....	64,935	*1,222,603	72,252	278,037	266,766	577,446	193,449
1929.....	64,323	*1,237,248	69,685	271,668	265,359	575,522	187,789
1928.....	64,221	*1,261,384	70,139	264,624	261,586	576,766	183,333
1927.....	65,636	*1,294,840	70,890	263,791	271,435	557,706	185,656
1926.....	66,854	*1,280,436	77,024	262,935	284,796	569,645	216,109

*Including dual purpose cows.

TOTAL CATTLE AND SHEEP ON HAND

TABLE XXII.—Showing by County Municipalities the number and value of Cattle on hand, June 15th, 1930, together with the totals for the Province for the past five years.

Counties and Districts	Total Cattle		Sheep and Lambs				
	Number	Value	Ewes for breeding	1 year and over	Under 1 year	Total sheep and lambs	
						Number	Value
		\$					\$
Algoma.....	14,536	668,015	4,442	893	4,848	10,183	94,578
Brant.....	28,714	1,705,933	4,510	692	4,867	10,069	96,315
Bruce.....	107,961	5,408,287	26,959	3,339	27,669	57,967	592,256
Carleton.....	89,706	4,687,137	11,290	1,841	12,144	25,275	235,896
Cochrane.....	2,363	119,945	99	32	131	262	2,705
Dufferin.....	44,137	2,192,492	16,242	2,661	18,117	37,020	370,863
Dundas.....	49,545	2,697,211	1,253	154	1,289	2,696	24,577
Durham.....	46,801	2,355,390	13,696	2,818	15,574	32,088	321,334
Elgin.....	60,704	3,417,805	13,028	1,827	13,324	28,179	274,050
Essex.....	33,446	2,006,512	8,826	1,368	9,692	19,886	189,398
Frontenac.....	55,113	2,438,365	8,622	1,373	9,352	19,347	171,676
Glengarry.....	51,603	2,841,913	2,298	715	2,809	5,822	51,198
Grenville.....	34,255	1,779,552	4,729	587	4,843	10,159	90,469
Grey.....	124,756	6,366,056	38,335	3,807	41,677	83,819	802,278
Haldimand.....	32,187	1,745,657	7,444	975	8,752	17,171	162,996
Haliburton.....	8,921	377,779	2,399	424	2,438	5,261	44,773
Halton.....	29,683	1,670,270	6,030	867	6,699	13,596	141,180
Hastings.....	86,211	4,128,890	19,156	2,632	20,472	42,260	377,351
Huron.....	115,575	5,900,356	15,631	1,925	17,436	34,992	342,037
Kenora.....	988	49,691	85	34	87	206	1,712
Kent.....	52,337	2,671,444	8,471	1,341	9,081	18,893	171,844
Lambton.....	90,142	4,743,179	20,333	2,173	20,888	43,394	431,556
Lanark.....	74,562	3,334,207	20,280	3,083	20,814	44,177	412,598
Leeds.....	65,948	3,383,642	6,357	1,048	6,908	14,313	128,961
Lennox & Add'gton	46,957	2,318,558	7,872	818	8,359	17,049	153,220
Lincoln.....	17,717	1,019,407	4,400	577	4,440	9,417	89,040
Manitoulin.....	11,987	556,988	7,495	816	7,891	16,202	147,870
Middlesex.....	125,978	6,575,455	14,223	3,465	15,203	32,891	334,817
Muskoka.....	15,242	705,249	3,442	764	3,516	7,722	74,875
Nipissing.....	16,673	715,696	3,218	695	3,498	7,411	62,535
Norfolk.....	35,220	1,960,895	4,248	731	4,569	9,548	94,900
Northumberland..	56,445	2,876,522	8,566	2,098	8,686	19,350	192,384
Ontario.....	69,415	3,549,124	21,359	3,768	21,123	46,250	460,596
Oxford.....	84,405	4,882,000	5,986	788	6,226	13,000	126,681
Parry Sound.....	21,250	914,870	7,872	1,478	8,654	18,004	164,713
Peel.....	40,826	2,230,571	7,117	1,088	7,957	16,162	151,254
Perth.....	86,414	4,553,858	5,932	1,181	6,921	14,034	135,555
Peterborough.....	49,600	2,403,162	6,885	1,459	7,624	15,968	144,465
Prescott.....	48,020	2,274,285	2,667	771	3,052	6,490	53,832
Prince Edward.....	26,586	1,445,966	4,823	952	5,300	11,075	104,707
Rainy River.....	8,144	422,182	3,186	353	3,405	6,944	60,137
Renfrew.....	82,004	3,146,180	32,369	5,576	33,645	71,590	599,334
Russell.....	43,177	2,178,307	2,946	540	2,998	6,484	58,334
Simcoe.....	108,272	5,295,132	29,144	4,333	30,737	64,214	648,339
Stormont.....	41,664	2,233,128	1,371	223	1,440	3,034	27,957
Sudbury.....	14,202	605,787	2,459	627	2,825	5,911	47,747
Thunder Bay.....	7,786	443,851	471	119	649	1,239	9,853
Timiskaming.....	12,031	544,993	2,970	435	2,780	6,185	61,839
Victoria.....	55,836	2,625,450	15,131	2,272	15,341	32,744	320,811
Waterloo.....	43,952	2,282,437	2,789	338	3,237	6,364	62,606
Welland.....	21,145	1,224,299	2,645	346	3,166	6,157	53,136
Wellington.....	84,756	4,149,382	18,241	3,114	21,515	42,870	439,782
Wentworth.....	32,318	1,782,213	4,765	656	4,939	10,360	107,261
York.....	67,272	3,890,669	14,404	2,100	16,249	32,753	314,589
The Province:							
1930.....	2,675,488	136,496,344	509,511	79,090	545,856	1,134,457	10,835,770
1929.....	2,671,594	150,480,760	508,750	77,131	544,514	1,130,395	12,457,554
1928.....	2,682,053	128,937,680	461,137	68,292	484,677	1,014,106	11,209,872
1927.....	2,709,954	117,162,152	431,307	63,622	461,338	956,267	10,433,761
1926.....	2,757,799	115,386,214	408,077	52,050	426,356	886,483	9,688,685

SWINE ON HAND

TABLE XXIII.—Showing by County Municipalities the number and value of Swine on hand, June 15, 1930, together with the totals for the Province for the past five years.

Counties and Districts	Brood Sows	Other Swine		Total Swine	
		Six mos. and over	Under six mos.	Number	Value
					\$
Algoma	445	316	2,998	3,759	43,807
Brant	2,171	1,920	16,227	20,318	241,025
Bruce	5,573	5,528	45,943	57,044	656,060
Carleton	3,395	1,837	24,673	29,905	338,223
Cochrane	107	100	720	927	10,785
Dufferin	3,672	4,826	28,339	36,837	450,553
Dundas	2,180	2,297	16,355	20,832	246,149
Durham	3,245	4,481	24,303	32,029	371,065
Elgin	4,230	5,186	33,337	42,753	469,244
Essex	6,914	10,749	44,990	62,653	702,617
Frontenac	2,050	1,711	14,271	18,032	194,996
Glengarry	2,086	2,257	15,625	19,968	226,949
Grenville	1,411	1,080	10,928	13,419	141,576
Grey	7,283	9,193	56,809	73,285	868,575
Haldimand	2,208	1,995	16,390	20,593	238,614
Haliburton	278	237	1,586	2,101	24,698
Halton	1,861	2,101	15,062	19,024	216,944
Hastings	5,180	5,426	39,194	49,800	489,605
Huron	8,079	9,461	64,115	81,655	981,973
Kenora	59	24	355	438	4,991
Kent	8,656	15,836	62,810	87,302	949,068
Lambton	6,442	8,425	50,069	64,936	737,357
Lanark	2,381	1,659	17,311	21,351	232,952
Leeds	2,395	2,118	16,752	21,265	232,902
Lennox and Addington	2,089	1,838	16,979	20,906	224,729
Lincoln	1,216	969	9,791	11,976	128,573
Manitoulin	441	424	2,878	3,743	38,263
Middlesex	6,528	5,414	50,892	62,834	710,761
Muskoka	414	207	2,280	2,901	36,388
Nipissing	770	841	4,506	6,117	66,115
Norfolk	2,277	2,981	20,265	25,523	272,558
Northumberland	4,165	3,108	31,205	38,478	442,348
Ontario	5,330	7,480	38,183	50,993	593,235
Oxford	5,744	6,373	48,481	60,598	664,985
Parry Sound	630	446	3,581	4,657	53,408
Peel	2,384	2,139	19,330	23,853	259,217
Perth	7,581	7,975	59,392	74,948	866,421
Peterborough	2,254	1,691	16,683	20,628	229,627
Prescott	1,971	2,530	15,283	19,784	220,640
Prince Edward	1,965	1,252	14,210	17,427	201,059
Rainy River	314	221	2,171	2,706	31,239
Renfrew	3,264	3,027	21,960	28,251	264,195
Russell	1,998	2,079	14,240	18,317	196,796
Simcoe	8,745	10,941	61,749	81,435	935,788
Stormont	1,909	1,753	14,169	17,831	193,510
Sudbury	829	694	4,115	5,638	70,254
Thunder Bay	289	193	2,052	2,534	29,361
Timiskaming	534	440	3,331	4,305	50,726
Victoria	3,071	3,422	21,836	28,329	302,738
Waterloo	5,151	6,609	37,528	49,288	509,008
Welland	1,521	1,401	10,494	13,416	160,272
Wellington	8,169	9,867	63,501	81,537	923,300
Wentworth	2,667	2,534	19,089	24,290	278,116
York	5,730	8,176	44,181	58,087	618,806
The Province:					
1930	172,251	195,788	1,293,517	1,661,556	18,643,164
1929	172,739	196,264	1,312,260	1,681,263	20,430,803
1928	195,990	230,587	1,406,961	1,833,538	19,808,890
1927	207,052	260,803	1,415,322	1,883,177	24,159,535
1926	199,637	264,639	1,271,079	1,735,355	24,525,126

POULTRY ON HAND

TABLE XXIV.—Showing by County Municipalities the number and value of Poultry on hand, June 15th, 1930, together with the totals for the Province for the past five years.

Counties and Districts	Turkeys	Geese	Ducks	Other Fowls	Total Poultry	
					Number	Value
						\$
Algoma.....	3,068	1,695	1,048	86,841	92,652	58,638
Brant.....	2,087	6,224	5,420	278,852	292,583	165,716
Bruce.....	25,903	22,518	25,590	648,098	722,109	446,558
Carleton.....	13,674	19,331	13,006	455,401	501,412	293,869
Cochrane.....	358	185	251	17,364	18,158	10,787
Dufferin.....	2,121	19,336	8,811	242,385	272,653	163,277
Dundas.....	11,998	8,920	6,805	364,633	392,356	221,650
Durham.....	2,611	13,625	10,005	422,556	448,797	266,749
Elgin.....	15,783	12,171	12,537	632,648	673,139	394,000
Essex.....	13,448	20,022	31,082	891,878	956,430	518,771
Frontenac.....	35,322	4,412	7,910	211,712	259,356	177,975
Glengarry.....	18,702	3,054	4,706	224,489	250,951	162,556
Grenville.....	12,862	6,802	6,592	260,505	286,761	182,389
Grey.....	14,602	30,506	26,703	741,812	813,623	511,446
Haldimand.....	14,130	6,937	10,345	415,869	447,281	262,230
Haliburton.....	2,343	896	558	26,618	30,415	20,734
Halton.....	2,643	9,950	7,682	220,803	241,078	150,622
Hastings.....	16,745	12,261	6,953	513,835	549,794	328,742
Huron.....	8,358	24,772	31,864	1,034,298	1,099,292	633,969
Kenora.....	508	148	167	12,176	12,999	7,886
Kent.....	12,755	18,321	35,789	931,646	998,511	601,026
Lambton.....	37,047	26,404	34,828	1,009,240	1,107,519	662,495
Lanark.....	17,128	4,857	3,790	301,343	327,118	207,495
Leeds.....	25,385	6,266	8,151	305,246	345,048	230,019
Lennox and Addington.....	9,197	4,569	7,361	339,395	360,522	197,412
Lincoln.....	7,584	5,426	7,578	283,994	304,582	173,857
Manitoulin.....	10,305	1,805	507	45,676	58,293	45,723
Middlesex.....	40,049	28,253	33,565	1,087,714	1,189,581	716,249
Muskoka.....	1,829	924	1,060	86,178	89,991	58,189
Nipissing.....	510	1,194	626	63,725	66,055	39,751
Norfolk.....	8,498	6,368	9,996	524,204	549,066	311,115
Northumberland.....	6,986	9,568	8,985	483,290	508,829	294,740
Ontario.....	6,578	19,819	15,689	492,621	534,707	324,343
Oxford.....	2,263	11,115	15,338	782,691	811,407	436,969
Parry Sound.....	2,018	2,805	1,032	78,383	84,238	54,070
Peel.....	5,812	14,667	12,751	395,282	428,512	245,927
Perth.....	2,053	20,143	21,675	745,992	789,863	453,227
Peterborough.....	14,716	9,222	5,399	311,448	340,785	212,711
Prescott.....	11,341	5,759	2,556	216,502	236,158	151,823
Prince Edward.....	7,313	2,882	5,387	248,281	263,863	157,697
Rainy River.....	4,072	1,021	945	54,594	60,632	38,105
Renfrew.....	16,498	11,799	4,171	316,516	348,984	215,638
Russell.....	1,671	7,783	4,515	205,949	219,918	128,391
Simcoe.....	16,171	33,042	21,322	772,045	842,580	500,550
Stormont.....	10,449	3,498	3,914	322,877	340,738	193,174
Sudbury.....	820	1,146	543	59,112	61,621	37,346
Thunder Bay.....	918	1,098	454	80,103	82,573	46,159
Timiskaming.....	1,400	1,765	1,484	71,354	76,003	47,877
Victoria.....	9,536	13,060	7,973	327,106	357,675	214,913
Waterloo.....	270	7,273	7,131	380,801	395,475	215,705
Welland.....	2,572	3,999	10,232	334,527	351,330	202,208
Wellington.....	2,536	29,474	14,554	582,748	629,312	375,617
Wentworth.....	2,822	5,934	8,978	296,399	314,133	183,502
York.....	5,426	25,900	29,804	661,669	722,799	420,095
The Province:						
1930.....	521,794	570,924	566,118	20,901,424	22,560,260	13,372,682
1929.....	510,054	587,222	590,610	20,357,205	22,045,091	13,473,814
1928.....	496,202	590,415	557,150	18,059,809	19,703,576	12,452,203
1927.....	496,164	594,593	578,721	17,378,567	19,048,045	12,333,645
1926.....	469,981	567,151	544,130	16,111,738	17,693,000	12,400,985

FARM PROPERTY, IMPLEMENTS AND LIVE STOCK

TABLE XXV.—Showing by County Municipalities of Ontario the value of farm lands, buildings, implements and live stock for 1930, together with the totals for the Province for 1929.

Counties and Districts	Land	Buildings	Implements	Live Stock on hand	Total
	\$	\$	\$	\$	\$
Algoma.....	4,430,211	1,917,321	791,519	1,210,132	8,349,183
Brant.....	12,817,242	8,026,386	2,330,583	3,097,344	26,271,555
Bruce.....	33,757,030	18,928,984	5,696,499	9,310,560	67,693,073
Carleton.....	29,062,837	14,822,728	4,996,913	7,288,655	56,171,133
Cochrane.....	1,690,380	435,382	260,351	245,466	2,631,579
Dufferin.....	14,556,048	9,492,649	2,664,959	4,285,936	30,999,592
Dundas.....	12,263,533	7,236,459	2,941,039	4,030,037	26,471,068
Durham.....	16,079,221	10,302,577	3,227,075	4,634,934	34,243,807
Elgin.....	25,670,741	14,702,690	4,597,156	6,101,341	51,071,928
Essex.....	42,200,000	19,606,186	6,119,011	5,043,003	72,968,200
Frontenac.....	10,912,067	5,561,775	2,115,389	3,833,666	22,422,897
Glengarry.....	13,093,024	7,095,386	2,606,841	4,059,317	26,854,568
Grenville.....	8,333,877	5,294,230	1,960,378	2,835,578	18,424,063
Grey.....	36,571,564	22,897,638	6,889,807	11,133,540	77,492,549
Haldimand.....	13,535,139	8,639,123	2,851,484	3,337,048	28,362,794
Haliburton.....	2,335,400	756,868	373,075	627,216	4,092,559
Halton.....	14,100,623	7,990,655	2,461,368	2,891,914	27,444,560
Hastings.....	19,839,219	11,452,059	4,500,842	7,027,236	42,819,356
Huron.....	37,484,060	23,167,935	7,422,842	10,494,481	78,569,318
Kenora.....	669,416	253,530	130,104	112,641	1,165,691
Kent.....	46,662,343	20,748,488	7,244,104	6,482,902	81,137,837
Lambton.....	36,255,230	17,632,960	6,318,756	8,580,907	68,787,853
Lanark.....	12,897,695	6,537,045	2,826,520	5,282,328	27,543,588
Leeds.....	14,731,483	7,720,131	2,813,913	4,974,143	30,239,670
Lennox & Addington...	11,957,368	6,405,675	2,369,880	3,870,982	24,603,905
Lincoln.....	17,181,394	9,446,019	2,602,387	2,144,652	31,374,452
Manitoulin.....	3,105,998	1,086,660	463,275	999,102	5,655,035
Middlesex.....	44,711,433	25,328,131	7,708,888	10,858,978	88,607,430
Muskoka.....	4,655,375	2,022,032	844,199	1,188,685	8,710,291
Nipissing.....	3,931,606	1,620,999	852,552	1,172,671	7,577,828
Norfolk.....	17,620,951	9,501,987	3,436,460	3,812,116	34,371,514
Northumberland.....	17,427,357	11,212,358	3,716,009	5,228,017	37,583,741
Ontario.....	24,025,131	15,688,138	4,751,842	6,660,290	51,125,401
Oxford.....	27,687,166	18,719,828	5,805,855	7,817,504	60,030,353
Parry Sound.....	4,269,586	2,005,187	915,977	1,559,524	8,750,274
Peel.....	20,895,625	12,496,085	3,563,128	3,948,476	40,903,314
Perth.....	28,441,073	20,532,387	5,937,182	7,974,183	62,884,825
Peterborough.....	15,527,217	7,854,234	2,615,085	4,014,817	30,011,353
Prescott.....	14,297,810	6,959,382	2,481,006	3,453,119	27,191,317
Prince Edward.....	9,349,033	5,636,928	2,405,906	2,657,122	20,048,989
Rainy River.....	3,837,896	1,192,277	617,345	777,940	6,425,458
Renfrew.....	18,767,555	8,246,656	3,943,572	5,544,305	36,502,088
Russell.....	11,488,814	5,574,473	1,993,049	3,233,094	22,289,430
Simcoe.....	42,050,011	23,777,333	8,020,539	10,058,716	83,906,599
Stormont.....	9,944,208	6,485,000	2,404,920	3,339,860	22,173,988
Sudbury.....	5,130,856	1,807,519	924,424	1,056,715	8,919,514
Thunder Bay.....	4,151,309	1,478,263	637,188	720,364	6,987,124
Timiskaming.....	5,575,497	1,871,479	1,024,237	1,016,463	9,487,676
Victoria.....	17,527,964	8,686,029	2,930,167	4,674,337	33,818,497
Waterloo.....	18,186,683	13,357,266	3,300,776	4,301,124	39,145,849
Welland.....	15,108,578	9,060,873	2,610,639	2,366,778	29,146,868
Wellington.....	28,560,517	20,942,282	5,572,129	7,995,659	63,070,587
Wentworth.....	18,764,419	10,608,277	3,248,491	3,329,910	35,951,097
York.....	38,735,109	19,747,935	5,811,227	7,258,959	71,553,230
The Province:					
1930.....	962,861,922	540,570,877	177,648,862	239,954,787	1,921,036,448
1929.....	963,503,959	535,923,912	176,909,961	263,446,724	1,939,784,556

PART II—CHATTEL MORTGAGES

Table showing by County Municipalities of Ontario the total number and amount of Chattel Mortgages on record and undischarged on December 31st, for the years 1928, 1929 and 1930, together with totals for the Province for all occupations as well as for "farmers," as far as given in the records.

Counties and Districts	1930		1929		1928	
	No.	Amount	No.	Amount	No.	Amount
		\$		\$		\$
Algoma.....	142	376,164	184	413,721	153	339,021
Brant.....	329	269,588	322	186,695	257	150,721
Bruce.....	239	245,372	181	171,669	174	223,050
Carleton.....	619	555,654	555	587,663	553	565,025
Cochrane.....	219	535,854	238	234,210	242	320,420
Dufferin.....	114	154,644	70	79,456	73	104,315
Elgin.....	234	295,937	270	355,837	242	289,425
Essex.....	2,500	1,159,714	2,417	2,142,620	1,218	847,607
Frontenac.....	201	206,539	228	274,840	207	247,718
Grey.....	273	296,304	242	269,461	207	223,093
Haldimand.....	120	157,891	126	131,933	122	106,988
Haliburton.....	30	26,108	35	28,811	31	17,546
Halton.....	108	157,765	89	116,480	83	136,584
Hastings.....	336	545,515	301	428,960	335	473,615
Huron.....	216	335,126	173	228,630	151	169,235
Kenora.....	79	159,384	50	98,620	65	163,906
Kent.....	435	534,048	438	482,242	324	422,798
Lambton.....	205	264,532	163	244,823	173	235,561
Lanark.....	105	115,536	114	126,171	118	123,484
Leeds and Grenville.....	261	325,414	227	303,589	247	294,158
Lennox and Addington.....	124	308,094	114	296,072	116	302,048
Lincoln.....	205	373,697	178	255,231	167	197,007
Manitoulin.....	79	86,260	73	85,776	72	48,203
Middlesex.....	718	560,297	763	585,492	725	481,571
Muskoka.....	95	226,707	98	232,148	95	197,655
Nipissing.....	211	281,170	223	333,067	229	246,078
Norfolk.....	166	175,172	160	232,058	157	219,216
Northumberland & Durham.....	283	388,411	271	389,288	257	377,486
Ontario.....	283	323,938	313	323,713	237	250,553
Oxford.....	223	306,890	169	236,846	166	305,178
Parry Sound.....	172	226,778	164	164,230	172	163,039
Peel.....	54	44,998	63	100,009	61	80,220
Perth.....	210	217,501	203	237,750	170	214,959
Peterborough.....	156	208,519	162	200,455	160	133,428
Prescott and Russell.....	341	540,780	285	352,051	279	318,556
Prince Edward.....	158	189,408	131	148,340	131	123,706
Rainy River.....	120	137,210	95	89,215	97	83,764
Renfrew.....	216	293,268	181	250,365	203	336,675
Simcoe.....	411	368,134	367	328,508	387	360,064
Stormont, Dundas & Glengarry.....	389	532,421	317	388,945	304	430,652
Sudbury.....	291	278,642	296	513,906	321	556,175
Thunder Bay.....	175	441,100	130	434,584	155	345,247
Timiskaming.....	244	432,076	212	560,908	203	431,903
Victoria.....	98	310,212	72	116,980	81	81,904
Waterloo.....	461	288,656	392	397,738	242	341,319
Welland.....	243	141,359	246	308,975	214	265,973
Wellington.....	263	261,404	212	252,581	185	227,417
Wentworth.....	812	917,303	943	813,516	729	851,204
York.....	5,567	4,193,408	4,603	2,573,713	3,489	2,817,333
Total:						
All occupations.....	19,533	19,770,902	17,859	18,108,891	14,779	16,242,803
Farmers as given.....	5,185	6,229,619	4,527	4,763,856	4,388	4,712,507
*Occupations not given..	7,857	5,099,462	6,498	4,651,996	5,362	3,517,391

*A number of these may be "farmers." One clerk reports that the solicitors in his district have not given the occupation of a single mortgagor; nearly every clerk reports a number of instruments as unclassified as to occupation. Certain finance corporations have adopted the practice of filing chattel mortgages instead of liens on automobiles. This is very noticeable in Essex and Middlesex County (included in unclassified).

APPENDIX

Comparative Farm Statistics for
Forty-nine Years—1882-1930

STATISTICS OF FARM CROPS
FALL WHEAT AND SPRING WHEAT

The following table gives the area, produce and market value of fall wheat and spring wheat for the years 1882 to 1930, together with the annual averages for the various periods of ten years and the average for the forty-nine years.

Years	Fall Wheat				Spring Wheat			
	Acres	Bushels	Per acre	Market Value	Acres	Bushels	Per acre	Market value
				\$				\$
1930.....	676,802	18,047,207	26.7	11,958,527	98,966	2,179,204	22.0	1,426,734
1929.....	691,662	17,820,739	25.8	22,092,590	106,610	1,929,892	18.1	2,416,054
1928.....	693,660	16,766,408	24.2	20,456,753	109,805	2,181,855	19.9	2,599,815
1927.....	751,377	19,447,536	25.9	24,254,806	119,580	2,408,055	20.1	2,939,777
1926.....	807,015	20,988,030	26.0	26,262,506	115,497	2,166,054	18.8	2,708,690
1925.....	747,101	22,764,736	30.5	30,420,639	113,338	2,440,632	21.5	3,245,576
1924.....	722,366	21,396,621	29.6	28,646,679	101,401	1,948,853	19.2	2,669,773
1923.....	717,307	16,599,067	23.1	15,976,322	111,601	1,937,937	17.4	1,865,540
1922.....	813,935	17,792,958	21.9	18,616,746	124,206	2,099,503	16.9	2,207,565
1921.....	621,420	13,667,879	22.0	15,096,980	152,904	1,907,459	12.5	2,087,264
1920.....	762,371	18,492,013	24.3	35,759,610	267,367	4,480,472	16.8	8,237,182
1919.....	619,494	15,051,703	24.3	35,698,096	361,150	5,646,544	15.6	13,603,841
1918.....	362,616	7,054,845	19.5	14,877,794	351,423	8,186,191	23.3	17,076,203
1917.....	585,946	13,384,207	22.8	28,078,738	182,957	3,679,516	20.1	7,716,693
1916.....	704,867	14,942,050	21.2	24,099,591	144,305	2,213,961	15.3	3,591,681
1915.....	811,185	24,737,011	30.5	24,023,286	162,142	3,439,949	21.2	3,392,996
1914.....	685,692	14,333,548	20.9	15,641,232	118,607	2,169,425	18.3	2,340,520
1913.....	646,533	15,945,717	24.7	13,550,459	116,581	2,068,951	17.7	1,818,652
1912.....	759,888	15,039,885	19.8	13,795,968	123,080	2,302,339	18.7	2,072,266
1911.....	837,492	17,926,586	21.4	15,519,411	133,711	2,295,534	17.2	2,081,580
1910.....	743,473	19,837,172	26.7	17,172,678	129,319	2,489,833	19.3	2,229,999
1909.....	663,375	15,967,653	24.1	16,335,950	135,161	2,223,567	16.5	2,237,189
1908.....	679,642	16,430,476	24.2	14,649,061	142,124	2,197,716	15.5	1,996,230
1907.....	676,164	15,545,491	23.0	14,410,670	144,514	2,473,651	17.1	2,137,234
1906.....	787,287	18,841,774	23.9	13,321,134	171,745	3,267,000	19.0	2,250,963
1905.....	796,213	17,933,961	22.5	13,719,480	190,116	3,582,627	18.8	2,683,387
1904.....	605,458	9,160,623	15.1	9,041,535	225,027	3,471,103	15.4	3,269,779
1903.....	665,028	17,242,763	25.9	12,949,315	248,518	4,650,707	18.7	3,460,126
1902.....	748,592	20,233,669	27.0	14,305,204	303,115	6,048,024	20.0	4,209,425
1901.....	911,587	15,943,229	17.5	10,538,474	358,048	5,498,751	15.4	3,673,166
1900.....	1,068,640	23,369,737	21.9	15,517,505	376,905	6,940,333	18.4	4,684,725
1899.....	1,049,691	14,439,827	13.8	9,631,365	398,726	7,041,317	17.7	4,682,476
1898.....	1,048,182	25,158,713	24.0	17,460,147	389,205	6,873,785	17.7	4,756,659
1897.....	950,222	23,988,051	25.2	18,758,656	323,305	4,868,101	15.1	3,826,327
1896.....	876,955	15,078,441	17.2	10,705,693	255,361	3,519,322	13.8	2,484,641
1895.....	743,199	14,155,282	19.0	9,809,610	223,957	3,472,543	15.5	2,423,835
1894.....	778,992	16,512,106	21.2	9,081,658	230,016	3,367,854	14.6	1,869,159
1893.....	913,954	17,545,248	19.2	10,509,604	356,721	4,186,063	11.7	2,486,521
1892.....	966,522	20,492,497	21.2	14,488,195	651,302	8,290,395	12.7	5,620,888
1891.....	849,956	21,872,488	25.7	20,800,736	510,634	10,711,538	21.0	9,951,019
1890.....	720,101	14,267,383	19.8	13,439,875	601,753	7,683,905	12.8	7,015,405
1889.....	822,115	13,001,865	15.8	11,493,648	398,610	5,697,707	14.3	5,019,680
1888.....	826,537	13,830,787	16.7	14,162,726	367,850	6,453,559	17.5	6,408,384
1887.....	897,743	14,440,611	16.1	11,321,439	484,821	5,633,117	11.6	4,393,831
1886.....	886,402	18,071,142	20.4	13,300,361	577,465	9,518,553	16.5	6,900,951
1885.....	875,136	21,478,281	24.5	17,504,799	799,463	9,129,881	11.4	7,358,684
1884.....	864,740	20,717,631	24.0	16,677,693	721,647	14,609,661	20.2	11,892,264
1883.....	1,097,210	11,656,957	10.6	12,239,805	586,410	9,726,063	16.6	10,406,887
1882.....	1,188,520	31,255,202	26.3	31,567,754	586,817	9,665,999	16.5	10,245,959
Annual Averages:								
1922-1930.....	735,692	19,069,256	25.9	22,076,174	111,223	2,143,554	19.3	2,453,280
1912-1921.....	656,001	15,264,886	23.3	22,062,175	198,052	3,609,481	18.2	6,193,730
1902-1911.....	720,272	16,912,017	23.5	14,142,444	182,335	3,269,976	17.9	2,655,591
1892-1901.....	930,794	18,668,313	20.1	12,650,091	356,355	5,405,846	15.2	6,650,840
1882-1891.....	902,846	18,059,235	20.0	16,250,884	563,547	8,882,998	15.8	7,959,306
1882-1930.....	790,212	17,564,649	22.2	17,341,663	285,794	4,713,776	16.5	4,626,004

STATISTICS OF FARM CROPS

OATS AND BARLEY

The following table gives the area, produce and market value of Oats and Barley for the years 1882 to 1930, together with the annual averages for the various periods of ten years and the average for the forty-nine years.

Years	Oats				Barley			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
1930.....	2,468,913	97,481,866	39.5	28,983,780	609,879	20,910,731	34.3	7,496,760
1929.....	2,335,310	73,640,478	31.5	45,918,227	622,063	18,032,191	29.0	13,799,386
1928.....	2,659,980	93,461,068	35.1	51,912,665	615,433	19,944,133	32.4	14,790,285
1927.....	2,689,295	101,913,746	37.9	58,438,236	514,802	17,238,125	33.5	13,382,864
1926.....	2,831,755	95,722,130	33.8	49,615,846	449,095	14,447,174	32.2	9,823,171
1925.....	2,837,390	118,100,471	41.6	53,404,626	436,383	14,917,247	34.2	10,160,463
1924.....	2,891,990	114,249,129	39.5	61,899,999	439,177	14,570,403	33.2	11,970,808
1923.....	2,967,417	103,485,442	34.9	46,937,124	452,490	13,523,349	29.9	8,487,609
1922.....	3,034,090	116,033,569	38.2	50,450,114	433,922	13,971,811	32.2	8,561,782
1921.....	3,094,958	72,575,191	23.4	36,555,194	462,176	10,149,353	22.0	6,665,865
1920.....	2,880,053	129,171,312	44.9	75,159,913	484,328	16,660,350	34.4	15,631,613
1919.....	2,674,341	78,388,018	29.3	76,572,899	569,183	13,133,757	23.1	19,146,902
1918.....	2,924,468	131,752,601	45.1	98,798,745	660,404	24,247,673	36.7	25,112,912
1917.....	2,763,355	111,232,817	40.3	86,640,057	551,298	18,387,741	33.4	23,118,166
1916.....	2,689,762	71,297,528	26.5	47,066,428	527,886	12,388,969	23.5	12,621,940
1915.....	2,871,755	120,217,952	41.9	47,452,121	552,318	19,893,129	36.0	11,130,811
1914.....	2,776,883	103,564,322	37.3	51,232,043	579,473	18,096,754	31.2	11,640,790
1913.....	2,699,459	98,426,902	36.5	36,342,489	623,658	18,255,958	29.3	10,136,759
1912.....	2,601,735	98,444,807	37.8	38,005,016	647,382	19,232,275	29.7	11,296,962
1911.....	2,699,230	84,829,232	31.4	37,494,695	616,977	16,248,129	26.3	12,000,154
1910.....	2,757,933	102,084,924	37.0	35,698,964	626,144	19,103,107	30.5	9,930,410
1909.....	2,695,585	90,235,579	33.5	35,612,676	695,262	18,776,777	27.0	10,286,328
1908.....	2,774,259	96,626,419	34.8	38,987,985	734,029	20,888,569	28.5	10,943,788
1907.....	2,932,509	83,524,301	28.5	40,759,859	766,891	21,718,332	28.3	12,900,689
1906.....	2,716,711	108,341,455	39.9	36,836,095	756,163	25,253,011	33.4	11,363,855
1905.....	2,668,416	105,563,572	39.6	35,469,360	772,633	24,265,394	31.4	10,409,854
1904.....	2,654,936	102,173,443	38.5	33,002,022	772,434	24,567,825	31.8	10,736,140
1903.....	2,638,665	109,874,053	41.6	32,193,097	709,839	24,378,817	34.3	10,263,482
1902.....	2,500,758	106,431,439	42.6	37,038,141	661,622	21,890,602	33.1	9,872,661
1901.....	2,408,264	78,334,490	32.5	28,357,085	637,201	16,761,076	26.3	7,542,484
1900.....	2,398,834	89,693,327	37.4	23,768,732	577,810	16,909,751	29.3	6,577,893
1899.....	2,363,778	89,897,724	38.0	24,901,670	490,374	14,830,891	30.2	5,858,202
1898.....	2,376,360	86,858,293	36.6	22,409,440	438,784	12,663,668	28.9	4,812,194
1897.....	2,432,491	86,318,128	35.5	19,507,897	451,515	12,021,779	26.6	3,245,880
1896.....	2,425,107	82,979,992	34.2	16,595,998	462,792	12,669,744	27.4	4,003,639
1895.....	2,373,309	84,697,566	35.7	24,646,992	478,046	12,090,507	25.3	4,884,565
1894.....	2,342,766	70,172,516	30.0	21,613,135	486,261	10,980,404	22.6	4,447,064
1893.....	1,936,644	58,584,529	30.3	19,450,064	467,315	9,806,088	21.0	3,932,241
1892.....	1,861,469	64,758,053	34.8	19,945,480	499,225	12,274,318	24.6	5,069,293
1891.....	1,840,636	75,009,542	40.8	27,378,483	553,166	16,141,904	29.2	7,925,675
1890.....	1,882,366	52,768,207	28.0	21,687,734	701,326	15,600,169	22.2	7,831,285
1889.....	1,923,444	64,346,301	33.5	19,625,622	875,282	23,386,388	26.7	10,290,011
1888.....	1,849,868	65,466,911	35.4	26,514,099	895,432	23,366,569	26.1	14,043,308
1887.....	1,682,463	49,848,101	29.6	17,247,443	767,346	17,134,830	22.3	9,715,448
1886.....	1,621,901	58,665,608	36.2	18,772,995	735,778	19,512,278	26.5	10,009,799
1885.....	1,543,745	55,229,742	35.8	17,397,369	597,873	16,533,587	27.7	9,126,540
1884.....	1,481,828	57,696,304	38.9	19,097,476	700,472	19,119,041	27.3	10,247,806
1883.....	1,418,309	54,573,609	38.5	20,737,971	757,156	18,414,337	24.3	10,496,172
1882.....	1,387,487	50,501,701	36.4	21,715,731	848,617	24,284,407	28.6	15,784,865
Annual Averages:								
1922-1930.....	2,746,238	101,565,322	37.0	49,728,957	508,138	16,395,018	32.3	10,941,459
1912-1921.....	2,797,677	101,507,145	36.3	59,382,491	565,811	17,044,596	30.1	14,650,272
1902-1911.....	2,703,900	98,968,442	36.6	36,309,289	711,199	21,709,056	30.5	10,870,736
1892-1901.....	2,291,902	72,299,462	34.6	22,119,649	498,932	13,100,823	26.3	5,037,346
1882-1891.....	1,663,205	58,410,603	35.1	21,017,492	743,245	19,349,351	26.0	10,547,091
1882-1930.....	2,434,347	87,658,049	36.0	37,466,323	607,451	17,542,723	28.9	10,398,522

STATISTICS OF FARM CROPS

PEAS AND BEANS

The following table gives the area, produce and market value of Peas and Beans for the years 1882 to 1930, together with the annual averages for the various periods of ten years and the average for the forty-nine years.

Years	Peas				Beans			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
1930	80,093	1,581,468	19.7	1,657,822	67,540	905,498	13.4	1,306,852
1929	79,523	1,235,658	15.5	2,013,945	63,732	1,113,310	17.5	3,373,233
1928	109,887	1,892,588	17.2	2,892,490	50,953	873,427	17.1	3,343,825
1927	105,662	2,035,687	19.3	3,049,924	47,156	725,011	15.4	1,700,257
1926	97,865	1,880,301	19.2	2,831,588	51,721	819,166	15.8	1,913,221
1925	133,434	2,607,287	19.5	3,532,258	61,080	1,154,317	18.9	2,431,446
1924	130,989	2,456,164	18.8	3,712,042	52,047	856,860	16.5	1,958,602
1923	117,409	2,030,850	17.3	2,940,685	41,127	633,713	15.4	1,538,701
1922	105,544	2,076,965	19.7	2,914,720	39,999	622,781	15.6	1,579,549
1921	105,964	1,441,095	13.6	2,205,423	26,509	427,531	16.1	1,005,057
1920	109,187	2,209,523	20.2	4,270,938	22,744	380,499	16.7	1,097,137
1919	127,253	1,816,517	14.3	4,794,268	22,920	288,480	12.6	1,154,081
1918	113,862	2,381,937	20.9	5,184,332	100,082	1,387,834	13.9	6,230,007
1917	90,322	1,512,567	16.7	4,855,888	110,680	1,078,510	9.7	7,446,626
1916	95,542	1,243,979	13.4	2,618,754	53,999	583,105	10.8	3,183,886
1915	126,943	2,043,049	16.1	3,302,641	62,863	882,819	14.0	2,745,105
1914	177,856	2,609,585	14.7	3,565,974	51,149	835,895	16.3	1,787,432
1913	177,303	3,108,263	17.5	3,127,551	66,639	1,021,243	15.3	1,738,900
1912	221,524	3,667,005	16.6	4,047,354	69,703	1,182,132	17.0	2,280,173
1911	304,491	4,462,182	14.7	4,380,883	51,508	898,212	17.4	1,711,089
1910	403,414	6,016,003	14.9	4,856,986	49,778	892,927	17.9	1,386,798
1909	381,609	7,613,656	20.0	6,437,685	45,029	826,344	18.4	1,334,325
1908	396,642	7,401,336	18.7	6,121,449	46,477	783,757	16.9	1,160,103
1907	340,977	7,365,036	21.6	5,744,728	47,562	790,269	16.6	1,201,209
1906	410,356	7,388,987	18.0	5,216,625	51,272	950,312	18.5	1,320,934
1905	374,518	7,100,021	19.0	4,636,314	50,543	846,443	16.7	1,117,305
1904	339,260	6,629,866	19.5	4,176,816	50,892	912,849	17.9	1,113,676
1903	407,133	8,924,650	21.9	5,738,550	53,039	978,246	18.4	1,379,327
1902	532,639	7,664,679	14.4	5,441,922	53,964	670,633	12.4	905,355
1901	602,724	10,089,173	16.7	6,588,230	53,688	824,122	15.4	1,030,153
1900	661,592	14,058,198	21.2	8,027,231	44,053	820,373	18.6	817,912
1899	743,139	15,140,790	20.4	8,675,673	40,485	651,009	16.1	703,090
1898	865,951	13,521,263	15.6	7,058,099	45,220	759,657	16.8	531,760
1897	896,735	13,867,093	15.5	5,838,046	50,591	981,340	19.4	639,834
1896	829,601	17,493,148	21.1	7,696,985	68,369	1,197,535	17.5	819,114
1895	799,963	15,568,103	19.5	8,531,320	72,747	1,494,179	20.5	1,414,988
1894	785,007	14,022,888	17.9	7,516,268	59,281	827,514	14.0	913,575
1893	738,741	14,168,955	19.2	7,651,236	48,858	664,310	13.6	783,886
1892	774,732	14,494,430	18.7	8,551,714	33,249	535,931	16.1	529,500
1891	752,453	18,323,459	24.4	11,690,367	41,451	769,600	18.6	816,546
1890	781,206	15,389,313	19.7	9,279,756	39,456	761,341	19.3	978,323
1889	708,068	13,509,237	19.1	7,524,645	21,830	371,893	17.0	471,188
1888	696,653	14,269,863	20.5	9,332,490	22,700	534,526	23.5	607,756
1887	726,756	12,173,332	16.8	6,804,892	20,275	275,975	13.6	270,180
1886	703,936	16,043,734	22.8	8,439,004	21,072	482,072	22.9	403,494
1885	646,081	14,006,192	21.7	8,123,591	24,651	496,564	20.1	397,251
1884	570,928	13,691,607	24.0	8,817,395	24,878	592,044	23.8	698,612
1883	542,771	10,673,723	19.7	7,578,343	25,907	.....	.....	.....
1882	560,770	11,006,115	19.6	8,144,525	19,787	409,910	20.7	807,523
Annual Averages:								
1922-1930	106,712	1,977,441	18.5	2,838,386	52,817	856,009	16.2	2,127,299
1912-1921	134,576	2,203,352	16.4	3,797,312	58,729	806,805	13.7	2,866,760
1902-1911	389,104	7,056,642	18.1	5,275,196	50,006	854,999	17.1	1,263,012
1892-1901	769,819	14,242,404	18.5	7,613,480	51,654	875,597	17.0	818,381
1882-1891	668,962	13,908,658	20.8	8,573,501	26,201	469,393	17.9	545,087
1882-1930	420,102	7,998,113	19.0	5,676,334	47,781	770,858	16.1	1,511,798

STATISTICS OF FARM CROPS

RYE AND BUCKWHEAT

The following table gives the area, produce and market value of Rye and Buckwheat for the years 1882 to 1930, together with the annual averages for the various periods of ten years and the average for the forty-nine years.

Years	Rye				Buckwheat			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
1930.....	52,881	937,302	17.7	454,565	275,317	5,675,616	20.6	2,935,428
1929.....	52,023	873,239	16.8	847,938	294,388	5,562,013	18.9	4,627,121
1928.....	66,307	1,131,172	17.1	1,076,724	271,243	5,692,376	21.0	4,638,578
1927.....	72,323	1,289,058	17.8	1,228,421	249,210	5,892,510	23.6	4,593,204
1926.....	86,355	1,501,390	17.4	1,309,840	234,870	4,975,192	21.2	3,830,695
1925.....	98,652	1,784,625	18.1	1,553,529	257,932	5,579,109	21.6	4,086,236
1924.....	126,641	2,299,545	18.2	2,471,369	240,552	6,449,496	26.8	5,593,465
1923.....	123,354	2,011,325	16.3	1,481,691	230,276	5,012,010	21.8	3,670,511
1922.....	152,709	2,500,354	16.4	1,959,112	197,812	4,266,215	21.6	3,137,448
1921.....	122,868	1,775,599	14.5	1,467,086	147,944	3,354,201	22.7	2,482,999
1920.....	133,090	2,349,880	17.7	3,336,240	143,204	3,190,478	22.3	3,367,161
1919.....	140,072	2,219,042	15.8	3,531,031	178,569	4,071,959	22.8	5,727,413
1918.....	112,726	1,812,909	16.1	2,750,561	223,662	4,597,990	20.6	6,207,986
1917.....	133,077	2,222,325	16.7	3,614,591	153,457	2,992,391	19.5	4,278,256
1916.....	148,738	2,354,410	15.8	2,797,290	229,205	3,261,888	14.2	3,555,699
1915.....	173,736	3,210,512	18.5	2,532,051	193,497	4,273,366	22.1	3,057,398
1914.....	138,913	2,315,532	16.7	1,965,522	177,227	4,251,421	24.0	3,041,564
1913.....	118,429	1,979,775	16.7	1,310,306	228,279	4,012,418	17.6	2,549,398
1912.....	105,949	1,839,675	17.4	1,287,208	205,893	5,414,796	26.3	2,950,001
1911.....	98,652	1,562,971	15.8	1,326,510	189,039	3,852,231	20.4	2,324,992
1910.....	95,397	1,620,333	17.0	1,024,787	194,913	4,693,881	24.1	2,346,387
1909.....	94,661	1,573,921	16.6	1,060,566	176,630	4,280,790	24.2	2,284,440
1908.....	87,908	1,453,616	16.5	1,012,953	140,605	3,323,668	23.6	1,799,890
1907.....	67,158	1,039,021	15.5	721,081	113,039	2,546,468	22.5	1,461,673
1906.....	79,870	1,327,582	16.6	808,497	106,444	1,792,903	16.8	887,487
1905.....	101,292	1,714,951	16.9	974,092	101,591	2,199,652	21.7	1,099,826
1904.....	130,702	2,001,826	15.3	1,153,052	100,608	2,066,234	20.5	1,004,190
1903.....	179,277	2,970,768	16.6	1,443,793	95,487	2,049,169	21.5	907,782
1902.....	189,318	3,509,332	18.5	1,772,213	93,324	1,911,683	20.5	917,608
1901.....	158,236	2,545,268	16.1	1,254,817	88,266	1,757,071	19.9	850,422
1900.....	142,213	2,357,635	16.6	1,143,453	102,570	1,874,261	18.3	819,052
1899.....	137,824	2,284,846	16.6	1,142,423	132,082	2,203,299	16.7	1,002,501
1898.....	165,089	2,673,234	16.2	1,162,857	150,394	2,373,645	15.8	906,732
1897.....	187,785	3,382,005	18.0	1,275,016	151,669	3,464,186	22.8	1,039,256
1896.....	148,680	2,230,873	15.0	816,500	145,606	2,603,669	17.9	794,119
1895.....	120,350	1,900,117	15.8	866,453	135,262	2,791,749	20.6	1,027,364
1894.....	90,144	1,386,606	15.4	612,880	145,268	2,534,335	17.4	993,459
1893.....	68,486	994,771	14.5	472,516	133,828	2,380,456	17.8	995,031
1892.....	73,073	1,132,504	15.5	631,937	125,104	2,521,214	20.2	1,063,952
1891.....	67,865	1,134,630	16.7	820,337	107,879	2,608,142	24.2	1,150,191
1890.....	103,061	1,563,345	15.2	823,883	90,111	2,053,720	22.8	883,100
1889.....	90,106	1,431,679	15.9	728,725	56,398	1,272,578	22.6	502,668
1888.....	84,087	1,295,302	15.4	779,772	57,528	1,222,283	21.2	602,585
1887.....	68,362	894,887	13.1	442,969	64,143	1,025,353	16.0	401,409
1886.....	67,779	1,106,462	16.3	577,573	70,792	1,678,708	23.7	565,725
1885.....	78,293	1,271,506	16.2	701,871	61,776	1,530,675	24.8	600,024
1884.....	103,416	1,648,259	15.9	984,010	65,836	1,484,570	22.5	593,828
1883.....	188,111	3,012,240	16.0	2,018,201	67,802	.....	.....	.....
1882.....	185,276	3,473,799	18.7	2,223,231	50,035	1,262,973	25.2	505,189
Annual Averages:								
1922-1930.....	92,361	1,592,004	17.2	1,375,910	250,178	5,456,060	21.8	4,123,632
1912-1921.....	132,760	2,207,966	16.6	2,459,189	188,094	3,942,591	21.0	3,721,788
1902-1911.....	112,424	1,877,432	16.7	1,129,754	131,168	2,871,668	21.9	1,503,428
1892-1901.....	129,188	2,088,786	16.2	937,885	131,005	2,450,389	18.7	949,189
1882-1891.....	103,636	1,683,211	16.2	1,010,057	69,230	1,413,900	20.4	586,472
1882-1930.....	114,517	1,895,958	16.6	1,382,695	151,971	3,181,429	20.9	2,137,172

STATISTICS OF FARM CROPS

FLAX AND MIXED GRAINS

The following table gives the area, produce and market value of Flax and Mixed Grains for the years 1907 to 1930, together with the annual averages for the various periods and for the whole term of years.

Years	Flax				Mixed Grains			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
1930.....	5,235	51,257	9.8	78,809	958,086	37,512,279	39.2	13,857,314
1929.....	5,492	46,927	8.5	109,034	892,897	29,903,638	33.5	21,890,640
1928.....	7,964	67,441	8.5	141,111	905,693	33,691,418	37.2	23,420,648
1927.....	7,080	68,173	9.6	121,004	799,333	31,918,944	39.9	22,882,169
1926.....	7,712	75,736	9.8	148,149	770,981	28,577,629	37.1	18,697,998
1925.....	9,789	123,134	12.6	262,386	681,624	28,246,057	41.4	16,559,729
1924.....	6,619	77,801	11.8	162,590	645,622	26,403,332	40.9	18,231,508
1923.....	6,766	68,684	10.2	140,376	648,934	23,880,889	36.8	14,290,315
1922.....	4,556	48,662	10.7	106,046	552,399	21,270,479	38.5	11,882,085
1921.....	7,534	66,748	8.9	130,995	618,289	16,188,510	26.2	10,579,352
1920.....	21,053	224,893	10.7	515,983	581,689	25,712,447	44.2	20,556,442
1919.....	13,717	129,461	9.4	670,608	628,761	19,735,287	31.4	26,403,773
1918.....	15,925	196,221	12.3	*1,224,783	619,389	27,462,374	44.3	28,253,556
1917.....	7,372	.....	.....	.....	515,593	20,102,421	39.0	20,876,501
1916.....	5,880	.....	.....	.....	485,986	13,297,354	27.4	12,485,065
1915.....	5,334	.....	.....	.....	475,738	19,461,609	40.9	10,602,271
1914.....	6,025	.....	.....	.....	456,631	16,854,350	36.9	10,074,687
1913.....	7,431	.....	.....	.....	414,517	15,113,480	36.5	7,953,111
1912.....	9,125	.....	.....	.....	448,402	16,382,161	36.5	8,674,724
1911.....	12,128	.....	.....	.....	486,112	14,845,595	30.5	9,104,141
1910.....	12,021	.....	.....	.....	497,936	18,261,803	36.7	9,187,822
1909.....	11,253	.....	.....	.....	474,530	16,199,434	34.1	8,825,196
1908.....	8,562	.....	.....	.....	456,049	15,354,350	33.7	8,444,893
1907.....	9,296	.....	.....	.....	443,100	14,202,511	32.1	7,811,381
Annual Averages:								
1922-1930.....	6,801	69,757	10.3	141,056	761,730	29,056,074	38.1	17,968,045
1912-1921.....	9,940	.....	.....	.....	524,500	19,031,019	36.3	15,645,948
1907-1911.....	10,652	.....	.....	.....	471,545	15,772,739	33.4	8,674,687
1907-1930.....	8,911	.....	.....	.....	602,429	22,107,440	36.7	15,064,388

*Including seed of fibre variety commandeered and shipped to Ireland to the value of \$930,769.

No estimates of yields of flax were made previous to 1918. The average for the thirteen years, 1918-1930, was 9,188 acres, yielding 95,780 bushels, valued at \$293,221.

TOBACCO

The following table gives the estimated area and production of Tobacco for the years 1922 to 1930, together with the annual average for this period. Like all special crops, these figures are useful only for comparative purposes.

Years	Acres	Pounds	Per acre
1930.....	27,376	27,546,447	1,006
1929.....	23,073	20,693,776	897
1928.....	33,977	35,585,848	1,047
1927.....	34,555	39,520,986	1,144
1926.....	19,992	25,557,724	1,278
1925.....	12,719	15,315,935	1,204
1924.....	12,399	14,525,471	1,172
1923.....	8,630	10,797,228	1,251
1922.....	9,189	10,031,870	1,202
Annual Averages:			
1922-1930.....	20,212	22,286,143	1,103

STATISTICS OF FARM CROPS

HUSKING CORN AND SILO CORN

The following table gives the area, produce and market value of *Corn (for husking and for silo) for the years 1892 to 1930, together with the annual averages for the various periods of ten years and the average for the thirty-nine years.

Years	Corn for Husking				Corn for Silo			
	Acres	Bushels (in the ear)	Per acre	Market value \$	Acres	Tons (green)	Per acre	Market value \$
1930.....	130,094	7,723,347	59.4	3,569,682	311,817	2,619,049	8.40	10,476,196
1929.....	120,000	6,674,942	55.6	4,460,367	287,566	2,221,467	7.73	9,574,523
1928.....	110,192	6,921,850	62.8	4,714,511	299,307	2,685,727	8.97	11,199,482
1927.....	102,626	5,449,213	53.1	3,613,287	326,964	2,490,660	7.62	10,012,453
1926.....	179,325	10,329,439	57.6	5,529,069	367,772	3,497,071	9.51	15,736,820
1925.....	207,767	14,604,467	70.3	8,131,617	373,133	3,614,233	9.69	15,360,490
1924.....	263,615	16,711,996	63.4	11,737,059	403,060	3,977,017	9.87	17,896,577
1923.....	285,335	19,292,244	67.6	9,710,461	409,628	3,651,102	8.91	14,604,408
1922.....	265,018	18,459,363	69.7	8,609,503	438,819	4,413,191	10.06	17,652,764
1921.....	250,684	20,313,661	81.0	8,012,455	438,343	5,015,082	11.44	25,075,410
1920.....	243,909	19,372,277	79.4	12,867,119	449,176	4,668,054	10.39	23,340,270
1919.....	221,004	15,152,475	68.6	16,400,838	399,549	4,013,946	10.05	20,069,730
1918.....	195,310	13,015,072	66.6	13,650,415	380,946	3,944,313	10.35	17,749,409
1917.....	258,935	11,513,512	44.5	14,278,407	511,329	4,587,176	8.97	18,348,704
1916.....	258,332	12,717,072	49.2	9,446,060	439,411	3,276,185	7.46	10,467,610
1915.....	309,773	21,760,496	70.2	9,885,292	443,736	4,874,377	10.98	12,185,943
1914.....	290,817	23,232,360	80.0	10,622,455	418,105	4,751,223	11.36	11,878,058
1913.....	299,871	22,214,014	74.1	9,545,538	388,138	4,059,345	10.46	10,148,363
1912.....	301,251	21,969,468	72.9	8,162,565	377,982	3,969,597	10.50	9,923,993
1911.....	308,350	21,913,290	71.7	9,693,994	335,935	3,764,227	11.21	9,410,568
1910.....	320,519	24,900,386	77.7	9,301,245	326,627	3,788,364	11.60	7,576,728
1909.....	322,789	22,619,690	70.1	9,705,826	288,346	3,374,655	11.70	6,749,310
1908.....	299,690	23,601,122	78.8	9,440,336	233,753	2,729,265	11.68	5,458,530
1907.....	338,573	21,899,466	64.7	6,219,448	200,354	2,029,547	10.13	4,059,094
1906.....	289,456	23,988,682	82.9	9,019,744	180,796	2,149,413	11.89	4,298,826
1905.....	295,005	20,922,919	70.9	7,720,557	184,784	2,284,812	12.36	4,569,624
1904.....	329,882	20,241,914	61.4	7,570,476	193,115	2,023,340	10.48	4,046,680
1903.....	378,924	29,287,888	77.3	10,807,230	209,727	2,564,400	12.23	5,128,800
1902.....	371,959	20,512,194	55.1	8,327,951	209,859	2,611,334	12.44	5,222,668
1901.....	323,923	24,838,105	76.7	9,438,480	197,932	2,359,514	11.92	4,719,028
1900.....	330,772	27,093,561	81.9	8,588,659	179,798	2,147,532	11.94	4,295,064
1899.....	333,590	21,673,234	65.0	4,291,300	171,935	1,697,755	9.87	3,395,510
1898.....	330,748	23,442,593	70.9	4,711,961	189,948	2,128,073	11.20	4,256,146
1897.....	335,030	24,663,998	73.6	4,858,808	209,005	2,669,822	12.77	5,339,644
1896.....	317,667	24,071,364	75.8	4,717,987	178,962	1,948,780	10.89	3,897,560
1895.....	302,929	24,819,899	81.9	5,609,297	149,899	1,775,654	11.85	3,551,308
1894.....	267,348	16,275,352	60.9	4,247,867	111,361	1,049,765	9.43	2,099,530
1893.....	217,294	14,072,961	64.8	3,729,335	95,865	1,049,524	10.95	2,099,048
1892.....	181,463	11,229,498	61.9	2,953,358	91,403	948,907	10.38	1,897,814
Annual Averages:								
1922-1930.....	184,886	11,796,318	63.8	6,675,062	357,563	3,241,057	9.06	13,612,635
1912-1921.....	262,989	18,126,041	68.9	11,287,114	424,672	4,315,930	10.16	15,936,749
1902-1911.....	325,515	22,988,755	70.6	8,780,681	236,330	2,731,936	11.56	5,652,083
1892-1901.....	294,076	21,218,057	72.2	5,314,705	157,611	1,777,533	11.28	3,555,065
1892-1930.....	268,968	18,705,010	69.5	8,048,732	292,415	3,010,859	10.30	9,588,530

*The combined average area for corn for the ten years, 1882-1891, was 195,878 acres, the average value of the produce for the same period being \$3,704,614. The combined average for corn for the forty-nine years, 1882-1930, was 486,790 acres, the average value of the produce for the same period being \$14,793,865.

STATISTICS OF FARM CROPS

POTATOES AND TURNIPS

The following table gives the area, produce and market value of Potatoes and Turnips for the years 1882 to 1930, together with the annual averages for the various periods of ten years and the average for the forty-nine years.

Years	Potatoes				Turnips			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
1930.....	159,192	18,275,055	114.8	10,906,175	74,133	25,386,998	342	5,077,400
1929.....	148,435	14,140,088	95.3	15,271,732	72,502	22,848,692	315	4,569,738
1928.....	181,241	19,791,851	109.2	11,052,928	71,791	34,323,412	478	6,864,682
1927.....	159,871	15,495,307	96.9	13,662,224	68,479	29,452,281	430	5,448,672
1926.....	153,468	16,496,290	107.5	18,627,771	71,500	23,204,013	325	4,640,803
1925.....	163,790	15,714,786	95.9	21,513,125	73,318	28,015,466	382	5,042,784
1924.....	169,145	24,966,530	147.6	13,355,441	70,110	32,547,607	464	5,533,093
1923.....	164,682	19,131,980	116.2	14,306,447	65,193	27,099,910	416	5,419,982
1922.....	172,858	20,349,541	117.7	10,385,525	67,635	29,923,528	442	5,984,706
1921.....	164,096	15,400,142	93.8	13,589,599	70,715	24,265,547	343	6,673,025
1920.....	157,509	23,961,709	152.1	23,776,530	80,588	40,141,406	498	11,038,887
1919.....	157,286	15,144,921	96.3	25,026,467	85,312	28,740,526	337	7,903,645
1918.....	166,203	19,375,947	116.6	19,238,431	85,449	42,190,382	494	10,547,596
1917.....	146,481	18,291,735	124.9	22,530,291	93,034	39,989,556	430	7,997,911
1916.....	139,523	7,408,429	53.1	9,684,215	91,670	24,067,699	263	3,369,478
1915.....	173,945	13,267,023	76.3	10,805,026	97,451	46,598,851	478	4,659,885
1914.....	167,591	26,717,587	159.4	11,747,332	95,371	46,336,708	486	4,633,671
1913.....	159,661	19,024,115	119.2	12,114,656	97,572	41,889,894	429	4,188,989
1912.....	158,888	21,346,394	134.3	13,604,052	101,529	49,561,566	488	4,956,157
1911.....	162,457	13,918,698	85.7	11,722,539	100,593	39,664,275	394	3,966,428
1910.....	168,454	21,927,804	130.2	10,798,597	108,360	49,425,472	456	4,942,547
1909.....	169,695	24,645,283	145.2	8,989,452	113,400	50,738,940	447	5,073,894
1908.....	166,974	18,517,642	110.9	8,874,201	120,920	41,210,189	341	4,121,019
1907.....	177,186	20,057,675	113.2	11,693,625	123,011	48,205,605	392	4,820,561
1906.....	136,064	15,020,299	110.4	8,080,921	132,512	57,060,151	431	5,706,015
1905.....	132,530	14,366,049	108.4	6,608,383	135,348	57,654,086	426	5,765,409
1904.....	133,819	15,479,122	115.7	7,847,915	133,207	64,861,703	487	6,486,170
1903.....	139,011	16,676,447	120.0	7,354,313	134,469	69,316,341	515	6,931,634
1902.....	144,733	12,942,502	89.4	7,312,514	136,725	71,740,204	525	7,174,020
1901.....	154,155	18,116,637	117.5	7,717,687	145,909	68,287,467	468	6,828,747
1900.....	163,754	21,476,439	131.2	5,605,351	156,583	59,330,395	379	5,933,040
1899.....	168,148	19,933,366	118.5	6,538,144	153,440	58,078,390	379	5,807,839
1898.....	169,946	14,358,625	84.5	6,332,154	151,601	64,727,882	427	6,472,788
1897.....	169,333	16,100,797	95.1	6,424,218	149,336	68,297,148	457	6,829,715
1896.....	178,965	21,305,477	119.0	5,582,035	148,234	69,814,841	471	6,981,484
1895.....	184,647	29,390,884	159.2	5,936,959	151,806	63,496,702	418	6,349,670
1894.....	167,253	17,163,130	102.6	6,075,748	147,657	61,694,487	418	6,169,449
1893.....	142,601	12,911,212	90.5	5,099,929	136,604	56,975,355	417	5,697,535
1892.....	145,703	12,289,817	84.3	6,194,068	129,627	63,541,641	490	6,354,164
1891.....	160,218	24,055,886	150.1	7,842,219	126,075	68,853,452	546	6,885,345
1890.....	158,094	17,561,117	111.1	7,779,575	111,055	47,040,563	424	4,704,056
1889.....	145,812	14,355,529	98.5	6,531,766	111,103	37,021,260	333	3,702,126
1888.....	153,915	22,273,607	144.7	7,060,733	113,188	47,640,237	421	4,764,024
1887.....	140,283	10,678,000	76.1	6,705,784	105,322	31,413,456	298	3,141,346
1886.....	140,143	16,012,358	114.3	7,189,548	98,931	47,061,053	476	4,706,105
1885.....	159,741	21,091,144	132.0	8,668,460	102,303	41,137,735	402	4,113,774
1884.....	168,757	27,546,261	163.2	11,018,504	104,190	44,406,363	426	4,440,636
1883.....	166,823	16,400,782	98.3	10,168,485	98,429	29,879,354	304	2,987,935
1882.....	160,700	18,432,145	114.7	11,796,573	78,823	35,359,331	448	3,535,933
Annual Averages:								
1922-1930.....	163,631	18,262,381	111.6	14,342,374	70,518	28,089,101	398	5,397,984
1912-1921.....	159,117	17,993,800	113.1	16,211,660	89,869	38,378,214	427	6,596,924
1902-1911.....	153,092	17,355,152	113.4	8,928,246	123,855	54,987,697	444	5,498,770
1892-1901.....	164,451	18,304,638	111.3	6,150,629	147,080	63,424,431	431	6,342,443
1882-1891.....	155,449	18,840,683	121.2	8,476,165	104,943	42,981,280	410	4,298,128
1882-1930.....	159,056	18,149,065	114.1	10,749,967	108,002	45,928,941	425	5,631,521

STATISTICS OF FARM CROPS

MANGELS AND SUGAR BEETS

The following table gives the area, produce and market value of Mangels for the years 1882 to 1930, and of Sugar Beets for the years 1907 to 1930, together with the annual averages for the various periods of ten years and the average for the full period.

Years	Mangels				Sugar Beets			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				\$				\$
1930	29,055	10,626,135	366	2,125,227	38,220	13,614,358	356	2,333,909
1929	30,395	9,728,083	320	1,945,617	36,864	12,146,230	329	2,022,347
1928	33,567	14,738,443	439	2,947,689	45,294	15,215,990	336	2,757,898
1927	34,665	13,494,700	389	2,496,520	38,503	13,453,691	349	2,606,653
1926	34,009	13,548,484	398	2,709,697	41,594	18,831,084	453	3,766,217
1925	35,385	14,881,069	421	2,678,592	37,718	16,686,713	442	3,003,608
1924	35,958	15,616,128	434	2,654,742	36,080	13,346,456	370	2,272,570
1923	35,118	14,865,791	423	2,973,158	22,450	8,647,615	385	1,729,523
1922	35,274	16,366,353	464	3,273,271	20,725	7,616,281	367	1,523,246
1921	31,225	11,909,854	381	3,275,210	28,367	10,712,975	378	2,946,068
1920	36,450	17,174,290	471	4,722,930	36,288	16,497,067	455	4,536,693
1919	35,010	13,409,270	383	3,687,549	24,500	9,586,495	391	2,636,286
1918	40,714	18,244,453	448	4,561,113	22,894	9,398,141	411	2,349,535
1917	49,148	19,492,626	397	3,898,525	22,039	6,781,113	308	1,356,223
1916	42,793	9,756,015	228	1,365,842	22,482	6,023,938	268	843,351
1915	50,799	25,356,323	498	2,028,506	22,890	8,644,281	378	1,080,535
1914	50,663	25,439,520	502	2,035,162	18,534	7,466,819	403	933,352
1913	54,568	21,935,847	402	1,754,868	19,083	6,389,177	335	798,647
1912	60,103	27,671,114	460	2,213,689	21,054	7,819,066	371	977,383
1911	64,855	28,126,313	434	2,250,105	24,664	8,941,659	363	1,117,707
1910	68,966	34,686,137	503	2,774,891	26,879	11,238,577	418	1,348,629
1909	70,488	28,928,347	410	2,314,267	19,812	7,001,565	353	840,188
1908	67,937	29,870,966	440	2,389,677	17,453	7,004,748	401	840,570
1907	68,644	30,260,315	441	2,420,825	16,851	8,237,044	489	988,445
1906	69,352	32,863,192	474	2,629,055				
1905	69,035	33,216,930	481	2,657,354				
1904	71,344	33,595,440	471	2,687,635				
1903	80,918	41,768,239	516	3,341,459				
1902	76,553	39,140,924	511	3,131,274				
1901	61,095	29,683,324	486	2,374,666				
1900	54,543	24,728,525	453	1,978,282				
1899	53,401	20,898,387	391	1,671,871				
1898	47,923	21,957,564	458	1,756,605				
1897	41,175	18,103,387	440	1,448,271				
1896	36,101	16,849,401	467	1,347,952				
1895	34,383	15,961,502	464	1,276,920				
1894	27,670	11,532,127	417	922,570				
1893	21,519	8,582,568	399	686,605				
1892	22,026	10,350,474	470	828,038				
1891	22,961	11,779,448	513	942,356				
1890	25,953	11,594,518	447	927,561				
1889	21,211	7,223,478	341	577,878				
1888	21,459	10,020,659	467	801,653				
1887	17,924	5,695,761	318	455,661				
1886	18,170	8,787,743	484	703,019				
1885	16,435	7,660,729	466	612,858				
1884	18,341	8,655,184	472	692,415				
1883	17,219	6,252,015	363	500,161				
1882	15,792	7,711,420	488	616,913				
Annual Averages:								
1922-1930	33,714	13,762,798	408	2,644,946	34,161	13,284,269	389	2,446,219
1912-1921	45,147	19,038,931	422	2,954,339	23,813	8,931,907	375	1,845,807
1902-1911	70,809	33,245,680	470	2,659,654	*21,132	*8,484,719	*402	*1,027,108
1892-1901	39,984	17,864,726	447	1,429,178				
1882-1891	19,546	8,538,096	437	683,048				
1882-1930	42,006	18,586,521	442	2,062,586	†27,552	†10,470,878	†380	†1,900,399

*1907-11.

†1907-30.

STATISTICS OF FARM CROPS

ALFALFA AND HAY AND CLOVER

The following table gives the area, produce and market value of Alfalfa for the years 1912 to 1930, and of Hay and Clover for the years 1882 to 1930, together with the annual averages for the various periods of ten years and the average for the whole period.

Years	Alfalfa				Hay and Clover			
	Acres	Tons	Per acre	Market value	Acres	Tons	Per acre	Market value
				\$				\$
1930.....	641,686	1,409,528	2.20	16,065,846	†2,849,702	4,353,094	1.53	45,365,729
1929.....	685,880	1,596,212	2.33	19,546,701	†2,915,221	4,661,660	1.60	52,573,554
1928.....	743,230	1,730,135	2.33	20,020,248	†2,811,076	4,455,615	1.59	50,026,378
1927.....	806,397	1,865,868	2.31	21,915,225	†2,832,813	4,914,515	1.73	54,161,232
1926.....	748,473	1,850,392	2.47	25,889,781	†2,889,143	4,248,048	1.47	54,154,454
1925.....	550,645	1,397,462	2.54	19,306,047	†3,022,507	4,181,206	1.38	50,738,655
1924.....	381,258	1,067,717	2.80	12,252,536	3,545,856	5,615,238	1.58	61,283,373
1923.....	299,610	788,431	2.63	8,915,438	3,596,484	5,799,422	1.61	64,069,155
1922.....	221,326	629,135	2.84	7,439,403	3,575,662	5,568,459	1.56	66,964,036
1921.....	177,205	456,378	2.58	8,023,795	3,551,655	3,954,166	1.11	76,193,216
1920.....	162,820	399,581	2.45	10,172,434	3,533,740	4,459,094	1.26	109,036,159
1919.....	146,790	314,419	2.14	7,293,462	3,508,266	5,588,804	1.59	126,750,915
1918.....	144,010	328,971	2.28	6,579,420	3,470,036	4,596,854	1.32	83,344,591
1917.....	189,109	462,956	2.45	5,460,205	3,358,579	6,156,340	1.83	72,705,998
1916.....	177,565	460,788	2.60	4,822,622	3,294,419	6,739,259	2.05	71,503,879
1915.....	165,284	428,739	2.59	6,044,599	3,066,468	3,825,024	1.25	55,660,170
1914.....	163,685	372,759	2.28	5,195,667	3,251,799	3,469,795	1.07	50,721,713
1913.....	167,707	380,606	2.27	5,090,267	3,261,139	3,543,957	1.09	46,212,298
1912.....	189,959	460,201	2.42	5,542,772	3,177,410	4,760,512	1.50	55,906,657
1911.....					3,301,468	4,238,362	1.28	55,767,671
1910.....					3,204,021	5,492,653	1.71	54,407,105
1909.....					3,228,445	3,885,145	1.20	49,754,078
1908.....					3,253,141	4,635,287	1.42	47,696,579
1907.....					3,289,552	3,891,863	1.18	58,806,050
1906.....					3,069,917	4,684,625	1.53	42,630,087
1905.....					3,020,365	5,847,494	1.94	45,142,654
1904.....					2,926,207	5,259,189	1.80	41,915,736
1903.....					2,783,565	4,336,562	1.56	34,432,302
1902.....					2,646,202	4,955,438	1.87	40,386,820
1901.....					2,557,263	4,632,317	1.81	37,012,213
1900.....					2,526,566	3,133,045	1.24	26,568,222
1899.....					2,505,422	3,498,705	1.40	27,010,003
1898.....					2,453,503	4,399,063	1.79	27,362,172
1897.....					2,341,488	3,811,518	1.63	27,366,699
1896.....					2,426,711	2,260,240	.93	21,879,123
1895.....					2,537,674	1,849,914	.73	22,753,942
1894.....					2,576,943	3,575,200	1.39	27,028,512
1893.....					2,766,894	4,963,557	1.79	37,921,575
1892.....					2,515,367	4,384,838	1.74	35,955,672
1891.....					2,549,975	2,392,798	.94	28,498,224
1890.....					2,462,002	4,305,915	1.75	34,232,024
1889.....					2,386,223	3,728,313	1.56	37,208,564
1888.....					2,292,638	2,009,017	.88	33,570,674
1887.....					2,280,643	3,093,610	1.36	35,947,748
1886.....					2,295,151	2,994,446	1.35	29,016,182
1885.....					2,268,091	3,252,155	1.43	32,033,727
1884.....					2,193,369	3,044,912	1.39	29,109,359
1883.....					2,350,969	4,115,535	1.75	37,122,126
1882.....					1,825,890	2,090,626	1.14	24,125,824
Annual Averages								
1922-1930..	564,278	1,370,542	2.43	16,816,803	3,173,329	4,983,250	1.57	56,592,941
1912-1921..	168,413	406,540	2.41	6,422,524	3,347,351	4,709,381	1.41	74,803,560
1902-1911..					*3,072,288	4,722,662	1.54	47,093,908
1892-1901..					*2,520,783	3,650,840	1.45	29,085,813
1882-1891..					*2,290,495	3,102,733	1.35	32,086,445
1882-1930..					2,864,238	4,197,008	1.47	47,551,711

*Including Alfalfa. †Exclusive of Alsike and Sweet Clover, previously included.

STATISTICS OF FARM CROPS

CARROTS AND ALL FIELD CROPS

The following table gives the area, produce and market value of Carrots and of all Field Crops for the years 1882 to 1930, together with the annual averages for the various periods of ten years and the average for the whole period.

Years	Carrots				All Field Crops		
	Acres	Bushels	Per acre	Market value	Acres	Value	Per acre
				\$		\$	\$ c.
1930.....	1,772	236,642	134	47,328	10,009,097	173,498,548	17.33
1929.....	1,777	222,903	125	44,581	10,020,294	236,651,277	23.62
1928.....	2,002	317,998	159	63,600	10,357,960	244,445,136	23.60
1927.....	1,743	286,863	165	53,070	10,305,045	256,627,042	24.90
1926.....	1,672	253,966	152	50,793	10,434,401	257,686,886	24.70
1925.....	1,835	325,478	177	58,586	10,364,317	261,490,292	25.23
1924.....	2,128	402,446	189	68,416	10,264,614	264,370,642	25.76
1923.....	1,780	285,270	160	57,054	10,296,961	219,114,500	21.28
1922.....	2,124	472,643	223	94,529	10,258,613	223,342,150	21.77
1921.....	2,217	410,501	185	112,888	10,075,073	222,177,881	22.05
1920.....	2,706	674,101	249	185,378	10,108,272	367,608,619	36.37
1919.....	2,706	605,803	224	166,596	9,915,884	397,238,400	40.06
1918.....	2,706	689,557	255	172,389	9,992,825	363,909,778	36.42
1917.....	2,920	758,292	260	151,658	9,718,259	333,353,438	34.30
1916.....	2,391	331,124	138	46,357	9,548,876	223,748,948	23.43
1915.....	2,439	686,232	281	85,779	9,762,951	210,674,415	21.58
1914.....	2,448	766,170	313	95,771	9,621,444	199,152,945	20.70
1913.....	2,400	592,016	247	74,002	9,541,537	168,455,253	17.65
1912.....	2,742	747,207	273	93,401	9,574,474	185,790,341	19.40
1911.....	3,207	815,129	254	101,891	9,718,741	179,974,358	18.52
1910.....	3,551	1,049,348	296	131,169	9,725,684	175,115,742	18.01
1909.....	3,506	1,001,653	286	125,207	9,578,323	167,966,577	17.54
1908.....	4,080	1,120,145	275	140,018	9,621,683	164,077,282	17.05
1907.....	4,530	1,585,500	350	198,187	9,750,615	176,354,759	18.09
1906.....	4,980	1,598,698	321	199,837	8,962,925	144,570,075	16.13
1905.....	5,509	1,846,659	335	230,832	8,897,898	142,804,431	16.05
1904.....	6,634	2,022,945	305	252,868	8,673,525	134,304,690	15.48
1903.....	7,805	2,612,778	335	326,597	8,731,405	136,657,807	15.65
1902.....	8,625	3,227,161	374	403,395	8,677,988	146,421,171	16.87
1901.....	9,221	3,199,967	347	399,996	8,667,512	128,325,648	14.81
1900.....	10,320	3,469,123	336	433,640	8,794,953	114,758,761	13.05
1899.....	11,891	3,674,035	309	459,254	8,753,926	105,771,321	12.08
1898.....	12,418	4,313,861	347	539,233	8,835,272	110,528,947	12.51
1897.....	12,025	4,433,628	369	554,204	8,701,705	106,952,471	12.29
1896.....	12,333	4,618,441	374	577,305	8,511,444	88,900,135	10.44
1895.....	13,002	4,581,373	352	572,672	8,321,173	99,655,895	11.98
1894.....	11,186	3,716,140	332	464,518	8,227,153	94,055,392	11.43
1893.....	9,288	2,971,450	320	371,431	8,054,612	101,886,557	12.65
1892.....	9,941	3,827,361	385	478,420	8,080,206	110,562,493	13.68
1891.....	9,858	3,814,016	387	476,752	7,834,213	130,866,023	16.70
1890.....	11,977	4,210,542	352	526,318	7,912,297	114,382,305	14.46
1889.....	11,261	3,431,959	305	428,995	7,758,583	106,500,799	13.73
1888.....	11,524	3,898,584	338	487,323	7,616,350	124,244,503	16.31
1887.....	9,110	2,105,686	231	263,210	7,429,084	99,583,524	13.40
1886.....	9,267	3,478,751	375	434,844	7,403,281	104,001,865	14.05
1885.....	9,024	3,462,319	384	432,790	7,350,443	110,068,586	14.97
1884.....	10,987	4,197,200	382	524,650	7,203,958	120,615,798	16.74
1883.....	11,270	3,984,436	354	498,055	7,542,623	114,754,141	15.21
1882.....	9,955	4,009,975	403	501,247	7,125,223	136,939,533	19.22
Annual Averages:							
1922-1930.....	1,870	311,579	167	59,773	10,256,811	236,358,497	23.04
1912-1921.....	2,568	626,100	244	118,422	*9,785,960	*267,211,002	27.31
1902-1911.....	5,243	1,688,002	322	211,000	9,233,879	156,824,689	16.98
1892-1901.....	11,163	3,880,538	348	485,068	8,494,796	106,139,762	12.49
1882-1891.....	10,243	3,659,347	351	457,417	7,517,606	116,195,708	15.48
1882-1930.....	6,343	2,068,246	326	270,552	9,033,341	175,529,349	19.43

*Including Flax, 1918-1921.

No statistics of "mixed grains" were taken previous to 1907, when an acreage of 443,100 was estimated.

STATISTICS OF FARM CROPS

The following table gives the area in Cleared Pasture, Summer Fallow, Orchards and Small Fruits, for the years 1909 to 1930. Strawberries and Vineyard for the years 1925-1930.

Years	Pasture (cleared)	Summer fallow	Orchard	Small fruits	Straw- berries	Vineyard
	acres	acres	acres	acres	acres	acres
1930.....	3,149,460	247,067	212,232	12,376	7,286	11,586
1929.....	3,134,614	247,802	214,370	12,367	7,613	11,255
1928.....	3,000,172	211,015	207,003	12,733	7,773	8,855
1927.....	3,012,786	212,906	211,225	13,437	7,836	7,905
1926.....	3,077,424	189,488	215,779	13,672	7,274	7,545
1925.....	3,193,941	162,649	223,343	14,147	7,185	6,558
1924.....	3,317,532	179,527	229,708	27,315	.....	.....
1923.....	3,472,642	186,123	235,349	27,497	.....	.....
1922.....	3,401,033	198,841	239,914	27,242	.....	.....
1921.....	3,401,998	260,277	242,921	26,175	.....	.....
1920.....	3,432,620	216,377	248,395	25,635	.....	.....
1919.....	3,499,802	276,337	257,006	25,244	.....	.....
1918.....	3,561,754	248,463	265,678	24,596	.....	.....
1917.....	3,509,945	232,679	280,326	21,964	.....	.....
1916.....	3,409,581	331,736	280,653	22,817	.....	.....
1915.....	3,350,420	226,217	288,825	23,443	.....	.....
1914.....	3,302,503	268,714	298,627	23,863	.....	.....
1913.....	3,120,146	268,487	306,764	24,360	.....	.....
1912.....	3,082,671	278,317	310,096	24,699	.....	.....
1911.....	3,116,768	279,220	303,188	25,360	.....	.....
1910.....	3,159,712	254,038	298,347	24,384	.....	.....
1909.....	3,180,780	231,707	300,364	24,614	.....	.....

1909-1924 Strawberries and Vineyard included in Small Fruits.

STATISTICS OF FARM CROPS

ALSIKE AND SWEET CLOVER

The following table gives the area, produce and market value of Alsike and Sweet Clover for the years 1925 to 1930.

Years	Alsike				Sweet Clover			
	Acres	Tons	Per acre	Market value	Acres	Tons	Per acre	Market value
				\$				\$
1930.....	141,480	206,020	1.46	2,010,571	338,234	704,281	2.08	5,363,894
1929.....	189,848	289,560	1.53	2,958,780	388,106	803,576	2.07	6,595,169
1928.....	155,867	235,325	1.51	2,457,119	413,468	924,608	2.24	7,067,707
1927.....	176,870	290,345	1.64	2,991,247	400,296	927,342	2.32	7,075,797
1926.....	129,477	179,664	1.39	2,217,556	365,102	810,852	2.22	7,222,221
1925.....	177,382	259,649	1.46	2,855,850	344,114	792,340	2.30	7,144,050

STATISTICS OF FARM CROPS

RATIOS OF AREA UNDER CROP

The following table shows the number of acres under the various crops per 1,000 acres of cleared land for the years 1882 to 1930, together with the annual averages for the various periods of ten years and for the whole term of years.

Year	Fall Wheat	Spring Wheat	Barley	Oats	Peas	Beans	Rye	Buckwheat	Corn	Potatoes	*Roots	Hay and Clover	Mixed Grains
1930	44.6	6.5	40.2	162.6	5.3	4.4	3.5	18.1	29.1	10.5	9.4	187.7	63.1
1929	45.6	7.0	41.0	154.0	5.2	4.2	3.4	19.4	26.9	9.8	9.3	192.2	58.9
1928	45.8	7.2	40.6	175.5	7.3	3.4	4.4	17.9	27.0	12.0	10.1	185.5	59.8
1927	49.6	7.9	34.0	177.7	7.0	3.1	4.8	16.5	28.4	10.6	9.5	187.1	52.8
1926	53.4	7.6	29.7	187.3	6.5	3.4	5.7	15.5	36.2	10.2	9.8	191.1	51.0
1925	49.5	7.5	28.9	187.9	8.8	4.0	6.5	17.1	38.5	10.8	9.8	234.7	45.1
1924	47.9	6.7	29.1	191.7	8.7	3.5	8.4	15.9	44.2	11.2	9.6	235.1	42.8
1923	47.6	7.4	30.1	197.1	7.8	2.7	8.2	15.3	46.2	10.9	8.3	238.9	43.1
1922	54.2	8.3	28.9	202.1	7.0	2.7	10.2	13.2	46.9	11.5	8.4	238.1	36.8
1921	41.4	10.2	30.8	206.1	7.1	1.8	8.2	9.9	45.9	10.9	8.8	236.5	41.2
1920	51.0	17.9	32.4	192.5	7.3	1.5	8.9	9.6	46.3	10.5	10.4	247.1	38.9
1919	41.6	24.2	38.2	179.5	8.5	1.5	9.4	12.0	41.7	10.6	9.9	245.3	42.2
1918	24.5	23.8	44.6	197.6	7.7	6.8	7.6	15.1	38.9	11.2	10.3	244.2	41.9
1917	39.8	12.4	37.4	187.6	6.1	7.5	9.0	10.4	52.3	10.0	11.4	240.9	35.0
1916	47.9	9.8	35.9	183.0	6.5	3.7	10.1	15.6	47.5	9.5	10.8	236.2	33.1
1915	55.5	11.1	37.8	196.4	8.7	4.3	11.9	13.2	51.5	11.9	11.9	221.0	32.5
1914	47.0	8.1	39.7	190.2	12.2	3.5	9.5	12.1	48.6	11.5	11.5	234.0	31.3
1913	44.5	8.0	43.0	186.0	12.2	4.6	8.2	15.7	47.4	11.0	12.0	236.2	28.5
1912	52.6	8.5	44.8	180.1	15.3	4.8	7.4	14.3	47.0	11.0	12.8	233.1	31.0
1911	58.2	9.3	42.9	187.7	21.2	3.6	6.9	13.1	44.8	11.3	13.4	229.6	33.8
1910	51.9	9.0	43.7	192.5	28.2	3.5	6.6	13.6	45.2	11.8	14.5	223.7	34.8
1909	46.5	9.5	48.8	189.0	26.7	3.2	6.6	12.4	42.9	11.9	14.5	226.5	33.3
1908	48.1	10.1	51.9	196.3	28.1	3.3	6.2	9.9	37.7	11.8	14.9	230.2	32.3
1907	47.9	10.2	54.3	207.7	24.1	3.4	4.8	8.0	38.2	12.6	15.1	233.0	31.4
1906	55.8	12.2	53.6	192.6	29.1	3.6	5.7	7.5	33.3	9.7	14.7	217.6	...
1905	57.2	13.6	55.5	191.5	26.9	3.6	7.3	7.3	34.4	9.5	15.1	216.8	...
1904	43.8	16.3	55.9	192.2	24.6	3.7	9.5	7.3	37.9	9.7	15.3	211.9	...
1903	48.8	18.2	52.0	193.4	29.9	3.9	13.1	7.0	43.2	10.2	16.4	204.0	...
1902	55.2	22.3	48.8	184.3	39.2	4.0	13.9	6.9	42.9	10.7	16.3	195.0	...
1901	67.8	26.6	47.4	179.3	44.9	4.0	11.8	6.6	38.8	11.5	16.1	190.3	...
1900	80.4	28.3	43.4	180.4	49.8	3.3	10.7	7.7	38.4	12.3	16.7	190.0	...
1899	80.1	30.4	37.4	180.3	56.7	3.1	10.5	10.1	38.6	12.8	16.6	191.1	...
1898	80.7	30.0	33.8	182.9	66.6	3.4	12.7	11.5	40.1	13.1	16.4	188.8	...
1897	73.9	25.2	35.1	189.3	69.8	3.9	14.6	11.8	42.3	13.2	15.7	182.2	...
1896	69.2	20.2	36.5	191.4	65.5	5.4	11.7	11.5	39.2	14.1	15.4	191.5	...
1895	59.8	18.0	38.5	191.0	64.4	5.8	9.7	10.9	36.4	14.9	16.0	204.2	...
1894	63.4	18.7	39.6	190.6	63.9	4.8	7.3	11.8	30.8	13.6	15.2	209.6	...
1893	75.5	29.4	38.6	159.9	61.0	4.0	5.6	11.0	25.9	11.8	13.9	228.4	...
1892	80.6	54.3	41.7	155.3	64.6	2.8	6.1	10.4	22.8	12.2	13.4	209.8	...
1891	72.0	43.3	46.9	156.0	63.8	3.5	5.7	9.1	20.4	13.6	13.4	216.1	...
1890	61.8	51.6	60.2	161.5	67.0	3.4	8.8	7.7	19.2	13.6	12.7	211.2	...
1889	71.6	34.7	76.3	167.6	61.7	1.9	7.9	4.9	16.3	12.7	12.5	208.0	...
1888	73.2	32.5	79.2	163.6	61.6	2.0	7.4	5.1	19.7	13.6	12.9	202.8	...
1887	80.8	43.6	69.1	151.5	65.4	1.9	6.2	5.8	14.7	12.6	11.9	205.3	...
1886	81.0	52.8	67.3	148.3	64.4	1.9	6.2	6.5	14.3	12.8	11.5	209.8	...
1885	80.6	67.3	65.1	142.2	59.5	2.3	7.2	5.7	15.5	14.7	11.7	208.9	...
1884	80.5	67.2	65.2	138.0	53.2	2.3	9.6	6.7	16.3	15.7	12.4	204.3	...
1883	104.1	55.6	71.8	134.6	51.5	2.5	17.8	6.4	20.3	15.8	12.0	223.1	...
1882	116.8	57.7	83.4	136.4	55.1	1.9	18.2	4.9	20.3	15.8	10.3	179.5	...
Annual Averages:													
1922-1930	48.1	7.4	33.6	181.7	7.1	3.5	6.1	16.6	35.9	10.8	9.3	210.0	50.4
1912-1921	44.5	13.4	38.4	189.9	9.1	4.0	9.0	12.9	46.6	10.0	11.0	237.5	35.6
1902-1911	51.3	13.0	50.7	192.8	27.7	3.6	8.0	9.4	40.1	10.9	15.8	219.0	†33.1
1892-1901	73.2	28.0	39.2	180.2	60.5	4.1	10.1	10.3	35.5	12.9	15.6	198.2	...
1882-1891	81.6	50.9	67.2	150.4	60.5	2.4	9.4	6.2	17.7	14.0	12.2	207.1	...
1882-1930	58.5	21.2	45.0	180.4	31.1	3.5	8.5	11.3	36.1	11.8	13.6	212.2	†40.8

*Mangels, turnips, carrots and sugar beets. †1907-1911. ‡1907-1930.

STATISTICS OF FARM CROPS

MARKET PRICES

The following table gives the average Market Prices of Agricultural Products for the years 1882 to 1930, together with the annual averages for the various periods of ten years and for the whole term of years.

Years	Fall Wheat per bush.	Spring Wheat per bush.	Oats per bush.	Barley per bush.	Peas per bush.	Beans per bush.	Rye per bush.	Buckwheat per bush.	Corn (in ear) per bush.	Hay per ton	Potatoes per bush.
	cents	cents	cents	cents	cents	\$ c.	cents	cents	cents	\$ c.	cents
1930	66.3	65.5	29.7	35.9	104.8	1.44	48.5	51.7	46.2	10.42	59.7
1929	124.0	125.2	62.4	76.5	163.0	3.03	97.1	83.2	66.8	11.28	108.0
1928	122.0	119.2	55.5	74.2	152.8	3.83	95.2	81.5	68.1	11.23	55.8
1927	124.7	122.1	57.3	77.6	149.8	2.35	95.3	77.9	66.3	11.02	88.2
1926	125.1	125.1	51.8	68.0	150.6	2.34	87.2	77.0	53.5	12.75	112.9
1925	133.6	133.0	45.2	68.1	135.5	2.11	87.1	73.2	55.7	11.61	136.9
1924	133.9	137.0	54.2	82.2	151.1	2.29	107.5	86.7	70.2	10.91	53.5
1923	96.2	96.3	45.4	62.8	144.8	2.43	73.7	73.2	50.3	11.05	74.8
1922	104.6	105.1	43.5	61.3	140.3	2.54	78.4	73.5	46.6	12.03	51.0
1921	110.5	109.4	50.4	65.7	153.0	2.35	82.6	74.0	39.4	19.27	88.2
1920	193.4	183.8	58.2	93.8	193.3	2.88	142.0	105.5	66.4	24.25	99.2
1919	237.2	240.9	97.7	145.8	263.9	4.00	159.1	140.7	108.2	22.68	165.2
1918	210.9	208.6	75.0	103.6	217.7	4.49	151.7	135.0	104.9	18.13	99.3
1917	209.8	209.7	77.9	125.7	321.0	6.91	162.6	142.9	124.0	11.81	123.2
1916	161.3	162.2	66.0	101.9	210.5	5.46	118.8	109.0	74.3	10.60	130.1
1915	97.1	98.6	39.5	56.0	161.6	3.11	78.9	71.5	45.4	14.51	81.4
1914	109.1	107.9	49.5	64.3	136.6	2.14	84.9	71.5	45.7	14.55	44.0
1913	85.0	87.9	36.9	55.5	100.6	1.70	66.2	63.5	43.0	13.07	63.7
1912	91.7	90.0	38.6	58.7	110.3	1.93	70.0	54.5	37.2	11.77	63.7
1911	86.6	90.7	44.2	73.9	98.2	1.90	84.9	60.4	44.2	13.16	84.2
1910	86.6	89.6	35.0	52.0	80.7	1.55	63.2	50.0	37.3	9.91	49.2
1909	102.3	100.6	39.5	54.8	84.6	1.61	67.4	53.4	42.9	12.81	36.5
1908	89.2	90.8	40.3	52.4	82.7	1.48	69.7	54.2	40.0	10.25	47.9
1907	92.7	86.4	48.8	59.4	78.0	1.52	69.4	57.4	28.4	15.11	58.3
1906	70.7	68.9	34.0	45.0	70.6	1.39	60.9	49.5	37.6	9.10	53.8
1905	76.5	74.9	33.6	42.9	65.3	1.32	56.8	50.0	36.9	7.72	46.0
1904	98.7	94.2	32.3	43.7	63.0	1.22	57.6	48.6	37.4	7.97	50.7
1903	75.1	74.4	29.3	42.1	64.3	1.41	48.6	44.3	36.9	7.94	44.1
1902	70.7	69.6	34.8	45.1	71.0	1.35	50.5	48.0	40.6	8.15	56.5
1901	66.1	66.8	36.2	45.0	65.3	1.25	49.3	48.4	38.0	7.99	42.6
1900	66.4	67.5	26.5	38.9	57.1	1.00	48.5	43.7	31.7	8.48	26.1
1899	66.7	66.5	27.7	39.5	57.3	1.08	50.0	45.5	19.8	7.72	32.8
1898	69.4	69.2	25.8	38.0	52.2	.70	43.5	38.2	20.1	6.22	44.1
1897	78.2	78.6	22.6	27.0	42.1	.65	37.7	30.0	19.7	7.18	39.9
1896	71.0	70.6	20.0	31.6	44.0	.68	36.6	30.5	19.6	9.68	26.1
1895	69.3	69.8	29.1	40.4	54.8	.95	45.6	36.8	22.6	12.30	20.2
1894	55.0	55.5	30.8	40.5	53.6	1.10	44.2	39.2	26.1	7.56	35.4
1893	59.9	59.4	33.2	40.1	54.0	1.18	47.5	41.8	26.5	7.64	39.5
1892	70.7	67.8	30.8	41.3	59.0	.99	55.8	42.2	26.3	8.20	50.4
1891	95.1	92.9	36.5	49.1	63.8	1.06	72.3	44.1	31.1	11.91	32.6
1890	94.2	91.3	41.1	50.2	60.3	1.29	52.7	43.0	30.5	7.95	44.4
1889	88.4	88.1	30.5	44.0	55.7	1.27	50.9	39.5	25.9	9.98	45.5
1888	102.4	99.3	40.5	60.1	65.4	1.14	60.2	49.3	29.3	16.17	31.7
1887	78.4	78.0	34.6	56.7	55.9	.98	49.5	45.0	28.7	11.62	62.8
1886	73.6	72.5	32.0	51.3	52.6	.84	52.2	33.7	27.6	9.69	44.9
1885	81.5	80.6	31.5	55.2	58.0	.80	55.2	39.2	27.9	9.85	41.1
1884	80.5	81.4	33.1	53.6	64.4	1.18	59.7	40.0	45.0	9.56	40.0
1883	105.0	107.0	38.0	57.0	71.0	.....	62.0	.....	.....	9.02	62.0
1882	101.0	106.0	43.0	65.0	74.0	1.97	64.0	40.0	40.0	11.54	64.0
Annual Averages:											
1922-1930	115.8	114.4	49.0	66.7	143.5	2.49	86.4	75.6	56.6	11.36	78.5
1912-1921	144.5	171.6	58.5	86.0	172.3	2.35	111.4	94.4	62.3	15.88	90.1
1902-1911	83.6	81.2	36.7	50.1	74.8	1.48	60.2	52.4	38.2	9.97	51.4
1892-1901	67.8	67.5	27.9	38.5	53.5	.93	44.9	38.7	25.0	7.97	33.6
1882-1891	90.0	89.6	34.3	54.5	61.6	1.16	60.0	41.5	.....	10.34	45.0
1882-1930	98.7	98.1	42.7	59.3	71.0	1.96	72.9	67.2	*43.0	11.33	59.2

*Average for 39 years, 1892-1930.

STATISTICS OF LIVE STOCK
NUMBER OF LIVE STOCK ON HAND

The following table give the number of Horses, Cattle, Sheep, Swine and Poultry on hand in June of each year for the forty-nine years, 1882-1930.

Years	Horses	Cattle	Sheep	Swine	Poultry
	No.	No.	No.	No.	No.
1930.....	606,719	2,675,488	1,134,457	1,661,556	22,560,260
1929.....	606,505	2,671,594	1,130,395	1,681,263	22,045,091
1928.....	609,349	2,682,053	1,014,106	1,833,538	19,703,576
1927.....	617,136	2,709,954	956,267	1,883,177	19,048,045
1926.....	629,659	2,757,799	886,483	1,735,355	17,693,000
1925.....	644,138	2,809,373	868,526	1,678,595	17,778,581
1924.....	663,875	2,917,302	870,279	1,807,903	16,751,345
1923.....	673,371	2,838,087	907,673	1,734,734	15,203,384
1922.....	685,852	2,836,181	986,617	1,553,434	13,964,317
1921.....	694,237	2,890,113	1,081,828	1,563,807	11,458,206
1920.....	704,640	2,881,827	1,129,084	1,614,356	11,005,645
1919.....	719,569	2,927,191	1,101,740	1,695,487	11,703,809
1918.....	732,977	2,867,722	972,341	1,656,386	12,281,105
1917.....	765,873	2,827,609	956,986	1,664,639	13,606,292
1916.....	775,732	2,734,767	908,066	1,735,254	14,377,844
1915.....	779,131	2,674,746	908,095	1,769,295	14,273,091
1914.....	774,544	2,604,628	922,375	1,770,533	14,175,214
1913.....	751,726	2,628,845	996,155	1,618,734	13,511,383
1912.....	742,139	2,624,780	1,021,848	1,702,652	12,924,938
1911.....	737,916	2,593,205	1,040,245	1,744,983	13,042,293
1910.....	724,384	2,567,128	1,065,101	1,561,042	12,460,787
1909.....	728,308	2,668,584	1,130,667	1,551,187	12,086,580
1908.....	726,471	2,824,859	1,143,898	1,818,763	12,285,613
1907.....	725,666	2,926,236	1,106,083	2,049,666	13,428,076
1906.....	688,147	2,963,618	1,304,809	1,819,778	10,254,824
1905.....	672,781	2,889,503	1,324,153	1,906,460	9,738,493
1904.....	655,554	2,776,304	1,455,482	2,008,984	9,412,683
1903.....	639,581	2,674,261	1,642,627	1,977,386	9,683,573
1902.....	626,106	2,562,584	1,715,513	1,684,635	9,762,808
1901.....	620,343	2,507,620	1,761,799	1,491,885	9,745,236
1900.....	617,309	2,429,330	1,797,213	1,771,641	9,541,241
1899.....	615,524	2,318,355	1,772,604	1,971,070	9,344,024
1898.....	611,241	2,215,943	1,677,014	1,640,787	9,084,273
1897.....	813,670	2,182,326	1,690,350	1,284,963	8,435,341
1896.....	624,749	2,181,958	1,849,348	1,269,631	7,734,167
1895.....	647,696	2,150,103	2,022,735	1,299,072	7,752,840
1894.....	674,777	2,099,301	2,015,805	1,142,133	7,552,662
1893.....	685,187	2,057,882	1,935,938	1,012,022	7,114,436
1892.....	688,814	2,029,140	1,850,473	996,974	7,078,973
1891.....	678,459	1,978,815	1,693,751	1,156,316	7,006,090
1890.....	659,636	1,894,712	1,339,695	1,140,559	6,854,864
1889.....	618,795	1,891,899	1,344,180	835,469	6,304,298
1888.....	596,218	1,928,638	1,349,044	819,079	6,164,114
1887.....	575,361	1,948,264	1,396,161	832,817	6,438,361
1886.....	569,649	2,018,173	1,610,949	860,125	6,968,915
1885.....	558,809	1,976,480	1,755,605	822,262	6,336,805
1884.....	535,953	1,925,670	1,890,733	916,158	6,237,606
1883.....	560,133	1,828,613	1,868,784	906,727	5,847,344
1882.....	503,604	1,586,312	1,915,303	850,226	5,352,120

VALUE OF LIVE STOCK ON HAND

The following table gives the value of Horses, Cattle, Sheep, Swine and Poultry on hand in June of each year for the forty-nine years, 1882-1930, except for the ten years, 1882-1891, when farm live stock was valued in bulk.

Years	Horses	Cattle	Sheep	Swine	Poultry	Total
	\$	\$	\$	\$	\$	\$
1930	60,606,827	136,496,344	10,835,770	18,643,164	13,372,682	239,954,787
1929	66,603,793	150,480,760	12,457,554	20,430,803	13,473,814	263,446,724
1928	67,085,352	128,937,680	11,209,872	19,808,890	12,452,203	239,493,997
1927	66,724,527	117,162,152	10,433,761	24,159,535	12,333,645	231,145,720
1926	68,239,756	115,386,214	9,688,685	24,525,126	12,400,985	230,240,766
1925	69,787,791	115,844,069	9,576,722	24,424,238	13,527,454	233,160,274
1924	72,617,565	113,046,599	7,081,500	16,201,699	13,446,621	222,393,984
1923	74,542,351	109,467,066	6,597,087	19,018,668	12,401,083	222,026,255
1922	74,535,855	103,899,416	6,612,959	16,550,636	12,241,252	213,840,118
1921	75,680,750	103,861,565	8,207,564	19,205,488	11,168,318	218,123,685
1920	89,606,594	176,897,490	16,191,741	32,253,804	11,787,708	326,737,337
1919	92,823,683	184,041,594	18,128,240	33,263,051	11,351,364	339,607,932
1918	95,710,928	172,259,261	15,690,055	31,140,181	9,307,051	324,107,476
1917	99,439,558	150,309,828	9,946,030	21,464,366	8,517,195	289,676,977
1916	101,434,391	128,324,526	7,386,710	18,790,755	7,933,157	263,869,539
1915	107,982,037	115,363,336	6,403,907	17,562,726	7,670,326	254,982,332
1914	112,576,793	106,635,148	6,155,451	17,951,258	7,551,428	250,870,078
1913	113,240,047	95,759,022	6,242,672	15,393,192	6,956,952	237,591,885
1912	109,000,214	90,403,902	6,181,595	14,141,908	6,121,323	225,848,942
1911	103,373,206	84,634,962	6,213,021	14,593,917	5,905,318	214,720,424
1910	92,757,431	76,872,723	6,127,018	13,265,834	5,393,031	194,416,037
1909	87,682,689	75,247,197	6,262,493	11,144,135	4,411,386	184,747,900
1908	85,847,391	77,255,267	6,336,265	12,135,979	4,439,854	186,014,756
1907	85,041,144	79,485,780	5,928,325	14,174,502	4,854,381	189,484,132
1906	79,814,953	80,303,276	6,721,119	12,770,708	3,697,338	183,307,394
1905	73,911,177	76,764,482	6,191,774	12,280,667	3,335,660	172,483,760
1904	68,138,228	72,821,003	6,425,100	12,921,743	3,077,029	163,383,103
1903	61,811,456	69,289,924	7,228,498	13,023,743	2,973,646	154,327,267
1902	55,173,637	63,517,342	7,634,284	11,262,265	2,957,286	140,544,814
1901	50,038,465	59,527,119	7,772,793	9,298,712	2,859,172	129,496,261
1900	46,916,999	56,320,810	7,711,496	9,598,153	2,727,363	123,274,821
1899	42,713,557	52,938,500	7,315,729	10,180,338	2,658,321	115,806,445
1898	38,659,896	47,286,254	6,499,695	8,720,242	2,578,136	103,744,223
1897	36,111,805	42,683,557	6,003,194	6,533,210	2,318,038	93,649,804
1896	37,185,692	44,383,638	6,652,202	6,505,227	2,130,807	96,857,566
1895	40,283,754	46,708,017	7,708,442	7,101,211	2,156,623	103,958,047
1894	46,245,614	47,577,587	8,606,671	6,909,262	2,208,518	111,547,652
1893	50,527,472	47,718,025	9,016,118	6,622,129	2,187,158	116,070,902
1892	55,812,920	45,548,475	8,569,557	5,479,093	2,091,450	117,501,495
1891						108,721,076
1890						104,086,626
1889						105,731,288
1888						102,839,235
1887						104,406,655
1886						107,208,935
1885						100,690,086
1884						103,106,829
1883						100,082,365
1882						80,540,720

The values for several classes of horses on hand, June 15th, 1930, were as follows: Stallions, \$1,055,520; mares, \$32,260,409; geldings, \$24,350,455; colts and fillies, \$2,940,443.

The values for the several classes of cattle on hand were as follows: Bulls, \$4,320,775; cows for milk purposes, \$89,387,910; cows for beef purposes, \$4,936,306; yearlings for milk purposes, \$9,734,301; yearlings for beef purposes, \$9,360,999; calves, \$8,885,467; all other cattle, \$9,870,586.

The values for sheep and lambs on hand were: Ewes for breeding, \$5,691,726; one year old and over, \$896,335; under one year, \$4,247,709.

The values for brood sows, \$5,723,709; six months old and over, \$3,778,321; under six months, \$9,141,134.

The values for the several classes of poultry on hand were as follows: Turkeys, six months old and over, \$321,216; under six months, \$477,765; geese, six months old and over, \$340,292; under six months, \$434,428; ducks, six months old and over, \$96,334; under six months, \$190,945; other fowls, six months old and over, \$8,124,573; under six months, \$3,387,129.

VALUES PER HEAD OF LIVE STOCK AND POULTRY ON HAND FOR THE YEARS 1892 TO 1930

Years	Horses all Ages	Cattle		Sheep and Lambs	Swine all Ages	Poultry all Kinds
		Milch Cows	Other Cattle			
	\$	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1930.....	100	73 11	32 42	9 55	11 22	59
1929.....	110	80 34	35 61	11 02	12 15	61
1928.....	110	68 33	30 09	11 05	10 80	63
1927.....	108	60 92	27 05	10 91	12 83	65
1926.....	108	59 14	26 84	10 93	14 13	70
1925.....	108	58 55	27 70	11 03	14 55	76
1924.....	109	55 41	27 05	8 14	8 96	80
1923.....	111	55 24	25 14	7 27	10 96	82
1922.....	109	52 68	24 25	6 70	10 65	88
1921.....	109	51 56	24 77	7 59	12 28	97
1920.....	127	85 84	44 67	14 34	19 98	1 07
1919.....	129	88 71	46 37	16 45	19 62	97
1918.....	131	83 55	45 52	16 14	18 80	76
1917.....	130	75 54	39 55	10 39	12 89	63
1916.....	131	66 35	34 91	8 13	10 83	55
1915.....	139	60 83	32 18	7 05	9 93	54
1914.....	145	57 01	30 81	6 67	10 14	53
1913.....	151	50 56	27 29	6 27	9 51	51
1912.....	147	47 82	25 61	6 05	8 31	47
1911.....	140	45 31	24 07	5 97	8 36	46
1910.....	128	40 76	22 43	5 75	8 50	43
1909.....	120	38 19	21 45	5 54	7 18	37
1908.....	118	36 90	21 13	5 54	6 67	36
1907.....	117	36 43	21 15	5 36	6 92	36
1906.....	116	35 99	21 62	5 15	7 02	36
1905.....	110	35 06	21 29	4 68	6 44	34
1904.....	104	34 70	20 84	4 41	6 43	33
1903.....	97	34 15	20 58	4 40	6 59	31
1902.....	88	32 96	19 46	4 45	6 69	30
1901.....	81	31 74	18 57	4 41	6 23	29
1900.....	76	31 01	17 93	4 29	5 42	29
1899.....	69	30 31	17 41	4 13	5 16	28
1898.....	63	28 28	15 98	3 88	5 31	28
1897.....	59	26 13	14 58	3 55	5 08	27
1896.....	60	27 60	15 05	3 60	5 12	28
1895.....	62	29 74	16 08	3 81	5 47	28
1894.....	69	31 02	17 15	4 27	6 05	29
1893.....	74	31 63	17 78	4 66	6 54	31
1892.....	81	29 95	17 69	4 63	5 50	30

The values per head of the various classes on hand, June 15th, 1930, were as follows:

Horses: Stallions, \$314; mares, \$104.63; geldings, \$100.22; colts and fillies, \$56.49.

Cattle: Bulls, \$66.54; cows for beef purposes, \$68.32; yearlings for milk purposes, \$35.01; yearlings for beef purposes, \$35.09; all other cattle, \$51.02.

Sheep and Lambs: Ewes, for breeding, \$11.17; one year old and over, \$11.33; under one year, \$7.78.

Swine: Brood sows, \$33.23; six months old and over, \$19.30; under six months, \$7.07.

Poultry: Turkeys, six months old and over, \$3.84; under six months, \$1.09; geese, six months old and over, \$2.50; under six months, \$1.00; ducks, six months old and over, \$1.12; under six months, 40 cents; all other fowls, six months old and over, 95 cents; under six months, 27 cents.

VALUE OF FARM PROPERTY

LAND, BUILDINGS, IMPLEMENTS AND LIVE STOCK

The following table gives the estimated values of Farm Land, Farm Buildings, Implements (including vehicles) and Live Stock on hand on June 15th, for the years 1882 to 1930.

Years	Land	Buildings	Implements	Live Stock on hand	Total
	\$	\$	\$	\$	\$
1930.....	962,861,922	540,570,877	177,648,862	239,954,787	1,921,036,448
1929.....	963,503,959	535,923,912	176,909,961	263,446,724	1,939,784,556
1928.....	940,311,406	518,209,271	171,181,259	239,493,997	1,869,195,933
1927.....	906,811,595	506,981,024	168,842,552	230,813,620	1,813,448,791
1926.....	876,177,637	493,551,144	164,478,485	230,240,766	1,764,448,032
1925.....	879,212,498	490,027,751	164,188,030	233,160,274	1,766,588,553
1924.....	885,348,351	484,539,016	164,021,854	222,393,984	1,756,303,205
1923.....	904,659,633	480,260,117	163,033,141	222,026,255	1,769,979,146
1922.....	880,896,544	479,451,680	163,830,154	213,840,118	1,738,018,496
1921.....	851,300,059	484,188,897	159,913,871	218,123,685	1,713,526,512
1920.....	861,116,234	467,010,867	153,780,378	326,737,337	1,808,644,816
1919.....	848,767,153	426,649,086	137,310,618	339,607,932	1,752,334,789
1918.....	819,164,298	380,244,880	109,896,874	324,107,476	1,633,413,528
1917.....	807,426,986	370,384,055	104,581,053	289,676,977	1,572,069,071
1916.....	794,676,866	357,313,850	98,020,295	263,869,539	1,513,880,550
1915.....	794,393,564	352,628,031	95,049,350	254,982,332	1,497,053,277
1914.....	790,538,706	347,348,643	91,703,876	250,870,078	1,480,461,303
1913.....	782,993,853	345,303,335	89,702,273	237,591,885	1,455,591,346
1912.....	758,729,268	335,141,520	86,231,210	225,848,942	1,405,950,940
1911.....	723,902,419	317,876,963	84,969,426	214,720,424	1,480,469,232
1910.....	700,905,425	306,517,941	81,570,981	194,416,037	1,283,410,384
1909.....	680,789,629	297,690,826	77,790,754	184,747,900	1,241,019,109
1908.....	671,531,018	288,180,121	74,485,730	186,014,756	1,220,211,625
1907.....	674,505,427	284,672,238	72,910,875	189,484,132	1,221,572,672
1906.....	661,199,920	273,414,187	71,197,619	183,307,394	1,189,119,120
1905.....	649,201,364	264,384,514	68,629,546	172,483,760	1,154,699,184
1904.....	640,544,541	257,995,484	65,992,210	163,383,103	1,127,915,338
1903.....	620,869,475	247,629,153	63,996,190	154,327,267	1,086,822,085
1902.....	604,860,063	237,289,668	62,199,787	140,544,814	1,044,894,332
1901.....	585,354,294	226,575,228	59,897,513	129,496,261	1,001,323,296
1900.....	574,727,610	219,488,370	57,324,130	123,274,821	974,814,931
1899.....	563,271,777	213,440,281	54,994,857	115,806,445	947,513,360
1898.....	556,246,569	210,054,396	52,977,232	103,744,223	923,022,420
1897.....	554,054,552	206,090,159	51,299,098	93,649,804	905,093,613
1896.....	557,468,270	205,235,429	50,730,358	96,857,566	910,291,623
1895.....	572,938,472	204,148,670	50,944,385	103,958,047	931,989,574
1894.....	587,246,117	204,071,566	51,530,172	111,547,652	954,395,507
1893.....	602,664,361	200,189,888	51,435,919	116,070,902	970,361,070
1892.....	615,828,471	195,644,258	51,003,020	117,501,495	979,977,244
1891.....	621,245,223	191,268,327	50,651,442	108,721,076	971,886,068
1890.....	622,886,000	193,438,826	50,515,583	104,086,626	970,927,035
1889.....	632,329,433	192,464,237	51,685,706	105,731,288	982,210,664
1888.....	640,480,801	188,293,226	49,754,832	102,839,235	981,368,094
1887.....	636,883,755	184,753,507	49,248,297	104,406,655	975,292,214
1886.....	648,009,828	183,748,212	50,530,936	107,208,935	989,497,911
1885.....	626,422,024	182,477,905	48,569,725	100,690,086	958,159,740
1884.....	625,478,707	173,386,925	47,830,710	103,106,828	949,803,170
1883.....	654,793,025	163,030,675	43,522,530	100,082,365	961,428,595
1882.....	632,342,500	132,712,575	37,029,815	80,540,720	882,625,610

Twenty-Ninth Annual Report
OF THE
Temiskaming and Northern
Ontario Railway Commission

ONTARIO GOVERNMENT RAILWAY
Hon. G. Howard Ferguson, Premier

For the Year Ending October 31st

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 23, 1931



ONTARIO

TORONTO

Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty
1931

TO THE HONOURABLE W. D. ROSS,

Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Annual Report of the Temiskaming and Northern Ontario Railway Commission for the twelve months ended October 31st, 1930.

Respectfully submitted,

(Sgd.) GEORGE S. HENRY

Prime Minister.

TEMISKAMING AND NORTHERN ONTARIO RAILWAY COMMISSION

GEO. W. LEE.....Chairman, North Bay
LIEUT.-COL. L. T. MARTIN.....Vice-Chairman, Ottawa
COL. J. I. McLAREN.....Commissioner, Hamilton
W. H. MAUND.....Secretary-Treasurer, North Bay

TEMISKAMING AND NORTHERN ONTARIO RAILWAY

For the past year Canada in common with most other countries has passed through an era of repressed business and declining prices.

Conditions that are world-wide have combined to slow up the pace of the economic expansion of this country; yet there is no doubt of its ultimate recovery and progress.

For some time past—and at the present writing—Canada is sharing in those economic ills that are affecting the whole world. That we shall sooner or later emerge from this period of depression into prosperity again is undoubted.

* * * *

The present business recession is undoubtedly largely attributable to the lack of balance between production and consumption.

In consequence, an over-production of all kinds overshadows the world's markets, and prices have sharply declined, production slowed down or halted, and unemployment with its attending evils has assumed grave proportions.

* * * *

But as we know that industry is out of step with progress, largely because of our present inability to consume what we have produced, we may be fairly certain that the most promising means to maintain a balance between production and consumption lies in the creation both of new industries with great employment-giving potentialities, and of steadily expanding markets by the progressive further reduction of production costs, and consequent increasing power of purchase.

* * * *

Possibly there is no industry in this country where the results of severe fluctuations in general business conditions are more apparent and far reaching than in the railways.

Because of Canada's pre-eminence in agriculture—the keystone of the country's wealth—good and bad seasons in crops and prices bring about uncontrollable conditions which are reflected in the seasonal work of the roads.

* * * *

Canadian railways—operating under the lowest rates in the world—would welcome a condition that would stabilize employment and maintain standards of operation.

This unhappily is impossible in times like the present, when prices of all commodities that enter into the trade exchange of the world's markets have fallen alarmingly; and all forms of business are of necessity affected and output restricted due to decreased or vanished markets; culminating in a drastic decline in railway traffic with consequent retrenchment to meet the changed conditions.

* * * *

Though this reduction in traffic operation has proved particularly severe in the case of Canada's two premier railways, principally due to restricted grain movement, *et al.*, yet with the T. & N. O. Railway the results of the current fiscal year compare most favourably with those of 1929, both in volume of business and resulting earnings.

Canada is growing even in this period of depression, and it is necessary for the improvement of business in every regard, that the operations that are contemplated for betterment and extension of railway service be maintained.

* * * *

Construction and betterments on this system have therefore progressed rapidly during the year to encourage industry and bring transportation facilities to new areas of potential wealth, and to make available a vast new territory for future development and advancement.

* * * *

The extension of the main line north of Cochrane has been completed to Coral Rapids, mileage 96.3, and the completion of the railway to Moose River, James Bay, in 1931, will add a further one hundred miles, making the Cochrane-James Bay extension approximately 197 miles to tide-water, and the total operated mileage of the road 609.3 miles.

* * * *

Moose River will then in due course become Ontario's first ocean port, with rail connection through the most densely populated section of Canada.

The north-south development of the country will have taken another step forward to tide-water. Ontario will then have rail communication from the Great Lakes to the sub-Arctic Sea; through a forested and habitable country, powered with great rivers and possessed of enormous natural resources in lignite, timber, pulpwood, gypsum, iron ores, commercial clays, *et al.*, and part of the newly opened area has agricultural possibilities equal to that of the great clay belt farther south.

* * * *

The year just ended has witnessed on the whole a highly satisfactory growth in the mining industry of Northern Ontario, and while in some cases individual mines have proved somewhat disappointing, and retrogression was recorded, yet the general progress has been highly gratifying.

To look forward, the mining industry appears to be assured of increasing production and expansion, and the intensive campaign of exploration carried out has opened up new fields for exploitation, which promise in time to record further advance.

* * * *

In the precious metals, Ontario holds an enviable position, inasmuch as the gold and silver output for the recorded nine months ending September, 1930, show a recovery of approximately twenty-six million dollars (\$26,000,000) as compared with twenty-four million, seven hundred and thirty-six thousand dollars (\$24,736,000) for the corresponding period in 1929.

The value of the mining areas in Northern Ontario throughout the territory served by the Temiskaming and Northern Ontario Railway is demonstrated in the dividends paid to the end of 1929, as follows:

Cobalt, silver	\$104,904,883 10
Porcupine, golds	76,231,401 66
Kirkland Lake, golds	19,924,483 80
	<hr/>
	\$201,060,768 56

The continued policy of branch line construction and main line extension has resulted in bringing the mining, farming, lumber and general industries served by the railway into close proximity with the financial and business centres of the Province and the United States; and the operation of modern steel trains serves the requirements of the travelling public to the fullest extent.

During the year under review Commission paid the sum of \$240,000.00 to provide for matured interest on its debenture bond issue of \$6,000,000.00 and insurance against loss by fire was carried in the sum of \$3,500,000.00.

* * * *

The following condensed comparative statistics of the road's operation for 1929 and 1930 show following results:

	1930	1929
Revenue—Transportation.....	\$4,599,025 95	\$4,642,799 24
Revenue—Incidental.....	360,815 59	327,482 89
	<hr/>	<hr/>
Decrease, 1930 (0.21 per cent.).....	\$4,959,841 54	\$4,970,282 13
	10,440 59	.....
	<hr/>	<hr/>
Expenditure—Operating.....	\$3,626,176 02	\$3,627,828 89
Other Expenditures.....	383,676 37	314,573 07
	<hr/>	<hr/>
Increase, 1930 (1.76 per cent.).....	\$4,009,852 39	\$3,942,401 96
	.....	67,450 43
	<hr/>	<hr/>
Net earnings.....	\$949,989 15	\$1,027,880 17
Decrease, 1930 (7.58 per cent.).....	77,891 02	.....

The gross revenue from all sources in 1930 shows a decrease of \$10,440.59 (0.21 per cent.) as compared with 1929, and a gross expenditure increase of \$67,450.43 (1.76 per cent.), resulting in a decreased net revenue of \$77,891.02 (7.58 per cent.) as compared with preceding fiscal year.

* * * *

The decrease in transportation revenue volume during the current year is practically negligible, especially when taken into consideration with the general slackening of Canada's business conditions generally. The increase under the head of "Operating and Other Expenditures" is mainly attributable to the unprecedented heavy rains and subsequent numerous washouts sustained in the early spring, which were relatively costly in repair and upkeep. Additional interest costs were also a factor in this regard.

In conclusion I am pleased to report that the railway has been well maintained, and the road-bed and equipment fully kept up to Commission's high standard, and that the T. & N. O. Railway is in excellent physical and financial condition.

GEO. W. LEE,
Chairman.

AUDITORS' REPORT

EDWARDS, MORGAN & COMPANY
TORONTO, ONTARIO

Chartered Accountants

December 22nd, 1930.

To the Commissioners,
Temiskaming and Northern Ontario
Railway Commission,
North Bay, Ontario.

On your instructions we have conducted an audit of the Treasurer's accounts of the Temiskaming and Northern Ontario Railway and the Nipissing Central Railway for the year ending October 31st, 1930, and have satisfied ourselves that all receipts have been properly accounted for, and that satisfactory vouchers are on hand to cover disbursements. We have checked the balances in the hands of the Treasurer and find them to be in agreement with the accounts as shown by the general ledgers.

The accounts of the Treasurer are in good order and well kept. All information asked for has been cheerfully given. We also wish to acknowledge the courtesies of the Commission and its employees at all times.

EDWARDS, MORGAN & COMPANY,

Chartered Accountants.

TEMISKAMING AND NORTHERN ONTARIO RAILWAY COMMISSION

Mileage operated at the close of the fiscal year was as follows:—

	Miles	Total Miles
MAIN LINE:		
North Bay to Cochrane.....	252.29	349.09
Cochrane to Coral Rapids.....	96.80	
BRANCH LINES:		
Lorrain Branch.....	17.00	93.21
Elk Lake Branch.....	28.50	
Charlton Branch.....	7.60	
Iroquois Falls Branch.....	7.00	
Porcupine Branch.....	33.11	
OTHER TRACKS:		
Yard Tracks and Sidings.....	112.86	119.89
New Liskeard Spur.....	1.12	
Mattagami River Spur.....	2.96	
Kerr Lake Spur.....	1.25	
Double Track.....	1.70	
PRIVATE SIDINGS OPERATED BY RAILWAY:		
Private Siding Agreement.....	22.03	22.87
Owned by Private Companies.....	.84	
Total Mileage Operated.....		585.06
SIDINGS OPERATED BY PRIVATE COMPANIES:		
Private Siding Agreement.....		7.12
LEASED TO NIPISSING CENTRAL RAILWAY:		
Main Track.....	5.85	6.94
Sidings.....	1.09	
Total Mileage.....		599.12

PURCHASING AND STORES DEPARTMENT

Statement of Purchases and Issues, Fiscal Year, 1929-1930

Stock	1929		1930	
	Purchases	Issues	Purchases	Issues
Shop.....	\$473,104 35	\$531,554 82	\$614,393 44	\$642,826 04
Soft Coal.....	545,746 46	549,022 66	581,761 88	606,835 06
Hard Coal.....	18,090 64	19,628 56	18,933 28	19,238 06
Oil and Waste.....	26,270 70	27,156 59	23,135 60	25,467 45
Stationery.....	32,967 86	31,770 10	31,527 69	32,338 74
Rail.....	129,153 02	207,479 53	378,118 29	439,355 41
Tie.....	88,091 98	156,098 87	320,677 47	291,937 27
Ice.....	10,815 95	10,660 38	10,824 15	11,444 80
	<u>\$1,324,240 96</u>	<u>\$1,533,371 51</u>	<u>\$1,979,371 80</u>	<u>\$2,069,442 83</u>
Total Purchases.....	\$1,324,240 96	.....	\$1,979,371 80	.....
Total Issues.....	1,533,371 51	.....	2,069,442 83	.....
	<u>\$2,857,612 47</u>	.....	<u>\$4,048,814 63</u>	.....

GENERAL BALANCE SHEET, OCTOBER 31st, 1930

Assets		Liabilities	
Property Owned:		Provincial Loan Account.....	\$30,207,934 92
Cost of Road.....	\$29,631,330 50	Long Term Debt:	
Cost of Equipment.....	5,101,747 27	Funded Debt Unmatured.....	6,000,000 00
	<u>\$34,733,077 77</u>	Current Liabilities:	
Nipissing Central Railway.....	4,699,953 46	Demand Loans.....	\$2,000,000 00
		Audited Accounts and Wages Payable..	1,455,772 13
Cash.....	\$130,398 42	Traffic Balance—Car Service.....	20,719 22
Accounts Collectible.....	379,796 71	Debtenture Interest.....	60,420 00
Balance Due on Townsite Sales.....	5,602 68		<u>3,536,911 35</u>
Agents and Conductors.....	53,051 82	Deferred Liabilities:	
Traffic Balance—Freight.....	271,731 15	Pension Fund Reserve.....	\$161,570 54
Traffic Balance—Tickets.....	24,543 43	Other Deferred Liabilities.....	26,000 00
Material and Supplies.....	704,618 45		<u>187,570 54</u>
Ballast Pit Operations.....	49,333 98	Unadjusted Credits:	
Other Assets.....	1,130 28	Accrued Depreciation.....	\$1,212,623 27
	<u>1,630,206 92</u>	Fidelity Insurance Reserve.....	1,750 00
Deferred Assets:		News Agents' Security Deposit.....	50 00
Pension Department.....	161,570 54	Accounts in Suspense.....	1,319 69
Unadjusted Debits:			<u>1,215,742 96</u>
Surveys.....	\$40,863 91	Free Surplus:	
Insurance Premiums Paid in Advance..	1,090 30	Profit and Loss—Balance.....	319,502 55
Treasurer's Advance.....	250 00		<u>\$41,467,662 32</u>
Discount—Funded Debt.....	202,026 00		
Accounts in Suspense.....	8,623 42		
	<u>252,853 63</u>		
	<u>\$41,467,662 32</u>		
		Profit and Loss	
		By Balance—October 31st, 1929.....	\$221,464 14
		Result Operation for Year Ended October 31st, 1930.....	949,989 15
		Unclaimed Vouchers.....	1 95
		Unclaimed Wages.....	1,162 61
			<u>\$1,172,617 85</u>

COMPARATIVE STATEMENT OF EARNINGS, EXPENDITURES AND RESULT OF OPERATION, NOVEMBER 1st, 1928 TO OCTOBER 31st, 1930

	REVENUE		Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929	
			\$	c.	\$	c.
TRANSPORTATION						
101. Freight.....			3,336,628	11	3,308,624	11
102. Passenger.....			997,649	44	1,063,426	10
103. Excess Baggage.....			8,989	89	10,219	35
105. Parlour and chair car.....			1,328	60	2,213	80
106. Mail.....			64,244	80	62,576	49
107. Express.....			169,418	32	176,843	89
109. Milk.....			1,619	43	2,046	01
110. Switching.....			15,196	36	14,864	49
111. Special service train.....			3,951	00	1,985	00
Total.....			4,599,025	95	4,642,799	24
INCIDENTAL						
131. Dining and buffet.....			27,531	95	36,718	45
132. Restaurant and news.....			71,389	55		
133. Station, train and boat privileges.....			2,733	68	24,424	89
135. Storage—freight.....			1,744	41	2,150	99
136. Storage—baggage.....			562	10	576	60
137. Demurrage.....			9,599	00	7,879	10
138. Telegraph and telephone.....			205,864	83	227,579	85
142. Rents of buildings and other property.....			22,181	91	22,008	64
143. Miscellaneous.....			19,208	16	6,144	37
Total.....			360,815	59	327,482	89
JOINT FACILITY						
152. Joint facility—Dr.....			289	44	800	53
Total.....			289	44	800	53
Total Revenue.....			4,959,552	10	4,969,481	60
EXPENDITURES						
Maintenance of way and structures.....			821,105	31	854,102	71
Maintenance of equipment.....			753,645	28	732,917	88
Traffic.....			28,680	60	26,468	05
Transportation.....			1,667,357	08	1,667,634	61
Miscellaneous operations.....			175,060	23	143,013	77
General.....			215,078	78	204,651	26
Transportation for investment—Cr.....			34,751	26	959	39
Total Operating Expenses.....			3,626,176	02	3,627,828	89
Balance.....			1,333,376	08	1,341,652	71
OTHER INCOME						
Ore royalties.....	Dr.	4,568	73	Dr.	4,681	81
Hire of freight cars.....	Dr.	177,666	30	Dr.	168,624	89
Rent—locomotives.....		16,061	27		7,150	16
Rent—passenger-train cars.....	Dr.	430	99		5,253	84
Rent—work equipment.....		7,666	35		3,367	21
Joint facility rent income.....		27,214	43		27,216	83
Joint facility rents.....	Dr.	4,372	00	Dr.	4,351	50
Interest and exchange.....	Dr.	44,960	00	Dr.	36,613	73
Interest—funded debt.....	Dr.	205,978	33	Dr.	143,025	60
Amortization of discount—funded debt.....				Dr.	26	00
Miscellaneous Income.....		3,647	37		562	95
Total.....	Dr.	383,386	93	Dr.	313,772	54
Net Result.....			949,989	15	1,027,880	17

Maintenance of Way and Structures

	Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929	
	\$	c.	\$	c.
201. Superintendence.....	31,943	47	31,841	45
202. Roadway maintenance.....	130,382	25	114,033	87
208. Bridges, trestles and culverts.....	26,307	78	33,310	69
212. Ties.....	109,638	20	107,499	51
214. Rails.....	61,306	91	93,448	72
216. Other track material.....	45,814	27	59,461	06
218. Ballast.....	12,396	36	16,779	41
220. Track-laying and surfacing.....	247,063	85	238,529	70
221. Right-of-way fences.....	2,460	95	3,810	19
223. Snow and sand fences and snow sheds.....			96	88
225. Crossings and signs.....	3,020	88	5,382	97
227. Station and office buildings.....	32,941	18	29,513	63
229. Roadway buildings.....	4,512	43	8,126	75
231. Water stations.....	9,241	02	10,234	77
233. Fuel stations.....	6,092	27	2,710	45
235. Shops and engine houses.....	14,344	60	15,429	16
247. Telegraph and telephone lines.....	10,283	04	15,622	82
249. Signals and interlockers.....			Cr.	95
253. Power plant buildings.....	413	20	194	35
257. Power transmission systems.....	60	70		86
259. Power distribution systems.....	65	46	64	27
265. Miscellaneous structures.....	12	27	59	42
269. Roadway machines.....	8,494	70	8,464	11
271. Small tools and supplies.....	14,194	97	13,764	61
272. Removing snow, ice and sand.....	55,236	47	54,302	11
273. Assessments for public improvements.....	48	80	89	01
274. Injuries to persons.....	5,989	02	6,929	66
275. Insurance.....	4,702	13	6,490	85
276. Stationery and printing.....	1,671	68	1,535	85
277. Other expenses.....	4,061	80	411	82
278. Maintaining joint tracks, yards and other facilities —Dr.....	1,826	00	1,802	50
279. Maintaining joint tracks, yards and other facilities —Cr.....	23,421	35	25,837	79
280. Equalization—way and structures—Dr.....	285,142	75	346,021	64
280. Equalization—way and structures—Cr.....	285,142	75	346,021	64
Total.....	821,105	31	854,102	71

Maintenance of Equipment

	Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929	
	\$	c.	\$	c.
301. Superintendence.....	28,482	21	29,875	91
302. Shop machinery.....	8,847	70	9,224	46
304. Power plant machinery.....	2,197	37	3,046	91
306. Power substation apparatus.....			29	60
308. Steam locomotives—repairs.....	307,517	56	292,652	09
309. Steam locomotives—depreciation.....	45,905	57	45,316	97
310. Steam locomotives—retirements.....	620	00		
314. Freight-train cars—repairs.....	163,706	08	148,657	78
315. Freight-train cars—depreciation.....	20,845	36	20,839	21
316. Freight-train cars—retirements.....	449	70		
317. Passenger-train cars—repairs.....	111,159	27	109,563	24
318. Passenger-train cars—depreciation.....	25,703	77	25,187	10
319. Passenger-train cars—retirements.....			36	00
320. Motor equipment of cars—repairs.....	1,579	36	1,627	86
326. Work equipment—repairs.....	26,529	04	36,110	38
327. Work equipment—depreciation.....	9,569	98	9,569	97
332. Injuries to persons.....	1,266	01	1,002	26
333. Insurance.....	6,447	91	9,391	22
334. Stationery and printing.....	1,725	73	1,864	48
335. Other expenses.....	1,202	70	342	09
337. Maintaining joint equipment at terminals—Cr.....	10,110	04	11,419	65
Total.....	753,645	28	732,917	88

Traffic

351.	Superintendence.....	14,202	47	13,546	36
352.	Outside agencies.....	4,147	75	2,497	85
353.	Advertising.....	5,667	44	5,384	20
354.	Traffic associations.....	1,478	00	1,365	50
356.	Industrial and immigration bureaus.....	30	00	35	00
358.	Stationery and printing.....	3,154	94	3,639	14
Total.....		28,680	60	26,468	05

Transportation

	Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929		
	\$	c.	\$	c.	
371.	Superintendence.....	27,669	76	28,329	84
372.	Dispatching trains.....	26,531	50	25,855	58
373.	Station employees.....	306,029	01	306,523	79
374.	Weighing, inspection and demurrage bureaus.....	1,110	51	974	50
376.	Station supplies and expenses.....	34,107	04	34,426	32
377.	Yardmasters and yard clerks.....	51,784	12	50,012	36
378.	Yard conductors and brakemen.....	64,143	88	62,702	45
379.	Yard switch and signal tenders.....	4,101	51	3,895	39
380.	Yard enginemen.....	42,057	53	42,077	22
382.	Fuel for yard locomotives.....	51,886	83	51,051	02
385.	Water for yard locomotives.....	1,997	91	1,973	63
386.	Lubricants for yard locomotives.....	398	50	457	82
387.	Other supplies for yard locomotives.....	343	33	320	68
388.	Enginehouse expenses—yard.....	25,867	75	23,172	61
389.	Yard supplies and expenses.....	1,407	45	1,571	66
390.	Operating joint yards and terminals—Dr.....	2,542	00	2,545	00
391.	Operating joint yards and terminals—Cr.....	128,665	70	131,467	30
392.	Train enginemen.....	238,846	80	236,866	34
394.	Fuel for train locomotives.....	403,717	08	414,084	81
397.	Water for train locomotives.....	27,061	96	26,796	19
398.	Lubricants for train locomotives.....	5,335	58	5,520	32
399.	Other supplies for train locomotives.....	4,031	43	4,694	33
400.	Enginehouse expenses—train.....	81,518	58	80,789	91
401.	Trainmen.....	267,190	09	263,340	50
402.	Train supplies and expenses.....	84,414	13	83,049	51
405.	Crossing protection.....	909	98	715	04
410.	Stationery and printing.....	18,154	05	19,103	48
411.	Other expenses.....	230	79	411	89
413.	Operating joint tracks and facilities—Cr.....	300	00	300	00
414.	Insurance.....	2,034	84	2,750	24
415.	Clearing wrecks.....	3,932	80	8,834	80
416.	Damage to property.....	397	95	683	51
417.	Damage to live stock on right-of-way.....	185	31	207	35
418.	Loss and damage—freight.....	5,198	60	5,621	82
419.	Loss and damage—baggage.....	42	08	88	03
420.	Injuries to persons.....	11,142	10	9,953	97
Total.....		1,667,357	08	1,667,634	61

Miscellaneous Operations

	Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929		
	\$	c.	\$	c.	
441.	Dining and buffet service.....	34,012	08	42,721	87
442.	Restaurant and news service.....	55,363	78	.....	.....
447.	Commercial telegraph—maintenance.....	8,927	53	14,837	67
448.	Commercial telegraph—operation.....	28,691	95	31,028	18
449.	Commercial telephone—maintenance.....	10,528	78	17,063	22
450.	Commercial telephone—operation.....	37,536	11	37,362	83
Total.....		175,060	23	143,013	77

General

	Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929	
	\$	c.	\$	c.
451. Salaries and expenses of general officers.....	60,709	76	54,355	17
452. Salaries and expenses of clerks and attendants.....	111,750	71	107,124	73
453. General office supplies and expenses.....	5,210	11	3,308	34
454. Law expenses.....	4,815	00	4,813	00
455. Insurance.....	114	06	67	75
457. Pensions.....	12,000	00	12,000	00
458. Stationery and printing.....	5,290	86	6,588	07
460. Other expenses.....	15,855	53	17,039	72
462. General joint facilities—Cr.....	667	25	645	52
Total.....	215,078	78	204,651	26

TRAFFIC AND MILEAGE STATISTICS

Passenger Traffic

Total passengers carried earning revenue.....	516,816
Number of passengers carried one mile.....	35,574,762
Number of passengers carried one mile per mile of road.....	80,431
Average distance carried—miles.....	68.83
Total passenger revenue.....	997,649.44
Average amount received from each passenger.....	1.93
Average receipts per passenger per mile (cents).....	.02.80
Total passenger train service revenue.....	1,247,201.48
Passenger service train revenue per mile of road.....	2,819.81
Passenger service train revenue per train mile.....	1.73

Freight Traffic

Number of tons carried earning revenue.....	1,391,655
Number of tons carried earning revenue one mile.....	249,207,820
Number of tons carried earning revenue one mile per mile of road.....	563,436
Average distance haul of one ton—miles.....	179.1
Total freight revenue.....	3,336,628.11
Average amount received for each ton.....	2.40
Average amount received per ton per mile (cents).....	.01.34
Freight revenue per mile, of road.....	7,543.81
Freight train revenue per train mile.....	4.84

Total Traffic

Operating revenue.....	\$4,959,552 10
Operating revenue per mile of road.....	11,213 10
Operating revenue per train mile.....	3 74
Operating expenses.....	3,626,176 02
Operating expenses per mile of road.....	8,198 45
Operating expenses per train mile.....	2 74
Net operating revenue.....	1,333,376 08
Net operating revenue per mile of road.....	3,014 65

Car Mileage

Average number of passengers carried one mile per car mile.....	7.9
Average number of passengers carried one mile per train mile.....	49.4
Average number of passenger cars per train mile.....	6.2
Mileage of passenger cars.....	4,484,557
Mileage of loaded freight cars.....	11,321,260
Mileage of empty freight cars.....	6,225,947
Average number of freight cars per train mile.....	26.5
Average number of loaded freight cars per train mile.....	16.4
Average number of empty freight cars per train mile.....	9.1
Average number of tons of freight per train mile.....	361.6
Average number of tons of freight per loaded car mile.....	22.0
Average miles operated during the year.....	442.3

Train Mileage

Mileage of revenue passenger trains.....	634,944
Mileage of revenue mixed trains.....	85,120
Mileage of revenue freight trains.....	604,098
Mileage of revenue special trains.....	1,405
Total revenue train mileage.....	1,325,567

FREIGHT TRAFFIC

Company's Material Excluded—November 1st, 1929 to October 31st, 1930

Commodity	Whole Tons
Products of Agriculture:	
Oats.....	3,578
Barley.....	181
Other Grain.....	60
Flour.....	1,828
Other mill products.....	13,116
Hay and straw.....	14,859
Apples (fresh).....	1,813
Other fruits (fresh).....	3,756
Potatoes.....	4,947
Other fresh vegetables.....	3,830
Other agricultural products.....	881
Products of Animals:	
Horses.....	2,090
Cattle and calves.....	1,033
Sheep.....	55
Hogs.....	16
Dressed meats (fresh).....	592
Dressed meats (cured or salted).....	17
Other packing house products.....	4,830
Eggs.....	54
Butter and cheese.....	50
Other animal products.....	30
Products of Mines:	
Anthracite coal.....	24,087
Bituminous coal.....	90,217
Lignite coal.....	90
Coke.....	2,061
Iron ore.....	25
Other ores and concentrates.....	11,777
Base bullion and matte.....	3,284
Clay, gravel, sand, stone (crushed).....	14,188
Slate—dimension or block stone.....	2,733
Asphaltum.....	536
Salt.....	938
Other mine products.....	4,119
Products of Forests:	
Logs, posts, poles, cordwood.....	55,035
Ties.....	3,909
Pulpwood.....	417,366
Lumber, timber, box shooks, staves, heading.....	136,609
Other forest products.....	1,535
Manufactures and Miscellaneous:	
Refined petroleum and its products.....	16,974
Sugar.....	3,254
Rails and fastenings.....	8,795
Bar and sheet iron—structural.....	8,815
Castings, machinery and boilers.....	12,815
Cement.....	12,209
Brick and artificial stone.....	6,873
Lime and plaster.....	7,183
Sewer pipe and drain tile.....	1,796
Agricultural implements and vehicles other than autos.....	5,577
Automobiles and auto trucks.....	1,784
Household goods.....	666
Furniture.....	192
Liquor beverages.....	6,735
Fertilizers—all kinds.....	40
Paper, printed matter, books.....	275,016
Wood pulp.....	87,360
Fish (fresh, cured, etc.).....	241
Canned goods (all canned food products other than meat).....	3,330
Other manufactures and miscellaneous.....	44,491
Merchandise.....	61,384
	1,391,655

STATISTICS

Comparative Passenger and Freight Traffic Statement

				Passengers	Revenue
					\$ c.
Number of passengers carried during year	1905	.....	.....	86,648	108,681 76
" " " "	1906	.....	.....	359,861	254,759 33
" " " "	1907	.....	.....	518,678	388,343 03
" " " "	1908	.....	.....	479,005	366,504 53
" " " "	1909	.....	.....	580,748	483,110 89
" " " "	1910	.....	.....	670,913	606,967 91
" " " "	1911	.....	.....	479,102	653,063 01
" " " "	1912	.....	.....	497,452	599,681 73
" " " "	1913	.....	.....	508,055	576,049 37
" " " "	1914	.....	.....	535,869	544,820 08
" " " "	1915	.....	.....	480,995	482,349 80
" " " "	1916	.....	.....	485,759	624,808 12
" " " "	1917	.....	.....	499,759	655,127 58
" " " "	1918	.....	.....	436,984	647,162 91
" " " "	1919	.....	.....	525,714	853,363 52
" " " "	1920	.....	.....	609,879	1,021,079 95
" " " "	1921	.....	.....	685,928	1,223,387 14
" " " "	1922	.....	.....	633,491	1,097,394 03
" " " "	1923	.....	.....	708,144	1,273,807 69
" " " "	1924	.....	.....	725,922	1,369,045 61
" " " "	1925	.....	.....	664,242	1,150,278 18
" " " "	1926	.....	.....	634,320	1,180,543 65
" " " "	1927	.....	.....	647,740	1,248,100 25
" " " "	1928	.....	.....	637,145	1,277,950 61
" " " "	1929	.....	.....	549,973	1,063,426 10
" " " "	1930	.....	.....	516,816	997,649 44
				<hr/>	<hr/>
				14,159,142	20,747,456 22
				<hr/>	<hr/>
				Tons	Revenue
Number of tons of freight carried during year	1905	.....	.....	99,192	121,530 46
" " " "	1906	.....	.....	273,749	230,552 63
" " " "	1907	.....	.....	393,589	390,894 29
" " " "	1908	.....	.....	484,444	471,203 41
" " " "	1909	.....	.....	498,645	756,141 66
" " " "	1910	.....	.....	624,820	852,886 46
" " " "	1911	.....	.....	564,120	974,678 33
" " " "	1912	.....	.....	562,734	929,464 66
" " " "	1913	.....	.....	674,942	906,476 16
" " " "	1914	.....	.....	742,366	952,090 35
" " " "	1915	.....	.....	676,938	925,735 37
" " " "	1916	.....	.....	922,618	1,320,569 33
" " " "	1917	.....	.....	960,714	1,459,459 93
" " " "	1918	.....	.....	1,233,510	1,937,054 80
" " " "	1919	.....	.....	1,068,775	2,036,274 38
" " " "	1920	.....	.....	1,361,185	2,728,092 92
" " " "	1921	.....	.....	1,298,400	3,047,925 57
" " " "	1922	.....	.....	1,185,453	2,779,673 11
" " " "	1923	.....	.....	1,550,651	3,431,621 04
" " " "	1924	.....	.....	1,410,725	3,296,211 95
" " " "	1925	.....	.....	1,350,795	3,181,378 01
" " " "	1926	.....	.....	1,355,298	3,146,070 59
" " " "	1927	.....	.....	1,321,110	3,336,174 25
" " " "	1928	.....	.....	1,371,021	3,437,452 26
" " " "	1929	.....	.....	1,376,581	3,308,624 11
" " " "	1930	.....	.....	1,391,655	3,336,628 11
				<hr/>	<hr/>
				24,754,030	49,294,864 14
				<hr/>	<hr/>

NIPISSING CENTRAL RAILWAY COMPANY

Mileage Operated at the Close of the Fiscal Year 1930

Electric Lines

	Miles	Total Miles
Owned by Company:		
Main track.....	4.92	
Sinkings.....	1.78	
	<hr/>	6.70
Leased from T. & N. O. Railway:		
Main track.....	5.85	
Sidings.....	1.09	
	<hr/>	6.94
		<hr/>
		13.64

Steam Lines

Main track, Swastika to Noranda, Que.....	59.74	
Sidings and yard tracks.....	9.54	
	<hr/>	69.28
Private sidings under siding agreement.....	1.56	
Private sidings privately owned.....	1.02	
	<hr/>	2.58
		<hr/>
		71.86
Electric lines.....	13.64	
Steam lines.....	71.86	
	<hr/>	
Total.....	85.50	

PURCHASING AND STORES DEPARTMENT

Statement of Purchases and Issues, Fiscal Year 1929-1930

Stocks	1929		1930	
	Purchases	Issues	Purchases	Issues
Variou stocks.....	\$9,217 62	\$8,604 15	\$5,635 05	\$6,232 43
Total purchases.....	\$9,217 62	.....	\$5,635 05	.....
Total issues.....	8,604 15	.....	6,232 43	.....
	<hr/>	<hr/>
	\$17,821 77	.....	\$11,867 48	.....

NIPISSING CENTRAL RAILWAY
General Balance Sheet, October 31st, 1930

Assets	Liabilities
Property Owned:	
Cost of Road.....	Capital Stock.....
Cost of Equipment.....	T. & N. O. Railway Advance.....
\$4,329,415 40	\$159,000 00
83,002 63	4,464,469 65
<u>\$4,412,418 03</u>	
Current Assets:	Current Liabilities:
Cash.....	Audited Accounts.....
Accounts Collectible.....	Traffic Balances.....
Balance Due on Townsite Sales.....	Deferred Liabilities.....
Agents and Conductors.....	
Material and Supplies.....	
81,626 39	\$241,634 96
	42,097 13
	<u>\$283,732 09</u>
	835 00
Unadjusted Debits:	
Insurance Premiums Paid in Advance.....	
27 28	
Other Assets:	
Franchise.....	
\$1 00	
Profit and Loss—Balance.....	
413,964 04	
<u>413,965 04</u>	
<u>\$4,908,036 74</u>	<u>\$4,908,036 74</u>
Profit and Loss	
To Balance, October 31st, 1929.....	Result Operation for Fiscal Year ended October 31st, 1930:
\$427,067 83	Steam Lines.....
Profit and Loss on Retired Road and Equipment.....	Electric Lines.....
1,873 91	Deficit.....
	5,323 01
	By Balance, October 31st, 1930.....
	14,977 70
	413,964 04
	<u>\$428,941 74</u>

COMPARATIVE STATEMENT OF EARNINGS AND EXPENDITURES AND RESULT OF OPERATION, NOVEMBER 1st, 1928 TO OCTOBER 31st, 1930

STEAM LINES

REVENUE		Nov. 1st, 1929 to Oct. 31st, 1930	Nov. 1st, 1928 to Oct. 31st, 1929
TRANSPORTATION		\$ c.	\$ c.
101. Freight.....		150,721 90	122,269 65
102. Passenger.....		59,469 85	66,230 81
103. Excess baggage.....		643 53	540 49
106. Mail.....		1,505 64	1,509 64
109. Milk.....		113 20	291 50
110. Switching.....		598 40	810 80
111. Special service train.....		150 00	25 00
Total.....		<u>213,202 52</u>	<u>191,677 89</u>

INCIDENTAL

133. Station, train and boat privileges.....	15 90	5 72
135. Storage—freight.....	574 36	757 98
136. Storage—baggage.....	158 85	160 90
137. Demurrage.....		1,256 00
142. Rent of buildings and other property.....	3,325 45	2,290 80
143. Miscellaneous.....	287 00	204 00
Total.....	<u>4,361 56</u>	<u>4,675 40</u>
Total Revenue.....	<u>217,564 08</u>	<u>196,353 29</u>

EXPENDITURES

Maintenance of way and structures.....	63,878 80	59,891 82
Maintenance of equipment.....	2,862 76	14,358 01
Traffic.....	191 39	217 06
Transportation.....	128,378 94	130,103 09
General.....	155 10	77 52
Transportation for investment—Cr.....	44 60	37 04
Total Operating Expenses.....	<u>195,422 39</u>	<u>204,610 46</u>
BALANCE.....	22,141 69	Dr. 8,257 17

OTHER INCOME

Hire of freight cars.....		Dr. 19,825 80
Rent—locomotives.....		Dr. 1,770 50
Rent—passenger-train cars.....		Dr. 1,152 90
Miscellaneous rents.....	Dr. 120 00	Dr. 145 54
Taxes.....	Dr. 1,933 99	
Miscellaneous income.....	97 00	41 00
Interest and exchange.....	116 01	9 50
Total.....	<u>Dr. 1,840 98</u>	<u>Dr. 22,844 24</u>
NET RESULT.....	20,300 71	Dr. 31,101 41

**COMPARATIVE STATEMENT OF EARNINGS AND EXPENDITURES AND RESULT
OF OPERATION, NOVEMBER 1st, 1928 TO OCTOBER 31st, 1930**

ELECTRIC LINES

RECEIPTS		Nov. 1st, 1929 to Oct. 31st, 1930	Nov. 1st, 1928 to Oct. 31st, 1929
		\$ c.	\$ c.
I. REVENUE FROM TRANSPORTATION—			
101. Passenger revenue.....		47,106 67	48,099 31
102. Baggage revenue.....		519 89	752 37
103. Parlour, sleeping, dining and special car revenue...			54 20
108. Switching revenue.....		4,540 60	4,548 85
109. Miscellaneous transportation revenue.....		5 00	
Total.....		<u>52,172 16</u>	<u>53,454 73</u>
II. REVENUE FROM OTHER RAILWAY OPERATIONS—			
110. Station and car privileges.....		500 00	500 00
113. Demurrage.....		64 00	93 00
117. Rent of buildings and other property.....		568 00	574 33
119. Miscellaneous.....			3 54
Total.....		<u>1,132 00</u>	<u>1,170 87</u>
Total Revenue.....		<u>53,304 16</u>	<u>54,625 60</u>
EXPENDITURES			
I. Way and structures.....		11,816 90	11,430 15
II. Equipment.....		6,306 33	11,206 59
III. Power.....		14,898 04	14,655 59
IV. Conducting transportation.....		23,237 04	23,124 18
VI. General and miscellaneous.....		2,477 57	2,434 91
Total Operating Expenses.....		<u>58,735 88</u>	<u>62,851 42</u>
Balance.....	Dr.	5,431 72	Dr. 8,225 82
OTHER INCOME			
Interest.....		108 71	91 91
Total.....		<u>108 71</u>	<u>91 91</u>
NET RESULT.....	Dr.	<u>5,323 01</u>	Dr. <u>8,133 91</u>

Way and Structures

	Nov. 1st, 1929 to Oct. 31st, 1930	Nov. 1st, 1928 to Oct. 31st, 1929
	\$ c.	\$ c.
1. Superintendence of way and structures.....	209 10	180 00
2. Ballast.....	143 40	166 81
3. Ties.....	1,863 17	813 84
4. Rails.....	525 72	550 47
5. Rail fastenings and joints.....	84 58	72 34
6. Special work.....	47 88	76 95
8. Track and roadway labour.....	4,541 57	5,514 63
9. Miscellaneous track and roadway expenses.....	56 09	89 55
10. Paving.....	500 00	
12. Removal of snow and ice.....	1,597 01	1,441 53
15. Bridges, trestles and culverts.....	2 19	412 44
16. Crossings, fences and signs.....	282 75	111 38
18. Telegraph and telephone lines.....	99 72	24 91
20. Poles and fixtures.....	82 68	14 34
22. Distribution system.....	1,328 23	1,749 08
24. Buildings, fixtures and grounds.....	452 81	211 88
Total.....	<u>11,816 90</u>	<u>11,430 15</u>

Equipment

	Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929	
	\$	c.	\$	c.
29. Superintendence of equipment.....	545	70	484	00
30. Passenger and combination car.....	3,542	90	6,032	53
32. Service equipment.....	104	21	532	00
33. Electric equipment of cars.....	1,882	14	1,791	90
34. Locomotives.....	217	02	2,358	06
36. Shop equipment.....	.....	.....	2	12
37. Shop expenses.....	14	36	5	98
Total.....	6,306	33	11,206	59

Power

	Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929	
	\$	c.	\$	c.
45. Superintendence.....	240	00	240	00
48. Substation equipment.....	130	22	149	59
57. Substation employees.....	2,775	32	2,747	55
59. Power purchased.....	11,752	50	11,518	45
Total.....	14,898	04	14,655	59

Conducting Transportation

	Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929	
	\$	c.	\$	c.
63. Superintendence of transportation.....	1,020	00	1,018	90
64. Passenger conductors, motormen and trainmen.....	14,384	65	14,178	49
65. Freight and express conductors, motormen and trainmen.....	4,435	40	4,314	04
66. Miscellaneous car-service employees.....	.....	.....	4	70
67. Miscellaneous car-service expenses.....	811	44	1,036	62
69. Station expenses.....	519	29	557	60
70. Carhouse employees.....	1,632	68	1,593	67
71. Carhouse expenses.....	349	32	405	58
72. Operation of signal and interlocking apparatus.....	22	91	12	29
78. Other transportation expenses.....	61	35	2	29
Total.....	23,237	04	23,124	18

General and Miscellaneous

	Nov. 1st, 1929 to Oct. 31st, 1930		Nov. 1st, 1928 to Oct. 31st, 1929	
	\$	c.	\$	c.
84. Salaries and expenses of general office clerks.....	853	73	875	00
85. General office supplies and expenses.....	129	60	120	26
86. Law expenses.....	2	50	2	52
92. Injuries and damages.....	188	84	114	00
93. Insurance.....	341	68	486	28
94. Stationery and printing.....	361	22	223	85
97. Rent of tracks and facilities.....	600	00	600	00
98. Rent of equipment.....	.....	.....	13	00
Total.....	2,477	57	2,434	91

Twenty-Fifth Annual Report
OF THE
ONTARIO RAILWAY
AND
MUNICIPAL BOARD

To December 31st, 1930

PRESENTED TO THE LEGISLATIVE ASSEMBLY.
BY COMMAND

SESSIONAL PAPER No. 24, 1931



ONTARIO

TORONTO

Printed and Published by the Printer to the King's Most Excellent Majesty
1931

TO THE HONOURABLE WILLIAM DONALD ROSS,
Lieutenant-Governor of the Province of Ontario, in Council.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to transmit herewith the Twenty-fifth Report of The Ontario Railway and Municipal Board for the year ending, December 31st, 1930.

Respectfully submitted,

WILLIAM H. PRICE,
Attorney-General.

Parliament Buildings,
Toronto.

Parliament Buildings,
Toronto, March 5th, 1931.

DEAR SIR:

RE TWENTY-FIFTH ANNUAL REPORT

I have the honour to send you herewith the Twenty-fifth Annual Report of The Ontario Railway and Municipal Board to December 31st, 1930.

I have the honour to be,

Your obedient servant,

H. C. SMALL,
Secretary.

The Honourable the Attorney-General,
Parliament Buildings,
Toronto.

ORGANIZATION

The Organization of The Ontario Railway and Municipal Board of the Province of Ontario is as follows:

C. R. McKEOWN, K.C.....	<i>Chairman</i>
A. B. INGRAM.....	<i>Vice-Chairman</i>
J. A. ELLIS.....	<i>Commissioner</i>
H. C. SMALL.....	<i>Secretary</i>
F. DAGGER.....	<i>Supervisor of Telephone Systems</i>
J. A. McDONALD.....	<i>Inspector of Telephone Service</i>
W. C. COO.....	<i>Official Court Reporter</i>
W. B. BOYD.....	<i>Electrical Engineer</i>
E. A. CROSLAND.....	<i>Inspector of Street and Radial Railways</i>
G. A. BROWN.....	<i>Tariff Expert</i>

TWENTY-FIFTH ANNUAL REPORT
OF THE
Ontario Railway and Municipal Board
to December 31st, 1930

In pursuance of Section 56 of "The Railway and Municipal Board Act," The Ontario Railway and Municipal Board beg leave respectfully to submit their Twenty-fifth Annual Report.

SITTINGS OF THE BOARD

The Board held meetings for the transaction of routine business every juridical day throughout the year. The record of the sessions of the Board and an abstract of the proceedings, together with the Judgments or Opinions of the Board, appear in the Appendix.

In this connection it should be stated that about eighty per cent. of the Board's work is not conducted at the formal sessions of the Board shown in the abstract of proceedings above mentioned. This office work of the Board is transacted usually upon written applications and not in the way of formal hearing of parties interested. A classified abstract of the office work of the Board disposed of in the way of formal applications without hearing the parties will be found in the Appendix. In addition to this there is the usual office work of considering and replying to enquiries and other routine correspondence. A short reference is hereafter made, under different sub-headings, of the applications dealt with by the Board *ex parte* or without a formal hearing of the parties interested.

APPLICATIONS TO THE BOARD

There were 692 formal applications made to the Board in 1930. Of the formal applications all those in which the parties were ready to go to trial have been heard and disposed of, except in a few cases where adjournments were granted to the parties at the request of Counsel or in order to procure further evidence or to obtain reports from experts in connection with technical matters in question.

Some of the formal applications are still standing for trial, as in the more important matters the parties interested are showing an increasing disposition to take advantage of the opportunities afforded them by the Board's rules for obtaining discovery and production, thus, to some extent, delaying the final dates of the hearing of the applications, but in reality facilitating the final disposition at the hearings of all the matters in question between the parties.

LAW STAMPS

The amount of revenue collected by the Board in Law Stamps in the year 1930 was \$10,859.50. In 1925, the amount collected was \$7,262.00; in 1926, \$5,542.50; in 1927, \$6,688.60; in 1928, \$6,167.60, and in 1929, \$6,935.50.

PROVINCIAL RAILWAYS

An alphabetical list (under the names of the railway systems affected) of applications to the Board during 1930, affecting provincial railways, is contained in the Appendix to this Report.

Extensions of and improvements to Provincial Railways during 1930, as reported to the Board, will be found in the Appendix (arranged alphabetically) under the names of the several systems reporting.

A tabulation (arranged alphabetically) of railways under the Board's jurisdiction, will be found in the Appendix. This tabulation shows, for each railway, the lengths of first and second main track, total main track, sidings and turnouts, the total computed as single track, the length under construction, the number of power houses and whether steam or water and whence power obtained.

There will be found in the Appendix an analytical tabulated summary of Accidents Reports received by the Board for 1930, also a continuation (up to and inclusive of 1930) of the Board's index to Railway Legislation.

The Appendix also contains tables showing provincial aid to railways since Confederation, and an index to Legislation, Dominion and Provincial, since 1867, affecting railways in Ontario.

REPORTS TO THE HOUSE

In pursuance of Rule 72 of the House, the Board made enquiry into and reported upon four Financial Bills which were introduced last session into the Legislature. A reference to these Bills so reported will be found in the Appendix.

ANNEXATIONS OF TERRITORY

There were eight applications made in 1930 by urban municipalities for annexation of additional territory thereto. An alphabetical list of these annexation applications is contained in the Appendix.

VALIDATION OF MUNICIPAL DEBENTURES

..... (Section 304 of "The Municipal Act")

There were 151 applications to the Board under the above legislation in 1930, involving debentures of a total value of \$11,339,944.85. Acting under the powers conferred by such legislation the Board was able to grant relief in nearly all of these cases, included in which were 100 by-laws affected by irregularities which would otherwise have probably required special Acts of the Legislature to make the debentures thereunder valid and saleable.

Municipalities are showing an increasing disposition to have their by-laws and debentures validated under said section 304, even in cases where no irregularities occur requiring the curative powers of the Board thereunder, as they have found that such validation facilitates the marketing of their debentures.

The amount of debentures validated by the Board during 1925 was \$4,544,784.49; in 1926, \$2,689,309.24; in 1927, \$4,770,868.50; in 1928, \$4,726,726.17, and in 1929, \$5,762,002.06. An alphabetical list of these applica-

tions filed in 1930 is given in the Appendix and will be found indexed under the word "Validation."

ARBITRATIONS

In 1930 the Board officiated as Arbitrators in respect of five different references, three of which were made to it under "The Highway Improvement Act." The other references were in connection with expropriation proceedings under "The Niagara Parks Act" and "The Public Works Act."

ASSESSMENT APPEALS

There were two assessment appeals to the Board during the year 1930. The assessed value of the property affected by these appeals was over \$650,000.00. An alphabetical list of these assessment appeals is contained in the Appendix.

RAILWAY RETURNS

Annual Reports to December 31st, 1930, by Railway Companies under the Board's jurisdiction were received, of which a summarized tabulation has been prepared for publication herein, and will be found in the Appendix. The Board has no means of auditing the reports as received, and does not therefore represent or guarantee that the figures taken therefrom are correct or accurate. Heretofore these reports were copied and tabulated as received and published in the Board's Annual Report, this practice was discontinued for the first time in 1924.

ACCIDENTS

A tabulated summary of Accident Reports received by the Board from Provincial Railways during the year 1930 appears in the Appendix, and shows that 22 persons were killed and 899 injured during the year.

In 1925, 17 persons were killed and 666 injured; in 1926, 30 persons were killed and 710 injured; in 1927, 20 persons were killed and 761 injured; in 1928, 31 persons were killed and 848 injured, and in 1929, 30 persons were killed and 1,017 injured.

ONTARIO SAFETY LEAGUE

Early in 1913 the members of the Board called together representatives of various organizations which were specially interested in the question of street traffic. Representatives were sent from the Board of Trade, Canadian Manufacturers' Association, City Council, Ontario Motor League, Board of Education, Separate School Board, Toronto Railway Company, Toronto District Labour Council, Boy Scouts, Team Owners' Association, and many others. Every delegate realized that the question was one that dealt with actual dangers and concerted action must be taken. After numerous conferences the Ontario Safety League was organized on the 17th September, 1913. The League has since done much good and vitally useful work towards lessening the dangers of travel, especially on congested highways.

In addition to its provincial organization the League has become National in its organizations and operations. See summary of the League's 1930 campaign which appears in the Appendix.

PLANS

(Land Subdivisions)

Under "The Planning and Development Act" (Chapter 236, R.S.O. 1927); "The Land Titles Act" (Chapter 158, R.S.O. 1927, Section 110), and "The Registry Act" (Chapter 155, R.S.O. 1927, Section 80, Subsections 14 and 18), the Board considered during the year forty-seven applications for approval of plans, deeds of conveyance, etc. An alphabetical list of the owners of property in question in these applications will be found in the Appendix.

In 1925, fifty-nine such applications were considered, forty-four in 1926, thirty-five in 1927; thirty-eight in 1928 and fifty-three in 1929.

FORMS

The Board has (for distribution to parties interested) the following forms and specifications, namely:

- (1) The Board's Rules of Practice and Procedure and Practice Forms;
- (2) Regulations, Specifications and Forms respecting Railways;
- (3) Standard Specifications for Bridges, Viaducts, Trestles or other structures;
- (4) Pamphlet containing copy of "The Telephone Act," and with information regarding Provincial Telephone Systems, and including—
 - (a) Specifications for construction and equipment of telephone systems;
 - (b) Form of By-law providing for the establishment of a telephone system under Part II of "The Telephone Act";
 - (c) Form of By-law providing for the issue of debentures to pay for the cost of establishing a telephone system under Part II of "The Telephone Act";
 - (d) Form of By-law to regulate the management and operation of a telephone system established under Part II of "The Telephone Act";
 - (e) Form of Annual Report to be furnished to the subscribers to a telephone system established under Part II of "The Telephone Act";
 - (f) Sample form of Annual Report and Balance Sheet for telephone companies;
 - (g) Form of Account for use by telephone companies using the "Discount System of Collections";
 - (h) Form of Municipal Debentures—Instalment Plan;
 - (i) Form of Constitution and By-laws for a Telephone Company;
- (5) Forms of Petition praying for the establishment or extension of a telephone system under Part II of "The Telephone Act";
- (6) Forms of By-laws granting to a telephone company the right to use the highways of a township;
- (7) Regulations and specifications for telephone or telegraph wires crossing railway;
- (8) Form for Return by Municipality operating a Telephone System;
- (9) Form for Return by Company, etc., operating a Telephone System;
- (10) Form for Tariff of Tolls for Telephone System;
- (11) Forms under "The Planning and Development Act," with directions for guidance of applicants thereunder;

- (12) Forms for submission of a by-law or question to a poll, under "The Municipal Act";
- (13) Form for Money By-law;
- (14) Forms of affidavits in support of applications under Section 304 of "The Municipal Act";
- (15) Preliminary Resolution under Section 8 of "The Local Improvement Act";
- (16) Forms for Annual Reports by Railway Systems;
- (17) Forms for Reports as to Examination of Motormen;
- (18) Forms for Reports of Accidents by Railway Systems;
- (19) Regulation as to height of car steps;
- (20) Directions for guidance of applicants under subsection (2) of Section 399 of "The Municipal Act";
- (21) Tariff of the Board's Fees.

EXTENSION OF MUNICIPAL UTILITIES APPROVED UNDER SUBSECTION (2) OF SECTION 399 OF "THE MUNICIPAL ACT"

An alphabetical tabulation (under names of municipalities) of extensions to public utilities made by municipalities and approved by the Board under the above subsection (2) will be found in the Appendix, and is indexed under the word "Approval."

The total of the debenture issue under these By-laws approved in 1930 amounts to \$3,884,176.37. In 1925, the total debenture issue was \$1,347,941.30; in 1926, \$2,378,030.70; in 1927, \$3,588,709.73; in 1928, \$1,820,244.87, and \$2,425,528.34 in 1929. This of course does not cover extensions made under By-laws approved by the ratepayers, but only under By-laws approved by the Board under the above subsection (2).

MISCELLANEOUS MATTERS UNDER THE BOARD'S JURISDICTION

A classified analysis of miscellaneous matters dealt with under the jurisdiction of the Board will be found in the Appendix. These include Annexations, under "The Municipal Act"; Arbitrations, Assessment Appeals, under Section 83 of "The Assessment Act"; Financial and other Bills reported to the House under Rule 72; Bridges, relief from reconstruction of, under Section 469 (9) of "The Municipal Act"; Detachment of Farm lands from Town or Village, under Section 21 of "The Municipal Act"; Extension of Debenture Issue Period, under Section 296 (11) and (12) of "The Municipal Act"; Extension of Time to pass By-laws, under Section 288 (5) of "The Municipal Act"; Highways (narrow), approved under Section 490 (2) of "The Municipal Act"; Highways, Suburban, establishing, closing, etc., under Section 12 of "The Planning and Development Act"; Interest Increase and Interest Decrease By-laws, approved under Section 300 of "The Municipal Act"; Legislation (Special), approval of By-laws under; License Fee, approval of By-laws, under Section 411 (9) of "The Municipal Act"; Local Improvements, Objections against, under Section 6 of "The Local Improvement Act"; Local Improvements, Petitions against, under Section 8 of "The Local Improvement Act"; Local Improvements, abandonment of part of work, under Section 18 of "The Local Improvement Act"; Deviation in course or location of highway, approval of By-laws under Section 19 of "The Local Improvement Act"; Apportionment of cost of Local Improvement Work, approval of By-

laws under Section 26 (3) of "The Local Improvement Act"; "Northern Fire Relief Act," applications under; "The Railway and Municipal Board Act" (Chapter 225 R.S.O. 1927); applications under; Parks, setting aside part of for athletic purposes, under Section 12 of "The Public Parks Act" (Chapter 248, R.S.O. 1927); Repeal of Money By-laws as to residue not required, approval of, under Section 301 (2) of "The Municipal Act"; Restrictions as to use of land or buildings, etc., approval of, under Section 398 of "The Municipal Act"; Sewage and Sewage Disposal Works, applications for directions and compensation in respect of, under Section 95 of "The Public Health Act"; Sinking Funds, approval of investment of, under Section 317 of "The Municipal Act"; Tax Rate, approval of further debt, under Section 306 (2) of "The Municipal Act"; Police Villages, Formation of, under Sections 514 (3) and 517 of "The Municipal Act"; Wards, division of Cities, etc., into, under Section 44 of "The Municipal Act"; Waterworks Areas and Construction (special legislation); Weigh Scales and Weighing of Coal, approval of, under Section 400 of "The Municipal Act"; and Works ordered by Dominion and Ontario Railway Boards, approval of By-laws for, under Section 297 (2) (f) of "The Municipal Act."

PUBLIC UTILITIES

We have the honour to submit analyses of Reports for the year ending December 31st, 1930, upon railway operation in the Province of Ontario under the jurisdiction of the Board.

We submit also tabulated analytical statements prepared from the Annual Reports received from Provincial Railways, and showing the financial position and the operating details of such railways for the year 1930.

H. C. SMALL, *Secretary.*

REPORT OF THE SUPERVISOR OF TELEPHONE SYSTEMS FOR THE YEAR 1930

The following applications under the provisions of "The Telephone Act" were dealt with by the Board in 1930:

Under Section 7: For authority to issue debentures for extensions and improvements to telephone systems under Part I.	1
Under Section 17: For authority to extend a municipal telephone system into another township.	1
Under Section 19: For the approval of municipal by-laws providing for the establishment of telephone systems.	3
Under Section 24: For the approval of municipal debenture by-laws to meet the cost of establishing or extending telephone systems.	15
Under Section 25: For an extension of the period within which municipal debenture by-laws respecting telephone systems may be passed.	1
Under Section 27: For authority to pass municipal debenture by-laws to meet the cost of reconstructing, replacing or altering telephone systems	2
Under Section 30: For authority to meet a portion of debenture payments each year by the issue of new debentures.	2
Under Section 31: For the approval of the purchase of an existing telephone system by a municipality.	3
Under Section 80: For the approval of municipal by-laws granting the right to erect poles and wires upon the highways.	12

Under Section 84: For the right to erect poles and wires upon the highways in unorganized territory.....	2
Under Section 88: For the approval of the by-laws of a telephone company	4
Under Section 90: For an order requiring the reconstruction of a telephone system to ensure the provision of an efficient service.....	3
Under Section 93: For the consent to erection of poles and wires parallel with existing lines.....	4
Under Section 94: For an order preventing the duplication of pole leads upon the same highway.....	2
Under Section 95: For an order fixing the terms and conditions for furnishing service.....	3
Under Section 97: For the approval of agreements providing for interchange of service.....	34
Under Section 102: For the approval of the sale of telephone systems.....	4
Under Section 103: For authority to increase the charges for telephone service.....	8
Under Section 110: For authority to expend a portion of the moneys set aside for depreciation upon new construction or extensions or in the purchase of securities.....	10
Under Section 111: For authority to issue stocks and bonds.....	4
<hr/>	
Total number of applications.....	118

The Board or its Supervisor of Telephone Systems during the year visited fifty-seven different points in the Province in connection with the foregoing applications.

The continued policy of the Board in endeavouring to secure an amicable settlement of matters in dispute between the applicant and respondent has, with the assistance of the Board's Supervisor, proved successful in the majority of such cases.

In addition to the applications and complaints referred to, a vast amount of correspondence relating to telephone matters has been dealt with by the Board's Supervisor, through the medium of which much information and assistance has been given to municipalities, companies and other persons interested, and many difficulties which might otherwise have necessitated a formal application and public hearing have been satisfactorily adjusted.

A number of points were visited by the Board's Inspector of Telephone Service during the year for the purpose of investigating complaints made by subscribers, and upon his report and recommendation the Board has been enabled to secure considerable improvement in the telephone service furnished by the systems coming under his observation.

The following changes in the ownership of telephone systems were made during the year.

The Southern Ontario Telephone Company, Limited, purchased the undertakings of:

The Norfolk County Telephone Company, Limited, comprising 2,054 telephones.

The Erie Telephone Company, Limited, comprising 1,695 telephones.

The South Norfolk Telephone Company, Limited, comprising 268 telephones.

The Chapleau Telephone System, Limited, purchased from The Bell Telephone Company of Canada the telephone system (automatic) at Chapleau, comprising 315 telephones.

Leslie Davis, trading as The Rankin Telephone Company, purchased from The Bell Telephone Company of Canada the local telephone system in Douglas, comprising 35 telephones.

Frank Lyons purchased from John Myers the Ardoch Rural Telephone System, comprising 56 telephones.

James J. Vogan purchased from John D. Flake the Kaladar and Northern Telephone System, comprising 41 telephones.

The Municipality of Burpee (Manitoulin Island), purchased the telephone systems of the Elizabeth Bay Mutual Telephone Company (unincorporated) and the Evansville Mutual Telephone Company (unincorporated), comprising 33 telephones.

New systems were established, as follows:

By the Municipality of the Township of East Ferris, District of Nipissing, to be known as "The East Ferris Municipal Telephone System."

By the Municipality of the Township of Burpee, District of Manitoulin, to be known as "The Burpee Municipal Telephone System."

The number of telephone systems within the jurisdiction of Ontario of which the Board has record is 608 operating approximately 115,000 telephones, and representing an investment of about \$10,400,000.

There are eleven systems owned and operated by municipalities under the provisions of Part I of the Act, viz.: the Cities of Fort William and Port Arthur, the Towns of Cochrane, Dryden, Fort Frances, Kenora, Keewatin and Rainy River, and the Townships of Alberton, Caledon and Hilliard.

One hundred and eighteen systems are now established and operating under Part II of the Act, and furnishing service in two hundred and sixty-seven towns, villages and townships.

Detailed statistics and other information relative to these systems will be found in the Appendix to this Report, entitled "Telephone Systems, 1931."

FRANCIS DAGGER,
Supervisor of Telephone Systems.

APPENDIX

PROCEDURE FILES A-1578, A-1628 AND A-1629

In the matter of the application of the Corporation of the City of London, for an Order approving of By-laws of the City of London Numbered 8702-27, 8722-28, 8738-28, 8764-28 and 8767-28.

June 4th—Draft Order filed.

June 17th—Order issued.

June 17th, 1930.

ORDER

Upon the application of the Corporation of the City of London, for the approval, under the provisions of Section 398 of "The Municipal Act," of The Ontario Railway and Municipal Board of the following By-laws, namely: By-law

Number 8702-27 passed by the Council of the Corporation of the City of London on the sixth day of December, A.D. 1927; By-law Number 8722-28 to amend said By-law Number 8702-27, passed by the Council of the Corporation of the City of London on the third day of January, A.D. 1928; By-law Number 8738-28 to amend said By-law Number 8702-27, passed by the Council of the Corporation of the City of London on the seventh day of February, A.D. 1928; By-law Number 8764-28 to amend said By-law Number 8702-27, passed by the Council of the Corporation of the City of London on the nineteenth day of March, A.D. 1928, and By-law Number 8767-28 to amend said By-law Number 8702-27, passed by the Council of the Corporation of the City of London on the nineteenth day of March, A.D. 1928, and it having been proved that notice of the appointment of the Board for the hearing of the said application was duly given as required by the said Act, and the Board having heard the Council of the Corporation of the City of London and all other persons who attended and desired to be heard,

The Board orders that the said By-laws numbered 8702-27, 8722-28, 8738-28, 8764-28 and 8767-28 be, and they are hereby, approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-1772

Application by the City of Toronto, under Section 343 (3) of "The Municipal Act," for approval of its By-law No. 11716, amending its By-law No. 9416 by excluding therefrom certain lands at 210 Bloor Street East, on which encroach certain verandah piers.

March 20th. Hearing, pursuant to arrangement, 10.30 to 10.45 A.M., at Board's Chambers. Mr. Campbell (Assistant City Solicitor) states By-law No. 11716 has been repealed by Toronto City Council. Application dismissed by consent of Counsel. City to pay \$20.00 for Law Stamps.

April 3rd. Approved Draft Order filed.

April 4th. Order issued.

March 20th, 1930.

ORDER

Upon the application of the Corporation of the City of Toronto, under subsection (3) of Section 343 of "The Municipal Act," for approval of its By-law Number 11716, and upon hearing Counsel for all parties on the 4th day of July, 1928, when the application was adjourned *sine die*, and upon the application of James Edward Squirrell on the 20th day of March, 1929, and upon hearing Counsel for the said James Edward Squirrell and the Corporation of the City of Toronto.

The Board orders that this application be and the same is hereby dismissed.

And the Board makes no Order as to costs except that the Applicant, the Corporation of the City of Toronto, pay \$20.00 for Law Stamps, the Board's tariff fee herein.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-1782

Application by Town of Rainy River, under Section 20 of "The Municipal Act," for annexation thereto of part of the Township of Atwood.

November 28th. Further material filed. (No objections.)

November 28th. Draft Order filed.

November 28th. Order.

November 28th, 1930.

ORDER

1. Upon the application of the said Municipality, and upon reading the Declaration of Evander E. Jess, the Clerk thereof, and the Notice of this Application published in three issues of the Rainy River "Record," a newspaper published in the said Town of Rainy River, and upon reading the Consent of the Municipal Council of the Township of Atwood duly filed, and no objections to this Order having been filed, as appears by said Declaration of the said Evander E. Jess.

2. This Board orders and proclaims that the boundaries of the Town of Rainy River be extended by adding thereto the following land and land covered with water:

Commencing at the southeast angle of the Incorporated Town of Rainy River, said angle being at the intersection of the east boundary of River Lot Number Twelve in the Township of Atwood with the water's edge of Rainy River; thence south along the production of the said east boundary, sixteen chains and fifty links, more or less to the International boundary between the Province of Ontario in the Dominion of Canada and the State of Minnesota, one of the United States of America. Thence westerly along the said International boundary to its intersection with the production, south of the west boundary of River Lot Number Twenty-six; thence north long the said production, twelve chains, more or less to the southwest angle of the said Incorporated Town, said angle being at the water's edge of Rainy River; thence, easterly upstream, following the said water's edge to the place of beginning,

as shown on a plan of the said Town of Rainy River hereto annexed, made by D. J. Gillon, Esquire, Ontario Land Surveyor, the said addition being shown therein bounded by red.

And it is ordered, that the Board's tariff fee for Law Stamps herein is \$10.00.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-1843

In the matter of the Petition of A. H. Burrows and others, under Section 20 (1) of "The Municipal Act," for annexation to the Town of Timmins of part of the Township of Tisdale, being composed of part Lot 12, Concession II, containing 16 3/10ths of an acre, more or less, and shown on Plan M-60, Temiskaming, District of Cochrane.

March 10th. Draft Order filed.

March 12th. Order issued.

October 8th. Rehearing, 7.30 to 8.15 P.M., Town Hall, Timmins. Draft Order to be submitted.

November 29th. Approved Draft Order filed.
December 1st. Order issued.

April 30th, 1929.

ORDER

Upon reading the petition of the municipal electors in the area to be annexed; the resolution of the Council of the Municipal Corporation of the Town of Timmins; the Surveyor's certificate and sketch; and the other material filed, and public notice of this application having been duly given as directed by the Board.

And upon hearing Counsel for the Municipal Corporation of the Town of Timmins and for the Municipal Corporation of the Township of Tisdale and no one appearing to object to said annexation.

1. This Board doth order, proclaim and adjudge that:

All and singular that certain parcel or tract of land and premises as shown on Plan M. 60, Temiskaming and on file in the Land Titles Office at Cochrane and being composed of part of Lot Twelve in the Second Concession of the Township of Tisdale, in the District of Cochrane and in the Province of Ontario, containing by admeasurement Sixteen and Three-tenths acres more or less and which part or tract of land may be more particularly described as follows:

Commencing at a point on the westerly limit of said Lot Twelve and distant three thousand nine hundred and sixty-three feet and eight and one-quarter inches ($3,963' 8\frac{1}{4}''$) more or less from the northwest angle of said lot; thence north eighty-nine (89) degrees and forty-three (43) minutes east one hundred and ninety-nine feet eight and a half inches ($199' 8\frac{1}{2}''$); thence east astron. one thousand one hundred and eighteen feet ($1,118'$) more or less to the westerly limit of the property shown on Plan M. 2, Temiskaming; thence north three (3) minutes west along said westerly limit two hundred and eighty feet and ten inches ($280' 10''$) more or less to the southerly limit of property as shown on Plan M. 44, Temiskaming, thence west astron. three hundred and six feet ($306'$) more or less; thence north three (3) minutes west along said property three hundred and thirty-six feet more or less ($336' 0''$); thence west astron. along the southerly limit of said property as shown on Plan M. 44, Temiskaming, a distance of one thousand and nine feet and ten and a half inches ($1,009' 10\frac{1}{2}''$) more or less to the westerly limit of Lot Twelve, thence south six minutes (6) west along said westerly limit six hundred and twenty-three feet three and a quarter inches ($623' 3\frac{1}{4}''$) more or less to the point of commencement. Be and the same are hereby annexed to the Municipal Corporation of the Town of Timmins as and from the first day of January, 1929.

2. And this Board doth further order, proclaim and adjudge that the said town with the annexed territory hereinbefore mentioned shall continue to be known as Municipal Corporation of the Town of Timmins.

3. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins be and the same is hereby authorized to levy for the year 1929 taxes upon all taxable real property in the area hereby annexed and upon all taxable income of persons resident in said area;

Provided that the general rate for the said area for the year 1929 shall be the general rate for the Town of Timmins as constituted for the year 1929;

Provided that the Municipal Corporation of the Township of Tisdale be and the same is hereby authorized and directed to deliver to the Municipal Corporation of the Town of Timmins the Assessment Roll for the said area prepared by the Municipal Corporation of the Township of Tisdale for the year 1929 forthwith after revision of same;

Provided that the said Revised Assessment Roll of the said area prepared for the year 1929 by the Municipal Corporation of the Township of Tisdale shall be the roll to be used for the purpose of the levy of taxes aforesaid.

4. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Township of Tisdale be and the same is hereby authorized and directed to deliver to the Municipal Corporation of the Town of Timmins a true and proper statement of all arrears of taxes for the area hereby annexed and the Municipal Corporation of the Town of Timmins is hereby authorized to collect same and shall account for same to the Municipal Corporation of the Township of Tisdale if as and when same are collected.

5. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Township of Tisdale do forthwith convey and transfer to the Municipal Corporation of the Town of Timmins all lands in the area hereby annexed belonging to and/or the property of the Municipal Corporation of the Township of Tisdale subject to Section 39 of "The Municipal Act," R.S.O. 1927, Chapter 233.

6. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins shall raise in each of the years 1929 to 1947, inclusive the sum of \$627.60 being a proportionate share of the amount required to be raised annually by the Municipal Corporation of the Township of Tisdale to retire the debenture debt created by the Municipal Corporation of the Township of Tisdale by By-law Number 351 of said township, being a By-law to provide for the borrowing of \$40,000.00 by the said township upon debentures to pay for the construction of certain extensions to the water-works and sewage systems in said township, the said amount of \$627.60 being the amount required to be raised annually to pay for the cost of water-works extensions in the area hereby annexed.

Provided that the Municipal Corporation of the Town of Timmins shall raise and levy the said sum of \$627.60 annually as aforesaid by a special rate sufficient therefor over and above all other rates on all the rateable property in the said Municipal Corporation of the Town of Timmins at the same time and in the same manner as other rates and said sum of \$627.60 shall be paid yearly during the years aforesaid to the Municipal Corporation of the Township of Tisdale.

7. And this Board doth further order, proclaim and adjudge that neither the said Municipal Corporation of the Town of Timmins nor the Municipal Corporation of the Township of Tisdale shall have any claim or demand against the other arising out of the cost of maintaining law and order or providing fire protection or snow plowing or assessing and preparing assessment roll or performing scavenger services in the area hereby annexed from the first day of January, 1929, to the date of the signing of this Order.

(Seal)

(Sgd.) A. B. INGRAM,

Vice-Chairman.

October 8th, 1930.

ORDER

This matter having come on for hearing at Timmins on Tuesday, the 30th day of April, A.D. 1929, and upon reading the Petition of the municipal electors in the area to be annexed; the Resolution of the Council of the Municipal Corporation of the Town of Timmins; the Surveyor's Certificate and Sketch; and the other material filed, and public notice of this application having been duly given as directed by the Board;

And upon hearing Counsel for the Municipal Corporation of the Town of Timmins, and for the Municipal Corporation of the Township of Tisdale, and on one appearing to object to said annexation;

And an application having been made to reopen this matter and the said application having come on for hearing at Timmins this 8th day of October, 1930.

1. This Board doth order, proclaim and adjudge that:

All and singular that certain parcel or tract of land and premises as shown on Plan M. 60, Temiskaming, and on file in the Land Titles Office at Cochrane, and being composed of part of Lot Twelve in the Second Concession of the Township of Tisdale, in the District of Cochrane, and in the Province of Ontario, containing by admeasurement sixteen and three-tenths acres more or less and which part of tract of land may be more particularly described as follows:

Commencing at a point on the westerly limit of said Lot Twelve and distant three thousand nine hundred and sixty-three feet and eight and one-quarter inches ($3,963' 8\frac{1}{4}''$) more or less from the northwest angle of said lot; thence north eighty-nine (89) degrees and forty-three (43) minutes east one hundred and ninety-nine feet and eight and a half inches ($199' 8\frac{1}{2}''$); thence east astronomically one thousand one hundred and eighteen feet ($1,118'$) more or less to the westerly limit of the property shown on Plan M. 2, Temiskaming; thence north three (3) minutes west along said westerly limit two hundred and eighty feet and ten inches ($280' 10''$) more or less to the southerly limit of property as shown on Plan M. 44, Temiskaming; thence west astronomically three hundred and six feet ($306'$) more or less; thence north three (3) minutes west along said property three hundred and thirty-six feet more or less ($336' 0''$); thence west astronomically along the southerly limit of said property as shown on Plan M. 44, Temiskaming, a distance of one thousand and nine feet and ten and a half inches ($1,009' 10\frac{1}{2}''$) more or less to the westerly limit of Lot Twelve; thence south six minutes (6) west along said westerly limit six hundred and twenty-three feet three and a quarter inches ($623' 3\frac{1}{4}''$) more or less to the point of commencement, be, and the same are hereby annexed to the Municipal Corporation of the Town of Timmins as and from the first day of January, 1929.

2. And this Board doth further order, proclaim and adjudge that the said town, with the annexed territory hereinbefore mentioned shall continue to be known as the Municipal Corporation of the Town of Timmins.

3. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins be and the same is hereby authorized to levy for the year 1929 taxes upon all taxable real property in the area hereby annexed and upon all taxable income of persons resident in said area.

Provided that the general rate for the said area for the year 1929 shall be the general rate for the Town of Timmins as constituted for the year 1929.

Provided that the Municipal Corporation of the Township of Tisdale be and the same is hereby authorized and directed to deliver to the Municipal Corporation of the Town of Timmins the Assessment Roll for the said area prepared by the Municipal Corporation of the Township of Tisdale for the year 1929 forthwith after revision of same.

Provided that the said Revised Assessment Roll of the said area prepared for the year 1929 by the Municipal Corporation of the Township of Tisdale shall be the roll to be used for the purpose of the levy of taxes aforesaid.

4. And this Board doth further order, proclaim and adjudge, that the Municipal Corporation of the Township of Tisdale be and the same is hereby authorized and directed to deliver to the Municipal Corporation of the Town of Timmins a true and proper statement of all arrears of taxes for the area hereby annexed and the Municipal Corporation of the Town of Timmins is hereby authorized to collect same and shall account for same to the Municipal Corporation of the Township of Tisdale if as and when same are collected.

5. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Township of Tisdale do forthwith convey and transfer to the Municipal Corporation of the Town of Timmins all lands in the area hereby annexed belonging to and/or the property of the Municipal Corporation of the Township of Tisdale subject to Section 39 of "The Municipal Act," R.S.O. 1927, Chapter 233.

6. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins shall raise in each of the years 1929 to 1947, inclusive, the sum of \$209.20, being a proportionate share of the amount required to be raised annually by the Municipal Corporation of the Township of Tisdale to retire the debenture debt created by the Municipal Corporation of the Township of Tisdale by By-law Number 351 of said township, being a By-law to provide for the borrowing of \$40,000.00 by the said township upon debentures to pay for the construction of certain extensions to the waterworks and sewage systems in the said township, the said amount of \$209.20 being the amount required to be raised annually to pay for sewers for which the area hereby annexed is liable.

Provided that the Municipal Corporation of the Town of Timmins shall raise and levy the said sum of \$209.20 annually as aforesaid by a special rate sufficient therefor over and above all other rates on all the rateable property in the area hereby annexed at the same time and in the same manner as other rates and said sum of \$209.20 shall be paid yearly during the years aforesaid to the Municipal Corporation of the Township of Tisdale.

Provided that during the said years from 1929 to 1947, inclusive, the ratepayers in the area hereby annexed shall not be required to contribute to the cost of sewers constructed in any other part of the Municipal Corporation of the Town of Timmins, except for which the Town of Timmins at large would be liable to pay for in which case the ratepayers in the area hereby annexed shall be liable to contribute their proportionate share of the cost.

7. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins shall raise in each of the years 1929 to 1947, inclusive, from and out of the revenue derived from the waterworks system of the said Town of Timmins the sum of \$418.40, being a proportionate share of the amount required to be raised annually by the Municipal Corporation of the Township of Tisdale to retire the debenture debt created by

the said Township of Tisdale by the aforesaid By-law Number 351 of said township the said sum of \$418.40, being the amount required to be raised annually to pay for the cost of waterworks extensions in the area hereby annexed. The said sum of \$418.40 shall be paid yearly during the years aforesaid to the Municipal Corporation of the Township of Tisdale.

8. And this Board doth further order, proclaim and adjudge that neither the said Municipal Corporation of the Town of Timmins nor the Municipal Corporation of the Township of Tisdale shall have any claim or demand against the other arising out of the cost of maintaining law and order or providing fire protection or snow plowing or assessing and preparing Assessment Roll or performing scavenger services in the area hereby annexed from the first day of January, 1929, to the date of the signing of this Order.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-1849

In the matter of the Petition of J. Ostrowski and others, under Section 20 (1) of "The Municipal Act," for annexation to the Town of Timmins of the southeast quarter of the south half and the southwest quarter of the south half of Lot 12, Concession III of the Township of Tisdale.

March 10th. Draft Order filed.

March 12th. Order issued.

October 8th. Rehearing, 7.30 to 8.15 P.M., Town Hall, Timmins. Draft Order to be submitted.

November 29th. Approved draft Order filed.

December 1st. Order issued.

April 30th, 1929.

ORDER

Upon reading the Petition of the municipal electors in the area to be annexed; the Resolution of the Council of the Municipal Corporation of the Town of Timmins; the Surveyor's Certificate and Sketch; and the other material filed, and public notice of this application having been duly given as directed by the Board;

And upon hearing objections made by James P. Bartleman on behalf of himself and on behalf of J. P. McLaughlin and Rocco Banino, and Counsel for the Municipal Corporation of the Town of Timmins and for the Municipal Corporation of the Township of Tisdale.

1. This Board doth order, proclaim and adjudge that:

All and singular these certain parcels or tracts of land situate lying and being in the Township of Tisdale in the District of Cochrane and being composed of the southeast quarter of the south half and the southwest quarter of the south half of Lot Number Twelve in the Third Concession of the Township of Tisdale, be and the same are hereby annexed to the Municipal Corporation of the Town of Timmins as and from the first day of January, 1929.

2. And this Board doth further order, proclaim and adjudge that the said town with the annexed territory hereinbefore mentioned shall continue to be known as the Municipal Corporation of the Town of Timmins.

3. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins be and the same is hereby authorized to levy for the year 1929 taxes upon all taxable income of persons resident in said area;

Provided that the general rate for the said area for the year 1929 shall be the general rate for the Town of Timmins as constituted for the year 1929;

Provided that the Municipal Corporation of the Township of Tisdale be and the same is hereby authorized and directed to deliver to the Municipal Corporation of the Town of Timmins the Assessment Roll for the said area prepared by the Municipal Corporation of the Township of Tisdale for the year 1929, forthwith after the revision of same;

Provided that the said Revised Assessment Roll of the said area prepared for the year 1929 by the Municipal Corporation of the Township of Tisdale shall be the roll to be used for the purpose of the levy of taxes aforesaid.

4. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Township of Tisdale be and the same is hereby authorized and directed to deliver to the Municipal Corporation of the Town of Timmins a true and proper statement of all arrears of taxes for the area hereby annexed and the Municipal Corporation of the Town of Timmins is hereby authorized to collect same and shall account for same to the Municipal Corporation of the Township of Tisdale if as and when same are collected.

5. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Township of Tisdale do forthwith convey and transfer to the Municipal Corporation of the Township of Tisdale all lands in the area hereby annexed belonging to and/or the property of the Municipal Corporation of the Township of Tisdale subject to Section 39 of "The Municipal Act," R.S.O. 1927, Chapter 233.

6. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins shall raise in each of the years 1929 to 1947, inclusive, the sum of \$753.12, being a proportionate share of the amount required to be raised annually by the Municipal Corporation of the Township of Tisdale to retire the debenture debt created by the Municipal Corporation of the Township of Tisdale by By-law Number 351 of said township being a by-law to provide for the borrowing of \$40,000.00 by the said township upon debentures to pay for the construction of certain extensions to the waterworks and sewage systems in said township the said amount of \$753.12, being the amount required to be raised annually to pay for the cost of waterworks extensions in the area hereby annexed.

And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins shall raise in each of the years 1929 to 1940, inclusive, the sum of \$823.70, being a proportionate share of the amount required to be raised annually by the Municipal Corporation of the Township of Tisdale to retire the debenture debt created by the Municipal Corporation of the Township of Tisdale by By-law Number 310 of said township being a by-law to provide for the borrowing of \$125,000.00 by the said township upon debentures to pay for the construction of certain watermains and sewers in said township the said amount of \$823.70 being the amount required to be raised annually to pay for the cost of watermains and sewers in the area hereby annexed.

Provided that the Municipal Corporation of the Town of Timmins shall raise and levy the said sums of \$753.12 and \$823.70 annually as aforesaid by a special rate sufficient therefor over and above all other rates on all the rateable property in the said Municipal Corporation of the Town of Timmins at the same time and in the same manner as other rates and said sums of \$753.12 and \$823.70 respectively shall be paid yearly during the years aforesaid to the Municipal Corporation of the Township of Tisdale.

7. And this Board doth further order, proclaim and adjudge that neither the said Municipal Corporation of the Town of Timmins nor the Municipal Corporation of the Township of Tisdale shall have any claim or demand against the other arising out of the cost of maintaining law and order or providing fire protection or snow plowing or assessing and preparing assessment rolls or performing scavenger services in the area hereby annexed from the first day of January, 1929, to the date of the signing of this Order.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

October 8th, 1930.

ORDER

This matter having come on for Hearing at Timmins on Tuesday, the 30th day of April, A.D. 1929, and upon reading the Petition of the municipal electors in the area to be annexed; the Resolution of the Council of the Municipal Corporation of the Town of Timmins; the Surveyor's Certificate and Sketch; and the other material filed, and public notice of this application having been duly given as directed by the Board;

And upon hearing objections made by James P. Bartleman on behalf of himself and on behalf of J. P. McLaughlin and Rocco Banino, and Counsel for the Municipal Corporation of the Town of Timmins and for the Municipal Corporation of the Township of Tisdale;

And an application having been made to reopen this matter and the said application having come on for hearing at Timmins this 8th day of October, 1930,

1. This Board doth order, proclaim and adjudge that:

All and singular those certain parcels or tracts of land situate, lying and being in the Township of Tisdale in the District of Cochrane and being composed of the southeast quarter of the south half and the southwest quarter of the south half of Lot Number Twelve in the Third Concession of the Township of Tisdale, be and the same are hereby annexed to the Municipal Corporation of the Town of Timmins as and from the first day of January, 1929.

2. And this Board doth further order, proclaim and adjudge that the said town with the annexed territory hereinbefore mentioned shall continue to be known as the Municipal Corporation of the Town of Timmins.

3. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins be and the same is hereby authorized to levy for the year 1929 taxes upon all the taxable real property in the area hereby annexed and upon all taxable income of persons resident in said area;

Provided that the general rate for the said area for the year 1929 shall be the general rate for the Town of Timmins as constituted for the year 1929;

Provided that the Municipal Corporation of the Township of Tisdale be and the same is hereby authorized and directed to deliver to the Municipal Corporation of the Town of Timmins the Assessment Roll for the said area prepared by the Municipal Corporation of the Township of Tisdale for the year 1929, forthwith after the revision of same;

Provided that the said revised Assessment Roll for the said area prepared for the year 1929 by the Municipal Corporation of the Township of Tisdale shall be the roll to be used for the purpose of the levy of taxes aforesaid.

4. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Township of Tisdale be and the same is hereby authorized and directed to deliver to the Municipal Corporation of the Town of Timmins a true and proper statement of all arrears of taxes for the area hereby annexed and the Municipal Corporation of the Town of Timmins is hereby authorized to collect same and shall account for same to the Municipal Corporation of the Township of Tisdale if as and when same are collected.

5. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Township of Tisdale do forthwith convey and transfer to the Municipal Corporation of the Town of Timmins all lands in the area hereby annexed belonging to and/or the property of the Municipal Corporation of the Township of Tisdale subject to Section 39 of "The Municipal Act," R.S.O. 1927, Chapter 233.

6. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins shall raise in each of the years 1929 to 1947, inclusive, the sum of \$251.04, being a proportionate share of the amount required to be raised annually by the Municipal Corporation of the Township of Tisdale to retire the debenture debt created by the Municipal Corporation of the Township of Tisdale by By-law Number 351 of said township, being a by-law to provide for the borrowing of \$40,000.00 by the said township upon debentures to pay for the construction of certain extensions to the water-works and sewage systems in said township, the said amount of \$251.04, being the amount required to be raised annually to pay for the cost of sewers in the area hereby annexed.

And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins shall raise in each of the year 1929 to 1940, inclusive, the sum of \$274.57, being a proportionate share of the amount required to be raised annually by the Municipal Corporation of the Township of Tisdale to retire the debenture debt created by the Municipal Corporation of the Township of Tisdale by By-law Number 310 of said township, being a by-law to provide for the borrowing of \$125,000.00 by the said township upon debentures to pay for the construction of certain watermains and sewers in said township the said amount of \$274.57, being the amount required to be raised annually to pay for the cost of sewers in the area hereby annexed.

Provided that the Municipal Corporation of the Town of Timmins shall raise and levy the said sums of \$251.04 and \$274.57 annually as aforesaid by a special rate sufficient therefor over and above all other rates on all the rateable property in the area hereby annexed at the same time and in the same manner as other rates and said sums of \$251.04 and \$274.57 respectively shall be paid yearly during the years aforesaid to the Municipal Corporation of the Township of Tisdale.

Provided that during the said years from 1929 to 1947, inclusive, the rate-payers in the area hereby annexed shall not be required to contribute to the cost of sewers constructed in any other part of the Municipal Corporation of the

Town of Timmins except for which the Town of Timmins at large would be liable to pay for, in which case the ratepayers in the area hereby annexed shall be liable to contribute their proportionate share of the cost.

7. And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins shall raise in each of the years 1929 to 1947, inclusive, from and out of the revenue derived from the waterworks system of the said Town of Timmins the sum of \$502.08, being a proportionate share of the amount required to be raised annually by the Municipal Corporation of the Township of Tisdale to retire the debenture debt created by the said Township of Tisdale by the aforesaid By-law Number 351 of said township the said sum of \$502.08, being the amount required to be raised annually to pay for the cost of waterworks extensions in the area hereby annexed.

And this Board doth further order, proclaim and adjudge that the Municipal Corporation of the Town of Timmins shall raise in each of the years 1929 to 1940, inclusive, from and out of the revenue derived from the waterworks system of the said Town of Timmins the sum of \$549.13, being a proportionate share of the amount required to be raised annually by the Municipal Corporation of the Township of Tisdale to retire the debenture debt created by the said Township of Tisdale by the aforesaid By-law Number 310 of said township the said sum of \$549.13, being the amount required to be raised annually to pay for the cost of waterworks extensions in the area hereby annexed.

The said sums of \$502.08 and \$549.13, respectively shall be paid yearly during the years aforesaid to the Municipal Corporation of the Township of Tisdale.

8. And this Board doth further order, proclaim and adjudge that neither the said Municipal Corporation of the Town of Timmins nor the Municipal Corporation of the Township of Tisdale shall have any claim or demand against the other arising out of the cost of maintaining law and order or providing fire protection or snow plowing or assessing and preparing assessment rolls or performing scavenger services in the area hereby annexed from the first day of January, 1929, to the date of the signing of this Order.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2200

Application by the Township of North York, under Section 398 of "The Municipal Act," for approval of its restricted area By-law No. 669, restricting that part of the said township known as "Kingsdale," to detached private dwellings, churches and schools.

May 26th. Appointment for Hearing cancelled by request of applicant's solicitor.

September 26th. Amended copy of By-law No. 669 filed.

October 6th. Hearing, 10 to 10.25 A.M., at Board's Chambers. By-law to be amended (as to half lot) (25 feet frontage) sold by Land Co. (West half Lot 14, Plan 1801); also two houses on two parcels, 60 feet, east 60 feet Lot 16, Plan 1801, Lots 239-240, Kingsdale Boulevard, and other cases to be notified to Council, and will then approve. (See Reporter's Notes.) Hearing adjourned to 19th November, 1930, at 10 A.M., at Board's Chambers.

November 19th. Hearing continued, 10 to 10.15 A.M. Amending By-law No. 1170 filed. By-law No. 669 approved as amended.

PROCEDURE FILE A-2228

Application by the Township of Sandwich West, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 836 (areas 1, 2 and 3, described in said by-law).

February 20th. Amendment By-law No. 855 filed, and draft Order filed.
February 22nd. Order issued (approving By-law 836 as amended by 855).

September 21st, 1929.

ORDER

Upon the application of the said corporation, and the Board, pursuant to appointment, having heard this application at the Council Chamber, in the Township of Sandwich West, on Tuesday, the 28th day of May, A.D. 1929, in the presence of Counsel for the applicant, and the Board having reconsidered the matter on June 18th, A.D. 1929, at the City Hall, in the City of Windsor, at the request of the Thames Realty Company, Limited, in the presence of Counsel for the applicant and Counsel for the Thames Realty Company, Limited, and notice of the appointment having been duly given as required by the Statute and directed by the Board, and the Board having directed certain amendments to the said By-law Number 836, and By-law Number 855 having been passed and filed accordingly.

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law Number 836 entitled "By-law Number 836 of the Township of Sandwich West. A by-law to regulate the use of lands or the erection or use of buildings within certain areas of the Township of Sandwich West," as amended by the said By-law Number 855, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2293

In the matter of the Petition of Alfred Gillies and others, under Section 8 of "The Local Improvement Act," against the construction by the City of Belleville of a proposed pavement on Dundas Street, in the said city.

January 28th. Approved draft Order filed.

January 29th. Order issued.

21st June, 1929.

ORDER

Upon the application of the above named petitioner and others, and upon reading the petition of the applicants herein, upon reading the material filed in support of said application, and upon hearing and considering what was adduced in evidence, and what was alleged by Counsel for the Applicants and by Counsel for the Respondents;

It is ordered—

(1) That the cost of the pavement be paid for as follows:

(a) Fifty per cent. (50%) of cost thereof by property owners chargeable, save and except statutory deductions;

(b) Fifty per cent. (50%) of cost thereof by the City of Belleville.

(2) Subject to the above the proposed cost of the said pavement in all other respects is hereby confirmed.

It is further ordered that the Respondents may proceed with the construction of the said work in the manner set forth in the report of its engineer and adopted by Respondents' Council.

And it is further ordered that the Respondents pay this Board the sum of Fifteen Dollars (\$15.00) the Board's tariff fee for Law Stamp upon this Order, and that save as aforesaid this Board doth not see fit to make any Order as to the costs of this application.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2311

In the matter of the application of the Corporation of the Township of Glenelg, for relief from its obligation to rebuild McNab's bridge on the base line at the rear of Lot 51, Concession III east of the Garafraxa Road, in the said township, and in the matter of the application of the said township for an amendment of the Board's Order herein, dated the 25th day of June, 1929.

February 28th Application for rehearing.

March 27th. Rehearing, 1.30 to 3 P.M., at Township Hall, Township of Glenelg. Order to be amended fixing allowance to Mrs. McNab herein at \$700.00 in lieu of \$300.00 previously allowed.

July 4th. Order issued.

July 4th, 1930.

ORDER

Upon the application of the said Corporation for a rehearing of this matter, and the Board having, pursuant to appointment, on the 27th day of March, A.D., 1930, at the Township Hall, in the Township of Glenelg, heard all parties interested.

The Board orders that the third paragraph of its Order, dated the 25th day of June, A.D. 1929, be and the same is hereby amended by striking out the words and figures "Three Hundred Dollars (\$300.00)," in the third and fourth lines thereof, and substituting in lieu thereof the words and figures "Seven Hundred Dollars (\$700.00)."

And the Board orders that there be no fee payable for Law Stamps on this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2320

In the matter of the Petition of U. L. Cober, and others, under Section 8 of "The Local Improvement Act," against the construction by the City of Kitchener of a pavement on Samuel Street, between Frederick and Brubacher Streets.

April 10th. Draft Order filed.

April 10th. Order issued.

April 3rd, 1930.

ORDER

Upon the petition of U. L. Cober and others, under Section 8 of "The Local Improvement Act," for relief against a Resolution of the Municipal Council of the Corporation of the City of Kitchener, authorizing the paving of Samuel Street, between Frederick Street and Brubacher Street, under the provisions of "The Local Improvement Act," and the Board having on the 23rd day of July, 1929, pursuant to appointment, at the Council Chamber, in the City of Kitchener, heard the parties interested on behalf of the petition, and the representatives of the Corporation, the Board having directed the matters to stand over until this day for judgment, and the matter having come on this day for judgment.

The Board orders, under and in pursuance of the provisions of Section 8 of "The Local Improvement Act," that the said Petition be and the same is hereby dismissed.

(Sgd.) C. R. McKEOWN,

(Seal)

Chairman.

PROCEDURE FILE A-2349

Application by the Township of Malden, in the County of Essex, under Section 12 of "The Planning and Development Act," for approval of the diversion of the River Front Road, in the said township, from the southerly limit of the Town of Amherstburg to the Beaudoin Side Road.

May 29th. Order settled, 10.30 to 11.30 A.M.

May 29th. Order (dated November 7th, 1929) issued.

November 7th, 1929.

ORDER

This matter coming on for Hearing before C. R. McKeown, Esq., K.C., Chairman, and A. B. Ingram, Esq., Vice-Chairman, of The Ontario Railway and Municipal Board at the Court House, Sandwich, on Tuesday and Wednesday the 27th and 28th days of August, 1929, in the presence of Counsel for the applicants and for the Town of Amherstburg, and for petitioners supporting and ratepayers opposing the application, judgment having been reserved until this day.

It is ordered and adjudged that the said application be and the same is hereby refused without prejudice to the Township of Malden to make a further application upon the terms and conditions, if any, set forth in the Board's judgment delivered herein.

And it is further ordered and adjudged that the said Township of Malden shall pay \$30.00, the Board's fee for Law Stamps herein.

(Seal)

(Sgd.) C. R. McKEOWN,

Chairman.

PROCEDURE FILE A-2349a

In the matter of the application of the Township of Malden, under Section 12 of "The Planning and Development Act," for approval of the diversion of the

River Front Road in the said township, from the southerly limit of the Town of Amherstburg to the Beaudoin Side Road.

September 4th. New application filed.

October 1st. Hearing, 9.30 A.M., Court House, Sandwich. Judgment reserved.

January 21st. Judgment delivered. Application dismissed. (Fee on Order, if taken out, to be paid by the township.)

REASONS FOR JUDGMENT

On the first day of October, 1930, the Board attended at the Town of Sandwich for the purpose of hearing evidence and argument in connection with the application of the Township of Malden for the Board's approval of diverting the River Front Road in the said township from the southerly limit of the Town of Amherstburg to the Beaudoin Side Road.

This same application was heard by the Board on the 27th and 28th of August, 1929, when, after hearing evidence and argument, the Board was pleased to reserve its decision and subsequently saw fit to dismiss the application and refuse the approval asked for without prejudice to the Township of Malden to make further application on certain terms and conditions.

The Board sat at the Court House in the Town of Sandwich on the first of October, 1930, heard the evidence and argument, then offered in support of and in opposition to the application of the said township and subsequently viewed the roadway in question.

The Board sees no reason to alter the decision arrived at upon the former application and is still of the opinion that it should withhold its approval of the proposed diversion.

The application of the township is therefore dismissed.

There should be no costs in connection with this application save and except the Board's fee on the Order to be taken out which should be payable by the township.

(Sgd.) C. R. McKEOWN,
Chairman.

Toronto, January 21st, 1931.

PROCEDURE FILE A-2451

In the matter of claim for compensation for injurious affection to certain lands in the Township of Pickering being part of Lot 16, in the First Concession of the said township, under and pursuant to Section 77a and amendments thereto of "The Highway Improvement Act," Chapter 54, R.S.O. 1927.

BETWEEN:

Henry Wade,

Applicant,

—and—

His Majesty, The King, represented by the Honourable
the Minister of the Department of Public Highways
of Ontario,

Respondent.

May 14th. Hearing, 10.30 A.M. to 4.45 P.M., at Board's Chambers. Adjourned to Wednesday, May 21st, 1931, at 10.30 A.M.

May 21st. Hearing continued, 10.30 A.M. to 3.45 P.M. Adjourned for view to 9.30 A.M., May 22nd, 1931.

May 22nd. View—one-half day. Judgment reserved.

June 16th. Judgment delivered.

August 26th. Approved draft Order filed.

August 26th. Order issued.

JUDGMENT

The applicant is a farmer residing in the Township of Pickering and is the owner of part of Lot 16 in the First Concession of the said township.

The Respondent is the vested owner and has control over the highway known as "The Kingston Road" in the said township, which said highway forms the northerly boundary of the applicant's lands as described in the application herein.

In 1919 the Respondent commenced the construction of a steel bridge over Duffin's Creek to take the place of the bridge which was washed away. The easterly end of the new structure was raised two feet and the westerly end three feet two and one-half inches.

"The old and new bridge was struck for approximately the same level for the lower edge of the steel, but the new bridge is much heavier, wider, and heavier steel underneath, and they allowed about two feet so that they held the bridge to the same level at the bottom of the steel." It was a skeleton bridge in 1919. The floor was put on in the spring of 1920.

The roadway at the eastern end of the bridge was raised about two feet and dropped to zero distant about 230 feet.

The fill at the westerly end of the bridge for the first 100 feet was raised 5 feet 3½ inches; the second 100 feet was raised 2 feet and the third 100 feet was raised 7 inches.

The lowest level west of the bridge is distant 280 to 300 feet.

There is a ditch running parallel with the highway on the north side which is intended to carry some of the flood waters into the creek and through underneath the bridge.

The applicant alleges that owing to the aforesaid construction his lands were injuriously affected by reason of the overflow of the waters of the Duffin's Creek in or about the month of March, 1929; that the overflow waters of the said creek are diverted several hundred feet westerly from their natural course; that by reason of this diversion some twenty acres of land were flooded and silt and debris to the depth of approximately one foot was deposited on the said lands making them wholly unfit for farming or any other purpose; that twenty-two apple and pear trees from twelve to fifteen years old growing on the said flooded area were destroyed by the said diversion of flood waters and that the value of the applicant's property as a whole has materially depreciated by reason of that part of the lands fronting on the highway having been rendered valueless as farm lands as aforesaid.

The applicant therefore claims:

(a) Five Thousand dollars as damages.

(b) The costs of this application.

(c) Such further and other relief as to this Board shall seem meet.

The applicant filed further particulars herein, as follows:

1. The value of 19½ acres of land covered with silt at \$200.00 per acre.....	\$3,850 00
2. Damages for the depreciation in value of the property as a whole.....	710 00
3. Value of twenty-two fruit trees, twelve to fifteen years old at \$20.00 each.....	440 00
	\$5,000 00

The Respondent apart from admitting the ownership of the land and of the Kingston Road, at this point as contained in paragraphs 1 and 2 of applicant's statement of claim herein denies all the others.

The Respondent further alleges that the applicant purchased his property in November, 1919, and knew at that time that Duffin's Creek habitually overflowed its bank at this point and having had full knowledge of all the facts is thereby estopped from claiming any damages as set forth in his Notice of Application.

Moreover, "From time immemorial the said Duffin's Creek has been overflowing its bank periodically, and that the soil of the applicant's property for some two or three feet in depth is made up of silt and other refuse deposited by the said creek upon the property of the said applicant."

Furthermore, that Duffin's Creek is joined by a tributary which flows on property north of the Kingston Road, and at this junction point during spring freshets naturally backs up and overflows the surrounding land, including a portion of the Applicant's land and that the heavy down-pour of rain which occurred on the 5th day of April, 1929, was such as to be beyond the control of the Respondent and for which the latter claims no responsibility.

The hearing of the evidence herein occupied the best part of two days and the third day the Board accompanied by the representatives of both parties had a view of the property in question.

Counsel for the Applicant did not make any effort to prove by evidence that the bridge or its approaches had been constructed in an unskilful or negligent manner, nor that such construction was unnecessary, but bent his efforts largely to prove that the higher embankment extending so far westerly prevented the flood waters from crossing the highway and entering the creek as it formerly had done nearer the bridge, and by reason of the first flood waters crossing over the highway at a point farther west caused great injury to the Applicant's property.

The evidence of Engineer Fulton, called by Counsel for the Respondent, testified that the water first crosses the highway at the time of flood 100 feet east of Cook's house, the location of which is shown on Exhibit 4 and 4a, and the evidence given by Mr. Wade, the applicant, fairly agrees with Mr. Fulton in so far as to where part of the first flood water crosses over the highway now. This conclusion is supported by other evidence and the Board is inclined to agree that this point is fairly established by evidence submitted by both parties.

More or less evidence was offered by Counsel for the Applicant to prove that this change of the first flood water over the highway was caused by the construction of the higher fill, or, in other words, the western approach to the bridge causing the flood waters to change their former course in a more

westerly and southerly direction, spreading over the western section of Mr. Wade's land doing injury to the wall of his house; flooding his cellar; injuring his furnace; killing his trees; lodging ice in his lane; removing his fence and covering fourteen and a half acres of his land with silt and other debris.

The evidence of the engineers called by Counsel for the Respondent contend that under flood conditions where Duffin's Creek is joined by its tributary there is a sharp elbow which decreased the velocity of the water thereby causing eddies which resulted in overflowing the land at this point, then flowing in a westerly and southerly direction towards the highway; the first flood water crossing over the highway east of Cook's house.

In further proof of this see Exhibits Nos. 9 and 11 respectively, which show the entire flats north of the highway flooded; Exhibit No. 10 shows water in the millrace and Exhibit No. 12, looking south from behind the mill, shows a flooded condition north and south of the highway. (The Board understands that these photos were taken in March, 1930.) (Exhibit No. 13 shows Wade's house and No. 14 shows ice in Wade's lane. These were put in by Mr. Richardson.)

Counsel for the Respondent called Hamilton Calvert to prove that certain obstructions which were formerly located on the north side of the highway and running easterly paralleling it, such as the mill; coal shed; tight board fence; rail fence, cooper shop, barrel shed, barn, milk shed and row of trees have nearly all disappeared, thus making it easier for the first flood water to pass over the highway farther west than where it formerly did.

The fact of these obstructions having been largely removed may have had some effect in changing the course of the first flood waters to where they flow now over the highway. Assuming this to be true, then the change in the course of the flood waters cannot be charged wholly against the construction of the embankment, or approach to the bridge.

It has been proven conclusively that flooding has occurred periodically on these flats for many years. In 1917, the Applicant's witness, Mr. Baker, stated that water was five feet deep in his house located 170 feet west of the bridge, and Mr. Nelson, witness called by the Respondent, stated that he remembered the Cook house being flooded in 1920, before the embankment leading to the bridge was constructed. The most dangerous floods appear to have occurred in 1926 and 1929. The latter is said to be the most serious, causing the most damage to its property.

The Board has endeavoured to solve and analyze the evidence submitted in this application; firstly, as to whether the Applicant is entitled to any damages at all, or not, and if so, is the damage for which he seeks compensation due to the construction of the bridge and its approach.

Secondly, is the aforesaid construction the only cause which contributed to the alleged flooding of the lands of the Applicant thereby spreading silt and other debris thereon, thus depreciating the value of his land.

Thirdly, was the said construction the only cause which led or contributed to the flooding of his property thereby injuring the wall of his house; flooding his cellar; injuring the furnace; destroying his trees; removing his fence and lodging ice in his lane.

Fourthly, was the said construction completed in a workmanlike and skilful manner and without showing any negligence in the completion thereof.

The Board in arriving at its conclusion believe the claim of the Applicant is entitled to some compensation for loss and injury to his property.

We do not believe, however, that the flooding of the land of the Applicant is entirely due to the construction of the bridge and its approach, as we are of the opinion that the real cause of the trouble emanated around the junction of the creeks at the elbow and from there in a westerly and southern direction along where the obstructions were located and over the highway onto the land of the Applicant. The latter cause in our opinion did most of the damage by flooding of the Applicant's property.

In arriving at the amount of compensation which should be allowed to the Applicant the Board can only use its best judgment as we are not aware of any method or rule by which we can measure up the volume of flooded water or silt or other debris that passed over the highway onto the lands of the Applicant through either the above mentioned causes and it would be very difficult indeed to determine or allot to each item in the statement of claim as well as those mentioned in the evidence given by the Applicant just what amount should be allowed for each.

We, therefore, allow the Applicant \$500.00 as compensation to cover the claims submitted herein as payment in full therefor, except an additional allowance of \$150.00 to cover the Applicant's law costs.

Dated, Toronto, June 16th, A.D. 1930.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree.
(Sgd.) J. A. ELLIS
Commissioner.

June 10th, 1930.

ORDER

This application coming on for trial on the 14th and 21st day of May, A.D. 1930, before this Board at the Sittings holden at the Board's Chambers, in the Parliament Buildings, in the City of Toronto, in the presence of Counsel for all parties, upon hearing read the pleadings and hearing the evidence adduced and what was alleged by Counsel aforesaid, and the Board having viewed the "locus," this Board was pleased to direct this application to stand over for judgment, and the same coming on this day for judgment:

1. This Board doth declare that the Applicant recover against the Respondent the sum of five hundred dollars for damages.

2. This Board doth further declare that the Applicant be allowed the sum of one hundred and fifty dollars on account of costs of the said application.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2459

In the matter of the Appeal, under the provisions of "The Assessment Act," from the decision of His Honour the County Judge of the County of Welland.

BETWEEN:

Canadian National Railway and the International
Bridge Company,

Appellants,

—and—

The Corporation of the Town of Bridgeburg,

Respondent.

April 11th. Hearing, pursuant to Appointment, 10.30 A.M. to 3.45 P.M., at Board's Chambers. Hearing concluded. Judgment reserved.

April 17th. Copy of Agreement, dated December 1st, 1919, filed by Canadian National Railway Co.

May 3rd. Judgment delivered. Appeal allowed.

May 14th. Approved draft Order filed.

May 14th. Order.

May 14th. Notoce of Appeal, from Board's Order, filed.

JUDGMENT

R. E. Laidlaw for the Appellants; T. F. Hellmuth, K.C., for the Respondents.

In the year 1929 the Corporation of the Town of Bridgeburg assessed that structure known as the International Bridge in the Town of Bridgeburg for the sum of Six Hundred Thousand Dollars (\$600,000.00). Against this assessment the Bridge Company appealed to the Court of Revision when the appeal was dismissed. A further appeal was taken to the County Judge of the County of Welland and the learned Judge dismissed the appeal and confirmed the assessment.

Under Section 83 of "The Assessment Act," the Appellants now appeal to The Ontario Railway and Municipal Board against the decision of His Honour the Judge of the County Court of the County of Welland.

By 32 and 33 Vict., Chapter 65, the International Bridge Company became consolidated as an incorporated body and received from the Dominion Government a franchise to construct a bridge over that part of the Niagara River reaching from Bridgeburg in the Province of Ontario to the international boundary, the said bridge to be for railway, vehicular and passenger traffic.

Previous to the construction of the said bridge the Grand Trunk Railway Company had been put to an annual expense estimated at Twenty Thousand Pounds (£20,000) sterling in transferring its cars, etc., across the said Niagara River and on the 30th June, A.D. 1870, an agreement was entered into between the International Bridge Company, of the first part, and the Grand Trunk Railway Company of Canada, of the second part, whereby the Grand Trunk Railway Company undertook to lease from the said Bridge Company, when completed, the bridge and all matters pertaining thereto for a period of 999 years and to pay therefor to the said Bridge Company the sum of Twenty Thousand Pounds (£20,000) sterling by half-yearly instalments to commence on the first day of January, 1872, which said agreement between the International Bridge Company and the Grand Trunk Railway Company was confirmed by statute of the Dominion Parliament, being 35 Vict., Chapter 63.

The said agreement by Section 11 thereof was to extend to the said Grand Trunk Railway Company, their successors and assigns, and the successor of the said Grand Trunk Railway Company is now the Canadian National Railway Company, one of the Appellants hereto.

By Section 18 of the said agreement it is further set out that the Grand Trunk Company shall have the right to purchase the capital stock or shares of the Bridge Company and upon the said purchase by the Grand Trunk Railway Company all property, privileges, powers, rights and franchises of the Bridge Company shall be vested in the Grand Trunk Company and the undertakings of the two companies shall from henceforth be one undertaking.

The said bridge was then constructed but only for railway purposes and an action was commenced by the Attorney-General of the Province of Ontario

against the International Bridge Company because the bridge had not been constructed in conformity with the requirements of the Act of Parliament authorizing its construction. This case is reported in 6 Ontario Appeal Reports at page 537, and the action of the Attorney-General was dismissed and at page 544 the bridge is referred to as a "railway bridge," wherein the learned Judge in appeal stated: "That Parliament presumably with the knowledge that it was only completed for railway traffic has nevertheless recognized it, etc."

The Canadian National Railway, being one of the Appellants herein, now holds all the stock of the International Bridge Company, with the exception of a few shares that are allotted to certain directors of the Bridge Company to qualify them as directors, but which said stock is held by them in trust for the Canadian National Railway Company with the possible exception of a few shares held by a man named Sprague in the City of Buffalo.

Following the decision in "The Municipal Corporation of the Township of Cornwall and the Ottawa and New York Railway Company," which reached the Privy Council and is reported in 1917 Appeal Cases at page 399, the bridge in question over the Niagara River must be taken to be on railway lands.

The method of assessing railways is set out in Section 50 of "The Assessment Act," being Chapter 238, R.S.O. 1927, and after hearing the evidence and the argument on behalf of the Appellants and Respondents the Board is of opinion that the bridge in question is a structure on railway lands used exclusively for railway purposes or incidental thereto and is therefore not assessable.

This appeal must therefore be allowed and the assessment made by the Assessor of the Town of Bridgeburg in connection with the bridge in question struck off and the Assessment Roll of the said Town of Bridgeburg amended accordingly.

(Sgd.) C. R. McKEOWN,
Chairman.

Dated at Toronto,
this 30th day of April, A.D. 1930.

I agree:

(Sgd.) A. B. INGRAM,
Vice-Chairman.

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, April 30th, 1930.

ORDER

The appeal of the said Appellants from the decision of His Honour the County Judge of the County of Welland, dismissing the appeal of the said Appellants from the decision of the Court of Revision for the Town of Bridgeburg confirming the assessment for the sum of \$600,000, made in the year 1929 by the said Town of Bridgeburg, of the structure known as the International Bridge, having come on to be heard before this Board at a sittings holden at Toronto on the 11th day of April, 1930, in the presence of Counsel for the Appellants and Counsel for the Respondents, upon hearing the evidence adduced and what was alleged by Counsel aforesaid and judgment having been reserved until this day, and this Board finding that the said bridge is a structure on railway lands used exclusively for railway purposes or incidental thereto.

1. It is ordered that the said appeal be and the same is hereby allowed and that the assessment made by the Assessor of the Town of Bridgeburg for the said International Bridge be struck off and the Assessment Roll of the said Town of Bridgeburg amended accordingly.

2. And it is further ordered that the Respondents do forthwith pay \$15.00 in Law Stamps on this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2483a

Application by the Town of Sandwich, under Section 26 (2) of "The Local Improvement Act," for approval of its By-law No. 1900, providing for the assumption by the Corporation of part of the owners' portion of the cost of paving Sandwich Street, from Detroit Street to Rosedale Avenue.

January 31st. Application for approval of By-law No. 1989, in lieu of By-law No. 1900, increasing Corporation's share of cost from \$12,389.72 to \$13,808.56, filed.

February 7th. Application granted. Applicant's Solicitor to draft Order and have same approved by other Counsel for interested parties.

February 14th. Approved draft Order filed.

February 14th. Order issued.

February 7th, 1930.

ORDER

Upon the application of the Municipal Corporation of the Town of Sandwich for approval under Section 26, subsection (3) of "The Local Improvement Act" of its By-law Number 1989 amending By-law Number 1900 which provided for the assumption by the town of the sum of \$12,389.72 part of the owners' share of the cost of paving Sandwich Street between Detroit Street and Rosedale Avenue and which was approved by the Board under the Order, dated the 23rd day of October, 1920 (P.F. A-2483), upon reading the affidavit of E. R. North and the material filed.

The Board, under and in pursuance of subsection (3) of Section 26 of "The Local Improvement Act" and the amendments thereto, approves of By-law Number 1989 of the Town of Sandwich amending By-law Number 1900 of the said town by changing the amount of the owners' share of the cost of the paving of Sandwich Street in the said Town of Sandwich between Detroit Street and Rosedale Avenue to be assumed by the town from the sum of \$12,389.72 to the sum of \$13,808.56.

And the Board makes no Order as to costs except that the Town of Sandwich pay \$5.00 for Law Stamps on this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2486

In the matter of the application of the Corporation of the City of Toronto, under subsection (2b) of Section 398 of "The Municipal Act," for approval of

its By-law No. 12347, as amended by By-law No. 12405, repealing By-law No. 8867 in so far as it prevents the conversion of the house at the northwest corner of Avenue Road and Bernard Avenue into a store and apartments.

January 3rd. Approved draft Order filed.

January 3rd. Order issued.

December 30th, 1929.

ORDER

Upon the application of the Corporation of the City of Toronto for approval, pursuant to Section 398 of "The Municipal Act," being R.S.O. 1927, Chapter 233, of its By-laws Numbers 12347 and 12405, and upon considering the said by-laws, and upon hearing what was alleged this day by Counsel for the Applicant and by and on behalf of certain property owners affected, the other property owners affected not having appeared although duly notified of this application according to the direction of the Board and the requirements of the Statute aforesaid as by affidavits filed appears.

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said by-laws, being intituled "No. 12347. A By-law to repeal By-law No. 8867 in so far as it prevents the conversion of the house at the northwest corner of Avenue Road and Bernard Avenue into a store and apartments," and "No. 12405. A By-law to amend By-law No. 12347 respecting the conversion of the house at the northwest corner of Avenue Road and Bernard Avenue into a store and apartments," be and the same are hereby approved.

(Sgd.) C. R. MCKEOWN,

Chairman.

(Seal)

PROCEDURE FILE A-2487

BETWEEN:

The Corporation of the Township of Tisdale,

Appellant,

—and—

The Hollinger Consolidated Gold Mines, Ltd.,

Respondent.

Assessment Appeal
(Buildings and Equipment, \$34,430.00)

October 8th. Hearing, 7 P.M.; 8.30 to 12 P.M., Town Hall, Haileybury.

October 9th. Hearing continued, 9 to 11.45 A.M. Judgment reserved.

October 29th. Judgment delivered.

JUDGMENT

The property of the Appellants, The Hollinger Consolidated Gold Mines, Limited, having been assessed by the Assessor of the Township of Tisdale, the said Hollinger Consolidated Gold Mines, Limited, appealed against the said assessment to the Court of Revision for the said Township of Tisdale, and subsequently to His Honour, the District Judge of the District of Temiskaming,

and from the decision of the said Judge delivered on the 19th day of September, 1929, the said Hollinger Consolidated Gold Mines, Limited, now appeals to this Board on certain grounds set out in the Notice of Appeal filed by the said Appellants, and dated the 25th day of September, 1929.

By way of cross-appeal from the decision of His Honour, the said Judge of the District of Temiskaming, the Respondent herein, the Township of Tisdale, appeals to this Board in respect of certain findings set out in the Notice of Appeal filed by the said Respondent, and dated the 7th day of October, 1929.

The Board held a Hearing at the Town of Timmins on Wednesday and Thursday, the 8th and 9th days of October, 1930, received evidence and heard argument in connection with the matters in dispute, and as touching, first, the cross-appeal which by consent of all parties was confined to what is known as the "slime disposal plant," at what is known as the McKay Veteran property, and the pipe, conveyor pumps, etc., used in connection with this disposal. His Honour, the Judge of the District Court, held that this property, assessed at \$34,430.00, was not assessable under the Act, and with this decision the Board is in full harmony; confirms the finding and dismisses the cross-appeal.

Then as to the original appeal filed by the Appellants, the Board is of the opinion that the "change house," being required by Statute, is not assessable, and to the extent to which this "change house" has been assessed by the Assessor, namely, \$2,900.00, the assessment must be reduced.

The same argument applies to the powder magazines required by Statute to be kept some distance from the mine buildings proper; and the electric heating system for the magazines, etc., and to the extent to which these have been assessed, \$7,278.00, the total assessment shall be further reduced.

The matter, however, discussed upon this appeal which has given the Board the greatest trouble is the question as to the right to assess what is known as the conveyor, and the towers, shovels, etc., connected therewith, used by the Hollinger Consolidated Gold Mines, Ltd., for the purpose of conveying sand or gravel from a distance some three miles or more from the mine proper to the mine, which said sand or gravel is used for filling purposes, and which it is contended is a necessary part of the mining industry, the witness, Mr. Stovel, Superintendent of the Dome Mines, stating under oath that the sole purpose of the conveying of sand or gravel as above mentioned, and for which the conveyer system is used, is to enable the company to extract ore from the mine, and that the mining could not continue without the filling.

This same appeal was before this Board in or about one year ago, and the decision then was that the conveyor system was properly assessable, but since that date a decision of the Supreme Court of Ontario has somewhat altered the situation. In a case of Ford Motor Company of Canada and the Town of Ford City, reported in 63 Ontario Law Reports at page 410, the court held, reversing the decision of The Ontario Railway and Municipal Board, that a certain gantry crane, being a structure used by the Ford Motor Company for the purpose of conveying coal or other material in cars of somewhat similar construction to the cars used by the Hollinger Mines, was not assessable.

On page 411, Mr. Justice Middleton says that "Prior to the passing of 'The Assessment Act' of 1904, all property, real and personal, was subject to assessment. By that Act personal property ceased to be liable for assessment, and in lieu of the assessment on personal property there was substituted a business tax, etc. The effect of this change was to exempt from taxation all machinery used in connection with a business carried on unless the machinery had become land for the purpose of assessment."

The conveyor above referred to, and being considered by the Board, is a means used by the Hollinger Consolidated Gold Mines, Ltd., to convey sand or gravel from a distance of between three and four miles from the mine proper to the mine itself for filling in purposes. It consists of a certain aerial transfer system; cement abutments are sunk in the ground at different points along the route between the mine and the pit, and upon these cement abutments towers are placed attached to the cement abutments by bolts which, according to the evidence, can be disconnected immediately upon notice and the towers entirely removed without any injury to the land.

Along these towers is run a continuous wire from the mine proper to the sand or gravel pit, and returning from the gravel pit to the mine, and on this continuous wire rest certain cars or buckets, which when empty are conveyed by the system to the sand or gravel pit where they are filled and returned to the mine on the reverse side of the towers, so that the buckets resting upon the wire are almost continually passing back and forth, being filled at the pit and automatically emptied at the mine.

The Board is unable to distinguish a sufficient difference between the gantry crane in the Ford Motor case, and the conveyor system now under consideration, to warrant it in refusing to follow that decision. It is true that the one is in length comparatively short as compared with the other, but as the work done is practically the same, and as the construction of both is of a somewhat similar nature, and from the evidence now produced the conveyor being considered appears to be on mineral land, and as both are used for the purpose of carrying on the work with which they are connected, the Board feels it is bound by the case above referred to, and must therefore allow as exempt from taxation the conveyor system, the dredge and other chattels connected therewith, and accordingly the total assessment must be further reduced by \$140,389.00, the amount at which this system, etc., has been assessed.

In all other respect the decision of His Honour, the Judge of the said District Court, is confirmed, and the appeal of the Appellants is dismissed.

There shall be no costs in connection with this application save and except the sum of \$20.00 for Law Stamp in connection with the Order to be issued herein, and to be paid by the Respondent, the Municipality of the Township of Tisdale.

(Seal)

(Sgd.) C. R. McKEOWN,

Chairman.

Dated at Toronto,
the 28th day of October, A.D. 1930.

PROCEDURE FILE A-2487a

BETWEEN:

The Hollinger Consolidated Gold Mines, Ltd.,

Appellant,

—and—

The Corporation of the Township of Tisdale,

Respondent.

Assessment Appeal

Buildings and Equipment, \$147,614.00

- October 8th. Hearing, 7 P.M.; 8.30 to 12 P.M., Town Hall, Haileybury.
 October 9th. Hearing continued, 9 to 11.45 A.M. Judgment reserved.
 October 29th. Judgment delivered. (See A-2487).

PROCEDURE FILE A-2499

Application by the Village of Sturgeon Point, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 118, prohibiting the use of land or erection or use of any building in the area of the said village west of and including Lot 5, Plan 65, except for the purpose of a private detached dwelling.

- May 28th. Copy of amendment to By-law No. 118 filed.
 May 29th. Application granted.
 May 29th. Order.

May 29th, 1930.

ORDER

Upon the application of the said Corporation, and the Board having, pursuant to Appointment, heard this application on the 19th and 26th days of November, 1929, at its Chambers, in the Parliament Buildings, in the City of Toronto, when the application was granted subject to the by-law being amended to allow the erection or use of buildings for private garages, boathouses, ice houses or other necessary outhouses in connection with the ordinary use of a private dwelling, and the said By-law No. 118 having been so amended as appears from letter, dated the 27th day of May, 1930, from G. A. Lucas, Clerk, to this Board, and upon consideration of the material filed.

The Board orders, that the said By-law No. 118, as so amended, intituled "By-law No. 118, Sturgeon Point, Ontario. Being a By-law to limit the use of land or the erection or use of buildings within the Village of Sturgeon Point in the area described in this By-law to private detached dwellings," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2539

Application by the Town of Cobourg, under subsection (2b) of Section 398 of "The Municipal Act," for approval of its By-law No. 1421, amending its By-law No. 1375 by eliminating therefrom lot owned by Miss Margaret Olley at the corner of King and Ontario Streets.

- February 18th. Approved draft Order filed.
 February 18th. Order issued.

February 18th, 1930.

ORDER

Upon the application of the said Corporation and having, pursuant to Appointment, heard on the 23rd day of December last past at the Council Chamber in the Town of Cobourg those appearing in support of and in opposition to the application, notice of such Hearing having been duly given as directed by the Board.

The Board orders, under and in pursuance of the provisions of subsection 2 (b) of Section 398 of "The Municipal Act," R.S.O. Chapter 233, that the said By-law No. 1421 of the Corporation of the Town of Cobourg intituled "By-law No. 1421. A By-law to amend By-law No. 1375 of the Town of Cobourg," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2573

Application by the City of Kitchener, under Section 398 (2b) of "The Municipal Act," for approval of its By-laws Nos. 2119, 2125 and 2126, amending its By-law No. 1823 (as amended by By-laws Nos. 1834-5) as follows:

(a) By-law No. 2119—Changing the corner of Strange and Cherry Streets from residential to a business zone;

(b) By-law No. 2125—Changing part of Victoria Street (Lots 15 to 23) (both inclusive), of Mary E. Weber's Survey, east of St. Ledger Street and south of Victoria Street) from a residential to light industrial district; and

(c) By-law No. 2126—Changing part of Queen Street South from a residential to a business zone.

January 7th. Hearing, 10 to 11 A.M., Council Chamber, City Hall, Kitchener:

(a) Mr. Lips, City Clerk, to examine petitions for and against the by-law and report to City Solicitor. Matter to be brought up again if desired. Adjourned *sine die*.

(b) Application dismissed.

(c) Application granted.

January 10th. Draft Order re By-law No. 2126 (c), filed, and Order issued.

January 7th, 1931.

ORDER

Upon the application of the said Corporation, and upon reading the copy of the said By-laws and the other material filed, and the Board having, pursuant to Appointment on the 7th day of January, A.D. 1930, at the Council Chamber, in the City of Kitchener, heard evidence in support of and no one appearing in opposition to the application for approval of By-law No. 2126, and notice of such Hearing having been duly given as directed by the Board,

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law No. 2126, intituled "By-law No. 2126 of the City of Kitchener. A By-law to amend the Zoning Ordinance," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2578

In the matter of the Petition of Ada Thompson, and others, under Section 8 of "The Local Improvement Act" against the opening and establishing of East 31st Street from its present northerly terminus in Mount Hamilton Gardens

Survey to Crockett Street and from its present northerly terminus in T. Livingstone Survey to Concession Street, in the City of Hamilton.

May 15th. Draft Order filed.

May 15th. Order issued.

December 20th, 1929.

ORDER

Upon the Petition of Ada Thompson and others to this Board under Section 8 of "The Local Improvement Act," against the opening and establishing (under the provisions of the said Act) of East 31st Street from its present northerly terminus in Mount Hamilton Gardens Survey to Crockett Street, and from its present northerly terminus in T. Livingstone Survey, to Concession Street, and upon hearing read the Petition and the Appointment for Hearing herein, and upon hearing the evidence adduced, and what was alleged on behalf of the Petitioners and the Corporation of the City of Hamilton, and the said Corporation consenting hereto,

This Board doth order that fifty per centum of the cost of the work or undertaking shall be specially assessed upon the lots abutting directly on the portions of the said "31st Street" to be opened and established, according to their respective frontages thereon pursuant to the provisions of "The Local Improvement Act," and that fifty per centum of the cost of the said work or undertaking shall be borne by the City Corporation.

And this Board doth further order that there shall be no costs of this application to any party except that the Corporation of the City of Hamilton shall pay \$10.00 for Law Stamps on this Order, chargeable to the cost of the work.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2579

In the matter of the Petition of B. Watters, A. G. Blayney and others, pursuant to Section 20 of "The Municipal Act," R.S.O. 1927, Chapter 233, for annexation to the City of Hamilton of that part of the Township of Ancaster hereinafter mentioned and described.

January 9th. 10.30 a.m. to 12 md. Minutes of Order settled.

January 15th. Order issued.

May 9th. Amending Order issued.

December 20th, 1929.

ORDER

Upon the application of the above mentioned petitioners and upon reading the Petition of the Applicants herein filed with the Board, and the Resolution of the Council of the Corporation of the City of Hamilton, passed on the 10th day of December, 1929, declaring the expediency of such annexation upon the terms mentioned in said Resolution, and upon hearing representatives of the said petitioners and what was alleged by Counsel on behalf of the Corporation of the City of Hamilton, the Township of Ancaster, certain ratepayers therein opposing the application, and the County of Wentworth, and public notice of the Hearing having been given as directed by the Board;

This Board doth order and proclaim that the portion of the Township of Ancaster in the County of Wentworth, described as follows:

All and singular that certain parcel or tract of land and premises, situate, lying and being in the Township of Ancaster, in the County of Wentworth, in the Province of Ontario, being composed of part of Lots Fifty-six (56) and Fifty-seven (57) in the First and Second Concessions of the Township of Ancaster and part of the Gore of the Township of Ancaster, all of which may be more particularly described as follows, that is to say: Commencing at the intersection of the northern limit of the Hamilton and Brantford Provincial Highway (Provincial Highway No. 2) with the division line between the Townships of Barton and Ancaster, said point of intersection being in the present city limits, to the south of Westdale; thence westerly along the said northern limit of the Hamilton and Brantford Provincial Highway to its intersection with the division line between Lots Fifty-five (55) and Fifty-six (56) in the said Township of Ancaster; thence southerly along the said division line between Lots Fifty-five (55) and Fifty-six (56) and the production thereof southerly to its intersection with the northern limit of the right-of-way lands of the Brantford and Hamilton Electric Railway Company; thence easterly along the said northern limit of the right-of-way lands of the Brantford and Hamilton Electric Railway Company on the following courses and distances; easterly and parallel with the present tracks of the said Brantford and Hamilton Electric Railway Company, a distance of three hundred and sixty-four feet (364' 0'') southerly and parallel with the said westerly limit of Lot Fifty-six (56), a distance of twenty-five feet and seven inches (25' 7'') easterly and parallel with the present tracks, a distance of seven hundred and six feet (706' 0'') northerly and parallel with the said westerly limit of Lot Fifty-six (56), a distance of seventy-six feet and ten inches (76' 10'') easterly and parallel with the present tracks, a distance of two thousand two hundred and sixty-one feet and nine inches (2,261' 9'') southerly at right angles to the last mentioned course, a distance of one hundred and seventeen feet (117' 0'') easterly and parallel with the present tracks, a distance of eight hundred and forty feet (840' 0'') more or less to a point where the said right-of-way lands intersects the said division line between the Townships of Barton and Ancaster; thence northerly along the said division line between the Townships of Barton and Ancaster to the place of beginning,

be, and the same is hereby annexed to the City of Hamilton, and the said annexation shall take effect on and from the 31st day of December, 1929, upon and subject to the following terms and conditions, namely:

1. That the taxes, assessments, rents, water, school and other rates in respect of the annexed district to be levied by the City of Hamilton in respect of the said territory, shall for the year 1930 and thereafter belong to "The Corporation of the City of Hamilton" and "The Board of Education for the City of Hamilton," respectively, and shall be on the same basis and payable at the same time and in the same manner as taxes, assessments, rents, water, school and other rates, levied and raised from time to time on the property within the old boundaries of the city, except that the assessments of the said territory by the Corporation of the City of Hamilton for the year 1930 may be taken by the City Assessors at any time after the date of this Order.

2. (a) All taxes imposed by the Township of Ancaster in the said annexed district for the year 1929 and any and all arrears of taxes to the 31st day of

December, 1929, in said district shall belong to the Township of Ancaster, and may be collected as provided by "The Municipal Act" or "The Assessment Act."

(b) The Corporation of the Township of Ancaster shall forthwith prepare and furnish to the Corporation of the City of Hamilton a Special Collector's Roll, showing all arrears of taxes or special rates assessed against the lands in the annexed area up to the 31st day of December, 1929, and the persons assessed therefor.

(c) That the said arrears of taxes according to said special rolls shall be collected by the Corporation of the City of Hamilton and that the right to collect same, including the right to distress for non-payment of said arrears, or if necessary, the right to sell the said lands, if any, for non-payment of such arrears shall be vested in the Corporation of the City of Hamilton, but the proceeds of the collection of such arrears or any part of same after deducting therefrom the proper costs and expenses in connection with the collection of same, shall be repaid by the Corporation of the City of Hamilton to the said Corporation of the Township of Ancaster on the first day of January and July after collection.

That the Corporation of the Township of Ancaster shall indemnify and save harmless the Corporation of the City of Hamilton from all loss, costs, charges and expenses arising from the collection or attempted collection of any arrears as shown on said special roll.

3. The Township of Ancaster shall furnish the Corporation of the City of Hamilton with certified copies of all special assessment rolls for local improvements in the said area, together with all by-laws for levying the special rates thereon, the collection of which special rates are to be made by the City of Hamilton, and shall at all reasonable times allow the Corporation of the City of Hamilton, its servants and agents access to the assessment rolls of the said portion of the said Township of Ancaster, and to all local improvement by-laws and local improvement assessment rolls, and also all plans, surveys and maps applicable to the said portion of the said township for the purpose of making copies of the same.

4. There shall be an adjustment of the assets and liabilities of the Hydro-Electric Commission of the Township of Ancaster which shall be subject to the approval of the Hydro-Electric Power Commission of Ontario at the present actual value, and "The Hydro-Electric Power Commission of Ontario" shall be the sole arbiter as between "The Hydro-Electric Commission of the Township of Ancaster" and "The Hydro-Electric Commission of the City of Hamilton."

5. Where any work heretofore has been constructed in the said district and such work is defective or insufficient, the Corporation of the City of Hamilton may proceed with the construction of required works under the provisions of "The Local Improvement Act" notwithstanding the lifetime of the first mentioned work has not expired.

6. The residents of the district to be annexed shall be entitled to water from the Hamilton Waterworks upon the same terms and conditions as the residents of Hamilton.

7. The said annexed territory shall form part of Ward No. 3 of the said city.

8. Notwithstanding anything hereinbefore contained all adjustments, pursuant to the provisions of Section 38 of "The Municipal Act," Section 37 of "The Public Schools Act," and "The Housing Adjustment Act," 1927, Statutes of Ontario, 17 Geo. V, Chapter 74, shall be made as of the 31st day of December, 1929, the date the annexation is deemed to have taken effect.

9. In the adjustment of the assets and liabilities as between the Township of Ancaster and the City of Hamilton, such adjustment shall be based on

the township assessment for the year 1929 as finally revised and the township assessment of the district annexed. The adjustment between the city and the county to be based upon the township's equalized assessment. The adjustments between the township, the county and the School Section respecting the debenture debts to be made as of the 31st December, 1929.

10. This Order shall come into force on the 31st day of December, 1929.

.....
Chairman.

May 9th, 1930.

AMENDING ORDER

In the matter of Order A-2579 of the said Board, dated the 20th day of December, 1929.

And in the matter of the application of the Corporation of the Township of Ancaster, pursuant to said Section 20 of "The Municipal Act," as amended by Statutes of Ontario, 20 Geo. V (1930), Chapter 44, Section 1, to amend the said Order A-2579.

1. Upon the application of the Corporation of the Township of Ancaster to amend the said Order A-2579 and upon reading the application herein filed with the Board and the consent of the Corporation of the City of Hamilton, and upon hearing Counsel for the said applicant;

2. This Board doth order and proclaim that the said Order of this Board, A-2579, dated the 20th day of December, 1929, be and the same is hereby amended by rescinding and striking out paragraph 2 thereof and inserting in lieu thereof the following paragraph namely:

"2. (a) All taxes imposed by the Township of Ancaster in the said annexed district for the year 1929 and any and all arrears of taxes to the 31st day of December, 1929, in the said district shall belong to the Township of Ancaster.

(b) The Corporation of the Township of Ancaster shall prepare and furnish to the Corporation of the City of Hamilton on or before the 2nd day of January, 1931, a special Collector's Roll for each year showing all arrears of taxes or special rates assessed against the said lands in the annexed area up to the 31st day of December, 1929, and the persons assessed therefor.

(c) The Corporation of the Township of Ancaster shall up to and including the 31st day of December, 1930, have the right to collect all such arrears of taxes to the 31st day of December, 1929, owing in the said annexed area according to the Collector's Rolls for the years 1929 and prior thereto including the right to distrain for non-payment of such arrears or if necessary the right to sell the said lands, if any, for non-payment of such arrears as fully and effectually as if the said lands were still within the limits of the Township of Ancaster. After the 31st day of December, 1930, the Corporation of the City of Hamilton shall collect any and all such arrears of taxes owing up to the 31st day of December, 1929, and which might still be owing in the said annexed area according to the Collector's Roll, and shall have the right to distrain for non-payment of such arrears, and, if necessary, the right to sell the lands, if any, for non-payment of such arrears as fully and effectually as if the said taxes had been assessed and levied by the Corporation of the City of Hamilton; but the proceeds of the collection of such arrears or any part of the same, after deducting therefrom the

proper costs and expenses in connection with the collection of the same shall be repaid by the Corporation of the City of Hamilton to the said Corporation of the Township of Ancaster half-yearly on the 1st days of July and January in each year, provided the said Corporation of the City of Hamilton shall proceed to collect the said arrears of taxes in the same manner as if it had assessed and levied the same and for that purpose the said Corporation shall have all the rights and powers conferred upon municipalities by "The Assessment Act" or other Act in force regarding the collection of arrears of taxes in the annexed area, but the City Corporation shall not be responsible to the Corporation of the Township of Ancaster for any such arrears of taxes which it may be unable to collect.

3. This order shall take effect as of the 31st day of December, 1929.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2585

In the matter of the Petition of Mary E. McKinley, Wilfrid Soulliers and others, under Section 8 of "The Local Improvement Act," against the proposed opening of Ottawa Street, from Riverdale Avenue to the easterly limit of Farm Lot 138, in the Town of Riverside.

January 22nd. Hearing, pursuant to Appointment, 9.30 A.M.; 10.30 to 11 A.M., Court House, Sandwich. Petition allowed by consent—work not to be proceeded with. Leave to town to undertake work hereafter. (See Reporter's Notes.)

January 28th. Approved draft Order filed.

January 29th. Order.

January 22nd, 1930.

ORDER

The Petition herein having come on for hearing by the Board on this date at the Town of Sandwich in the presence of Counsel for the Petitioners and Counsel for the Corporation of the Town of Riverside;

And it appearing that the Corporation of the Town of Riverside is unwilling to proceed with the work petitioned against in opposition to the desire of the petitioning ratepayers;

And Counsel for all parties consenting hereto.

The Board therefore orders and proclaims:

1. That the Board withholds its approval of the works known and described as Numbers One, Two, Three and Four according to By-laws Numbers "295C" and "295 DD" of the said Corporation of the Town of Riverside.

2. That the said works be not undertaken nor proceeded with by the Corporation of the Town of Riverside in pursuance of the said by-laws.

3. That this Order is made without prejudice to any future undertaking by the Corporation of the Town of Riverside of the said works or any part thereof in accordance with the provisions of "The Local Improvement Act" or other statutory authority.

4. And the Board makes no Order as to costs except that the Corporation of the Town of Riverside pay a fee of \$10.00 for Law Stamps herein.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2596

BETWEEN:

The Corporation of the City of Toronto,

Appellant,

—and—

The Toronto Terminal Railway Co.,

Respondent.

(Assessment Appeal)

January 15th. Hearing, pursuant to Appointment, 10.30 A.M. to 12.30 P.M., at Board's Chambers. Appellant's Solicitor asks for a stated case. Hearing concluded. Judgment reserved.

January 29th. Judgment delivered. Appeal dismissed.

JUDGMENT

This is an application by way of appeal to this Board from the decision of His Honour, the County Judge of the County of York, in connection with the assessment of certain property of the Toronto Terminal Railway Company by the Appellant, the Corporation of the City of Toronto.

The assessor for the Corporation of the City of Toronto assessed an unfinished building belonging to the Toronto Terminal Railway Company, and used as a steam plant, for the sum of \$150,000, and against this assessment The Toronto Terminal Railway Company appealed to the Court of Revision for the said City of Toronto. The said Court of Revision allowed the appeal and struck out the assessment. Against this decision the City of Toronto appealed to the County Judge of the County of York, when the learned County Judge confirmed the finding of the Court of Revision, and held that the said building was not assessable under "The Assessment Act."

From this decision the said City of Toronto now appeals to this Board.

The method of assessing railways or railway property is set out fully in Section 5c of "The Assessment Act," and the contention of the solicitor for the said Toronto Terminal Railway Company is that unless the property of the company is assessable under said Section 5c it is not assessable at all.

Counsel for the City of Toronto contends that while the said Appellant has a right to assess under other sections they still are entitled to assess the property in question under subsection 2 (d) of Section 5c, which reads in part as follows:

"The Assessor shall assess . . .

(d) the real property not designated in Clauses (a), (b) and (c) of this subsection in actual use and occupation by the company, at its actual cash value as the same would be appraised upon a sale to another company possessing similar powers, rights and franchises."

Clause (a) mentioned in Clause (d) refers to the roadway or right-of-way; Clause (b) to vacant land, and Clause (c) to structures, substructures, etc., upon, in, over, under or affixed to any highway, street or road, etc., so that the steam heating plant not being a structure upon, in, over, under or affixed to any highway, street, road, etc., not being vacant land, and not being a roadway or right-of-way, might well come under real property not designated in Clauses (a), (b) and (c), especially as by the interpretation set out in Section 1 of the Act, real property shall include (h 4), all buildings or any part of any building, etc., placed upon, in, over, under or affixed to land.

Counsel for The Toronto Terminal Railway Company, however, contends that under subsection (3) of Section 5c the property in question is included and must be exempt; subsection (3) reading as follows:

“Notwithstanding anything in this Act contained the structures, substructures, superstructures, rails, ties, poles, wires, and other property on railway lands, and used exclusively for railway purposes or incidental thereto (except stations, freight sheds, offices, warehouses, elevators, hotels, round houses, machine repair and other shops), shall not be assessed.”

It is contended by Counsel for the company that the steam plant in question cannot be included in any of the buildings bracketed in this clause as the exception from the exempted property inasmuch as it is not a station, freight shed, etc.

And it is further contended by Counsel for the company that it is a structure, that it is property on railway lands used exclusively for railway purposes or incidental thereto, and being such cannot be assessed.

This Board entirely agrees that the statement made by His Honour, the Judge of the County Court of the County of York, that a taxing statute must be construed strictly and it cannot be presumed that a corporation has power to tax unless that power is expressly conferred by some statutory enactment.

The City of Toronto called no witnesses, and produced no evidence in connection with this appeal, relying entirely upon the argument advanced by Counsel.

The Respondent, however, put in the evidence of Mr. John Ambrose, Chief Engineer of The Toronto Terminal Railway Company, and the evidence of Mr. Ambrose was the only evidence placed before the Board.

It was strongly urged by Counsel for the City of Toronto that inasmuch as the steam plant in question provided heat for the Royal York Hotel, and heat for what is known as the Post Office in the Union Station, therefore it was supplying heat for buildings that were not railway buildings or incidental thereto, and could not come under the exempting clause.

The evidence, however, of Mr. Ambrose was first as to the question of the post office, as follows:

Q.—What is the practice as to postal facilities in railway stations? Can you tell us first as to large centres, and then as to smaller places?

A.—Postal facilities are required at all railway stations. The facilities vary in size from the baggage truck to a ten or fifteen million dollar building. There always have to be some postal facilities in a railway station.

Q.—Why is that?

A.—The railway company has to arrange for the handling of the transfer mail, and the mail bags containing the mail, apart from what we call local city mail. We usually think of the post office as the place where we go to buy stamps, and mail letters; that is not exactly the sense in which I am referring

to the post office. In our case the post office, as the public understand it, is just incidental to the larger facilities that are provided. It is a railway mail post office, and all the mail which comes in on the trains, or the larger part of it, is rehandled and sent out on other trains; that is not the regular post office service as the public understand it.

Q.—What I understand you to say is that at the Union Station you have facilities for handling mail in connection with the railway?

A.—Yes, sir, and you will find the same thing in New York in connection with the Pennsylvania Railway Station, and you will find the same thing at the station in Chicago, where there is a very large mail outfit, and you will find the same thing at St. Louis where they have a very large building for the mail right in connection with the station. In fact, I do not know of any large centre that has not railway mail facilities.

Q.—On the railway premises?

A.—On the railway premises.

Q.—You spoke of a baggage truck as being an elementary part of the post office?

A.—That would be at a wayside station where there is sometimes only one bag of mail delivered in a day; the railway company has to provide a truck for the post office people to get that bag of mail.

Q.—The mail facilities in connection with the station vary with the importance of the centre?

A.—Yes.

Q.—You find that to be the case everywhere?

A.—Yes, Sir.

Then as to the question of hotels in connection with railways the evidence of Mr. Ambrose was as follows:

Q.—What has been your experience in reference to hotels in connection with railways?

A.—From the very beginning of railways the companies have had to provide meals and sleeping accommodation for their passengers, particularly at junction points. The companies have also to provide facilities at points where the train stops at the noon hour, and where the train stops long enough for the passengers to have a meal. That was found necessary, and then later on on the more important routes, and on the important trains they have dining cars in order to avoid having to stop the train at the terminal. But the dining cars cannot provide all that is required. They have put on as many as three and four dining cars on some trains, and they simply cannot handle the traffic, and they have had to provide hotels, and hotel accommodation has grown up with the importance of the city. I have seen places in the West that started out with a lunch counter and ended up with a fairly good sized hotel.

Q.—You say the hotel accommodation varies with the size of the system, and the size and importance of the point?

A.—Yes, and the importance of the point.

Q.—Have you anything to say as to hotel accommodation being a feeder for the railway?

A.—Hotel accommodation must have something to do with competitive lines. Take for instance the Pennsylvania System in New York, they built a hotel there in order to compete with the New York Central which had a hotel on its property, and that is the way it goes. I do not know whether or not the hotel accommodation increases traffic or not, but it certainly is an accommodation for the customers of the railway.

Q.—And an inducement for passengers to visit certain points?

A.—Yes.

Q.—In the present case, how is the Royal York Hotel related to the station structurally?

A.—There is an underground tunnel from the station to the hotel, and passengers can leave the station and be under cover all the time while they are going to the hotel.

Q.—That tunnel is directly connected with the station?

A.—Yes.

The said witness being asked:

Q.—What is the chief purpose of the steam plant, what does it do?

A.—Heating purposes.

Q.—What would you say was the basic purpose of the plant?

A.—Economy in heating.

Q.—For railway purposes?

A.—Primarily for railway purposes, there is no question about that.

Q.—If the Royal York were not there, and there were no postal facilities, would the steam plant be necessary?

A.—Oh, absolutely.

From the above evidence, and the evidence of Mr. Ambrose is the only evidence before the Board, it would appear that the post office facilities referred to, and the Royal York Hotel, being owned and operated by the Canadian Pacific Railway Company, are incidental to the working of the railway system, and that the plant in question is a structure, or a property on railway lands, used exclusively for railway purposes or incidental thereto, thereby coming under subsection (3) of Section 50 of "The Assessment Act," being Chapter 238, R.S.O. 1927, and is therefore exempt from taxation.

The appeal must therefore be dismissed.

And the Board makes no Order for costs, save and except that the Appellant shall pay \$10.00 for the Law Stamps required for this Order.

(Sgd.) C. R. McKEOWN,

Chairman.

I agree:

(Sgd.) A. B. INGRAM,

Vice-Chairman.

Dated Toronto,

the 29th day of January, A.D. 1930.

PROCEDURE FILE A-2597

BETWEEN:

The General Accident Assurance Co. of Canada,

Appellant,

—and—

The Corporation of the City of Toronto,

Respondent.

(Assessment Appeal)

January 28th. Hearing, pursuant to Appointment, 10.30 to 10.35 A.M., at Board's Chambers. Adjourned by consent to Tuesday, February 4th, 1930, at 10.30 A.M.

February 11th. Hearing continued, pursuant to adjournment and postponement, 10.30 A.M. to 4 P.M. Hearing concluded. Judgment *viva voce* at conclusion of Hearing, allowing appeal and fixing assessment of building at \$300,000.

PROCEDURE FILE A-2598

BETWEEN:

The Guardian Realty Co. of Canada, Ltd.,

Appellant,

—and—

The Corporation of the City of Toronto,

Respondent.

(Assessment Appeal)

January 28th. Hearing, pursuant to Appointment, 10.30 A.M. to 12.30 P.M., at Board's Chambers. Hearing concluded. Judgment *viva voce* at conclusion of Hearing, dismissing appeal. (See Reporter's Notes.)

PROCEDURE FILE A-2603

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its By-law No. 12447, restricting the area on either side of Whitehall Road, part of Summerhill Avenue, part of Douglas Drive, Gregory Avenue and Highland Avenue.

January 3rd. Application and material filed.

January 29th. Hearing, pursuant to Appointment, 10.30 to 11 A.M., at Board's Chambers. By-law to be amended excluding west end of Summerhill Avenue and to provide for duplexes and double duplexes on Summerhill Avenue, Whitehall Road and Highland Crescent (west side). (See Reporter's Notes.) Hearing adjourned to 19th February, at 10.30 A.M., at Board's Chambers.

February 19th. Hearing continued, 10.30 to 11 A.M. Adjourned at request of Applicant's Solicitor to 10.30 A.M., Thursday, 13th March, 1930.

March 13th. Hearing continued, 10.30 A.M. to 12.15 P.M. Hearing concluded. Judgment reserved. Parties and City Counsel to consider single duplexes.

June 21st. Amending By-law No. 12721 filed.

June 23rd. Board directs draft Order, filed by city, to be approved by Solicitors for several parties interested.

July 8th. Approved draft Order filed.

July 9th. Order, approving By-law No. 12447, as amended by By-laws Nos. 12508 and 12721, issued.

July 9th, 1930.

ORDER

The application of the Corporation of the City of Toronto, for approval, pursuant to Section 398, subsection (2b) of "The Municipal Act," being R.S.O. 1927, Chapter 233, of its By-law No. 12447 having come on for hearing before this Board on the 29th day of January, A.D. 1930, in the presence of Counsel on behalf of the Applicant as well as in the presence of a number of property owners affected and their Counsel, when this Board having heard all parties was pleased to direct that the application stand over until the 19th day of February, A.D. 1930, and to recommend that in the meantime the said By-law should be reconsidered by the Council of the Corporation of the City of Toronto.

And the said application having come on again for hearing before this Board on the 19th day of February, A.D. 1930, and this Board having been pleased to direct that the application further stand over until the 13th day of March, A.D. 1930.

And the said application having come on again for hearing before this Board on the 13th day of March, A.D. 1930, in the presence of Counsel on behalf of the Applicant as well as in the presence of a number of property owners affected and their Counsel, and By-law No. 12508 of the Corporation of the City of Toronto, passed on the 24th day of February, 1930, and intituled "A By-law to amend By-law No. 12447 prohibiting the use of land or the erection or use of buildings for any other purpose than that of detached private residences on property abutting on Whitehall Road and neighbouring streets," having been laid by the Applicant before this Board for its approval along with the said By-law No. 12447, the Board having heard what was alleged by all parties and considerable difference of opinion having become evident, this Board was pleased to direct that the said application should stand over for judgment to enable the said owners and their Counsel to come to an agreement, and the said owners and their Counsel, or certain of them having now arrived at an agreement and By-law No. 12721 of the Corporation of the City of Toronto having in consequence thereof been passed on the 16th day of June, A.D. 1930, intituled "No. 12721. A By-law to amend By-law No. 12447 respecting the use of lands on Whitehall Road and other streets," and the said By-law No. 12721 having now been laid before this Board by the Applicant for approval together with the aforesaid By-laws Nos. 12447 and 12508, upon further considering the said by-laws.

The Board orders, under and in pursuance of Section 398 of "The Municipal Act," that the said By-law No. 12447, being intituled "No. 12447. A By-law to prohibit the use of land or the erection or use of buildings for any other purpose than that of a detached private residence on property abutting on either side of Whitehall Road, part of Summerhill Avenue, part of Douglas Drive, Gregory Avenue and Highland Crescent," as amended by By-law No. 12508, being intituled "No. 12508. A By-law to amend By-law No. 12447 prohibiting the use of land or the erection or use of buildings for any other purpose than that of detached private residences on property abutting on Whitehall Road and neighbouring streets," and as further amended by the said By-law No. 12721, being intituled "No. 12721. A By-law to amend By-law No. 12447 respecting the use of lands on Whitehall Road and other streets," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2608

BETWEEN:

Caleb Green,

Appellant,

—and—

The Corporation of the City of Ottawa,

Respondent.

(Assessment Appeal)

(Property)

January 7th. Notice of Appeal filed.

January 31st. Hearing, pursuant to Appointment, 9.30 to 10.30 A.M., at the Council Chamber, Ottawa. Appeal dismissed.

PROCEDURE FILE A-2613

BETWEEN:

Fred R. Curelly, *et al*,

Applicants,

—and—

A. C. Beatty, M.D. (trading as The Beatty
Telephone System),

Respondent.

Complaint under Section 90 of "The Telephone Act" as to service.

January 10th. Application filed.

February 3rd. Hearing, 11 A.M., Town Hall, Port Hope. (Chairman authorized under Section 8, Chapter 225, R.S.O.) Respondent directed to repair his line as soon as weather conditions permit. Board's Inspector to inspect system later and report. If Respondent then in default approval of rates may be cancelled.

April 24th. Inspector's Report filed.

October 24th. Inspector's Report filed.

November 11th. Inspector's Report filed.

PROCEDURE FILE A-2624

Application by the City of Stratford, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 3315, amending its Restricted Area By-law No. 2740, exempting part Lot No. "F," Canada Company's Survey.

January 24th. Application and material filed.

February 18th. Order.

February 18th, 1930.

ORDER

The application of the said Corporation having been heard by this Board at the Sittings held pursuant to the Appointment therefor given by this Board at Stratford on Tuesday, the 18th day of February, A.D. 1930, upon reading the said By-law and the statutory Declarations of Walter Herbert Dorland, Clerk of the said municipality, and James Morgan Riddell, filed, and the exhibits therein referred to, and it appearing that no person attended at the said Sittings interested in, opposing or promoting the said By-law No. 3315, except J. M. Riddell, Counsel for the Corporation of the City of Stratford.

1. The Board orders, under and in pursuance of subsection 2*b* of Section 398 of "The Municipal Act," that the said By-law No. 3315 of the City of Stratford, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2649

Application by the City of Kitchener, under subsection (2*b*) of Section 398 of "The Municipal Act," for approval of its By-law No. 2134, amending its Zoning Ordinance By-law No. 1823 (as amended by 1834 and 1835), by adding to Division "B," Light Industrial Districts, Section 3—"Eleventhly—Lot No. 13, Registered Plan No. 334."

February 5th. Application and material filed.

March 5th. Hearing, pursuant to Appointment, 10 to 11 A.M., Council Chamber, Kitchener. Adjourned *sine die*.

PROCEDURE FILE A-2657

Application by the Board of Park Management of the City of Hamilton, under subsection (6) of Section 12 of "The Public Parks Act," for approval of its By-law No. 12, setting aside certain park lands, 6.12 acres ("Woodlands Park") for athletic purposes and for the purposes of sport, exhibitions and other lawful amusements or entertainments.

February 11th. Application and material filed.

March 11th. Hearing, pursuant to Appointment, 10.45 to 11.15 A.M., at Council Chamber, Hamilton. Application granted.

March 18th. Draft Order filed.

March 20th. Order issued.

March 11th, 1930.

ORDER

Upon the application of the said Board of Park Management of the City of Hamilton for an Order pursuant to subsection (6) of Section 12 of "The Public Parks Act,"

(a) Approving of the setting apart of certain park lands, hereinafter referred to, purchased by the Corporation of the City of Hamilton for park purposes (the management, regulation and control of which are,

pursuant to Section 3, subsection (1) of "The Public Parks Act," vested in the said "Parks Board") for athletic purposes and for the purposes of sport, exhibitions, and other lawful amusements, such lands being set out in Schedule "A" hereto attached;

And (b) Approving of By-law No. 12 passed by the said Board of Park Management of the City of Hamilton on the 20th day of January, 1930, and the lands referred to in said Schedule "A," namely:

PARCEL ONE—Part of Chedoke Civic Golf Club lands;

PARCEL TWO—The Stadium (formerly Scott Park);

PARCEL THREE—Victoria Park;

PARCEL FOUR—Woodland Park; and

PARCEL FIVE—Eastwood Park.

and Notice of Hearing of the said application having been duly given and published as directed by this Board for the 11th day of March, 1930, at the Council Chamber in the City Hall, in the City of Hamilton, and the Board having held Sittings at the said time and place and no one appearing in opposition to the application; and upon hearing what was alleged on behalf of the said Board of Park Management, and upon consideration of the evidence adduced by the Applicant, the reading of the said By-law and what was alleged by Counsel;

It is ordered under and in pursuance of Section 12, subsection (6) of "The Public Parks Act," that By-law No. 12 of the said Board of Park Management of the City of Hamilton, passed on the 20th day of January, 1930, a certified copy of which By-law and the Schedule "A" therein referred to, has been filed with this Board, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2659

In the matter of the application of Thomas Stewart, Ethel Dodd and others, under Section 21 of "The Municipal Act," for detachment of certain farm lands from the Village of Port Perry and the annexation of same to the Township of Reach.

February 12th. Application filed.

April 16th. Hearing, pursuant to Appointment, 11 A.M. to 12.50 P.M., Council Chamber, Port Perry. Application refused except as to two parcels. Judgment reserved as to these pending settlement between parties.

PROCEDURE FILE A-2670

Application by the Township of Etobicoke, under "The Township of Etobicoke Act, 1923" (13-14 Geo. V, Chapter 62) and amendments, for approval of the setting aside of its Water Area No. 15, as designated by By-law No. 3488.

February 19th. Application and material filed.

March 18th. Hearing, 10.30 to 10.45 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

March 21st. Draft Order filed.

March 22nd. Order issued.

March 18th, 1930.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and the other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant and no one appearing in opposition to the application, and it appearing that the said By-law describes an area which to this Board appears satisfactory.

The Board orders and certifies, under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 Geo. V, and amendments thereto, that the said By-law No. 3488, intituled "By-law No. 3488. A By-law of the Municipality of the Township of Etobicoke to set aside and designate a defined section or area in the Township of Etobicoke wherein to construct and extend a system of watermains and waterworks for the benefit of such defined area," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,

Chairman.

PROCEDURE FILE A-2671

Application by the Township of Etobicoke, under "The Township of Etobicoke Act, 1923" (13-14 Geo. V, Chapter 62) and amendments, for approval of the setting aside of its Water Area No. 16, as designated by By-law No. 3489.

February 19th. Application and material filed.

March 18th. Hearing, 10.30 A.M.; 10.40 to 10.45 A.M., at the Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

March 21st. Draft Order filed.

March 22nd. Order issued.

March 18th, 1930.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and the other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant and no one appearing in opposition to the application, and it appearing that the said By-law describes an area which to this Board appears satisfactory.

The Board orders and certifies, under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 Geo. V, and amendments thereto, that the said By-law No. 3489, intituled "By-law No. 3489. A By-law of the Municipality of the Township of Etobicoke to set aside and designate a defined section or area in the Township of Etobicoke wherein to construct and extend a system of watermains and waterworks for the benefit of such defined area," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,

Chairman.

PROCEDURE FILE A-2673

Application by the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 6796, restricting Monkland Avenue to detached private dwellings.

February 20th. Application and material filed.

March 21st. Hearing, pursuant to Appointment, 9.30 to 10.30 A.M., Council Chamber, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.).

March 24th. Report of Mr. Commissioner Ellis filed and adopted. Application granted.

March 28th. Draft Order filed.

March 28th. Order issued.

REPORT OF MR. COMMISSIONER ELLIS

I heard this application at Ottawa, on the 21st instant.

By-law 6796 was passed for the purpose of continuing building restrictions contained in deeds of the lots covered by the By-law. These restrictions expired at the beginning of this year. There are thirty-eight property owners concerned and of these thirty had petitioned the City Council to pass the said By-law 6796. Two property owners appeared in opposition.

Under the circumstances I recommend that the By-law be approved.

Respectfully submitted,

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, March 24th, 1930.

Adopted:

(Sgd.) C. R. McKEOWN,
Chairman.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

March 24th, 1930.

ORDER

The application of the Corporation of the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its By-law No. 6796, being a By-law restricting the use of land and the erection and use of buildings on land abutting on Monkland Avenue in the said city, having come on to be heard before J. A. Ellis, Esquire, Commissioner, duly authorized as provided by Section 8 of Chapter 225 of the Revised Statutes of Ontario, at a special Sittings held in the City of Ottawa pursuant to Appointment on Friday, the 21st day of March, 1930, at the hour of half-past nine o'clock in the forenoon, upon hearing certain parties in support of the said By-law and certain other parties who appeared in opposition thereto, and it appearing that a copy of the said Appointment and by-law had been duly served upon all owners whose property would be affected

thereby and the said Commissioner having reported to the Board that the said By-law should be approved, and such report having been adopted as the basis of this Order;

The Board doth hereby approve of said By-law No. 6796;

And the Board doth direct that the Applicant Corporation do cause Law Stamps to the value of \$10.00 to be affixed to this Order in payment of the Board's tariff fee upon this application.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2674

Application of the Corporation of the City of Ottawa, under subsection (2b) of Section 398 of "The Municipal Act," for approval of its By-law No. 6797, being a by-law amending By-law No. 6237.

February 20th. Application and material filed.

March 21st. Hearing, 9.30 to 10.30 A.M., Council Chamber, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.).

March 24th. Report of Mr. Commissioner Ellis filed and adopted. Application granted.

March 28th. Draft Order filed.

March 28th. Order issued.

REPORT OF MR. COMMISSIONER ELLIS

I heard this application at Ottawa on the 21st instant.

The purpose of the By-law is to remove from Residential Area By-law No. 6237, two lots for the purpose of erecting thereon a church. There was no opposition, and I recommend that By-law No. 6797 be approved.

Respectfully submitted,

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, March 24th, 1930.

Adopted:

(Sgd.) C. R. McKEOWN,
Chairman.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

March 24th, 1930.

ORDER

The application of the Corporation of the City of Ottawa, under subsection (2b) of Section 398 of "The Municipal Act," for approval of its By-law No. 6797 amending By-law No. 6237, having come on to be heard before J. A. Ellis, Esquire, Commissioner, duly authorized to hear and report upon the said,

application as provided by Section 8 of Chapter 225 of the Revised Statutes of Ontario, at a special Sittings held at the City of Ottawa, pursuant to Appointment, on Friday, the 21st day of March, 1930, at the hour of half-past nine o'clock in the forenoon, and it appearing that a copy of the said By-law and of the said Appointment had been served upon the owners of all property that would be affected by the passage of the said By-law No. 6797, and no one appearing in opposition thereto, and the said Commissioner having reported to the Board that the said By-law should be approved, and such report having been adopted as the basis of this Order.

The Board doth hereby approve of the said By-law No. 6797.

And the Board doth direct that the said Corporation do cause Law Stamps to the value of Ten Dollars (\$10.00) to be affixed to this Order in payment of the Board's tariff fee upon the said application.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2685

In the matter of the Petition of William Benjamin Halladay, under Section 20 of "The Municipal Act," for annexation to the Town of Weston of part of the Township of North York, being part Lot No. 8, Concession V, west of Yonge Street, in the said township.

February 24th. Petition, Resolution of Town Council and other material filed.

March 6th. Application granted.

March 7th. Approved draft Order filed.

March 7th. Order issued.

March 7th, 1930.

ORDER

Upon the application of the Corporation of the Town of Weston for an Order annexing to the said Town of Weston the land described in the Resolution of the Council of the Town of Weston passed on the 27th day of January, 1930, in the presence of Counsel for the Town of Weston and the Township of North York, and the Board having considered the application and the plan showing the lands to be annexed, having heard read the said Resolution and the Petition of William Benjamin Halladay, the notice of such Resolution and Petition given by the Council of the Town of Weston to the Council of the Township of North York, and upon hearing what was alleged by Counsel aforesaid, and the owners of the lands described in the said Resolution of the Council of the Town of Weston consenting thereto, and the Corporation of the Township of North York also consenting thereto;

The Board orders and proclaims that the lands and premises in the Township of North York, in the County of York, mentioned in the said application, and being described as:

All and singular that certain parcel or tract of land and premises situate lying and being in the Township of North York and Province of Ontario, and being composed of part of Lot Number Eight (8), Concession Five (5) west of Yonge Street, in the Township of North York, and being more particularly described as follows:

Commencing at a point on the southerly limit of said Lot Number Eight (8) where it is intersected by the centre line of Rosemount Avenue, in the Town of Weston, according to Registered Plan Number 1704, filed in the Registry Office for the Registry Division of the East and West Riding of the County of York; thence north twenty degrees west, four hundred and ninety-four feet three inches (494' 3''); thence north seventy-four degrees east, three hundred and eighty-eight feet six inches (388' 6''); thence south twenty degrees east, two hundred and seventy-six feet six inches (276' 6'') to an iron bar planted; thence north seventy-four degrees east, four hundred and twenty feet three inches (420' 3'') to an iron bar planted; thence south nine degrees east, two hundred and eighteen feet ten inches (218' 10'') to a point on the southerly limit of the aforesaid Lot Number Eight (8); thence south seventy-four degrees west along the said southerly limit of Lot Number Eight (8) seven hundred and sixty-nine feet nine inches (769' 9'') more or less to the point of commencement.

1. The said annexation shall take effect from and after the first day of January, 1930.

2. That the Corporation of the Township of North York shall forthwith prepare and furnish the Corporation of the Town of Weston with a Special Roll showing all arrears of taxes or special rates assessed against the lands above described up to the first day of January, 1930, and the persons assessed therefor.

3. That the Corporation of the Town of Weston shall have the right to collect all said arrears of taxes according to said Special Roll, including the right to distraint for non-payment of said arrears, or if necessary, the right to sell the said lands, if any, for non-payment of such arrears, as fully as if the said taxes had been assessed and levied by such Corporation, but the proceeds of the collection of such arrears or any part of same, after deducting therefrom the proper costs and expenses in connection with the collection of same as provided in "The Assessment Act," shall be repaid by the Corporation of the Town of Weston to the said Corporation of the Township of North York as and when collected, provided that the said Corporation of the Town of Weston shall proceed to collect the said arrears of taxes shown on the said Special Roll in the same way as if it had assessed and levied the same, but shall not be responsible to the Corporation of the Township of North York for any of such arrears of taxes which it may be unable to collect.

4. That the Corporation of the Township of North York shall indemnify and save harmless the Corporation of the Town of Weston from all loss, costs, charges and expenses arising from any act or omission of the Township of North York or their officials or servants in connection with the said Special Roll.

5. That from and after the first day of January, 1930, the said lands may be assessed in the usual way as part of the said Town of Weston.

6. The adjustments of assets and liabilities consequent upon the said annexation shall be made as of the first day of January, 1930, and in accordance with the provisions of Section 38 of "The Municipal Act."

(Seal)

(Sgd.) C. R. McKEOWN,

Chairman.

PROCEDURE FILE A-2689

Application by the Village of Forest Hill, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 436, restricting to detached or semi-detached residences, Lots 112, 113, 114, 115, 116 and 117, Plan 645E, Toronto, all as set out in Section 8 of Chapter 124, Ontario Statutes, 1929.

February 26th. Application and material filed.

March 18th. Hearing, 10.30 to 10.45 A.M., at Board's Chambers. Application granted. R. G. Hunter to approve draft Order. Order not to issue for one week.

PROCEDURE FILE A-2697

BETWEEN:

The Commissioners for the Telephone System of the
Municipality of Tyendinaga,

Applicants,

—and—

James V. Walsh,

Respondent.

Application under Section 94 of "The Telephone Act,"
for an Order fixing the terms and conditions for use by
the Respondent of the poles of the Applicant System.

February 28th. Application filed.

March 14th. Hearing, pursuant to Appointment, City of Belleville.
(Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.).

April 14th. Report of Mr. Commissioner Ellis filed and adopted.

April 14th. Order.

REPORT

This application was heard by the undersigned, pursuant to Appointment, at Belleville on March 14th, 1930, the Board's Supervisor of Telephone Systems being also present. The Applicants were represented by R. F. Kinnear, Chairman of the Commissioners for the Telephone System of the Municipality of Tyendinaga and the Respondent by A. B. Collins, Counsel.

From the evidence adduced and from records on file with the Board it would appear that the telephone system of the Municipality of Tyendinaga was established in 1919 for the purpose of furnishing service to certain ratepayers who had petitioned for same, in accordance with the provisions of Part II of "The Ontario Telephone Act," the Respondent being one of the petitioners and at that time Reeve of the Municipality.

The system, as constructed, provided for the furnishing of party line service to all subscribers, each subscriber agreeing to pay his share of the cost of establishing the system, either in cash or in ten annual payments of principal and interest to meet the instalments in repayment of the debentures in respect of such establishment. In addition to payment of the share of the cost of establishing the system each subscriber was required to pay his share of the cost of maintenance.

The Respondent, who lived approximately five miles from the Central Office of the system, desired to be furnished with service by means of an "individual line" in lieu of the "party line" service furnished to other subscribers, and, at his request, a by-law was passed by the subscribers to the system at a meeting held on January 27th, 1919, granting to the Respondent the right to erect, at his cost, a wire or wires upon the poles of the municipality and to pay for the privilege of attaching the said wire or wires to the said poles an annual rental of twenty-five cents. The by-law further provided that the Respondent:

1. Pay the cost of repairs and maintenance of the said wire or wires.
2. That he also pay in common with the other subscribers his equal share of the cost of establishing the system.
3. That in the event of the said line being offered for sale the municipality should be given the first right to purchase same.

It is submitted by the Applicants that the charge for similar facilities as those enjoyed by the Respondent, i.e., for pin space rental, as generally in effect in the telephone business is ten cents per pole per annum, and that there is no reason why any exception to a practice so established should continue to be made in favour of the Respondent.

It is further submitted that there is considerable dissatisfaction among the subscribers by reason of the favoured terms which have been enjoyed by the Respondent for the past ten years.

In the opinion of the undersigned it is doubtful whether "The Telephone Act" confers upon the subscribers authority to make any such bargain as that indicated in the by-law referred to herein. Whether this be so or not, any such bargain or arrangement involving, as it does, the terms upon which telephone service shall be furnished requires the approval of this Board before it has any validity. In this connection it is pointed out that the line erected by the Respondent, being admittedly his property and being used for the interchange of telephone messages and service passing over said line and the system of the Applicant, any agreement or arrangement for such interchange requires the approval of this Board, and Section 97 of "The Telephone Act" clearly states that no such agreement shall have any validity or effect until such approval is obtained. As no approval to the arrangement referred to herein between the Applicants and Respondent has ever been applied for or granted by this Board, it is my opinion that it is invalid.

In view of the foregoing it is only necessary for the Board to decide whether the charge for which approval is now asked is a reasonable one. The undersigned therefore recommends that this decision be rendered in the affirmative and that this application be granted.

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, April 14th, 1930.

Adopted as the basis of the Board's Order.

April 14th, 1930.

ORDER

Upon the application of the above-named Applicants, upon reading the Report of J. A. Ellis, Esquire, Commissioner, who pursuant to Appointment, heard the evidence adduced on behalf of the Applicants and Respondent, which Report has been adopted as the basis of this Order, and other material filed.

The Board orders that the rental charge for pin space occupied by the circuit of the Respondent upon the poles of the Telephone System of the Municipality of Tyendinaga shall be ten cents (10) per pole per circuit per annum, and that the said charge be and the same is hereby approved as from April 1st, 1930.

And it is further ordered that the charge herein provided shall apply to all circuits other than those of the Telephone System of the Municipality of Tyendinaga which may hereafter be attached to the poles of the said system.

And the Board makes no Order for costs or for Law Stamp fee in respect of this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2702

Application by the Corporation of the City of Ottawa, under subsection (2b) of Section 398 of "The Municipal Act," for approval of its By-law No. 6804, amending its Restricted Area By-law No. 5997 by eliminating therefrom Blocks Letters "A," "B" and "C" on the north side of Carling Avenue as shown on Registered Plan No. 71960.

March 5th. Application and copy of By-law No. 6804 filed.

March 21st. Hearing, 9.30 to 10.30 A.M., at the Council Chamber, City of Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.).

March 24th. Report of Mr. Commissioner Ellis filed and adopted. By-law No. 6804 to be amended.

April 10th. Amending By-law No. 6816 filed.

April 15th. Draft Order filed.

April 16th. Order issued.

REPORT OF MR. COMMISSIONER ELLIS

I heard this application at Ottawa, on the 21st instant.

By-law No. 6804 was passed to enable the Protestant Orphans' Home to erect a new Home on the land mentioned in the by-law.

A number of property owners appeared. They stated that they had no objection to the by-law provided it was made clear that the land mentioned therein could not be used for any purpose other than that for the erection of the Home mentioned.

I recommend that the by-law be approved subject to its being amended as above mentioned.

Respectfully submitted,

(Sgd.) J. A. ELLIS,
Commissioner.

Dated at Toronto, March 24th, 1930.

Adopted:

(Sgd.) C. R. McKEOWN,
Chairman.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

April 10th, 1930.

ORDER

The application of the Corporation of the City of Ottawa, under subsection (2b) of Section 398 of "The Municipal Act," for approval of its By-law No. 6804 amending its Restricted Area By-law No. 5997 by eliminating therefrom Blocks "A," "B" and "C," on the north side of Carling Avenue as shown on Registered Plan No. 71960 having come on to be heard before J. A. Ellis, Esquire, a Commissioner duly authorized as provided by Section 8 of Chapter 225 of the Revised Statutes of Ontario, at a special Sittings held at the City of Ottawa pursuant to Appointment on Friday, the 21st day of March, 1930, at the hour of half-past nine o'clock in the forenoon, upon hearing certain persons in support of the said by-law and certain other persons who appeared in opposition thereto, and it appearing that a copy of the said Appointment and By-law had been duly served upon all owners whose property would be affected thereby and the said Commissioner having reported to the Board that the said by-law should be approved subject to its being amended by providing that the said Blocks Letters "A," "B" and "C" should not be used for any purpose other than for the erection of buildings for use for the purposes of an Orphans' Home or House of Refuge, and such report having been adopted as the basis of this Order, and the Applicant Corporation having subsequently passed By-law No. 6816 amending said By-law No. 6804, in accordance with the recommendation contained in the said Report,

The Board doth hereby approve of said By-law No. 6804 as amended by said By-law No. 6816.

And the Board doth direct that the Applicant Corporation do cause Law Stamps to the value of \$10.00 to be affixed to this Order in payment of the Board's tariff fee upon this application.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2720

In the matter of the Petition of William Arthur Bryanton, and others, under Section 8 of "The Local Improvement Act," against the type of pavement proposed to be constructed in the Town of Gravenhurst, on Bay Street, Austin Street, West Bay Street and Brock Street.

March 13th. Petition filed.

March 13th. Supplementary Petition of Jeanie A. McNeice filed.

April 24th. Hearing, 1.15 to 2.30 P.M., Council Chamber, Gravenhurst.
Judgment reserved until April 28th, 1930.

April 28th. Settlement arranged.

May 2nd. Draft Order filed.

May 3rd. Order issued.

April 28th, 1930.

ORDER

Upon the application of the said William Arthur Bryanton and others to this Board under Section 8 of "The Local Improvement Act," against the type of pavement to be constructed by the Town of Gravenhurst on Bay, Austin, West Bay and Brock Streets in the said town, and upon hearing read the Petition

herein, the Appointment for Hearing, and the evidence adduced and what was alleged by the Appellants and their Counsel and by Counsel for the Corporation of the town, and on consideration of the material filed and judgment having been reserved to this date.

This Board doth order that the Council of the said town may proceed with the construction of said pavements and that the annual sum of twenty-five cents per foot frontage shall be charged to the properties abutting upon each of said pavements during the period of twenty years for which the special assessment is to be imposed, and that the balance of the cost of each of said pavements shall be payable by the Corporation at large.

And this Board doth make no Order as to costs except that the Town of Gravenhurst pay \$15.00 for Law Stamps, the Board's tariff fee herein.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2727

Application by the Township of Etobicoke, under Chapter 62 (13-14 Geo. V) and amendments, for approval of its By-law No. 3494, enlarging Water Area No. 7.

March 18th. Application and material filed.

April 15th. Hearing, pursuant to Appoint, 10.30 to 10.45 A.M., at the Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

April 22nd. Draft Order filed.

April 22nd. Order issued.

April 15th, 1930.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application, the copy of the said by-law, the Declaration of Stephen Barratt and the other material filed, and no one appearing in opposition to the said application.

The Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, (13-14 Geo. V), and amendments thereto, that the said By-law No. 3494, intituled "By-law No. 3494, A By-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 7, as established by By-law No. 1623 and enlargements thereof, by adding thereto the lands hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 7 into the area hereinafter described for the benefit of the said Area," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2730

In the matter of Section 20 of "The Municipal Act," and in the matter of the application of the Corporation of the City of Toronto for annexation thereto of part of the Township of East York, being the westerly half of Bayview Avenue,

from Moore Avenue to Eglinton Avenue, and in the matter of the application of the Corporation of the Town of Leaside for annexation thereto of part of the Township of East York, being the easterly half of that portion of Bayview Avenue from Moore Avenue to Eglinton Avenue.

March 20th. Application filed.

May 2nd. Approved draft Order filed.

May 2nd. Order issued.

May 2nd, 1930.

ORDER

Upon the application of the said Corporations, and upon reading the Affidavit of William H. Heaton, Clerk of the Township of East York, the copy of By-law No. 1809 of the Township of East York, the certified copies of the Resolutions of the Councils of the City of Toronto and the Town of Leaside, and the other material filed.

The Board orders, under and in pursuance of the provisions of Section 20 of "The Municipal Act," and amendments, that that part of the adjacent Township of East York, more particularly described as follows: Commencing at the intersection of the centre line of Moore Avenue with the westerly limit of the allowance for road between Lots Numbers 11 and 20 in the Third Concession from the Bay, known as Bayview Avenue, being the southeasterly angle of the City of Toronto, as defined by an Order of the Ontario Railway and Municipal Board, dated May 1st, 1914; thence northerly, along the westerly limit of Bayview Avenue being the easterly limit of the City of Toronto, as defined by the aforesaid Order and also by the Order of the said Board, dated December 12th, 1912, to the northwesterly angle of Eglinton Avenue and Bayview Avenue; being the northeasterly angle of the lands described in the last mentioned Order; thence easterly, on the production easterly of the northerly limit of Eglinton Avenue, thirty-three feet to the centre line of Bayview Avenue; thence southerly, along the said centre line to the production easterly of the centre line of Moore Avenue; thence westerly along the last mentioned centre line thirty-three feet to the point of commencement, be and the same is hereby annexed to the City of Toronto.

The Board further orders under and in pursuance of the provisions of Section 20 of "The Municipal Act" and amendments that that part of the adjacent Township of East York more particularly described as follows: All and singular that certain parcel or tract of land and premises situate, lying and being in the Township of York in the County of York, being composed of part of Bayview Avenue, being the road allowance in front of Lots 12, 13, 14 and 15 in the Third Concession from the Bay of said township and which said parcel is more particularly described as follows: Commencing at the southwesterly angle of the Town of Leaside, the said angle being in the easterly limit of Bayview Avenue; thence westerly, along the production westerly of the southerly limit of the said Town of Leaside thirty-three feet more or less to the centre line of Bayview Avenue; thence northerly, along the centre line of Bayview Avenue to the production easterly of the northerly limit of Eglinton Avenue; thence easterly along the said produced limit thirty-three feet more or less to the westerly limit of the Town of Leaside; being the easterly limit of Bayview Avenue aforesaid; thence southerly, along the last mentioned limit to the point of commencement, be annexed to the Town of Leaside.

And the Board further orders that the said annexation shall take effect from the date of this Order.

And the Board further orders that the City of Toronto shall assume all liabilities with respect to the said lands annexed to it as and from the date of this Order.

And the Board further orders that the Town of Leaside shall assume all liabilities with respect to the said lands annexed to it as and from the date of this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2734

BETWEEN:

Edward Dawson, *et al*,

Applicants,

—and—

The Corporation of the Township of Cavan,

Respondent.

(Application under Section 17 of "The Telephone Act,"
for an Order granting the Municipality of South
Monaghan the right to extend its Telephone System
into the Township of Cavan.)

March 22nd. Application and material filed.

April 2nd. Hearing, 11 A.M. to 12 M.D., Town Hall, Port Hope. Permission given South Monaghan Municipal Telephone System to extend its lines into the Township of Cavan, to Lot 23, Concession VIII, for purpose of furnishing service to Percy Moncrieff and W. A. Wood.

April 3rd. Order.

April 3rd, 1930.

ORDER

Upon the application of the above named Applicants, in the presence of the Applicants and Respondent represented by the Reeve and Councillors of the Municipal Corporation of the Township of Cavan, upon hearing the evidence adduced on behalf of the Applicants and Respondent and the Commissioners for the Telephone System of the Municipality of South Monaghan, and all parties consenting.

The Board orders, pursuant to Section 17 of "The Telephone Act" (R.S.O. 1927, c. 227), that the extension by the Municipality of South Monaghan of its Telephone System to Lot 23, Concession VIII, of the Township of Cavan for the purpose of furnishing service to Percy Moncrieff and W. A. Wood, be and the same is hereby approved.

And it is further ordered that nothing herein contained shall be construed as conferring authority upon the said Municipality of South Monaghan to further extend its telephone system into the Township of Cavan, save and except as provided in By-law No. 496 of the Municipal Corporation of the said Township of Cavan, dated March 16th, 1908.

And the Board makes no Order for costs or for Law Stamps in respect of this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2739

BETWEEN:

The Municipality of Village of Woodbridge,

Applicant,

—and—

The Woodbridge & Vaughan Telephone Co. Ltd.,

Respondent.

(Complaint, under Section 103 of "The Telephone Act,"
re toll charges between subscribers located in the
Village of Woodbridge and Townships of Vaughan
and King.)

March 24th. Application filed.

April 4th. Hearing, 10.30 to 11.30 A.M., at Board's Chambers. Adjourned to May 6th, 1930, at 10.30 A.M. Later, by consent, adjourned to May 20th, 1930.

May 20th. Hearing continued, 10.30 A.M., to 12 M.D., at Board's Chambers. Judgment reserved.

May 26th. Judgment delivered.

JUDGMENT

This was an application made by the Applicants herein to have cancelled an Order issued by this Board on the 20th day of June, A.D. 1929, wherein, upon the application of the Respondent, The Woodbridge and Vaughan Telephone Company, Limited, it was ordered that the Tariff of Tolls, dated the 19th of June, 1929, and attached to said Order, should be approved, provided that the Board may at any time hereafter, of its own motion, or upon any application or complaint, rescind said Order and withdraw its approval of any of the said tolls.

The Woodbridge and Vaughan Telephone Company was originally organized with a Central Office at Woodbridge, but by the subsequent purchase of The King Telephone Company and by the extending of its subscribers, a Central Office was opened at Maple and a third Central Office continued at King City.

By virtue of the toll schedule referred to in the Order of June 20th, 1929, a charge of five cents (5c.) was made to subscribers between Maple and Woodbridge and a charge of ten cents (10c.) between King and Woodbridge and it is this charge that the Applicants ask to have removed.

From the evidence before the Board it appeared that before the inauguration of the toll system the business conducted by this telephone company increased to such an extent that it was almost impossible to give to the subscribers a good or reasonable service between the different switchboards, by reason of the congestion of the lines from Woodbridge to Maple and from Woodbridge to King, and to better the service and to give more satisfaction to its subscribers, the Directors of the company had to face some change in the system.

Two alternatives presented themselves—one the charge of a higher general fee to all the subscribers and with the increased revenue put in a number of extra lines between the different switchboards to enable them to give the service required by their subscribers and at the same time continue as a free service between the several switchboards. The second alternative was to charge a toll as between the different switchboards, thereby cutting out conversations that were not of sufficient importance to the subscribers themselves as to warrant the payment of the small toll that might be exacted. The Directors adopted the second alternative, established a system of tolls set out in the schedule, dated the 19th of June, 1929, and secured *ex parte* the Order of the Ontario Railway and Municipal Board, dated the 20th of June, 1929, approving of the said schedule.

It is with some considerable hesitation that this Board approves of a toll system being charged by rural lines between switchboards of the same company feeling that, if possible, the subscribers to any particular line should receive the benefit of full connection with all the subscribers of that particular line or system without additional charge over and above the annual rental fee. It has been suggested that even over the system of the Respondent this could be accomplished by eliminating the switchboard at Maple and the switchboard at King and having all the lines converge into one Central at Woodbridge, and, if in the near future construction work is being considered by the Woodbridge and Vaughan Telephone Company, this Board would suggest that the matter of ultimately getting its lines centered in one switchboard should be taken into consideration.

With the three Central Offices as at present established it would, perhaps, be impossible to give to the subscribers a reasonably satisfactory service without incurring a rather heavy expense in placing more lines between the different switchboards, and if the ultimate establishment of a single switchboard for the whole system is to be encouraged it would scarcely be advisable to suggest an increased expenditure in putting in additional lines between the present switchboards at Woodbridge and Maple and Woodbridge and King. With this fact before the Board there seems no other alternative for the present at least than to permit the continuance of the toll system now established, which, from the evidence before us, has had the effect of reducing the number of conversations over the system, which conversations of necessity make use of the lines running between the different switchboards, and inasmuch as the conversations eliminated by this toll system are in all probability the less important of the conversations passing over the lines of the company, the Board feels that it cannot at the present at least grant the prayer of the petitioners to set aside the Order of the 20th of June, 1929, above referred to.

We might at the same time call the attention of the Council of the Municipality of the Township of Vaughan to the fact that under "The Telephone Act" the township can, if it sees fit, establish a municipal system, take over the Woodbridge and Vaughan telephone lines at a price to be fixed or agreed upon

and then carry on the business of the company as a municipal system without charging any additional fee as far as the tolls are concerned.

(Sgd.) C. R. McKEOWN,
Chairman.

Dated at Toronto, this 26th day of May, A.D. 1930.

I agree:

(Sgd.) A. B. INGRAM,
Vice-Chairman.

(Sgd.) J. A. ELLIS,
Commissioner.

PROCEDURE FILE A-2742

In the matter of the Petition of A. A. Maricle and others, under Section 8 of "The Local Improvement Act," against a pavement proposed to be constructed as a local improvement on Dalhousie Street South in the Town of Amherstburg, in the County of Essex, from Gore Street to the southerly limits of the Government dock and from the southerly limits of the Government dock to the southerly limits of the said Town of Amherstburg.

March 27th. Petition filed.

April 29th. Hearing, 10 A.M. to 2 P.M., Court House, Sandwich. Judgment reserved.

May 15th. Judgment delivered. Petition dismissed on condition that Corporation pay fifty per cent. of total cost of the pavement on Dalhousie Street, from southerly limits of Government dock to southerly limits of Town of Amherstburg. As regards other portion of pavement the Board does not direct any change. Town Solicitor to draft Order.

May 26th. Approved draft Order filed.

May 28th. Order issued.

May 15th, 1931.

ORDER

This Petition coming on for hearing before A. B. Ingram, Esquire, Vice-Chairman, and J. A. Ellis, Esquire, Commissioner, of The Ontario Railway and Municipal Board, at the Court House, Sandwich, on Tuesday, the 29th day of April, 1930, in the presence of Counsel for the petitioners and for the Town of Amherstburg and for private ratepayers supporting the Petition, judgment having been reserved until this day.

It is ordered and adjudged that the Petition be and the same is hereby dismissed on condition, however, that the Corporation pay fifty per cent. of the total cost of the said pavement from the southerly limits of the Government dock to the southerly limits of the Town of Amherstburg and so far as regards the other portion of the pavement, the Board does not direct any change.

And it is further ordered and adjudged that the Town of Amherstburg pay the Board's tariff fee of \$15.00 which may be charged to the cost of the work.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2751

Application by the Township of Nepean, under Section 12, Chapter 108, Ontario Statutes, 1929, for approval of its By-law No. 1096, establishing Water Area No. 1.

April 4th. Application and copy of By-law filed.

April 25th. Hearing, 9.30 to 11 A.M., Township Hall, Westboro. By-law to be amended taking out McKellar Townsite from Water Area No. 1 and Sewer Area "A," but no decision to be formally given for two weeks, the Township Council in the meantime to make a canvas of McKellar Townsite property owners and if this materially differs from what appears at the Hearing to-day, a new Hearing may be held.

May 28th. Judgment (further deferred for additional two weeks) issued. McKellar Townsite and any adjacent land deemed advisable by township to be eliminated from Areas Nos. 1906 and 1097. By-laws Nos. 1098 and 1099 approved.

June 18th. Amendment By-law No. 1107 filed.

June 18th. Draft Order, approved by Solicitor for McKellar Townsite, filed.

June 19th. Order issued.

In the matter of the applications of the Corporation of the Township of Nepean, under Section 12, Chapter 108, Ontario Statutes, 1929, for approval of the following By-laws:

- No. 1096, establishing Water Area No. 1;
- No. 1097, establishing Sewer Area "A";
- No. 1098, establishing Water Area No. 11; and
- No. 1099, establishing Sewer Area "B."

OPINION OF THE BOARD

These applications were heard at Westboro on the 25th April, 1930.

By-laws Numbered 1098 and 1099 dealt with comparatively small area and there was no objection to them. The Board therefore at the Hearing intimated that these By-laws would be approved.

By-laws Numbered 1096 and 1097 dealt with a very large area, commencing at the westerly boundary of the City of Ottawa and running for considerable distance westerly in the township. The most westerly part of the proposed area is what is known as "McKellar Townsite." This townsite is rather sparsely populated as compared with the balance of the proposed area. In McKellar Townsite it was stated that there are only forty-eight houses and that some thirty-eight owners were opposed. Only one appeared to be in favour of the by-laws. It was urged, on behalf of the township, that McKellar Townsite would, at all events, at some future date, have to come into the scheme, and that if it were taken out of the present scheme it would afterwards entail a larger expense for the property owners of McKellar Townsite to secure sewerage and water services.

At the request of the township the Board agreed to give no formal judgment for two weeks in order to enable the Township Council to see if they could meet, in any way, the objections of the McKellar Townsite property owners. These two weeks were afterwards extended to one month, and the Board now

understands that it has not been found possible to make any arrangement such as mentioned.

Under the circumstances the Board is of the opinion that By-laws Nos. 1096 and 1097 should be amended by excluding therefrom the property included in the McKellar Townsite and any other lands adjacent thereto which the township Council may think it advisable to also exclude by reason of McKellar Townsite being excluded.

The Board will therefore approve of the two last mentioned by-laws when amended as directed.

Dated at Toronto, this 28th day of May, A.D. 1930.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree:

(Sgd.) J. A. ELLIS,
Commissioner.

June 19th, 1930.

ORDER

Upon the application of the said Corporation, and upon consideration of said By-laws Nos. 1096, 1097, 1098 and 1099 at a meeting of the Board held at the Township Hall in the Village of Westboro on the 25th day of April, 1930, and the other material filed, and, after hearing all parties interested and particularly the objections made by the residents of that certain portion of the area described in said By-laws Nos. 1096 and 1097 and known as "McKellar Townsite," and after due consideration of all matters relevant to the said application and the Board having directed that the portion of the said areas known as McKellar Townsite be excluded from the areas to be established under said By-laws Nos. 1096 and 1097 and the said by-laws having been amended accordingly as appears from By-laws Nos. 1107 and 1108 amending the areas to be created and established by the said By-laws Nos. 1096 and 1097.

The Board orders under and in pursuance of the provisions of the said Act, Section 12 of Chapter 108 of the Statutes of Ontario, 1929, as follows:

That said By-law No. 1096 of the Corporation of the Township of Nepean, being a by-law to establish Water Area No. 1 as amended by By-law No. 1107 passed by the said Corporation on the 16th day of June, 1930; By-law No. 1097, being a by-law to establish Sewer Area "A" as amended by By-law No. 1108 passed by the said Corporation on the 16th day of June, 1930; By-law No. 1098 establishing Water Area No. 2 and By-law No. 1099 establishing Sewer Area "B," be and the same are hereby approved.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2752

Application by the Township of Nepean, under Section 12, Chapter 108, Ontario Statutes, 1929, for approval of its By-law No. 1097 establishing Sewer Area "A."

April 4th. Application and copy of by-law filed.

April 25th. Hearing, 9.30 to 11 A.M., Township Hall, Westboro. By-law to be amended taking out McKellar Townsite from Water Area No. 1 and Sewer Area "A," but no decision to be formally given for two weeks, the Township Council in the meantime to make a canvas of McKellar Townsite property owners and if this materially differs from what appears at the Hearing to-day, a new Hearing may be held.

May 28th. Judgment (further deferred for additional two weeks) issued. McKellar Townsite and any adjacent land deemed advisable by township to be eliminated from Areas Nos. 1096 and 1097. By-laws Nos. 1098 and 1099 approved. (See A-2751.)

June 18th. Amending By-law No. 1109 filed.

June 18th. Draft Order, approved by Solicitor for McKellar Townsite, filed.

June 19th. Order issued. (See A-2751).

PROCEDURE FILE A-2753

Application by the Township of Nepean, under Section 12, Chapter 108, Ontario Statutes, 1929, for approval of its By-law No. 1098 establishing Water Area No. 2.

April 4th. Application and copy of by-law filed.

April 25th. Hearing, 9.30 to 11 A.M., Township Hall, Westboro. Water Area No. 2 and Sewer Area "B" approved, there being no opposition. Estimates of cost to be filed.

May 28th. Judgment delivered. (See A-2751.)

June 18th. Draft Order filed.

June 18th. Order issued. (See A-2751.)

PROCEDURE FILE A-2754

Application by the Township of Nepean, under Section 12, Chapter 108, Ontario Statutes, 1929, for approval of its By-law No. 1099 establishing Sewer Area "B."

April 4th. Application and copy of by-law filed.

April 25th. Hearing, 9.30 to 11 A.M., Township Hall, Westboro. Water Area No. 2 and Sewer Area "B" approved, there being no opposition. Estimates of cost to be filed.

May 28th. Judgment delivered. (See A-2751.)

June 18th. Draft Order filed.

June 18th. Order issued. (See A-2751.)

PROCEDURE FILE A-2755

Application by the City of Toronto, under Section 4 of "The Planning and Development Act," for approval of plans of Sections 25, 30, 55, 58, 61, 64, 83, 84, 104, 105, 106, 107, 111, 112, 113 and 118 of the City's General Plan.

April 4th. Application and copy of plan of each section filed.

May 28th. Hearing, 10.30 A.M.; 11.05 to 11.30 A.M., at the Board's Chambers. Plans approved except Section 30. Mr. Grant to notify Upper

Canada College. Hearing adjourned *re* Section 30 to Thursday, June 5th, 1930, at 10.30 A.M., at Board's Chambers.

June 5th. Hearing continued, 10.30 to 10.40 A.M. Application granted.

PROCEDURE FILE A-2769

Application by the City of Kitchener, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 2144, amending its Zoning Ordinance By-law No. 1823 (as amended by 1834 and 1835) as amended by By-law No. 2126.

April 10th. Application and material filed.

May 8th. Hearing, 10.00 to 10.30 A.M., Council Chamber, Kitchener. Application granted.

May 13th. Draft Order filed.

May 17th. Order issued.

May 8th, 1930.

ORDER

Upon the application of the said Corporation and upon reading the copy of the said by-law and the other material filed, and the Board having this day, pursuant to Appointment at the Council Chamber in the City of Kitchener, heard all parties interested, notice having been given pursuant to statute.

The Board orders under and in pursuance of the provisions of Section 398 of "The Municipal Act" that the said By-law No. 2144, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2770

Application by the City of Kitchener, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 2145, amending its Zoning Ordinance By-law No. 1823 (as amended by 1834 and 1835) by adding certain area (lot on southerly corner of Duke and College Streets) to Division "C," Business Districts, Section 4.

April 10th. Application and material filed.

May 8th. Hearing, 10.00 to 10.30 A.M., Council Chamber, Kitchener. Application granted.

May 13th. Draft Order filed.

May 17th. Order issued.

May 8th, 1930.

ORDER

Upon the application of the said Corporation and upon reading the copy of the said by-law and the other material filed, and the Board having this day, pursuant to Appointment at the Council Chamber in the City of Kitchener, heard all parties interested, notice having been given pursuant to statute.

The Board orders under and in pursuance of the provisions of Section 398 of "The Municipal Act" that the said By-law No. 2145, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2782

Application by the Township of York, under Section 2, Chapter 139, Ontario Statutes, 1922, as amended by Section 2, Chapter 108, Ontario Statutes, 1926, for approval of its By-law No. 10509, consolidating Lambton Fire Area No. 2 and Humbercrest Fire Area No. 8, to be known as Humbercrest Fire Area No. 8.

April 22nd. Application and material filed.

May 27th. Hearing, pursuant to Appointment, 10.30 to 10.45 A.M., at Board's Chambers. Application granted, Applicant's Solicitor to draft Order.

May 28th. Draft Order filed.

May 28th. Order issued.

May 27th, 1930.

ORDER

Upon the application of the Corporation of the Township of York, upon reading the material filed, upon hearing what was alleged by Counsel for the Applicant and notice of the said application having been given as directed by the Board;

1. This Board orders that By-law No. 10509 passed by the Council of the Corporation of the Township of York consolidating Lambton Park Fire Area No. 2 and Humbercrest Fire Area No. 8 into one fire area to be known as Humbercrest Fire Area No. 8, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2785

BETWEEN:

Anson Kirkness, *et al*,

Applicants,

—and—

The Conn Telephone Co., Ltd.,

Respondent.

(Application under Sections 93 and 94 of "The Telephone Act" for an Order consenting to the paralleling of pole leads of the telephone system of the Respondent by The Mount Forest, Wellington and Grey Telephone Co., Ltd., for the purpose of furnishing Applicant with service.)

April 22nd. Application and material filed.

May 22nd. Hearing, 1 to 3 P.M., Town Hall, Mount Forest. (Chairman authorized under Section 8, Chapter 225, R.S.O.) Respondent to be given an opportunity to furnish applicants with Mount Forest service by direct party line. Board's Inspector to investigate cause of complaints as to long distance service. Application dismissed.

PROCEDURE FILE A-2795

Application by the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its By-law No. 6821, restricting to detached private dwellings the land bounded by Echo Drive, Clegg Street, Main Street and Riverdale Avenue.

April 25th. Application and material filed.

May 30th. Hearing, pursuant to Appointment, 9.00 to 10 A.M., Council Chamber, Ottawa. Adjourned to 20th June, 1930. In the meantime, By-law to be reconsidered by City Council.

June 20th. Hearing continued, 11.00 to 11.15 A.M., Council Chamber, Ottawa. Adjourned to September 5th, 1930, at 10.00 A.M.

September 5th. Hearing continued, 10.00 to 11.00 A.M., Council Chamber, Ottawa. Application granted. By-law approved without amendment.

September 19th. Draft Order filed.

September 19th. Order issued.

September 5th, 1930.

ORDER

The application of the Corporation of the City of Ottawa under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 6821, prohibiting the use of land and the erection and use of buildings for any purpose other than that of a detached private dwelling in the area bounded on the west by Echo Drive, on the north by Clegg Street, on the east by Main Street and on the south by Riverdale Avenue, having come on to be heard before the Board at a Special Sittings thereof held at the Council Chamber in the City Hall at the City of Ottawa at nine o'clock in the forenoon (Standard time) on Friday, the 30th day of May, 1930, in the presence of Counsel on behalf of the said Corporation, and on hearing representations made by certain interested parties opposing the approval of the said by-law, whereupon upon it appearing that the appointment for the said Hearing had been duly served upon all the owners of property affected, including the property owners on the opposite side of the boundary streets of the area in question pursuant to the direction of the Board, and the said application having stood over for further consideration until Friday, the 5th day of September instant, when the said by-law was approved by the Board.

The Board doth order and direct that the said By-law No. 6821 of the said Corporation be and the same is hereby approved.

And the Board doth further order and direct that the Corporation of the City of Ottawa do pay the sum of \$20.00, the Board's tariff fee upon the said application.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2797

BETWEEN:

A. Edgar Cudmore,

Applicant,

—and—

William Frayne (trading as The Thames Road
Telephone System),

Respondent.

(Application under Sections 93 and 94 of "The Telephone Act" for an Order consenting to the paralleling of the pole lead of the telephone system of the Respondent by the Municipality of Tuckersmith, to furnish Applicant with telephone service.)

April 28th. Application and material filed.

June 16th. Hearing, 11.15 A.M. to 1 P.M. (Vice-Chairman authorized under Section 8, Chapter 225, R.S.O.). Application dismissed. (No fee unless Order taken out—when fee for Law Stamps would be \$10.00 on the Order.)

PROCEDURE FILE A-2800

Application by the City of Ottawa, under Section 13, subsection (2), Chapter 93, Ontario Statutes, 1930, for distribution of cost of widening, etc., of that part of Beechwood Avenue forming the boundary line between the City of Ottawa and the Town of Eastview.

April 29th. Application filed.

May 30th. Hearing, 8.30 to 10.50 A.M., Council Chamber, Ottawa. City of Ottawa to pay seventy-five per cent. of the construction of the highway apart from widening, the Town of Eastview to pay five per cent., and the lands adjoining on each side to each pay ten per cent.

July 20th. Draft Order filed.

July 20th. Order.

July 30th, 1930.

ORDER

The application of the City of Ottawa, under Section 13 of "The City of Ottawa Act, 1930" for the approval by the Board of the widening, paving and improving of that part of Beechwood Avenue which forms the boundary line between the City of Ottawa and the Town of Eastview, having come on to be heard before the Board at a special Sittings thereof held at the City of Ottawa on Friday the 30th day of May, A.D. 1930, at half-past eight o'clock in the forenoon (Standard time), in the presence of Counsel as well for the said Corporation as on behalf of the Corporation of the Town of Eastview, upon it appearing to the satisfaction of the Board that notice of the said hearing had been duly published, posted and served in accordance with the instructions of the Board, upon reading the provisions of the said section of the said Act, and upon hearing what was alleged as well by the Counsel on behalf of the Town

of Eastview as on behalf of the Corporation of the City of Ottawa and by other interested parties represented and present at the said hearing.

The Board doth order and direct:

1. That the Corporation of the said city may undertake as a local improvement under the provisions of "The Local Improvement Act," the widening, paving and improving of that part of Beechwood Avenue which forms the boundary line between the City of Ottawa and the Town of Eastview.

2. The cost of the widening of the said part of Beechwood Avenue shall be borne and distributed as follows, that is to say:

Eighty-seven (87) per centum of the total cost of such widening shall be borne by the Corporation of the City of Ottawa and the remaining Thirteen (13) per centum of the cost of such work shall be specially assessed upon lands either abutting directly upon the said work or upon lands abutting directly upon the said work and lands which do not abut thereon, but will be immediately benefited thereby, by a special equal rate or rates per foot frontage in accordance with the provisions of "The Local Improvement Act," and no part of the cost of the said widening shall be assessed against the Corporation of the Town of Eastview or lands situate therein abutting directly on the said work or benefited thereby.

3. That the Corporation of the said City of Ottawa may undertake as a local improvement under the provisions of "The Local Improvement Act," the laying of an asphalt pavement and improving the said part of Beechwood Avenue and the cost of the said work shall be borne and paid in the following proportions:

Seventy-five (75) per centum of the cost of the said local improvement work shall be borne and paid by the Corporation of the City of Ottawa.

Five (5) per centum of the cost of the said local improvement work shall be borne and paid by the Corporation of the Town of Eastview, and the remaining

Twenty (20) per centum of the cost of the said work shall be borne and paid by the lands abutting directly thereon and situate within the limits of the Corporation of the City of Ottawa and the Corporation of the Town of Eastview respectively, in the manner provided by "The Local Improvement Act," and according to the extent of their respective frontages thereon, by an equal special rate per foot of such frontage sufficient to defray such part of the said cost.

4. That the Corporation of the City of Ottawa do pay the sum of \$15.00 the tariff fee of the Board upon this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2801

In the matter of the Petition of D. C. McLaren, M.D., and others, under Section 8 of "The Local Improvement Act," against the proposed distribution of cost of proposed asphalt pavement on Laurier Avenue West, from Elgin Street to Kent Street, in the City of Ottawa.

April 30th. Petition filed.

May 30th. Hearing, 9.30 A.M., Council Chamber, Ottawa. City to amend its report; the city to pay for widening of pavement and ratepayers to pay their share of resurfacing present pavement.

June 30th. Draft Order filed.

July 2nd. Order issued.

May 30th, 1930.

ORDER

The Petition of D. C. MacLaren and others, under Section 8 of "The Local Improvement Act," against the proposed construction of an asphalt pavement on Laurier Avenue West from Elgin Street to Kent Street, in the City of Ottawa, having come on to be heard before the Board at a special meeting thereof held at the City of Ottawa on Friday, the 30th day of May, 1930, at the hour of nine o'clock in the forenoon (Standard time), whereupon it appearing to the satisfaction of the Board that notice of the said Hearing had been published and served in accordance with the directions of the Board, upon hearing what was alleged on behalf of the petitioners and on behalf of the said Corporation respectively, and it appearing that the asphalt pavement proposed to be constructed under Local Improvement Report 456C of the said Corporation was designed to have a breadth in excess of the existing pavement upon the said portion of the said street, and that it was also proposed to break up and relay the existing concrete sidewalks on the said part of the said street, and it appearing to the Board inequitable that the cost of the additional breadth of the said pavement and the cost of breaking up and relaying the said concrete sidewalks should be borne by the properties abutting upon the said work.

1. The Board doth order and direct that the Corporation of the City of Ottawa shall assume and bear so much of the cost of the said local improvement asphalt pavement as is occasioned by the difference in breadth between the existing pavement on the said part of the said street and the pavement proposed to be laid under Local Improvement Report Number 456C and that the said Corporation shall also bear and pay the cost of breaking up and relaying the existing sidewalks on the said street and that the said report be amended so as to give effect thereto.

2. The Board doth further order and direct that the Corporation do pay the sum of \$15.00, the tariff fee of the Board upon the said Hearing.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2808

In the matter of the Petition of Mrs. I. Graham, and others, under Section 8 of "The Local Improvement Act," against the construction of an asphalt pavement on Somerset Street west from Bay Street to Bronson Avenue, in the City of Ottawa.

April 30th. Petition filed.

May 30th. Hearing, pursuant to Appointment, 9.30 A.M., Council Chamber, Ottawa. Construction By-law to be amended and cost of work to be apportioned fifty per cent. each to ratepayers and city.

June 30th. Draft Order filed.

July 2nd. Order.

May 30th, 1930.

ORDER

The Petition of Mrs. C. I. Graham and others, under Section 8 of "The Local Improvement Act," against the proposed construction of a pavement on

Somerset Street west from Bay Street to Bronson Avenue in the City of Ottawa, under Local Improvement Report Number 454C of the City of Ottawa, having come on to be heard before the Board at a special meeting thereof held in the City of Ottawa, on Friday, the 30th day of May, 1930, at the hour of nine o'clock in the forenoon (Standard time), whereupon upon it appearing to the satisfaction of the Board that notice of the said Hearing had been published and served in accordance with the directions of the Board, upon hearing what was alleged on behalf of the petitioners and on behalf of the said Corporation, respectively, and it appearing that the said asphalt pavement was to be laid upon a street upon which the tracks of the Ottawa Electric Railway Company are situate and the cars of the said company are operated.

1. The Board doth order and direct that the said Local Improvement Report be amended in such manner that the Corporation of the said city shall assume and bear one-half of the total cost of the said local improvement pavement, which one-half is to include all such part of the said cost as the said Corporation is required by the provisions of "The Local Improvement Act" to pay.

2. The Board doth further order and direct that the Corporation do pay the sum of \$15.00 the tariff fee of the Board upon the said Hearing.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2809

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 12604, restricting "Oriole Parkway District," to detached private residence or single duplex.

May 1st. Application and material filed.

June 5th. Hearing, 10.30 A.M.; 10.40 to 11.10 A.M., at the Board's Chambers. Amending By-law No. 12691 filed. Adjourned to June 24th, 1930, at 10.30 A.M., at Board's Chambers.

June 24th. Hearing continued, 10.30 A.M. to 12 M.D. By-law to be amended; Lambton Boulevard, Walmsley Bouelvard, Berwick Avenue and Baker Avenue to be omitted from residential area; By-law not to cover lands acquired or hereafter acquired for educational purposes by Toronto Board of Education while used for educational purposes.

Re Chaplin Realty Co. property. By-law remitted to City Council. Notice to be given to Mr. Jno. S. McLaughlin.

Hearing adjourned to 25th September, 1930, at 10.30 A.M., at Board's Chambers. (See Reporter's Notes.)

September 25th. Hearing continued, 10.30 to 10.45 A.M. Adjourned at request of Counsel to Tuesday, 11th November, 1930, at 10.30 A.M., at Board's Chambers. Amending By-law No. 12691 (Ex. 1) filed.

October 30th. Copy of By-law No. 12832, further amending By-law No. 12604 filed.

November 11th. Hearing continued, 10.30 to 10.40 A.M. Counsel for city reports settlement pending. Hearing adjourned to 10.30 A.M, December 15th, 1930, at Board's Chambers. City to notify Counsel for all parties.

December 15th. Hearing continued, 10.30 A.M.; 11.05 to 11.10 A.M.. Adjourned to December 18th, 1930, at 10.30 A.M., at Board's Chambers.

December 18th. Hearing continued, 10.30 A.M.; 10.35 to 10.45 A.M. Adjourned to Tuesday, 17th February, 1931, at 10.30 A.M., at Board's Chambers.

PROCEDURE FILE A-2810

Application by the Township of East York, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 1859 amending its By-law No. 1243 (as amended by By-law No. 1847), by adding to Clause 1 (b) thereof Lots 19 and 20, Plan 704, at northeast and northwest corner of Aldwych and Woodycrest Avenues.

May 1st. Application and material filed.

May 28th. Hearing, 10.30 to 11.05 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

PROCEDURE FILE A-2814

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 12621, restricting St. Clair Avenue West, north side, from Avenue Road to Walmer Road, and south side from Avenue Road to 357 St. Clair Avenue West, to detached private residence or a single detached duplex.

May 3rd. Application and material filed.

June 10th. Hearing, 10.30 A.M.; 11.00 to 11.50 A.M., at Board's Chambers. Adjourned to Monday, 23rd June, 1930, at 10.30 A.M., at Board's Chambers.

June 23rd. Hearing continued, 10.30 to 11.00 A.M. By-law remitted to City Council for further consideration *re* apartment houses, etc. Hearing adjourned to Thursday, the 25th September, 1930, 10.30 A.M., at Board's Chambers. (See Reporter's Notes.)

September 25th. Hearing continued, 10.30 to 10.45 A.M. Adjourned at request of Counsel to Tuesday, 11th November, 1930, at 10.30 A.M., at Board's Chambers.

November 11th. Hearing continued, 10.30 to 10.35 A.M. Counsel report settlement pending. Hearing adjourned to 2nd December, 1930, at 10.30 A.M., at Board's Chambers.

November 28th. Copy of amending By-law No. 12893 filed.

December 2nd. Hearing continued, 10.30 A.M.; 12.25 to 12.30 P.M. By-law approved as amended.

December 10th. Draft Order filed.

December 10th. Order issued.

December 2nd, 1930.

ORDER

The application of the Corporation of the City of Toronto, for approval of its above mentioned by-law, pursuant to Section 398 of "The Municipal Act," being R.S.O. 1927, Chapter 233, having come on for hearing before this Board on Tuesday, the 10th day of June, 1930, in the presence of a number of the property owners affected or their representatives, and the Board having heard the arguments then advanced having been pleased to adjourn the said Hearing, and the same coming on pursuant to the said adjournment and subsequent adjournments on the 23rd day of June, 1930, the 25th day of September, 1930, the 11th day of November, 1930, and this 2nd day of December, 1930, and it now appearing that the Council of the Corporation of the City of Toronto, on the 17th day of November, 1930, passed By-law No. 12893, to repeal in part the

aforesaid By-law No. 12621 (the said by-law having been passed to meet certain objections raised to the first mentioned by-law), upon considering the said by-law and upon hearing what was alleged on the last day mentioned by the parties then before the Board;

The Board orders, pursuant to the statute aforesaid, that the said By-law No. 12621, as amended by the said By-law No. 12893, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2817

Application by the Town of Burlington, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 676, restricting areas therein defined to private residential purposes.

May 5th. Application and copy of by-law filed.

June 18th. Hearing, 10.00 A.M. to 1.30 P.M., Council Chamber, Burlington. Judgment reserved. Town Council to reconsider the matter.

October 25th. Application renewed by Resolution of Town Council, dated October 23rd, 1930. Copy of Resolution and By-law filed.

October 27th. Application granted. Applicant's Solicitor to draft Order.

November 21st. Approved draft Order filed.

November 22nd. Order issued.

November 22nd, 1930.

ORDER

Upon the application of the said Corporation, and upon reading the material filed by Hughes Cleaver, Esq., Solicitor for the Applicant, and upon hearing T. H. Simpson, Esq., K.C., Counsel for residents supporting the by-law; Lloyd Westland, Esq., Counsel for residents opposing the by-law; M. C. Smith, Esq., W. D. Flatt, Esq., and others, appearing personally, the Board did refer By-law No. 676 back to the Council of the Town of Burlington for further consideration as to the objections to the by-law made by Counsel for residents opposing the by-law, and said by-law having been further considered by Council of the Town of Burlington, and further upon hearing read Resolution passed by the Council of the Town of Burlington on Thursday, the 23rd day of October, and what was alleged by Council for the Applicant;

The Board orders, under and pursuant to Section 398 of "The Municipal Act," being Chapter 233 of the Revised Statutes of Ontario, 1927, that the said By-law No. 676 being a by-law to establish and define certain areas within the Town of Burlington for private residential purposes only, be and the same is hereby approved.

And the Board doth make no Order as to costs excepting the payment by the Applicant, the Corporation of the Town of Burlington, of the tariff fee of \$15.00 for Law Stamps payable on the Order herein.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2824

In the matter of the Petition of N. D. Porter, and others, under Section 8 of "The Local Improvement Act," against proposed distribution of cost of pavement on Dalhousie Street, between George and St. Patrick Streets, in the City of Ottawa.

May 8th. Petition filed.

May 10th. Certificate of City Clerk filed, that Petition sufficiently signed, but not filed in time.

May 15th. Letter from Secretary of Board of Control that new Notice of Intention will be published.

May 30th. Hearing, 8.30 to 9 A.M., Council Chamber, Ottawa. Petition dismissed.

June 30th. Draft Order filed.

July 2nd Order.

May 30th, 1930.

ORDER

The Petition of N. D. Porter and others, under Section 8 of "The Local Improvement Act," against the distribution of the proposed cost of the paving of Dalhousie Street, between George and St. Patrick Streets, in the City of Ottawa, as a local improvement under the provisions of "The Local Improvement Act," as determined by By-law No. 6808 of the Corporation of the City of Ottawa, in accordance with Local Improvement Report No. 455C of the said Corporation, having come on to be heard at special Sittings of the Board held at the City of Ottawa on Friday, the 30th day of May, 1930, at the hour of half-past eight o'clock in the forenoon (Standard time), at the Council Chamber, in the City of Ottawa, upon it appearing to the satisfaction of the Board that due notice of the said Appointment had been published and served in accordance with the directions of the Board, and upon hearing what was alleged on behalf of the said petitioners and by the City Engineer of the said Corporation,

1. The Board doth order and direct that the said Petition be and the same is hereby dismissed.

2. The Board doth further order and direct that the Corporation do pay the sum of \$15.00 the tariff fee of the Board upon the said Hearing.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2837

Application by the City of Kitchener, under Section 12 of "The Public Parks Act," for approval of By-law No. 21 of the Board of Park Management of the City of Kitchener, setting aside part of Victoria Park for swimming pool.

May 15th. Application and material filed.

June 4th. Hearing, pursuant to Appointment, 10 A.M. to 12 M.D., Council Chamber, Kitchener. Judgment reserved.

June 6th. Judgment delivered. By-law approved.

June 13th. Order.

JUDGMENT

The above application came before the Board for Hearing at the Council Chamber in the City of Kitchener on Wednesday, the 4th day of June, A.D. 1930.

Mr. George Bray appeared on behalf of the Applicant and Mr. J. C. Makins, K.C., opposing.

The evidence submitted by witnesses in favour of the approval of the by-law by the Board contended that the location of the Swimming Pool was justified on account of its convenience to the pavilion, the basement of which the Park Commission intended to fit up and use as dressing quarters for the bathers, and in this way save the city an expenditure of some \$5,000.

To locate the pool in any other location in the Park would make it more costly, as a building would require to be provided in order to accommodate anyone desiring to use the pool.

Mr. Makins called Mr. Norman Snider, a prominent citizen who resides at the corner of one of the most used streets facing the Park and proposed location for the swimming pool. The witness believed all parties would be better served if the pool had been located near the railway track at the other side of the Park; that the noise created by the bathers at all hours of the day (Sunday included) and late at night, would be very annoying to the families residing in the immediate vicinity of the pool; that a petition of some ninety persons petitioned against its location near the pavilion and comfort house; that its location and use would create an increase in the number of automobiles in that vicinity which means greater inconvenience to the residents in his neighbourhood who already have their traffic troubles on a narrow paved street.

Mr. Bray recalled evidence to show that there were other streets approaching the Park which were used and that there were a number of amusements carried on therein which created more or less noise and that the location of the pool had been considered and discussed from every angle by the Park Commissioners, City Council and citizens generally and they eventually decided to locate it near the pavilion and comfort house.

The Board had a view of the location and after considering the evidence as a whole have decided to approve the by-law.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

Dated at Toronto, the 6th day of June, A.D. 1930.

June 13th, 1930.

ORDER

Upon the application of the Board of Park Management of the Corporation of the City of Kitchener, upon reading the copy of the said by-law, and the other material filed, and the Board having, on the 4th day of June, 1930, pursuant to Appointment at the Council Chamber in the City of Kitchener, heard what was alleged by Counsel for the Applicant, and for those opposing the application, notice having been given pursuant to Statute, and the Board having had a view of the location of the swimming pool and having reserved its decision until this day.

The Board orders, under and in pursuance of the provisions of subsection (6) of Section 12 of "The Public Parks Act," that the said By-law No. 21, be, and the same is hereby approved.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2841

In the matter of the Petition of S. K. Hisey, and others, under Section 8 of "The Local Improvement Act," against the construction of a concrete sidewalk on the south side of Glenwood Avenue, from Fairview Avenue to Kennedy Avenue, in the City of Toronto.

May 15th. Petition filed.

June 10th. Hearing, 10.30 to 11.00 A.M., at the Board's Chambers. Petition dismissed. City Solicitor to draft Order.

August 18th. Draft Order filed.

August 18th. Order issued.

June 10th, 1930.

ORDER

Upon the Petition of S. K. Hisey and others, pursuant to Section 8 of "The Local Improvement Act," against the construction of a concrete sidewalk on the south side of Glenwood Avenue, from Fairview Avenue to Kennedy Avenue, in the City of Toronto, upon hearing what was alleged by the petitioner and upon hearing Counsel for the Corporation of the City of Toronto and what was alleged.

The Board orders under and in pursuance of the provisions of Section 8 of "The Local Improvement Act" that the said petition against the work be dismissed and the Corporation of the City of Toronto be at liberty to proceed with the work.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2845

Application by the Township of Nepean, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 1105, restricting the erection, alteration and use of buildings and land within the area defined by the by-law.

May 19th. Application and material filed.

June 20th. Hearing, 9.00 A.M., Township Hall, Westboro. Adjourned to September 5th, 1930, at 9 A.M., Township Hall, Westboro.

July 5th. Amending By-law No. 1110 filed.

September 5th. Hearing continued, 9.00 A.M. to 10.00 A.M., Township Hall, Westboro. Application granted. By-law approved as amended.

September 29th. Approved draft Order filed.

September 29th. Order issued.

September 5th, 1930.

ORDER

Upon the application of the said Corporation and, upon consideration of said By-law No. 1105 at a meeting of the Board held at the Township Hall in the Village of Westboro, in the said Township of Nepean, on Friday, the 20th day of June, 1930, and the further material filed, and upon hearing all parties then present and particularly considering objections made by certain property owners in that portion of the area described in said by-law and after due consideration of all matters relevant to the said application and the Board having directed that the application be adjourned to Friday, the 5th day of September, 1930, to permit the Corporation to further consider the question of amending the said By-law No. 1105 and the said by-law having been duly amended by By-law No. 1110 duly passed by the said Corporation on the 21st day of June, 1930, and this application having come on for further hearing at the adjourned meeting of the Board held on the said 5th day of September, 1930, and no further objections having been made to the said By-law No. 1105 as amended by said By-law No. 1110;

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law No. 1105 as amended by the said By-law No. 1110, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2848

In the matter of the Petitions of William Hay and others, under Section 8 of "The Local Improvement Act," against the construction by the City of Hamilton of certain local improvements on Cumberland Avenue, between Graham Avenue and Wexford Avenue:

- (a) Sidewalk and curb (south side), and
- (b) Roadway.

May 19th. Petitions filed.

June 18th. Hearings, 1.30 to 2.30 P.M., Council Chamber, Hamilton.

- (a) Work to be proceeded with. Petition dismissed.

(b) Petition allowed to the extent of granting sixty feet flankage immediately next to Wexford Avenue, on Cumberland Avenue as produced.

July 25th. Draft Order filed.

July 30th. Order issued.

June 18th, 1930.

ORDER

Upon the Petitions of the said William Hay and others to this Board under Section 8 of "The Local Improvement Act," against the construction by the City of Hamilton of proposed sidewalk and curb on the south side of Cumberland Avenue from Graham Avenue to Wexford Avenue and an asphalt roadway on Cumberland Avenue from Wexford Avenue to Graham Avenue, and upon consideration of such Petitions and the other material filed, and hearing all parties interested, and upon consideration of the evidence adduced and what was alleged by Counsel for the petitioners and for the Corporation of the City of Hamilton.

1. This Board doth order that in addition to the share of the cost assumed by the City Corporation of sixty feet of flankage on Cumberland Avenue, providing for the extension southerly of Wexford Avenue from the southerly limit of Cumberland Avenue, there shall be included in the Corporation's portion of the cost of the above mentioned works, the cost of sixty feet of flankage on Cumberland Avenue extending sixty feet westerly from Wexford Avenue so produced; and in all other respects the said Petitions are hereby dismissed.

2. And this Board doth further order that there shall be no costs of the said application to any party, except that the Corporation of the City of Hamilton shall pay \$15.00 for Law Stamps on this Order, chargeable to the cost of the work.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2851

Application by the Village of Forest Hill, under Section 398 of "The Municipal Act," for approval of its By-law No. 459, restricting to purposes of detached dwelling houses the area bounded by Burton Road, Dewbourne Avenue, Spadina Road and Bathurst Street.

May 20th. Application and material filed.

June 17th. Hearing, 10.30 to 11.30 A.M., at Board's Chambers. Hearing adjourned to July 8th, 1930, at 10.30 A.M. By-law to be amended *re* Deverell Avenue. (See Reporter's Notes.)

July 3rd. Amending By-law No. 479 filed.

July 8th. Hearing continued, 10.30 to 10.45 A.M. Application granted. Applicant's Solicitor to draft Order.

July 11th. Draft Order filed.

July 14th. Order issued.

July 8th, 1930.

ORDER

Upon the application of the Corporation made to this Board on the 17th day of June, 1930, upon hearing read the material filed by Melville Grant, Esquire, Solicitor for the Applicant, upon hearing what was alleged by Counsel for the Applicant, and J. L. Shannon, a ratepayer, appearing, and no one else appearing to oppose said application, although notice of the Hearing of the same was duly given as required by the Statute, and an amendment having been suggested to the said by-law, which was duly made, as appears by By-law No. 479 of the said municipality, and the same coming on this day for final hearing.

The Board orders, under and in pursuance of Section 398 of "The Municipal Act," being Chapter 233, Revised Statutes of Ontario, 1927, and Amendments thereto, that the said By-law No. 459, entitled "A By-law to place restrictions upon the lands in the Village of Forest Hill lying north of Burton Road, south of Dewbourne Avenue and west of Spadina Road and east of the rear of lots facing on Bathurst Street," as amended by By-law No. 479, be and the same is hereby approved.

And the Board makes no Order as to costs, except that the Corporation pay the Board's tariff fee of \$20.00 for Law Stamps on the Order herein.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2854

Application by the City of Toronto, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 12640, repealing its Restricted Area By-law No. 11389 in so far as it prevents the erection of a single duplex dwelling at No. 130 Hammersmith Avenue.

May 21st. Application and material filed.

June 17th. Hearing, pursuant to Appointment, 10.30 to 10.50 A.M., at Board's Chambers. Adjourned to 24th instant, at 10.30 A.M.

June 24th. Hearing continued, 10.30 A.M., 10.40 to 10.45 A.M. Application granted. Applicant's Solicitor to draft Order.

June 30th. Draft Order filed.

June 30th. Order.

June 24th, 1930.

ORDER

The application of the Corporation of the City of Toronto, for approval, pursuant to Section 398, subsection (2b) of "The Municipal Act," being R.S.O. 1927, Chapter 233, of its By-law No. 12640 having come on for hearing before this Board on the 17th day of June, A.D. 1930, in the presence of Counsel for the Applicant and in the presence of one property owner, appearing in opposition to the said by-law, no one else appearing, notwithstanding service of notices upon all property owners affected according to directions of this Board, as by affidavits filed appears, upon considering the said by-law and hearing what was alleged by all parties before the Board, this Board was pleased to direct that this application should stand over until the 24th day of June, A.D. 1930, to give the owner of No. 130 Hammersmith Avenue an opportunity to present her views.

And this application having come on again for further hearing before this Board on the 24th day of June, A.D. 1930, in the presence of Counsel for the Applicant, and of a representative of the owner of No. 130 Hammersmith Avenue, upon hearing what was alleged by all parties before the Board, and upon further considering the said by-law, and it appearing that there was no opposition to the approval of the said by-law other than as aforesaid.

The Board orders, under and in pursuance of the provisions of Section 398, subsection (2b) of "The Municipal Act," that the said by-law, being intituled "No. 12640. A by-law to repeal By-law No. 11389 in so far as it prevents the erection of a single duplex dwelling at No. 130 Hammersmith Avenue," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2855

Application by the City of Toronto, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 12641, repealing its By-law No. 11474 in so far as it prevents the conversion of No. 16 Rowanwood Avenue into a duplex dwelling.

May 21st. Application and material filed.

June 17th. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

June 19th. Draft Order filed.

June 19th. Order.

June 17th, 1930.

ORDER

Upon the application of the Corporation of the City of Toronto for approval, pursuant to Section 398, subsection 2*b* of "The Municipal Act," being R.S.O. 1927, Chapter 233, of its By-law No. 12641, upon hearing what was alleged by Counsel for the Applicant, no one appearing in opposition to the said by-law notwithstanding service of notice upon all property owners affected according to directions of this Board, as by affidavits filed appears, upon considering the said by-law, and it appearing that there was no opposition to the approval of the said by-law.

The Board orders under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said by-law, being intituled "No. 12641. A by-law to repeal By-law No. 11474 in so far as it prevents the conversion into a duplex dwelling of the building at No. 16 Rowanwood Avenue," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2857

Application by the City of Kitchener, under Section 398 (2*b*) of "The Municipal Act," for approval of its By-law No. 2154 amending its Zoning Ordinance By-law No. 1823 (as amended by 1834 and 1835) by adding at the end of Section 1, Division "C," certain business districts (paragraph "Thirty-secondly").

May 22nd. Application and material filed.

June 25th. Hearing, 10.00 to 10.30 A.M., Council Chamber, Kitchener. Application granted. Applicant's Solicitor to draft Order.

June 26th. Draft Order filed.

June 26th. Order.

June 25th, 1930.

ORDER

Upon the application of the said Corporation, and upon reading the copy of the said by-law and the other material filed, and the Board having this day, pursuant to Appointment, at the Council Chamber in the City of Kitchener, heard Counsel for the Corporation, no person appearing to oppose the application, although notice thereof had been given pursuant to statute.

The Board orders, under and in pursuance of the provisions of Section 398, subsection (2*b*) of "The Municipal Act," that the said By-law No. 2154, be and the same is hereby approved.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2860

Application by the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 6839, restricting to single family or duplex dwelling and private garage, the area bounded on the east by Holland Avenue, on the north by the southerly limit of lots facing on south side of Wellington Street, on the west by the westerly city limit and on the south by the right-of-way of the Canadian National Railway; also the area bounded on the east by Holland Avenue, on the north by Scott Street, on the west by the westerly city limit and on the north by the northerly limit of the lots facing on the north side of Wellington Street (part of Elmdale Ward).

May 22nd. Application and material filed.

June 20th. Hearing, 11 A.M. to 11.30 A.M., Council Chamber, Ottawa. Application granted. City Solicitor to draft Order.

July 10th. Draft Order filed.

July 10th. Order.

June 20th, 1930.

ORDER

The application of the Corporation of the City of Ottawa, under Section 398 of "The Municipal Act," for an Order of the Board approving of its By-law No. 6839 restricting the use of land and the erection and use of buildings on land within those certain areas defined in the said by-law situate in Elmdale Ward, in the City of Ottawa, having come on to be heard before a special Sittings of the Board held at the City of Ottawa on Friday, the 20th day of June, A.D. 1930, upon it appearing that the Council had notified the owners to be affected by the said by-law in accordance with the provisions of Clause (c) of subsection (2) of Section 398 of "The Municipal Act," as amended, and in accordance with the directions of the Board, and upon hearing persons supporting as well as persons opposing the approval of the said by-law.

The Board doth order and direct that the said By-law No. 6839 of the said Corporation of the City of Ottawa, be and the same is hereby approved.

And the Board doth further order and direct that the said Corporation do pay the sum of ten dollars, the Board's tariff fee upon the said application.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2861

Application by the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 6840, restricting to detached private dwellings, the area bounded by Maple Lane, Butternut Terrace, Rideau Terrace and Springfield Road (portion of "Rideau" Ward).

May 22nd. Application and material filed.

June 20th. Hearing, 11 A.M. to 12.50 P.M., Council Chamber, Ottawa. By-law as to Linden Lea approved. Amendment to be made as to other areas. Adjourned to 5th September, 1930, at 11 A.M.

September 5th. Hearing continued, 11 A.M. to 12 MD., Council Chamber, Ottawa. By-law to be amended to cover only Lindenlea District, viz.: Area bounded on north by Maple Avenue, on east by Lambton Road, on south by

Rideau Terrace and on west by Springfield Road. Application approved accordingly.

- October 9th. Copy of By-law No. 6968 filed.
- October 14th. By-law No. 6968 approved. City Solicitor to draft Order.
- October 23rd. Draft Order filed.
- October 23rd. Order issued.

October 14th, 1930

ORDER

Upon the application of the said Corporation, under Section 398 of "The Municipal Act," for approval of the said By-law No. 6840, and same having come on for Hearing at special Sittings of the Board held at the Council Chamber, in the City of Ottawa, on the 20th day of June, and the 5th day of September, 1930, and upon hearing what was alleged by Counsel for the Applicant, and no one appearing in opposition thereto, although notice of the Hearing of the application was duly given as directed by the Board, and the Board having directed certain amendments to the said By-law No. 6840, and upon consideration of By-law No. 6968, passed by the said Corporation on the 15th day of September, 1930, to comply with the directions of the Board herein.

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law No. 6968, intituled "By-law No. 6968. A by-law of the Corporation of the City of Ottawa for prohibiting the use of land and the erection and use of buildings within the area herein defined for any purpose other than a detached private dwelling," be and the same is hereby approved.

And the Board doth further order and direct that the Corporation do pay the sum of twenty dollars (\$20.00) in Law Stamps to be affixed to this Order, the fees of the Board herein.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2861a

Application by the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 6968, restricting to the erection of detached private dwellings and semi-detached or duplex dwellings, the area described in the by-law.

October 9th. Application and material filed.

November 14th. Hearing, pursuant to Appointment, 9.00 to 9.15 A.M., Council Chamber, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O. 1927).

- November 17th. Report of Mr. Commissioner Ellis filed and adopted.
- November 17th. Draft Order filed.
- November 17th. Order issued.

REPORT OF MR. COMMISSIONER ELLIS

I recommend that this by-law be approved.

(Sgd.) J. A. ELLIS,
Commissioner.

November 14th, 1930.

Adopted as basis of Board's Order:

(Sgd.) C. R. MCKEOWN,
Chairman.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

November 17th, 1930.

ORDER

The application of the Corporation of the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its By-law No. 6988, being a by-law for prohibiting the erection and use of buildings on land situate within the area described in the said by-law for any purpose other than that of a detached private dwelling, a semi-detached or duplex dwelling, having come on to be heard before J. A. Ellis, Esquire, Commissioner, duly authorized by the Board, under Section 8, Chapter 225, R.S.O. 1927, to hear and report upon the said application at a special meeting held at the City of Ottawa, pursuant to Appointment on Friday, the 14th day of November, 1930, at the hour of nine o'clock in the forenoon at the Council Chamber, in the City Hall, in the said city, whereupon upon it appearing that the owners of lands to be affected by the said by-law had been duly notified of the said hearing in accordance with the provisions of subsection 2 (c) of Section 398 of "The Municipal Act," and upon reading the said by-law, and upon hearing what was alleged in support thereof, and no one appearing in opposition to the said application, and the said Commissioner having reported to this Board, and his report having this day been adopted by the Board as the basis for this Order.

The Board doth order and direct that the said By-law No. 6988 of the said Corporation, be and the same is hereby approved.

The Board doth further order and direct that the said Corporation do cause to be affixed Law Stamps of a value of \$15.00 to this Order in payment of its tariff fee upon the said application.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2865

In the matter of the Petition of J. H. Putman, and others, under Section 8 of "The Local Improvement Act," against the construction of a concrete sidewalk on the north side of Putman Avenue, between Champlain Avenue and Beechwood Avenue, in the City of Ottawa.

May 26th. Petition filed.

June 20th. Hearing, 11 A.M. to 12 M., Council Chamber, Ottawa. Petition allowed. City and property owners to each pay fifty per cent. City Solicitor to draft Order.

July 10th. Draft Order filed.

July 10th. Order.

June 20th, 1930.

ORDER

The Petition of J. H. Putman and others under Section 8 of "The Local Improvement Act," against the proposed construction of a concrete sidewalk on the north side of Putman Avenue, between Champlain Avenue and Beechwood Avenue in the City of Ottawa, as a local improvement under the provisions of "The Local Improvement Act," having come on to be heard before the Board at a special meeting thereof held at the City of Ottawa on Friday, the 20th day of June, A.D. 1930, at the hour of eleven o'clock in the forenoon (Standard time) in the Council Chamber, in the said city, pursuant to an Appointment duly issued by the Board whereupon upon it appearing to the satisfaction of the Board that service of the said Appointment had been made in accordance with the direction of the Board, upon hearing what was alleged on behalf of the petitioners and on behalf of the said Corporation respectively.

1. The Board doth order that the Corporation of the said City of Ottawa shall bear in addition to such share of the cost of the said work as it would otherwise bear under the provisions of "The Local Improvement Act," fifty per centum of the property owners' share of the cost of the said work.

2. And the Board doth further order and direct that the Corporation do pay the sum of ten dollars, the tariff fee for the Board upon the said Hearing.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2868

Application by the Township of Etobicoke, under "The Township of Etobicoke Act" (Chapter 62, 13-14 Geo. V, and Amendments) for approval of its By-law No. 3544, enlarging Water Area No. 7.

May 27th. Application and material filed.

June 24th. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

July 5th. Draft Order filed.

July 5th. Order issued.

June 24th, 1930.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and the other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant and no one appearing in opposition to the application.

The Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 Geo. V, and amendments thereto, that

the said By-law No. 3544, intituled "By-law No. 3544. A by-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 7, as established by By-law No. 1623 and enlargements thereof, by adding thereto the land hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 7 into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2869

Application by the Township of Etobicoke, under "The Township of Etobicoke Act, 1923" (Chapter 62, 13-14 Geo. V, and amendments), for approval of:

(a) By-law No. 3545, extending Water Area No. 14, and

(b) By-law No. 3546, extending Water Area No. 14.

May 27th. Application and material filed.

June 12th. Two copies of By-law No. 3546, as amended, filed.

June 24th. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

July 7th. Draft Order filed.

July 7th. Orders issued.

June 24th, 1930.

ORDER RE BY-LAW NO. 3545

Upon the application of the said Corporation, upon reading the Notice of Application and the other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant and no one appearing in opposition to the application.

The Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 Geo. V, and amendments thereto, that the said By-law No. 3545, intituled "By-law No. 3545. A by-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality, known as Water Area No. 14, established by By-law No. 3471 and enlargements thereof, by adding thereto the land hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 14, into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

June 24th, 1930.

ORDER RE BY-LAW NO. 3546

Upon the application of the said Corporation, upon reading the Notice of Application and the other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon

hearing Counsel for the Applicant and no one appearing in opposition to the application.

The Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 Geo. V, and amendments thereto, that the said By-law No. 3546, intituled "By-law No. 3546. A by-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 14, established by By-law No. 3471 and enlargements thereof, by adding thereto the land hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 14, into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2870

Application by the Township of Etobicoke, under "The Township of Etobicoke Act, 1923" (Chapter 62, 13-14 Geo. V, and amendments), for approval of its By-law No. 3549, enlarging Water Area No. 15.

May 27th. Application and material filed.

June 24th. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

July 7th. Draft Order filed.

July 7th. Order issued.

June 24th, 1930.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and the other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant and no one appearing in opposition to the application.

The Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 Geo. V, and amendments thereto, that the said By-law No. 3549, intituled "By-law No. 3549. A by-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 15 as established by By-law No. 3488 and enlargements thereof, by adding thereto the land hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 15 into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2871

Application by the Township of Etobicoke, under "The Township of Etobicoke Act, 1923" (Chapter 62, 13-14 Geo. V and amendments), for approval of its By-law No. 3547, enlarging Water Area No. 16.

May 27th. Application and material filed.
 June 24th. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.
 July 7th. Draft Order filed.
 July 7th. Order issued.

June 24th, 1930.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and the other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant, and no one appearing in opposition to the application.

The Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 Geo. V, and amendments thereto, that the said By-law No. 3547, intituled "By-law No. 3547. A by-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 16 as established by By-law No. 3489 and enlargements thereof, by adding thereto the lands hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 16, into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2879

Application by the Town of Fort Frances, under Section 44 of "The Municipal Act," for approval of its By-law No. 1009, dividing the said town into six wards.

June 2nd. Application and material filed.
 November 11th. Application granted (no objections filed).
 November 19th. Draft Order filed.
 November 19th. Order.

November 11th, 1930.

ORDER

Upon the application of the Municipal Council of the Town of Fort Frances, and upon reading a Resolution of the said Municipal Council passed on the 23rd day of May, 1930, the Declaration of John William Walker, dated the 4th day of November, instant, and the Exhibits therein referred to, including By-laws of the said Municipal Council numbered 1009 and 1019, and it appearing that notice of this application had been advertised for three successive weeks in the Fort Frances "Times," a weekly newspaper published in the said Town of Fort Frances, and no objections thereto by any ratepayer, person, firm or corporation having been filed with the clerk of the said town pursuant to said advertisement.

The Board orders that the area comprised within the limits of the Town of Fort Frances be divided into six wards and that the limits or boundaries of said wards be as follows:

Ward No. 1. Comprising that portion of the Town of Fort Frances north of the International boundary and north of the line joining the said boundary (south of Water Lot 5744) with the centre line of Scott Street at its junction with Front Street, and north of the said Scott Street at its junction with Mowat Avenue, and west of the said Mowat Avenue between Scott Street and Third Street; south of the said Third Street East produced west to Central Avenue; west of Central Avenue from Third Street to Fourth Street; south of Fourth Street from Central Avenue to Cornwall Avenue, and west of Cornwall Avenue;

Ward No. 2. That portion of the Town of Fort Frances east of Ward Number One; west of Victoria Avenue, and north of Scott Street;

Ward No. 3. That portion of the Town of Fort Frances lying between Victoria Avenue and Crowe Avenue and north of Scott Street;

Ward No. 4. That portion of the Town of Fort Frances south of Scott Street and west of Crowe Avenue;

Ward No. 5. That portion of the Town of Fort Frances lying between Crowe Avenue on the west and Frenette and Butler Avenues on the east;

Ward No. 6. That portion of the Town of Fort Frances lying east of Frenette Avenue and Butler Avenue.

And this Board doth further order that By-law No 1009 of the said Municipal Council of the Town of Fort Frances, as amended by its By-law No. 1019, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2875

Application by the City of Toronto, under Section 398 (2b) of "The Municipal Act," for approval of its Restricted Area By-law No. 12665, restricting to detached residence or double duplex dwelling that portion of Avenue Road between Roselawn Avenue and Briar Hill Avenue.

May 29th. Application and material filed.

June 24th. Hearing, 11 A.M.; 12 M.D. to 12.15 P.M., at Board's Chambers. By-law not to affect lands for educational purposes of Toronto Board of Education while used for educational purposes. Hearing adjourned to 30th September, 1930, at 10.30 A.M., at Board's Chambers.

September 30th. Hearing adjourned to 14th October, 1930, at 10.30 A.M., at Board's Chambers.

October 14th. Hearing continued, 10.30 to 10.45 A.M. Adjourned to 20th November, 1930, at 10.30 A.M., at Board's Chambers, to hear opponents to by-law. Those supporting by-law to be heard at a later date if necessary. (See Reporter's Notes.)

November 14th. Hearing continued, 10.30 to 10.40 A.M. Adjourned at request of Counsel to 10.30 A.M., December 18th, 1930, at Board's Chambers.

December 18th. Hearing continued, 10.30 to 10.35 A.M. Adjourned to Tuesday, the 17th February, 1931, at 10.30 A.M., at Board's Chambers.

PROCEDURE FILE A-2883

Application by The London Township Municipal Telephone System, under Section 27 of "The Telephone Act," for an Order authorizing the Township

of London to pass by-law providing for the purchase or erection of a building to be used as a Central Office, and for the issue of debentures, not exceeding \$5,000.00, therefor.

June 4th. Application and material filed.

June 16th. Hearing, 11.15 A.M. to 1 P.M., Court House, London. (Vice-Chairman authorized under Section 8, Chapter 225, R.S.O.). Recommended that application be enlarged. (See Board's letter of June 18th, 1930, to Applicant).

PROCEDURE FILE A-2885

Application by the City of Belleville, under Section 20 of "The Municipal Act," for annexation thereto of part of the Township of Sidney.

June 5th. Application and material filed.

June 5th. Application granted. Applicant's Solicitor to draft Order.

December 19th. Approved draft Order filed.

December 19th. Order.

December 19th, 1930.

ORDER

Upon the application of the Corporation of the City of Belleville, the same coming on for hearing the 5th day of June, 1930, upon reading the Petition of the Corporation of the City of Belleville, the written consents of the Corporation of the Township of Sidney and the Corporation of the County of Hastings filed, consenting to and concurring in the annexation by the Corporation of the City of Belleville of the lands hereinafter described, and it appearing that the said lands are now owned by, vested in and occupied by the Corporation of the City of Belleville and that there are no municipal electors or other persons residing upon the said lands and it also appearing that no adjustment of assets and liabilities, taxation, assessment, improvement or otherwise is required.

1. The Board orders, under and in pursuance of the provisions of Section 20 of "The Municipal Act," being Chapter 233 of the Revised Statutes of Ontario, 1927, that, that part of the Township of Sidney adjacent to the City of Belleville, described as being:

All and singular that certain parcel or tract of land and premises situate, lying and being in the Township of Sidney, in the County of Hastings, in the Province of Ontario, containing by admeasurement fifty-nine one-hundredths of an acre be the same more or less, being composed of a part of a parcel of land, conveyed to the Belleville Water Works Department by deed registered, October 23rd, 1901, being the southeast corner of Lot Number Thirty-eight, in the First and Broken Front Concession of said township, and as shown lettered "A" upon a sketch of survey of same, attached thereto, made by Ontario Land Surveyor, Fraser Aylsworth, and which may be more particularly described as follows, that is to say: Commencing where an iron bar has been planted, on the east boundary of said lot, distant, twenty feet south from, and at right angles to the centre line of the Canadian National Railway lying across said part of said lot, which said iron bar is also distant four hundred and forty-two feet, measured southerly along said easterly limit of said lot, from the south side of the Belleville-Trenton road; thence westerly, on a curve to the right, having a

radius of 5,750 feet, parallel to and always at a perpendicular distance of twenty feet from said centre line of said railway, a distance of three hundred and eighteen feet; thence south eighteen degrees and three minutes east, parallel to the easterly limit of said Lot Number Thirty-eight, one hundred and fifty feet and seven inches to the high water mark of the Bay of Quinte; thence easterly following said high water mark, to its intersection with the said east limit of said lot; thence north eighteen degrees and three minutes west, a distance of one hundred and seventy feet to the place of beginning, as shown by blue print hereto annexed prepared by Fraser Aylsworth, P.L.S.

2. And the Board orders that the said lands shall be and form part of Murney Ward of the said city.

3. And the Board further orders that neither the Corporation of the Township of Sidney, nor the Corporation of the County of Hastings has any claim in respect to assets, liabilities, taxation, assessment, improvements or otherwise with or in respect to the said lands.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2889

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its By-law No. 12687, repealing its By-law No. 9651 to permit the conversion of building known as No. 185 Cottingham Street into a duplex dwelling house.

June 5th. Application filed.

June 24th. Hearing, 10.30 A.M.; 10.40 to 10.45 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

June 30th. Draft Order filed.

June 30th. Order.

June 24th, 1930.

ORDER

Upon the application of the Corporation of the City of Toronto, for approval, pursuant to Section 398, subsection (2b) of "The Municipal Act," being R.S.O., 1927, Chapter 233, of its By-law No. 12687, upon hearing what was alleged by Counsel for the Applicant, no one appearing in opposition to the said by-law notwithstanding service of notice upon all property owners affected according to directions of this Board, as by affidavits filed appears, upon considering the said by-law and it appearing that there was no opposition to the approval of the said by-law.

The Board orders, under and in pursuance of the provisions of Section 398, subsection (2b) of "The Municipal Act," that the said by-law being intituled "No. 12687. A by-law to repeal By-law No. 9651 in so far as it prevents the conversion into a duplex dwelling house of the building known as No. 185 Cottingham Street," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2890

Application by the Town of Port Colborne, under Section 8 and Schedule "A," Chapter 114, Ontario Statutes, 1927, for settlement of certain differences which have arisen under Agreement between the Applicant and the Village of Humberstone.

June 5th. Application and material filed.

June 23rd. Hearing, 11 to 11.30 A.M., at Board's Chambers. Judgment reserved on question of Board's jurisdiction. Notice of Application to be delivered by Applicant, reserving Respondent's rights *re* production, etc. Hearing adjourned *sine die* (subject to question of jurisdiction). Counsel to apply to Board when ready to proceed. (See Reporter's Notes.)

September 15th. Hearing continued, 10 to 10.30 A.M., at Board's Chambers. Hearing concluded. Application dismissed by consent. Solicitors to draft Order; each party to pay \$10.00 for Law Stamps, the Board's tariff fee.

October 1st. Approved draft Order filed.

October 2nd. Order issued.

September 15th, 1930.

ORDER

This application having come on for Hearing before the Board on the 23rd day of June, A.D. 1930, at which time it was adjourned until the 15th day of September, A.D. 1930, upon which date, upon hearing Counsel for the Applicant and Counsel for the Respondent.

This Board doth order that the application of the Town of Port Colborne for an increase in the rates paid for water supplied by the said Town of Port Colborne to the Village of Humberstone, be and the same is hereby dismissed.

And the Board orders that the Applicant and the Respondent herein each pay \$10.00 for the Law Stamps (\$20.00) payable on this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2891

In the matter of the Petition of P. Mulholland, Harold Sanders, and others, under section 8 of "The Local Improvement Act," against the construction as a local improvement of an 8-inch watermain on Dufferin Street, from the north limit of Plan 1928 to 20th Avenue West, in the Township of North York.

June 5th. Petition filed.

July 16th. Hearing, pursuant to Appointment, 10.30 to 11.30 A.M., at Board's Chambers. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.).

July 16th. Report of Mr. Commissioner Ellis filed and adopted. Petition allowed.

REPORT OF MR. COMMISSIONER ELLIS

As you are no doubt aware I am just one member of the Board, and therefore all I can do is to recommend to the other two members of the Board what I think should be done in this matter.

I shall have to give effect to this Petition and recommend to the Board that it be allowed—for this reason—that there was a 2-inch pipe constructed only last year and that the township certainly knew of the construction of that pipe and allowed it to be constructed on private property, and they are supplying these people with water through that pipe. It would seem unreasonable that the parties who paid for that pipe and are taking water through it now, should be called upon to pay for a watermain as if the pipe had never been constructed.

If the Township Council is going to do anything later they might take into consideration whether these gentlemen are entitled to some consideration or not.

With regard to whether the water in this district is good, bad or indifferent, I might say that if it is unfit for domestic use, the township could get a mandatory Order from the Provincial Department of Health, but that is a matter which I am not called upon to deal with at this time. If the water is bad there is no doubt a mandatory Order could be secured and this main would then have to be constructed.

There is surrounding Toronto a number of townships that have special legislation under which they constitute Water Areas; there is one in North York, but this proposed main is outside of the water area. Usually these water areas are constituted under the local improvement clauses of the Act, by a majority, of the parties interested asking for a supply of water. In this case it is proposed to put a watermain down against the desire of at least a majority of the rate-payers—I do not know how much a majority it is but the Clerk has certified that the Petition is sufficiently signed, and that means a majority both in number and assessment.

I do not know whether the Township Council will desire to take this matter up again, but I want to say that this will be no bar to a further application so far as the Board are concerned.

I think the Petition should be allowed, considering that only a year has elapsed since this 2-inch pipe was laid, and it would be a little hard on the parties who went to the expense of having that pipe laid to insist on their paying for a watermain. Sooner or later there is no doubt the main will have to be laid.

That will be my report.

(Sgd.) J. A. ELLIS,
Commissioner.

Approved:

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2894

Application by the City of Toronto, under subsection (2b) of Section 398 of "The Municipal Act," for approval of its By-law No. 12685, amending its Restricted Area By-law No. 9495 to permit the conversion of 108 Heath Street West into a duplex dwelling.

June 6th. Application and material filed.

June 24th. Hearing, 10.30 A.M.; 10.40 to 10.45 A.M., at Board's Chambers.

Application granted. Applicant's Solicitor to draft Order.

June 28th. Draft Order filed.

June 28th. Order.

June 24th, 1930.

ORDER

Upon the application of the Corporation of the City of Toronto, for approval, pursuant to Section 398, subsection (2b) of "The Municipal Act," being R.S.O., 1927, Chapter 233, of its By-law No. 12685, upon hearing what was alleged by Counsel for the Applicant, no one appearing in opposition to the said by-law notwithstanding service of notice upon all property owners affected according to directions of this Board as by affidavits filed appears, upon considering the said by-law and it appearing that there was no opposition to the approval of the said by-law.

The Board orders, under and in pursuance of the provisions of Section 398, subsection (2b), of "The Municipal Act," that the said by-law, being intituled "No. 12685. A by-law to repeal By-law No. 9495 in so far as it prevents the conversion into a duplex dwelling of the premises known in the year 1930 as No. 108 Heath Street West," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2900

In the matter of the application of the Corporation of the City of Toronto, under Section 469 (9) of "The Municipal Act," for relief from its obligation to rebuild "Huntley Street" Bridge, on Huntley Street, a short distance north of Bloor Street, in the said city.

June 12th. Application filed.

September 2nd—Hearing, 10.30 A.M., to 5 P.M., at the Board's Chambers. Adjourned to September 3rd, 1930, at 10 A.M.

September 3rd. Hearing continued, 10 A.M. to 1 P.M. Adjourned *sine die*.

PROCEDURE FILE A-2901

Application by the Township of Nelson, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 896, restricting the areas defined in the said by-law to private residential purposes.

June 13th. Application and material filed.

June 30th. Hearing, 10 A.M., Council Chamber, Burlington. (Chairman authorized under Section 8, Chapter 225, R.S.O., 1927), Mr. Brown, owner of Lot 15, is covered by the by-law, and Lots 17, 18 and 19, and Lot 8, being Pine Cove Garage property, is not covered. By-law referred back to Council to remove any apparent discrimination.

September 3rd. Draft Order filed.

September 10th. Copy of amending By-law No. 897 filed.

September 12th. Order issued.

September 3rd, 1930.

ORDER

Upon the application of the said Corporation, and upon reading the material filed by Hughes Cleaver, Esq., Solicitor for the Applicant, and upon hearing

what was alleged by Counsel for the Applicant, and upon hearing Russell Treleaven, Esq., Counsel for E. Dauphin, Lloyd D. Dingle, Esq., Counsel for George Brown, Sidney Morton, Lionel H. Millen, Frank Maw and others appearing personally, the Board did refer By-law No. 896 back to the Council of the Township of Nelson for further consideration as to the objections to the by-law made by Counsel for George Brown and Counsel for E. Dauphin, and further upon hearing read By-law No. 897, amending By-law No. 896, and what was alleged by Counsel for the Applicant.

The Board orders, under and pursuant to Section 398 of "The Municipal Act," being Chapter 233 of the Revised Statutes of Ontario, 1927, that the said By-law No. 896, as amended by By-law No. 897, being "A By-law to prohibit the use of land for other than detached private residences and to regulate the area and location of buildings within certain areas in the Township of Nelson," be and the same is hereby approved.

And the Board doth make no Order as to costs excepting the payment by the Applicant, the Corporation of the Township of Nelson, of the tariff fee of \$15.00 for Law Stamps payable on the Order herein.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2913

In the matter of the Petition of Erskine, Smith & Co., Ltd., and others, under Section 8 of "The Local Improvement Act," against the proposed distribution of cost of the proposed pavement on George Street, between Cumberland Street and King Edward Avenue, in the City of Ottawa.

June 20th. Petition filed.

July 11th. Hearing, 9 A.M.; 9.15 to 9.30 A.M., Council Chamber, Ottawa. Petition dismissed.

August 9th. Draft Order filed.

August 13th. Order.

July 11th, 1930.

ORDER

The Petition of Messrs. Erskine, Smith & Company, Limited, and others, under Section 8 of "The Local Improvement Act," against the distribution of the cost of the proposed pavement on George Street, between Cumberland Street and King Edward Avenue, in the City of Ottawa, having come onto be heard before the Board at a special Sittings thereof held pursuant to Appointment at the City Council Chamber in the City of Ottawa on Friday, the 11th day of July, 1930, whereupon it appearing to the satisfaction of the Board that notice of the said Appointment had been served and published in accordance with the requirements of the Board, and upon hearing what was said both on behalf of the said petitioners and on behalf of the Corporation of the City of Ottawa.

1. The Board doth order and direct that the said Petition be and the same is hereby dismissed.

2. The Board doth further order and direct that the Corporation of the City of Ottawa do pay the sum of \$10.00 for Law Stamps, the Board's tariff fee on this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2915

Application by the City of Stratford, under subsection (2b) of Section 398 of "The Municipal Act," for approval of its By-law No. 3346, amending its By-law No. 2740 by eliminating therefrom Part Lot 12, in Wm. McKenzie's Survey of Park Lot No. 459 in Canada Company's Survey.

June 21st. Application and material filed.

July 15th. Hearing, 11 A.M.; 11.10 to 11.50 A.M., Council Chamber, Stratford. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.)

July 16th. Report of Mr. Commissioner Ellis filed and adopted. Application granted.

July 21st. Draft Order filed.

July 21st. Order issued.

REPORT OF MR. COMMISSIONER ELLIS

I recommend that the by-law be approved. Under the Statute an amending by-law cannot be approved by the Board unless some of the conditions that are laid down in the Act are complied with. One of the conditions is that some change has taken place in the locality since the original by-law was approved. That seems to be the case in this application. It has been shown that a store has been erected and also a coal office and coal storage and other coal sheds are now being erected.

Another condition in the Statute is that the Board must decide whether it is in the interests of the district affected and of the community at large that this amendment should be allowed. One of the methods by which the Board can decide whether the amendment is in the interests of the people in the district is by having a Petition circulated, and we think it is a pretty good rule to allow the majority to decide. The people in the district probably best know what they want.

I do not know that there will be any particular benefit to the district by the erection of this gasoline station, but undoubtedly there will be a great deal more light on this corner.

This particular piece of property in question fronts on Nile Street and abutts on Falstaff Street. There is a railway track on the other side of the latter street and a number of coal yards. Falstaff can hardly be called a residential street. Therefore I do not think any injury will be caused to any person by allowing this lot be removed from the restricted area, and I recommend that the by-law be approved.

(Sgd.) J. A. ELLIS,

Commissioner.

Dated at Toronto,
this 16th day of June, A.D. 1930.

Approved:

(Sgd.) C. R. McKEOWN,

Chairman.

July 21st, 1930.

ORDER

The application of the Corporation of the City of Stratford under Section 398 of "The Municipal Act" for approval of its By-law No. 3346, amending its Restricted Area By-law No. 2740, having come on for Hearing before Mr. Commissioner Ellis, duly authorized to consider the said application and to report to the Board thereon as provided by Section 8 of "The Railway and Municipal Board Act," at the Council Chamber in the City Hall, Stratford, on Tuesday the 15th day of July, A.D. 1930, pursuant to an appointment given by the Board and dated the 23rd day of June, A.D. 1930, and it appearing that notice of said Appointment had been duly served upon the owners of property affected thereby, by mailing thereto a copy of the said Appointment and of the said by-law by registered letter at least ten clear days before the date fixed for the said Hearing and upon hearing the Solicitor for the said Corporation and David Jacobs who appeared in opposition to the said application and the said Commissioner having reported to the Board under date of the 16th day of July, A.D. 1930, in favour of the granting of the said approval and the said report having been adopted as a basis of the Board's Order, therefor:

1. The Board hereby approves of said By-law No. 3346.

2. And the Board directs that the Corporation shall affix Law Stamps to the value of Ten Dollars (\$10.00) to this Order as the Board's fee upon the said Hearing.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2916

Application by the City of Stratford, under subsection (2b) of Section 398 of "The Municipal Act," for approval of its By-law No. 3349, amending its By-law No. 2740 (as amended by By-law No. 3051) by adding paragraph 3g of Schedule "A," part Lot 98.

June 21st. Application and material filed.

July 15th. Hearing, 11 to 11.50 A.M., Council Chamber, Stratford. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.).

July 16th. Report of Mr. Commissioner Ellis filed and adopted. Application granted.

July 21st. Draft Order filed.

July 21st. Order issued.

REPORT OF MR. COMMISSIONER ELLIS

I recommend that this application be approved. July 16th, 1930.

(Sgd.) J. A. ELLIS,
Commissioner.

Adopted:

(Sgd.) C. R. McKEOWN,
Chairman.

July 21st, 1930.

ORDER

The application of the Corporation of the City of Stratford under Section 398 of "The Municipal Act" for approval of its By-law No. 3349, amending its Restricted Area By-law No. 2740, having come on for Hearing before Mr. Commissioner Ellis, duly authorized to consider the said application and to report to the Board thereon as provided by Section 8 of "The Railway and Municipal Board Act," at the Council Chamber in the City Hall, Stratford, on Tuesday the 15th day of July, A.D. 1930, pursuant to an Appointment given by the Board and dated the 23rd day of June, A.D. 1930, and it appearing that notice of said Appointment had been duly served upon the owners of property affected thereby, by mailing thereto a copy of the said Appointment and of the said by-law by registered letter at least ten clear days before the date fixed for the said Hearing and upon hearing the Solicitor for the said Corporation and no one appearing in opposition to the said application and the said Commissioner having reported to the Board under date of the 16th day of July, A.D. 1930, in favour of the granting of the said approval and the said report having been adopted as a basis of the Board's Order, therefore:

1. The Board hereby approves of said By-law No. 3349.
2. And the Board directs that the Corporation shall affix Law Stamps to the value of Ten Dollars (\$10.00) to this Order as the Board's fee upon the said Hearing.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2918

In the matter of the Petition of Barrett Brothers, and others, under Section 8 of "The Local Improvement Act," against proposed distribution of cost of pavement on Bank Street, between Gladstone Avenue and a point thirty two-feet north of Arlington Avenue, in the City of Ottawa.

June 23rd. Petition filed.

June 25th. Additional Petition filed.

July 11th. Hearing, 9 to 9.15 A.M., Council Chamber, Ottawa. Sixty per cent. to be paid by property owners and forty per cent. by the city of the entire cost of the work.

August 9th. Draft Order filed.

August 13th. Order.

July 11th, 1930.

ORDER

The petition of Messrs. Barrett Brothers and others under Section 8 of "The Local Improvement Act," against the distribution of the cost of a proposed pavement on Bank Street in the City of Ottawa between Gladstone Avenue and a point thirty-two (32) feet north of Arlington Avenue, having come on to be heard before the Board at a Special Sittings thereof held pursuant to Appointment at the Council Chamber in the City of Ottawa on Friday, the 11th day of July, 1930, whereupon upon it appearing to the satisfaction of the Board

that notice of the said Appointment had been served and published in accordance with the requirements of the Board, and upon hearing what was said both by the said petitioners and by the City Engineer of the said City of Ottawa.

1. The Board doth order and direct that forty (40) per centum of the total cost of the said local improvement pavement (in which percentage shall be included that part of the cost thereof which the said Corporation is by the provisions of "The Local Improvement Act," required to pay) shall be borne and paid by the Corporation of the City of Ottawa, and the remaining sixty (60) per centum of the cost thereof shall be assessed against the abutting properties in accordance with the provisions of "The Local Improvement Act."

2. The Board doth further order and direct that the Corporation of the City of Ottawa do pay the sum of \$10.00 for Law Stamps, the Board's tariff fee on this Order.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2926

Application by McKellar Townsite Co. Ltd., under Section 12 of "The Planning and Development Act," for amendment and alteration of Plan M. 29, Land Titles Office, Ottawa, by closing that part of Riverview Avenue, in the Township of Nepean, bounded on the east by the westerly boundary of Second Avenue, and on the south by the northerly boundary of Bay Avenue, as shown on the said plan.

June 20th. Application and material filed.

June 20th. Hearing, pursuant to arrangement, 9 A.M., Township Hall, Westboro. Application granted.

June 27th. Approved draft Order filed.

June 28th. Order.

June 20th, 1930.

ORDER

Upon the application of McKellar Townsite Company, Limited, upon reading the Notice of Application and the Notice of Hearing, and the affidavits of service thereof, upon the Township of Nepean, and the Town Planning Commission of the City of Ottawa, and the consent of such Town Planning Commission of the City of Ottawa, the consents of Alfred H. Jarvis, Michael S. White, Catherine Grace Jarvis and Thomas Henry Martin, and upon perusing the said Plan M. 29 filed in the office of Land Titles at Ottawa, and upon hearing what was alleged by Counsel for the applicant and upon hearing Counsel for the Township of Nepean.

The Board orders, under and in pursuance of the provisions of Section 111 of "The Land Titles Act," being Chapter 158 of the Revised Statutes of Ontario, 1927, and Section 12 of "The Planning and Development Act," being Chapter 236 of the Revised Statutes of Ontario, 1927, that Plan M. 29 filed in the office of Land Titles at Ottawa be and the same is hereby amended and altered by closing that part of Riverview Avenue bounded on the east by the westerly

boundary of Second Avenue, and on the south by the northerly boundary of Bayview Avenue as shown on the said plan.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2928

Application by the City of Stratford, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 3341, amending its Restricted Area By-law No. 2740 by the addition of Duke Street to Schedule "A" thereof.

June 28th. Application and material filed.

July 15th. Hearing, 11 to 11.10 A.M., Council Chamber, Stratford. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.).

July 16th. Report of Mr. Commissioner Ellis filed. Application granted.

July 21st. Draft Order filed.

July 21st. Order issued.

REPORT OF MR. COMMISSIONER ELLIS

I recommend that this application be approved. 16th July, 1930.

Adopted:

(Sgd.) C. R. McKEOWN,
Chairman.

(Sgd.) J. A. ELLIS,
Commissioner.

July 21st, 1930.

ORDER

The application of the Corporation of the City of Stratford under Section 398 of "The Municipal Act" for approval of its By-law No. 3341, amending its Restricted Area By-law No. 2740 to include Duke Street in the area thereby restricted to detached private residences, having come on for Hearing before Mr. Commissioner Ellis, duly authorized to consider the said application and to report to the Board thereon as provided by Section 8 of "The Railway and Municipal Board Act," at the Council Chamber in the City Hall, Stratford, on Tuesday the 15th day of July, A.D. 1930, pursuant to an Appointment given by the Board and dated the 23rd day of June, A.D. 1930, and it appearing that notice of said Appointment had been duly served upon the owners of property affected thereby, by mailing thereto a copy of the said Appointment and of the said by-law by registered letter at least ten clear days before the date fixed for the said Hearing and upon hearing the Solicitor for the said Corporation and no one appearing in opposition to the said application and the said Commissioner having reported to the Board under date of the 16th day of July, A.D. 1930, in favour of the granting of the said approval of the said report having been adopted as a basis of the Board's Order, therefore:

1. The Board hereby approves of said By-law No. 3341.

2. And the Board directs that the Corporation shall affix Law Stamps to the value of Ten Dollars (\$10.00) to this Order as the Board's fee upon the said Hearing.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-2936

Application by the Village of Forest Hill, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 482, amending its Restricted Area By-law No. 285 to extend a portion of Spadina Road. (Lots on east side and south of north limit of Lots 45, Plan 758, and west side south of north limit of Lot 11, Plan M-70) for business purposes and erection of apartment houses.

July 5th. Application and material filed.

July 24th. Hearing, pursuant to Appointment, 10.30 to 11 A.M., at Board's Chambers. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.).

July 24th. Report of Mr. Commissioner Ellis filed, and adopted.

August 7th. Application granted.

September 24th. Draft Order filed.

September 25th. Order issued.

REPORT OF MR. COMMISSIONER ELLIS

By consent of all parties it was agreed that the application be granted, but Order not to issue for two weeks. I therefore recommend that this course be adopted.

July 24th, 1930.

(Sgd.) J. A. ELLIS,
Commissioner.

Adopted:

(Sgd.) C. R. MCKEOWN,
Chairman.

August 7th, 1930.

ORDER

Upon the application of the said Corporation, and Mr. Commissioner Ellis (authorized under Section 8, Chapter 225, R.S.O.), having, pursuant to Appointment, heard this application on the 24th day of July, A.D. 1930, at the Board's Chambers, in the Parliament Buildings, in the City of Toronto, and upon hearing read the material filed by Melville Grant, Esq., Solicitor for the applicant, in presence of Walter A. Strowger, Esq., representing the Suydam Realty Company, Limited, a ratepayer, upon hearing what was alleged by Counsel for the applicant, and no one appearing to oppose said application, although notice of the Hearing of same was duly given as required by the Statute, and it having been agreed at the aforesaid Hearing, by consent of all parties, that the application be granted, but that Order in respect of same should not issue for two weeks from that date, and Mr. Commissioner Ellis having so reported to the Board and recommending

that such course be adopted, and this report having been adopted by the Board as the basis of this Order.

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," being Chapter 233, Revised Statutes of Ontario, 1927, and amendments thereto, that the said By-law No. 482, entitled "A By-law to amend By-law No. 285 to extend the business area on Spadina Road," be and the same is hereby approved.

And the Board makes no Order as to costs, except that the Corporation pay the Board's tariff fee of \$10.00 for Law Stamps on the Order herein.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2937

In the matter of the petition of E. McMahon, and others, under Section 8 of "The Local Improvement Act," against the construction of a concrete sidewalk on the east side of Sweetland Avenue, between Somerset Street and, Templeton Street, in the City of Ottawa.

July 8th. Petition filed.

July 25th. Hearing, 9 to 9.30 A.M., Council Chamber, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.). Matter to stand for one month. If city abandons the work no Order to be issued. If city decides to go on with the work Order to be made dismissing the Petition.

PROCEDURE FILE A-2940

In the matter of the Petition of Thomas Lees and others, under Section 8 of "The Local Improvement Act," against the construction of a pipe sewer on Main Street, between Hess and Queen Streets, in the City of Hamilton.

July 10th. Petition filed.

July 23rd. Hearing, pursuant to Appointment, 10.45 to 11.45 A.M., Council Chamber, Hamilton, Petition dismissed.

August 14th. Draft Order filed.

August 14th. Order.

July 23rd, 1930.

ORDER

Upon the application of the said Thomas Lees and others to this Board under Section 8 of "The Local Improvement Act," against the construction by the Corporation of the City of Hamilton of pipe sewers on Main Street between Hess and Queen Streets in said city, and upon consideration of such Petition and the other material filed, and hearing all parties interested, and upon consideration of the evidence adduced and what was alleged by Counsel for the petitioners and for the Corporation of the City of Hamilton:

1. This Board doth order that the Petition be and the same is hereby dismissed.

2. And this Board doth further order that there shall be no costs of the said application to any party, except that the Corporation of the City of Hamilton

shall pay \$15.00 for Law Stamps on this Order, chargeable to the cost of the work.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2945

In the matter of a Notice of Objection under Section 6 of "The Local Improvement Act," by E. N. Saunders and others, respecting the work known as "Jarvis Street Extension," in the City of Toronto.

July 12th. Notice filed. (See A-2974 and A-2978).

September 2nd. Hearing, 10.30 A.M., to 5 P.M., at Board's Chambers. Adjourned to 3rd instant, at 10 A.M.

September 3rd. Hearing continued, 10 A.M. to 1 P.M. Hearing concluded. Judgment reserved.

September 11th. Judgment delivered. Application dismissed. Board has no jurisdiction. (Law Stamps, \$30.00, to be paid by the city).

September 15th. Approved draft Order filed.

September 17th. Order issued.

October 8th. Notice of leave to appeal filed.

REASONS FOR JUDGMENT

The Corporation of the City of Toronto having in view the very laudable object of relieving the congested condition of traffic on Yonge Street by the opening up of a through north and south thoroughfare, had its engineers make certain investigations as to a route east of and parallel with Yonge Street.

In the opinion of the engineers, to secure such a route it would be necessary to cut through that part of the City of Toronto known as Rosedale, and a number of alternate routes were suggested and examined with the above object in view. The route referred to as an extension of Jarvis Street, and being known as the Harris Wilson plan, was finally recommended to the City Council, and was adopted by the Board of Control and by the City Council of the said Corporation of the City of Toronto.

The said Council then commenced proceedings under "The Local Improvement Act," being Chapter 235, R.S.O., 1927, and had one of its officials make a report not only as to the properties immediately abutting upon the proposed work, but as to the properties that might be assessed for a part of the cost of the work as being within the area immediately benefitted thereby.

Notice of the intended work, Exhibit 4d, was then sent to all parties against whose property a special assessment was proposed to be made, and the work was therein referred to as the extension of a street northerly from Bloor Street about opposite Jarvis Street to connect with Mount Pleasant Road at St. Clair Avenue.

The work being one the cost of which was estimated to exceed \$50,000, notice was served upon the Corporation of the City of Toronto within ten days of the receipt of such notice by Mr. Robertson, acting for certain persons whose land it was proposed to specially assess, which said notice objected to the work being undertaken upon the grounds set out in Section 6 of the said "Local Improvement Act."

The solicitor for the Corporation of the City of Toronto thereupon made application to The Ontario Railway and Municipal Board for its approval of the said work, which approval is required to be secured under Section 6 of the said Act before the said work can be proceeded with.

It is not the policy of this Board, nor is it its present intention, to in any way interfere with the policy to be adopted by the said Council, and the question as to whether the route adopted is the best one that can be secured is a matter rather for the Corporation of the City of Toronto, relying upon its engineers, than for this Board to decide.

The question, however, now before this Board is one not devoid of difficulty, and Section 2, subsection (1) sets out the different works that may be undertaken by a Corporation under "The Local Improvement Act":

- (a) opening, widening, extending, grading, altering the grade of, diverting or improving a street;
- (b) opening or establishing a new street;
- (c) constructing a subway under a railway.

The Legislature appears to have drawn a distinction between the opening of a street and the opening of a new street, the one being referred to in Clause (a), subsection (1), and the other in Clause (b), subsection (1), as above mentioned.

Then Section 8, subsection (1) sets out the several works that may be undertaken as local improvements without petition, and among other works there is mentioned in the very words of Clause (a), subsection (1) of Section 2: "The opening, widening, extending, grading, altering the grade of, diverting or improving a street," but Clause (b) of subsection (1), being the opening or establishing of a new street, is not, in so many words at any rate, included in Section 8.

Under Section 6 this Board has jurisdiction to give or withhold its approval only if the work being undertaken, and for which that approval is asked, is the opening, widening or extension of a street, or the construction of a bridge, and the cost of the work is estimated to exceed \$50,000.00.

Although the notice published in connection with this work refers to it as an extension of Jarvis Street, that notice so worded does not in itself make it simply an extension of Jarvis Street. The notice further, in setting out the work to be undertaken, refers to it in several places as a new street, as for instance in:

- (c) the opening and grading of a new street;
- (e) the opening and grading of a new street, etc.

But this wording does not of itself make the undertaking of necessity a new street.

Taking everything into consideration it is therefore the duty of this Board to decide whether or not in its opinion the work is such as can be undertaken without petition under Section 8, and is such a work as comes under Section 6 of "The Local Improvement Act," for which the Board's approval may be asked.

The work is said to comprise:

(a) The opening and grading of a new street at a width of seventy-eight feet more or less, commencing at the north side of Bloor Street about opposite the northerly terminus of Jarvis Street, and extending in a north-easterly direction to a point on Huntley Street, the Rosedale Valley ravine to be spanned by a bridge;

(b) The widening and grading of Huntley Street, which street is at this particular point to be made use of for the proposed new street or extension to South Drive;

(c) The opening up and grading of a new street from South Drive about opposite the northerly terminus of Huntley Street to Crescent Road about opposite Wrentham Place;

(d) The widening and grading of Wrentham Place;

(e) The opening and grading of a new street from the north side of Roxborough Street about opposite Wrentham Place in a northeasterly direction to connect with Rosehill Avenue, including the crossing of Park Drive reservation by a bridge, and crossing the C.P.R. right-of-way by a subway;

(f) Widening of Rosehill Avenue;

(g) The opening and grading of a new street from the intersection of Inglewood Drive and Clifton Road in a northeasterly direction to Glenrose Avenue;

(h) The opening and grading of a new street from about opposite the proposed new street as above described, and extending northerly from Glenrose Avenue to St. Clair Avenue about opposite the southerly terminus of Mount Pleasant Road; all of which works are referred to as an extension of Jarvis Street by a street seventy-eight feet in width from the northerly limit of Bloor Street to the southerly limit of St. Clair Avenue.

As this work is one of a very extensive nature, and may possibly be the fore-runner of other similar works, this Board would be very pleased indeed to have a definite interpretation of "The Local Improvement Act," Sections 3, 6 and 8 above referred to, by the Supreme Court of Ontario; but after giving the matter mature consideration the Board in itself is of the opinion that the work being undertaken as above set out, and for which this Board's approval is asked, is not "the opening, widening or extension of a street" as distinguished from "the opening of a new street," and is therefore not such a work as is contemplated by the wording of Section 6 of "The Local Improvement Act," and not being such a work this Board is of the opinion that it has no jurisdiction either to approve or disapprove, and must therefore dismiss the application.

And the Board makes no Order for costs save and except that the Corporation of the City of Toronto shall pay Thirty Dollars, the Board's fee for Law Stamps on the Order.

(Sgd.) C. R. McKEOWN,
Chairman.

Dated at Toronto,
this 11th day of September, A.D. 1930.

September 11th, 1930.

ORDER

Upon the application of the above-named Applicant in presence of Counsel for a number of property owners and of a number of property owners appearing in person, upon hearing the evidence adduced on behalf of the Applicant and Respondents, upon hearing Counsel for the Applicant and certain of the Respondents, and upon hearing certain Respondents in person and this Board being of the opinion that it has no jurisdiction to entertain this application, it therefore orders:

1. That the said application be and the same is hereby dismissed.
2. And it is further ordered that the Corporation of the City of Toronto shall pay Thirty Dollars, the Board's fee for Law Stamp on this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-2952

Application by the City of Toronto, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 12760, repealing its Restricted Area By-laws Nos. 4469, 6109 and 9874 in so far as they prevent the erection of stores and apartments on the north side of Bloor Street, east of Walmer Road.

July 16th. Application and material filed.

August 12th. Hearing, 10.30 A.M., to 12 M.D., at Board's Chambers.. Application granted. City Solicitor to draft Order.

August 18th. Draft Order filed.

August 18th. Order.

August 12th, 1930.

ORDER

Upon the application of the Corporation of the City of Toronto for approval, pursuant to subsection (2b) of Section 398 of "The Municipal Act," being R.S.O. 1927, Chapter 233, of its By-law No. 12760, upon hearing what was alleged by Counsel for the Applicant and by and behalf of the one property owner affected, the other property owners affected not having appeared although duly notified of this application according to the direction of the Board and requirements of the Statute aforesaid as by affidavits filed appears.

The Board orders under and in pursuance of the provisions of subsection (2b) of Section 398 of "The Municipal Act," the said by-law being intituled "No. 12760. A By-law to repeal By-laws Nos. 4469, 6109 and 9874, in so far as they prevent the erection of stores and apartments on the north side of Bloor Street east of Walmer Road," be and the same is hereby approved.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2955

Application by the City of Toronto, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 12763 repealing its By-law No. 8866 in so far as it prevents the conversion into a duplex dwelling of the premises at No. 110 Bedford Road.

July 18th. Application and material filed.

August 12th. Hearing, pursuant to Appointment, 10.30 A.M. to 12 M.D., at Board's Chambers. Application granted. City Solicitor to draft Order.

August 18th. Draft Order filed.

August 18th. Order.

August 12th, 1930.

ORDER

Upon the application of the Corporation of the City of Toronto for approval, pursuant to Section 398, subsection (2b) of "The Municipal Act," being R.S.O. 1927, Chapter 233, of its By-law No. 12763, upon hearing what was alleged by Counsel for the Applicant, no one appearing in opposition to the said by-law notwithstanding service of notice upon all property owners affected according to directions of this Board, as by affidavits filed appears, upon considering the

said by-law, and it appearing that there was no opposition to the approval of the said by-law.

The Board orders, under and in pursuance of the provisions of Section 398, subsection (2*b*) of "The Municipal Act," that the said by-law being intituled No. 12763. A By-law to repeal By-law No. 8866 in so far as it prevents the conversion into a duplex dwelling of the premises at No. 110 Bedford Road," be and the same is hereby approved.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2958

Application by the City of Toronto, under subsection (2*b*), Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 12713, as amended by its By-law No. 12766, establishing a restricted district or zone in a portion of the city north of Roselawn Avenue and west of Rosewell Avenue and its production.

July 18th. Application and material filed.

September 30th. Hearing, 10.30 A.M. to 1 P.M., at Board's Chambers. All objections heard. Court reporter has noted objections to by-law to be considered by the Board. Hearing adjourned to 18th November, 1930, at 10.30 A.M.

October 30th. Copy of By-law No. 12835, repealing in part By-law No. 12713, filed. (Permitting erection of two dwellings on south side of Glenview Avenue, west of Rosewell Avenue, closer to south street line than twenty feet).

November 18th. Hearing continued, 10.30 to 11 A.M. Adjourned to 10.30 A.M., December 17th, 1930.

December 17th. Hearing continued, 10.30 to 10.45 A.M. By-laws Nos. 12713 and 12766 having been repealed, this application withdrawn. Copy of By-law No. 12931 filed, paragraph 6 of which repeals By-law No. 12713 and all by-laws amending same.

PROCEDURE FILE A-2972

Application by the City of Kingston, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 31 (1930) to establish restricted districts or zones in the City of Kingston.

July 21st. Application and material filed.

September 12th. Hearing, 1 to 2.30 P.M., Council Chamber, Kingston. Application granted, subject to certain amendments to the by-law to be approved by opposing Counsel.

PROCEDURE FILE A-3016

Application by The Home Telephone Co., Ltd., under Sections 93, 94 and 95 of "The Telephone Act," for an Order prescribing the terms and conditions upon which the Applicant shall furnish service to A. E. Ramsey, in the Village of Udora, and for that purpose, consent to the parallelling of the pole leads of The Sunderland Telephone Co., Ltd., or for such Order for joint use of such company's poles as the Board may deem expedient.

August 25th. Application and material filed.

September 18th. Hearing, 11 A.M. to 12 MD., at Town Hall, Sunderland. (Chairman authorized under Section 8, Chapter 225, R.S.O.).

September 25th. Report of Chairman filed and adopted. Application dismissed.

September 25th. Order.

REPORT

The undersigned, having heard the evidence adduced on behalf of all parties, and upon reading the Report of the Board's Inspector of Telephone Service, is of opinion that it is not desirable to permit any further duplication of telephone service in the Village of Udora and therefore recommends that this application be dismissed.

(Sgd.) C. R. McKEOWN,
Chairman.

Adopted as basis of Board's Order.

(Sgd.) J. A. ELLIS,
Commissioner.

Toronto, September 25th, 1930.

September 25th, 1930.

ORDER

Upon the application of the above-named Applicant, in the presence of the Applicant, and upon reading the Report of C. R. McKeown, Esquire, K.C., Chairman, who pursuant to Appointment heard the evidence adduced on behalf of the Applicant, The Home Telephone Company, Limited, The Sunderland Telephone Company, Limited, and A. E. Ramsey, and other material on file.

The Board orders that the said application be and the same is hereby dismissed.

And the Board makes no order for costs or for Law Stamp fee in respect of this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3017

BETWEEN:

Fred Sills, *et al*,

Applicants,

—and—

The Ernestown Rural Telephone Co., Ltd.,

Respondent.

Application under Sections 93 and 95 of "The Telephone Act," for an Order prescribing the terms and conditions upon which the Applicant shall be furnished by the Respondent with service and for that purpose consent to the paralleling of the pole lead of The Perry Telephone System).

August 25th. Application and material filed.

September 26th. Hearing, 12.30 to 2 P.M., Court House, Napanee. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.). Board's Inspector to make inspection and report. Final decision reserved to December 31st, 1931, to allow Perry Telephone System to improve service.

PROCEDURE FILE A-3018

BETWEEN:

The Municipal Corporation of the Village of Grand Valley,
Applicant,

—and—

The East Luther Telephone Co., Ltd.,
Respondent.

(Application under Section 90 of "The Telephone Act," for an Order requiring the Respondent to furnish continuous service).

August 25th. Application and material filed.

September 19th. Hearing, 11 A.M. to 12 P.M., at Carnegie Hall, Grand Valley. (Chairman authorized under Section 8, Chapter 225, R.S.O.).

September 24th. Judgment. (See Board's letter of September 24th, 1930, to Respondent).

September 24th, 1930.

W. A. WANSBOROUGH, ESQ.,
Secretary, The East Luther Telephone Co., Ltd.,
Grand Valley, Ont.

Re Continuous Service—(P.F.A-3018)

DEAR SIR:

I have to refer to the recent Hearing relative to this matter at which the Chairman was present and I am instructed to advise you as follows:

Upon reference to the Board's files it would appear that in March, 1917, an application was made to this Board for authority to increase the rate for telephone service from \$5.00 per annum to the present charges. This application was heard on April 11th, 1917, and an Order approving of the increased charges was issued on April 16th, 1917. Paragraph 1 of this Order provides:

"That the tariff charges herein authorized shall only apply to those subscribers of the telephone system of the Applicant whose lines terminate at points where the Applicant is furnishing a continuous service, day and night, Sundays and holidays."

I am enclosing herewith a copy of this Order.

In August, 1926, a request was made to this Board for the approval of a charge of twenty-five cents per call on all calls other than those for medical veterinary or police aid or in case of fire after 10 P.M. and on Sundays except between 9 A.M. and 10 A.M. and 2 P.M. and 4 P.M. As the Board appreciated the fact that the object of this charge was to discourage social or unnecessary calls

at night and on Sundays, approval was granted by Order, dated August 5th, 1926. This Order, however, distinctly provides that:

“The Board may at any time hereafter on its own motion or upon any application of complaint, rescind this Order and withdraw its approval to any of the said tolls.”

In view of the foregoing the Board is of opinion that the company is under an obligation to provide continuous service day and night, Sundays and holidays included, subject only to the condition that a charge of twenty-five cents may be made after 10 P.M. and on Sundays, except between 9 A.M. and 10 A.M. and 2 P.M. and 4 P.M. on calls other than for medical, veterinary or police aid or in case of fire. This means that every call must be answered at the central office at any time day or night, Sundays and holidays included. During the hours between which the service is available for all calls which the Board understands is from 6 A.M. and 10 P.M. on week days and 9-10 A.M. and 2-4 P.M. on Sundays, an operator must be on duty at the switchboard. For the purpose of answering calls at other times a night bell must be so installed as to enable every call to be answered without regard to whether it is an emergency call or a social or ordinary business call, upon which a charge of twenty-five cents may be made in accordance with the Board's Order of August 5th, 1926.

In regard to long distance calls, arrangements must be made with the Bell Telephone Company whereby these calls will be received and transmitted at all hours without any charge other than the established long distance rates.

I am further instructed to say that unless the provisions of the Board's Order as indicated herein are observed, the Board will have no alternative but to cancel its Order of August 5th, 1926, and require the provisions of paragraph 1 of its Order of April 16th, 1917, to be carried out in its entirety.

Very truly yours,

(Sgd.) FRANCIS DAGGER,
Supervisor of Telephone Systems.

PROCEDURE FILE A-3030

Application by the Township of North York, under Section 398 of “The Municipal Act,” for approval of the following Restricted Area By-laws:

- (a) By-law No. 866, Bayview and other streets;
- (b) By-law No. 867, Bayview and other streets;
- (c) By-law No. 868, 20th Avenue East, and other streets;
- (d) By-law No. 869, 150 feet east of Yonge Street in northerly limit of City of Toronto, etc.;
- (e) By-law No. 1096, First Avenue west of Yonge Street, etc.;
- (f) By-law No. 1097, 30th Avenue West, etc.;
- (g) By-law No. 1098, Brooke Avenue, etc.;
- (h) By-law No. 1099, 150 feet north of Lawrence Avenue, etc.;
- (i) By-law No. 1100, 150 feet southerly from Lawrence Avenue, etc.;

All to detached private dwellings.

September 6th. Application and copy of each by-law filed.

October 6th. Hearing, 10.30 A.M. to 12.30 P.M., at Board's Chambers.

(a) By-law to be reconsidered by Council as to stables, etc., for Country Clubs. Sunnybrook Park, used by city to be considered and By-law amended. Amendment also as to thirty acres south of Sunnybrook Park. Private stables to be allowed as outbuildings.

(b) By-law to be considered by Council to allow semi-detached houses and exempt Englington frontage.

(c) Council to consider restricting to 150 feet instead of 300 feet from Yonge Street, and gift to cemetery.

(d) Council to consider allowing apartments or duplexes on Lawrence Avenue; also *re* Toronto Transportation Commission property and Miniature Golf Course property.

(e) Council will consider Lot 13, Concession I west of Yonge Street, 103 acres (Sweeney Estate property). Livingstone Estate property may be sold for York Downs Golf Club purposes. Old "Golden Lion" Hotel property also to be considered by Council and two duplexes.

(f) Council to consider Wilson Avenue, both sides the same. Duplexes on Avenue Road and Wilson Avenue.

(g) Council to consider Toronto Cricket Club expansion, etc., question of duplexes on Wilson Avenue and other streets.

(h) Duplexes to be considered by Council.

(i) Fifty feet frontage restriction to be amended where necessary to prevent hardship. Restrictions to run to Bathurst Street and apply to business fronting thereon. (Plan 1505.)

In all cases, see Reporter's Notes. Hearings adjourned to 19th November, 1930, at 10 A.M.

November 19th. Hearings continued:

(a) 10 to 10.15 A.M. Adjourned to 10 A.M., 19th December, 1930, at Board's Chambers.

(b) 10 to 10.20 A.M. Amending By-law No. 1172 filed. By-law No. 867 approved as amended.

(c) 10 to 10.30 A.M. Adjourned to 19th December, 1930, at 10 A.M. Additional owners to be notified.

(d) 10 to 10.30 A.M. Adjourned to December 19th, 1930, at 10 A.M. Additional owners to be notified.

(e) 10 to 10.20 A.M. Amending By-law No. 1174 filed. By-law No. 1096 approved as amended.

(f) 10 to 10.15 A.M. Adjourned to December 19th, 1930, at 10 A.M.

(g) 10 to 10.30 A.M. Adjourned to December 19th, 1930, at 10 A.M.

(h) 10 to 10.30 A.M. Amending By-law No. 1175 filed. By-law No. 1099 approved as amended.

(i) 10 to 10.30 a.m. Adjourned to December 19th, 1930, at 10 A.M. December 19th. Hearings continued:

(a), (c), (d), (f), (g) and (i). 10 to 10.10 A.M. At request of Counsel, Hearings adjourned to February 3rd, 1931, at 10.30 A.M.

PROCEDURE FILE A-3034

Application by the Township of Etobicoke, under "The Township of Etobicoke Act, 1923" (Chapter 62, 13-14 Geo. V.) and amendments, for approval of its By-law No. 3632, enlarging Water Area No. 13.

September 8th. Application and material filed.

September 29th. Hearing, pursuant to Appointment, 10.30 to 10.40 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

October 3rd. Draft Order filed.

October 3rd. Order.

September 29th, 1930.

ORDER

Upon the Application of the said Corporation, upon reading the Notice of Application and the other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant and no one appearing in opposition to the application.

The Board orders and certifies under and in pursuance of the provisions of the said Act being Chapter 62, 13-14 Geo. V., and amendments thereto, that the said By-law No. 3632, intituled "By-law No. 3632. A By-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 13, as established by By-law No. 3450 and enlargements thereof, by adding thereto the land hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 13 into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3045

In the matters of Sections 56 and 59 of "The Highway Improvement Act" (R.S.O., 1927, Chapter 54), and in the matter of Section 28 of "The Public Works Act" (R.S.O., 1927, Chapter 52), and in the matter of compensation to be paid to the owner, Marie Rosenfeld, in respect of certain lands, Lot 393, Registered Plan 1043, northwesterly side of the Lake Shore Road, Town of New Toronto, expropriated (and building removed therefrom) by the Department of Public Highways of Ontario.

September 12th. Reference and blueprint drawings (three) filed by the Minister.

October 14th. Subpoena issued to claimant's Solicitors.

October 15th. Hearing, 10.30 to 11.15 A.M., at Board's Chambers. Adjourned *sine die* on question of jurisdiction and parties. (See Reporter's Notes.)

PROCEDURE FILE A-3047

Application by The Essex Border Utilities Commission under Section 10 (2) of "The Consolidated Essex Border Utilities Act, 1929," for approval of its By-law No. 74, (\$30,000 for erection of laundry at the Metropolitan General Hospital).

September 16th. Application and material filed.

October 1st. Hearing, 9.30 to 9.45 A.M., Court House, Sandwich. Application granted.

October 3rd. Draft Order filed.

October 6th. Order issued.

October 1st, 1930.

ORDER

Upon the Application of The Essex Border Utilities Commission made to this Board at the Town of Sandwich on the first day of October, 1930, under Section 10 of "The Consolidated Essex Border Utilities Act, 1929," upon hearing read the proceedings herein and the evidence adduced, it appearing that the municipalities have been served with the copy of the Appointment herein, and upon hearing what was alleged on behalf of the Applicant, and no one appearing in opposition thereto.

The Board, under and in pursuance of Section 10 of "The Consolidated Essex Border Utilities Act, 1929," and amendments thereto, consents to the issuing by the Essex Border Utilities Commission of the debentures in the sum of Thirty Thousand Dollars (\$30,000.00) under provisional By-law No. 74, of the said Commission for the purpose of extending and improving the Metropolitan General Hospital by erecting and establishing a laundry.

And the Board makes no Order as to costs except that the Commission shall pay \$15.00 for Law Stamps on this Order.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3057

In the matter of the Petition of H. C. Tinline, and others, under Section 8 of "The Local Improvement Act," against the construction of an asphalt pavement, etc., on Indian Road, from Indian Road Crescent to 270 feet east, and brick block pavement from 270 feet east of Indian Road Crescent to Chelsea Avenue, in the City of Toronto.

September 18th. Petition filed.

October 14th. Hearing, 10.30 A.M.; 10.45 to 11.05 A.M., at Board's Chambers. Hearing concluded. Board directs that work not to proceed until 1st May, 1931. (See Reporter's Notes.)

October 21st. Approved draft Order filed.

October 21st. Order.

October 14th, 1930.

ORDER

This Petition having come on for Hearing this day before this Board, in the presence of Counsel for the petitioners and for the Corporation of the City of Toronto, upon hearing read the said Petition and upon hearing the evidence adduced and what was alleged by Counsel aforesaid.

It is ordered that the said Petition be and the same is hereby dismissed subject to the condition that the work petitioned against shall not be commenced prior to the first day of May, A.D. 1931.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3057a

In the matter of the Petition of H. C. Tinline and others, against the construction of concrete curbing on the north and west sides of Indian Road, between the east limit of Lot 9, Plan M-345, and Chelsea Avenue, in the City of Toronto. September 18th. Petition filed.

October 14th. Hearing, 10.30 A.M.; 10.45 to 11.05 A.M., at Board's Chambers. Hearing concluded. Board directs that work not to proceed until May 1st, 1931. (See Reporter's Notes.)

October 21st. Approved draft Order filed.

October 21st. Order.

October 14th, 1930.

ORDER

This Petition having come on for Hearing this day before this Board, in the presence of Counsel for the petitioners and for the Corporation of the City of Toronto, upon hearing read the said Petition and upon hearing the evidence adduced and what was alleged by Counsel aforesaid.

It is ordered that the said Petition be and the same is hereby dismissed subject to the condition that the work petitioned against shall not be commenced prior to the first day of May, A.D. 1931.

(Seal)

(Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-3070

Application by the Township of York, under Section 398 of "The Municipal Act," for approval of its By-law No. 10650, restricting to detached private dwelling houses and duplex houses, the district known as "Cedarvale," in the said township.

September 30th. Application and material filed.

October 21st. Hearing, 10.30 A.M. to 12.20 P.M., at the Board's Chambers. Council to consider amendment, dropping Lots 268 and 292, in ravine next to the new bridge, from residential area, and to consider the \$8,000 requirement. Hearing adjourned to 21st November, 1930, at 10.30 A.M., at Board's Chambers. (See Reporter's Notes.)

November 21st. Hearing continued, 10.30 to 11.35 A.M. Amending By-law No. 10692 filed. By-law No. 10650 approved as amended. Applicant's Solicitor to draft Order.

November 24th. Draft Order filed.

November 24th. Order.

November 21st, 1930.

ORDER

Upon the application of the Corporation of the Township of York, for approval of its By-law No. 10650, as amended by By-law No. 10692, upon reading the Declaration of John Harvey proving service of the Notice of Application by registered mail on all the owners affected by the said by-law

whose names appear on the last revised assessment roll of the municipality as required by the provisions of Section 398 of "The Municipal Act," upon hearing the evidence adduced and what was alleged by Counsel for the Applicant and by various property owners present or represented by Counsel.

1. The Board orders, under and in pursuance of Section 398 of "The Municipal Act," that the said By-law No. 10650, intituled "A By-law No. 10650. To prohibit the erection of buildings other than detached private dwelling houses and duplex houses on any land fronting or abutting on certain defined highways in the district known as Cedarvale in the Township of York," as amended by the said By-law No. 10692, intituled "A By-law No. 10692 to amend By-law No. 10650, passed on the 25th day of September, 1930," be and the same if hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3083

Application by the City of Kitchener, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 2170, amending its Zoning Ordinance By-law No. 1834 (as amended by its By-laws Nos. 1834 and 1835), by the addition to Section 7, subsection 6, certain portions of King Street.

October 10th. Application and material filed.

November 12th. Hearing, 11.30 A.M. to 2.30 P.M., Council Chambers. City Hall, Kitchener. Application granted.

November 21st. Draft Order filed.

November 22nd. Order issued.

November 12th, 1930.

ORDER

Upon the application of the said Corporation and upon reading the copy of each of the said by-laws and the other material filed and the Board having this day, pursuant to Appointment, at the Council Chamber, in the City of Kitchener, heard all parties interested, no one appearing in opposition to the application, although public notice of the hearing was duly given as directed by the Board.

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law No. 2170, being a By-law to amend the Zoning Ordinance, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3084

Application by the City of Kitchener, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 2177, amending its Zoning Ordinance By-law No. 1823 (as amended by its By-laws Nos. 1834 and 1835), by the addition to "C," Business Districts, Section 4, the area bounded by West Avenue, Grand River Railway right-of-way and Wilmot Street.

October 10th. Application and material filed.

November 12th. Hearing, 11.30 A.M. to 2.30 P.M., Council Chamber, City Hall, Kitchener. Application granted.

November 21st. Draft Order filed.

November 22nd. Order issued.

November 12th, 1930.

ORDER

Upon the Application of the said Corporation, and upon reading the copy of each of the said by-laws and the other material filed, and the Board having this day, pursuant to Appointment, at the Council Chamber, in the City of Kitchener, heard all parties interested, no one appearing in opposition to the Application although public notice of the Hearing was duly given as directed by the Board.

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law No. 2177, being a by-law to amend the Zoning Ordinance, be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3091

Application by the City of Toronto, under Section 398 (2b) of "The Municipal Act," for approval of its By-law No. 12808, repealing its By-law No. 9683 in so far as it prevents the conversion of No. 6 Crescent Road into a duplex dwelling house.

October 16th. Application and material filed.

November 13th. Hearing, 10.30 A.M.; 11 A.M. to 11.10 A.M., at the Board's Chambers. (See Reporter's Notes.)

December 15th. Hearing continued, 10.30 to 11 A.M. Adjourned *sine die* pending Petition for this amendment by a majority of owners on Crescent Road. (See Reporter's Notes.)

PROCEDURE FILE A-3092

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its By-law No. 12810, restricting to detached private residences only the land and buildings on Blythwood Road, from the rear limit of properties fronting on the east side of Yonge Street to the east end, except that portion between the rear limit of properties fronting on the east side of Mount Pleasant Road and the production northerly of the east street line of Beulah Street.

October 16th. Application filed.

November 13th. Hearing, 10.30 to 11 A.M., at Board's Chambers. By-law to be amended as desired by Toronto Board of Education. Property at corner of Yonge Street to be reconsidered with National Trust Company property. Taylor property to be considered. Hearing adjourned to 10.30 A.M., 15th December, 1930, at Board's Chambers. (See Reporter's Notes.)

December 15th. Hearing continued, 10.30 A.M.; 11 to 11.05 A.M. Adjourned to 10th February, 1931, at 10.30 A.M., at Board Chambers.

PROCEDURE FILE A-3094

Application by the City of Toronto, under Section 18 of "The Local Improvement Act," for approval of its By-law No. 12788, amending its By-law No. 12323, by abandoning work as to Nos. 7 and 114 Eglinton Avenue East, authorized thereunder.

October 17th. Application and material filed.

November 6th. Hearing, 10.30 to 11 A.M., at Board's Chambers. Adjourned *sine die*. City to apply for new Appointment of which notice to be given. (See Reporter's Notes.)

PROCEDURE FILE A-3113

In the matter of the Petition of E. L. Laur, and others, under Section 8 of "The Local Improvement Act," against the construction of a watermain on that portion of Clarence Street, in the Village of Woodbridge, fronting on the property of the petitioners.

October 29th. Petition filed.

December 3rd. Hearing, 10.30 to 11 A.M., at the Board's Chambers. The Corporation to assume fifty per cent. of the cost.

December 3rd. Order.

December 3rd, 1930.

ORDER

Upon the Petition of the said E. L. Laur, and others, under Section 8 of "The Local Improvement Act," against the extension northward of the water-mains over that part of Clarence Street, in the said Village of Woodbridge fronting on their property, and the clerk of the said village having certified that the said petition was sufficiently signed and filed within the required statutory time, and the Board having this day, pursuant to Appointment, at its Chambers, heard all parties interested herein.

The Board orders, under and in pursuance of the provisions of Section 8 of "The Local Improvement Act," that the Corporation of the Village of Woodbridge may proceed with such work on assuming such part of the owners' portion of the cost of the work as shall, together with the Corporation's portion of the cost under Section 23 of "The Local Improvement Act," amount to fifty per cent. of the total cost of such work.

And the Board orders, that its tariff fee of Ten Dollars for Law Stamp on this Order shall be paid by the Corporation of the Village of Woodbridge, and charged to the cost of this local improvement work.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3114

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 12833, restricting Heath Street East to detached private residences.

October 30th. Application and material filed.

December 2nd. Hearing, 10.30 A.M.; 10.40 to 11.25 A.M., at the Board's Chambers. Adjourned to February 10th, 1931, at 10.30 A.M., at the Board's Chambers, pending negotiations.

PROCEDURE FILE A-3115

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 12834, restricting Rosehill and Avoca Avenues to detached private residences.

October 30th. Application and material filed.

December 2nd. Hearing, 10.30 A.M.; 11.25 A.M. to 12.25 P.M., at Board's Chambers. Adjourned, pending consideration by City Council of adverse petition, to 10th February, 1931, at 10.30 A.M., at the Board's Chambers.

PROCEDURE FILE A-3125

Application by the City of Toronto, under Section 398, subsection (2b) of "The Municipal Act," for approval of its By-law No. 12835, repealing its By-law No. 11961 (as amended by By-law No. 12163) in so far as it prevents the erection of apartment house at Nos. 40 and 42 Wells Street.

November 3rd. Application and material filed.

November 28th. Copy of amending By-law No. 12880 filed.

December 2nd. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. At request of Council Hearing adjourned to 20th January, 1931, at 10.30 A.M., at the Board's Chambers.

PROCEDURE FILE A-3151

BETWEEN:

John Douglas,

Applicant,

—and—

The Millbrook Rural Telephone Co. Ltd.,

Respondent.

(Application under Section 95 of "The Telephone Act," for an Order prescribing the terms and conditions upon which the Respondent shall furnish the Applicant with service.)

November 21st. Application and material filed.

December 8th. Hearing, 1.30 to 3 P.M., Court House, Peterborough. Judgment reserved.

December 16th. Judgment delivered. Application dismissed.

REASONS FOR JUDGMENT

Pursuant to an Appointment issued herein the Ontario Railway and Municipal Board held a Sittings in the City of Peterborough on Monday, the

8th day of December, 1930, at one o'clock in the afternoon, when the application of Mr. John Douglas requesting the Board's permission to allow the Millbrook Rural Telephone Company, Limited, to furnish the said John Douglas with telephone service was heard.

For some time past and previous to 1929 the Millbrook Rural Telephone Company, Limited, with a Central Office at Millbrook, carried on a rural telephone business and served as telephone users some thirty-two persons in the Township of South Monaghan immediately adjoining the Township of Cavan.

Early in the year 1929, on a Petition presented to the Municipal Council of the Township of South Monaghan, the said township, acting under the authority conferred upon it by "The Telephone Act," organized and established a telephone system under the provisions of Part II of the said Act, known as "The South Monaghan Municipal Telephone System," and proceeded to set up a telephone system throughout the entire Municipality of South Monaghan. For this purpose the said municipality purchased the system theretofore giving service in the Township of South Monaghan and known as "The Russell Telephone System," with a Central Office at Bailieboro. With the desire to have but one system operating in the said Township of South Monaghan, the said Municipal System then offered to purchase from The Millbrook Rural Telephone Company, Limited, that portion of its line operating within the said Township of South Monaghan. Negotiations towards this end were carried on for some time but failed to reach a satisfactory conclusion, and the said Municipal System, or rather the Council of the Township of South Monaghan, passed a by-law under the provisions of "The Telephone Act," to expropriate all lines belonging to any other company and operating within the Municipality of South Monaghan.

Reference was made to the County Judge as the result of said expropriation to fix the price to be paid by the Municipality of South Monaghan to The Millbrook Rural Telephone Company, Limited, and that proceeding has not been as yet concluded nor has any judgment been delivered by His Honour the Judge of the County Court as to the amount to be paid by the Township of South Monaghan in respect of the said expropriation.

This Board has been ever anxious to assist to the utmost of its ability in the establishment of Municipal Telephone Systems throughout the Province, and has only interfered to allow another company to transact business within the territorial jurisdiction of the municipal system under very especial circumstances and where no injury was being done to the telephone system established by such municipality.

Along the dividing line between two townships there is always a certain amount of inconvenience, and, perhaps, some little expense in that persons on one side of the dividing line cannot communicate with their friends on the other side of the line without passing through one or more particular switchboards and possibly without the necessity of paying a small toll. While these inconveniences exist the Board does not feel that it can very well permit the encroachment upon the territorial jurisdiction of a municipality, which encroachment might have the effect of injuring and possibly putting an end to the better development of its telephone system.

Such appears to be the case as between the Municipality of South Monaghan and The Millbrook Rural Telephone Company, Limited, and while this Board is very desirous to give to each individual that particular service which he desires, either from a social standpoint or for business reasons, yet we do not feel that we would be justified in permitting any encroachment which

would injure the proper growth and administration by the said municipality of its Telephone System.

The application of John Douglas for permission to be served by The Millbrook Rural Telephone Company, Limited, must therefore be dismissed.

There will be no costs save and except the fee of Ten Dollars for the issuing of the Order herein, payable by the said John Douglas.

(Sgd.) C. R. McKEOWN,
Chairman.

Toronto, December 16th, 1930.

PROCEDURE FILE A-3155

BETWEEN:

S. D. and E. L. Sleeman,

Applicants,

—and—

A. C. Beatty, M.D. (trading as The Beatty Telephone System),

Respondent.

(Application under Section 95 of "The Telephone Act," for terms and conditions of telephone service.)

November 25th. Application and material filed.

December 8th. Hearing, 1 to 3 P.M., Court House, Peterborough. Agreement arranged between parties.

PROCEDURE FILE A-3156

Application by the Township of Scarborough, under Chapter 88, 13-14 Geo. V; (being a special Act of the said township) for approval of its By-law No. 1751, setting apart certain defined area of the said township to be known as Water Area No. 3.

November 25th. Application and material filed.

December 12th. Hearing, 10.30 to 11.30 A.M., at the Board's Chambers. Adjourned to December 22nd, 1930, at 10.30 A.M., pending certificate *re* water by health authorities. (See Reporter's Notes.)

December 22nd. Hearing continued, 10.30 A.M.; 10.40 to 11.20 A.M. Judgment reserved, pending consideration by incoming Council. (See Reporter's Notes.)

PROCEDURE FILE A-3173

In the matter of the application of the Corporation of the Village of Stouffville, under Section 16 of "The Municipal Act," for annexation thereto of part of the Township of Whitchurch (being part Lot 2, Concession IX), County of York, and part of the Township of Markham (being part Lot 34, Concession IX), County of York.

December 5th. Application, copy of Resolution and other material filed.

December 22nd. Hearing, 10.30 to 10.40 A.M. Application granted. Applicant's Solicitor to draft Order.

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APPLICATIONS TO THE BOARD FOR VALIDATION OF BY-LAWS UNDER SECTION 304 OF "THE MUNICIPAL ACT"

(NOTE:—Abbreviation "I.C." means Irregularities cured; Abbreviation "I" means Irregularities Not Cured).

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Alliston, Town of	457	Sewage Disposal Plant	24,000 00 (I.)	A-3062
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Brampton, Town of	912	Storm Sewer	10,338 27 (I.C.)	A-2635
Brampton, Town of	925 (Con.)	Local Improvements—Pavements	17,833 94 (I.C.)	A-2636
Brockville, Town of	1225	Collegiate Institute purposes	133,716 36 (I.C.)	A-2687
Barrie, Town of	B. 1665	Suburban Road Construction	55,000 00 (I.C.)	A-2691
Brockville, Town of	645 (Con.)	Local Improvements—Pavements and Sewers	9,782 50	A-2715
Bridgburg, Town of	2943	Provincial Suburban Roads	19,275 00 (I.C.)	A-2759
Belleville, City of	2972	Local Improvements—Pavements	40,600 00 (I.C.)	A-2852
Brighton, Village of	A-199	Local Improvements—Pavements	62,912 58 (I.C.)	A-2973
Bridgburg, Town of	679	Local Improvements—Pavements	19,730 87	A-3010
Brantford, City of	2177 (amended)	Waterworks Extensions	30,073 60 (I.)	A-3144
Brantford, City of	2246	Instalments of principal payable in 1930	540,000 00 (I.)	A-3164
Bradford, Village of	548 (amended)	Waterworks System	30,000 00	A-3165
Belleville, City of	2991	Completion of erection and equipment of Collegiate Institute and Vocational School	40,000 00	A-3172
Brantford, City of	2177 (amended)	Waterworks Extensions, etc.	27,000 00 (I.C.)	A-3180
Carleton Place, Town of	1018	Local Improvement—Pavement	540,000 00	A-3181
Connee, Township of	96	Floating Debt	36,695 00 (I.C.)	A-2656
Carleton Place, Town of	1029	Waterworks Extensions, etc.	7,000 00 (I.)	A-2979
Cornwall, Town of	36 (1930)	Local Improvements—Permanent Roads and Pavements	27,000 00	A-3000
Cornwall, Town of	21 (1929)	Local Improvements—Permanent Roads and Pavements	27,623 65 (I.C.)	A-3078
Dryden, Town of	230	Local Improvements—Sidewalks	37,265 40 (I.C.)	A-3098
Drayton, Village of	397 (Con.)	Local Improvements—Sewers, etc.	26,172 00 (I.C.)	A-2692
Dundas, Town of	1045	Local Improvements—Sewers	23,000 00 (I.C.)	A-2856
Dundas, Town of	1046	Local Improvements—Sewers	6,300 00 (I.)	A-2982
Dundas, Town of	1047	Discount on Debentures under By-law 1017, for High School purposes	5,500 00 (I.)	A-2983
East Gwillimbury, Township of	161	Continuation School purposes in S.S. No. 13	4,700 00	A-2984
East York, Township of	1853	Local Improvements—Sewers	25,000 00 (I.C.)	A-2726
Etobicoke, Township of	3528	Local Improvements—Sewers	39,699 58 (I.C.)	A-2780
			97,000 00	A-2829

APPLICATIONS TO THE BOARD FOR VALIDATION OF BY-LAWS UNDER SECTION 304 OF "THE MUNICIPAL ACT"
—CONTINUED

(NOTE:—Abbreviation "I.C." means Irregularities Cured; Abbreviation "I" means Irregularities Not Cured).

Municipality	By-law No.	Purpose	Amount	Procedure File
Etobicoke, Township of.....	3551	Local Improvements—Widening of Lake Shore Road.....	\$ 5,353 00	(I.C.) A-2873
Etobicoke, Township of.....	3552	Local Improvements—Watermains and Sewers.....	221,625 00	(I.C.) A-2880
East Windsor, City of.....	987	Local Improvement—Pavement.....	33,596 88	(I.C.) A-3157
Etobicoke, Township of.....	3659	Public School purposes.....	10,000 00	(I.C.) A-3206
Etobicoke, Township of.....	3665	Local Improvements—Sanitary Sewer.....	4,390 00	(I.C.) A-3207
Fort Frances, Town of.....	942	Purchase of Park Lands.....	5,000 00	(I.C.) A-2775
Fort Frances, Town of.....	981	Permanent Improvements in Pither's Point Park.....	4,000 00	(I.C.) A-2776
Fort William, City of.....	3056	Local Improvement—Sewer.....	2,597 25	(I.C.) A-2947
Fort William, City of.....	3127 (Con.)	Local Improvements—Pavements.....	10,271 00	(I.C.) A-2948
Fort William, City of.....	3128 (Con.)	Local Improvements—Pavements.....	132,280 50	(I.C.) A-2949
Fort William, City of.....	3126 (Con.)	Local Improvements—Centent Walks.....	22,118 41	(I.C.) A-2950
Galt, City of.....	2787	Collegiate Institute purposes, etc.....	23,000 00	(I.C.) A-2650
Gananoque, Town of.....	859 (amended)	Permanent Pavement on Stone Street.....	20,000 00	(I.C.) A-2719
Gananoque, Town of.....	861 (amended)	Fire Fighting Equipment.....	22,000 00	(I.C.) A-2850
Grantham, Township of.....	507	Waterworks Supply System.....	12,382 50	(I.C.) A-3055
Grantham, Township of.....	538	Extension of Waterworks Supply System.....	23,370 63	(I.C.) A-3064
Gravenhurst, Town of.....	P. 144	Waterworks purposes.....	5,000 00	(I.C.) A-3082
Galt, City of.....	2786 (amended)	Waterworks Extensions.....	13,516 00	(I.C.) A-3159a
Gananoque, Town of.....	886	Local Improvements—Pavements.....	67,288 75	(I.C.) A-3177
Hamilton, City of.....	3714	Technical Institute purposes.....	75,000 00	(I.C.) A-2675
Hamilton, City of.....	3786	High and Vocational School purposes.....	250,000 00	(I.C.) A-2676
Hanover, Town of.....	470	Local Improvements—Pavements.....	78,329 55	(I.C.) A-2690
Head, Maria and Clara, United Townships of.....	205	Public School purposes.....	3,200 00	(I.C.) A-2828
Hamilton, City of.....	3937	Collegiate Institute, etc., purposes.....	1,150,000 00	(I.C.) A-2931
Hamilton, City of.....	3939	Technical Institute purposes.....	55,500 00	(I.C.) A-2932
Haileybury, Town of.....	714 (amended)	High and Technical School purposes.....	55,000 00	(I.C.) A-3066a
Huntsville, Town of.....	508	Erection of Building for holding Fall Fairs, etc.....	11,300 00	(I.C.) A-3182
Innisfil, Township of.....	653	Public School purposes, S.S. No. 5.....	5,000 00	(I.C.) A-3138
Kingsville, Town of.....	703	Public School purposes.....	25,000 00	(I.C.) A-2599
Kincardine, Town of.....	1020	Local Improvements—Pavements.....	79,000 00	(I.C.) A-3040
Lanark, County of.....	990	County's share of Provincial Highway Construction in 1928.....	14,000 00	(I.C.) A-2663
London, Township of.....	999	Local Improvement—Watermain.....	4,810 00	(I.C.) A-2711
London, City of.....	6043 (amended)	Purposes of Public Utilities Commission.....	100,000 00	(I.C.) A-2968
London, City of.....	5035	Sanitary Trunk Sewer.....	50,000 00	(I.C.) A-2969
London, City of.....	8016	Erection of Bridge over Thames River at Ridout Street.....	75,000 00	(I.C.) A-2970

Lennox and Addington, County of	546	Balance of Highway Construction for 1929	40,000 00	(1.C.)	A-3022
London, Township of	1008	Water Main	7,485 27	(1.C.)	A-3086
London, Township of	1007	Water Main	1,461 31	(1.C.)	A-3085
London, Township of	1018	Public School purposes	15,000 00	(1.C.)	A-3087
London, Township of	1009	Local Improvements—Water Mains	6,062 33	(1.C.)	A-3158
Moore, Township of	3 (1930)	Public School purposes	16,000 00	(1.C.)	A-2741
Midland, Town of	2166	Local Improvements—Sewers	1,936 18	(1.C.)	A-3187
Midland, Town of	2177	Local Improvements—Pavements	271,820 00	(1.C.)	A-3188
Midland, Town of	1214	Local Improvements—Sewers	13,000 00	(1.C.)	A-3200
Midland, Town of	1216	Permanent Walks	15,000 00	(1.C.)	A-3201
North York, Township of	941	Local Improvements—Watermains and Bridge	57,456 35	(1.C.)	A-2661
North York, Township of	939 (Con.)	Local Improvements—Pavements	17,725 00	(1.C.)	A-2724
North York, Township of	940 (Con.)	Local Improvements—Sewers and Pavements	17,725 00	(1.C.)	A-2822
North York, Township of	980	Local Improvements—Pavements	14,990 00	(1.C.)	A-2823
North York, Township of	988 (Con.)	Local Improvements—Watermains	39,010 00	(1.C.)	A-2838
North York, Township of	977	Local Improvements—Bridge	12,270 00	(1.C.)	A-2839
North York, Township of	981	Local Improvement—Opening of Grey Road	11,600 00	(1.C.)	A-2840
Napanee, Town of	1092 (amended)	Waterworks System	70,000 00	(1.C.)	A-2934
Niagara Falls, City of	1839	Waterworks Extensions, etc.	50,200 00	(1.C.)	A-3095
North York, Township of	1084	Extensions in Electrical Area No. 1	100,000 00	(1.C.)	A-3105
North Bay, City of	861 (amended)	Bridge and Street Construction	36,000 00	(1.C.)	A-3136
North York, Township of	627	Provincial Highway Construction in 1930	40,000 00	(1.C.)	A-3148
North Bay, City of	975	Local Improvements—Sanitary Sewers	69,712 51	(1.C.)	A-2772
Owen Sound, City of	531	Local Improvements—Pavements	140,353 58	(1.C.)	A-2778
Oshawa, City of	1977	Road-making Machinery	9,173 00	(1.C.)	A-2793
Oshawa, City of	2001	Collegiate Institute and Technical School purposes	325,000 00	(1.C.)	A-2813
Oshawa, City of	2019	Local Improvements—Pavements, Sewers, etc.	286,322 28	(1.C.)	A-3080
Oakville, Town of	822 (Con.)	Local Improvements—Sidewalks	10,701 05	(1.C.)	A-3090
Orford, Township of	878	Public School purposes	20,000 00	(1.C.)	A-3120
Ottawa, City of	6925	Local Improvements—Sewers	22,610 56	(1.C.)	A-3128
Ottawa, City of	6921	Storm Sewers and Drainage of Lansdowne Park	400,000 00	(1.C.)	A-3145
Orangeville, Town of	1609	Local Improvements—Sewers	129,873 16	(1.C.)	A-3154
Orangeville, Town of	1612	Local Improvements—Pavements	335,421 31	(1.C.)	A-2605
Port Colborne, Town of	47 (1929)	Public School purposes	55,000 00	(1.C.)	A-2731
Peel, County of	733	County's share of cost of Construction of Provincial Highways in 1928-9	94,000 00	(1.C.)	A-2831
Port Carding, Village of	354 (amended)	Highway Construction	17,500 00	(1.C.)	A-2975
Pembroke, Town of	1348	Local Improvements—Pavements and Storm Drains	19,741 76	(1.C.)	A-3023
Preston, Town of	1055	Local Improvements—Pavements, etc.	68,776 45	(1.C.)	A-3147
Port Arthur, City of	1967	Guarantee of Hospital Debentures	190,000 00	(1.C.)	A-3202
Prescott, Town of	854 (amended)	High School purposes	94,000 00	(1.C.)	A-2699
Rainy River, Town of	307	Electric Power and Waterworks Extensions	25,000 00	(1.C.)	A-2750
Renfrew, County of	1130	County's share of cost of Provincial Highways in 1929	30,000 00	(1.C.)	A-2991
Rockcliffe Park, Village of	71	Public School purposes	17,500 00	(1.C.)	A-2992
Rockcliffe Park, Village of	72	Public School purposes	6,000 00	(1.C.)	

APPLICATIONS TO THE BOARD FOR VALIDATION OF BY-LAWS UNDER SECTION 304 OF "THE MUNICIPAL ACT"
—CONTINUED

Municipality	By-law No.	(NOTE:—Abbreviation "I.C." means Irregularities Cured; Abbreviation "I." means Irregularities Not Cured)	Purpose	Amount	Procedure File
Rockcliffe Park, Village of	78 (Con.)		Local Improvements—Drains, etc.	41,740 20 (I.C.)	A-3009
Sudbury, Town of	1173(amended)		School purposes	90,000 00	A-2641
Sandwich, Town of	2002 (Con.)		Local Improvements—Pavements, etc.	259,439 00 (I.C.)	A-2646
Sandwich, Town of	1998 (Con.)		Local Improvements—Sewers and Watermains	29,938 24 (I.C.)	A-2647
Stephen, Township of	432 (1930)		Public School purposes, S.S. No. 1	4,000 00	A-2682
Sandwich East, Township of	1276		Local Improvements—Sidewalk and Drain	1,633 75 (I.C.)	A-2736
Sandwich East, Township of	1275		Local Improvements—Pavement, etc.	4,242 42 (I.C.)	A-2737
Stamford, Township of	344 (1930)		Local Improvements—Watermains and Sidewalks	35,770 24 (I.C.)	A-2811
Stauford, Township of	345 (1930)		Local Improvements—Sewers	13,390 19 (I.C.)	A-2812
Southampton, Town of	802		Local Improvements—Pavements	11,000 00	A-2830
Scarborough, Township of	1707		Local Improvements—Watermains	19,428 70	A-2911
Scarborough, Township of	1721		Local Improvements—Sewers	36,935 68	A-2912
Scarborough, Township of	1735		Local Improvements—Pavements	149,034 65	A-2976
Scarborough, Township of	1732		Electrical Extensions, etc., Electrical Development, Area No. 1		
Sandwich East, Township of	1302		Local Improvement—Pavement	100,000 00 (I.C.)	A-3002
Sandwich East, Township of	1217(amended)		Repairs, etc., to Casgrain Drain	30,682 43 (I.C.)	A-3025
Swansea, Village of	334		Local Improvements—Pavements	125,605 00 (I.C.)	A-3059
Sandwich, Town of	2040		Local Improvements—Pavements, etc.	222,374 13 (I.C.)	A-3063
South Plantagenet, Township of	150		Construction of McInnis Bridge	35,280 42 (I.C.)	A-3135
Sudbury, City of	1272		Mining and Technical School purposes	18,000 00 (I.C.)	A-3160
Stratford, City of	3365		Remodelling of Sewage Disposal Plant	66,000 00 (I.C.)	A-3192
Toronto, Township of	1088		Electrical Extensions, Area No. 1	25,000 00 (I.C.)	A-2701
Toronto, City of	12576		Widening of Pavement, St. Clair Avenue	42,408 40 (I.C.)	A-2756
Toronto, City of	12570		Widening of Bay Street	438,907 40 (I.)	A-2790
Toronto, City of	12849		Extension of Fire System	431,000 00 (I.C.)	A-3121
Toronto, City of	12852		Relief Sewers	191,000 00	A-3126
Toronto, City of	12853		Reconstruction of Duiffin Street Sewer	64,000 00	A-3127
Thorold, Township of	19 (1930)		Waterworks Construction, Area No. 1	27,854 00	A-3042
Windsor, City of	3912		Local Improvements—Ornamental Street Lighting	19,906 75	A-2610
Whitby, Township of	1194		Construction of Roads, Bridges and Culverts	30,000 00	A-2638
Woolwich, Township of	797		Bridge Construction	25,000 00	A-2722
Windsor, City of	3981		Local Improvement—Street Opening, etc.	119,123 04	A-2862
Windsor, City of	4001		Local Improvement—Extension of Tuscarora Street	87,686 49 (I.)	A-3007
Warton, Town of	285(amended)		Local Improvements—Roadways	17,643 08 (I.C.)	A-3033
Wheatley, Village of	178		Local Improvements—Pavements	214,493 66 (I.C.)	A-3088
York, Township of	10379 (Con.)		Local Improvements—Street Widening and Watermains	90,172 99	A-2611

LIST OF APPLICATIONS APPROVED BY THE BOARD UNDER SUBSECTION (2) OF SECTION 399 OF "THE MUNICIPAL ACT"

Municipality	By-law No.	Purpose	Amount	Procedure File
Brantford, City of.....	2220	Improvements to Hydro-Electric System.....	\$41,250 00	A-2714
Belleville, City of.....	2946	Additional cost of Extensions and Improvements to Gas Works.....	25,000 00	A-2835
Burlington, Town of.....	686	Waterworks Extensions.....	20,000 00	A-3193
Chatham, City of.....	2359	Extensions to Hydro-Electric Power Distribution System	100,000 00	A-3178
Gravenhurst, Town of	P-144	Waterworks purposes.....	5,000 00	A-2872
Hamilton, City of.....	3993	Waterworks Extensions.....	143,347 00	A-2768
Hamilton, City of.....	4022	Hydro-Electric Extensions.....	1,000,000 00	A-2846
Hespeler, Town of.....	560	Waterworks Extensions.....	8,000 00	A-3015
Hespeler, Town of.....	561	Hydro-Electric Extensions.....	25,000 00	A-3031
Niagara, Town of.....	942	Purposes of Niagara Hydro-Electric Commission.....	14,000 00	A-2634
Niagara Falls, City of.....	1839	Waterworks Extensions.....	50,200 00	A-2843
North York, Township of	1084	Hydro-Electric Extensions.....	100,000 00	A-3051
Niagara Falls, City of.....	1877	Hydro-Electric Extensions.....	75,000 00	A-3052
Oshawa, City of.....	2022	Extension of Gas Mains.....	2,000 00	A-2994
Pembroke, Town of.....	1340	Waterworks Extensions.....	9,479 37	A-2747
Preston, Town of.....	1044	Hydro-Electric Improvements, etc.....	20,000 00	A-2796
Port Stanley, Village of.....	732	Waterworks Extensions.....	8,500 00	A-2876
Penetanguishene, Town of	741	Waterworks Extensions.....	6,000 00	A-2966
Port Colborne, Town of.....	83 (1930)	Extensions to Hydro-Electric System.....	25,000 00	A-3024
Port Colborne, Town of.....	89 (1930)	Extensions to Hydro-Electric System.....	25,000 00	A-3024a
Rainy River, Town of.....	307	Waterworks Improvements and Electric Power System..	25,000 00	A-2660
Scarborough, Township of.....	1731	Hydro-Electric Extensions.....	100,000 00	A-2959
Strathroy, Town of.....	1208	Waterworks Extensions, etc.....	7,000 00	A-2963
St. Catharines, City of.....	3924	Hydro-Electric purposes.....	35,000 00	A-2996
Strathroy, Town of.....	1209	Watermains.....	5,000 00	A-3029
Swansea, Village of.....	358	Completion of Sewage Disposal Plant.....	20,000 00	A-3069
Stratford, City of.....	3356	Extension to Gas Works, etc.....	4,400 00	A-3109
Toronto, City of.....	12464	Waterworks Extensions, etc.....	46,000 00	A-2622
Toronto, Township of.....	1088	Electric Extensions in Area No. I.....	25,000 00	A-2669
Toronto, City of.....	12746	Hydro-Electric Extensions.....	1,433,000 00	A-2961
Toronto, City of.....	12737	Waterworks Extensions.....	228,000 00	A-2962
Toronto, City of.....	12844	Waterworks Extensions.....	233,000 00	A-3134
Whitby, Town of.....	1347	Hydro-Electric Municipal Substation.....	20,000 00	A-2749

MISCELLANEOUS MATTERS

ANNEXATIONS

	Procedure File
Weston, Town of Annexation to of part Township North York (part Lot 8, Con. V, west of Yonge Street)—(Petition William B. Halladay)	A-2685
Toronto, City of Annexation to of westerly portion of Bayview Avenue, between Moore Avenue and Eglinton Avenue, Township of East York	A-2730
Leaside, Town of Annexation to of easterly portion of Bayview Avenue, between Moore Avenue and Eglinton Avenue, Township of East York	A-2730
Belleville, City of Annexation to of part Township Sidney, part Lot 38, Con. I	A-2885
Hamilton, City of Annexation to of part Township Barton, Lots 1 and 2, Con. III (Petition V. Duffin)	A-2893
Hamilton, City of Annexation to of part Township Barton, Lots 1 and 2, Con. II and III (Petition Ed. J. Cooper, et al)	A-2941
McIrvine, Township of Annexation to of part Indian Reserve No. (I), District Rainy River (Petition M. A. Malone, et al)	A-2985
Stouffville, Village of Annexation to of part Lot 2, Con. IX, Township Whitchurch, County of York	A-3173

ARBITRATIONS

Department of Public Works and Highways, vs. Colonel F. O. Burgess—Compensation re lands taken (0.7 acres, Lot 3, Con. 11, Township Zorra, County of Oxford)	A-2853
Department of Public Works and Highways vs. Marie Rosenfeld—Compensation for lands taken (Lot 393, registered plan 1032, northwest side of Lake Shore Road, Town of New Toronto), removal of building	A-3045
Niagara Parks Commission vs. Thos. Burke—Compensation re expropriation of part Lot 10, Township of Willoughby, County of Welland	A-3096
Ottawa Electric Company, Limited, vs. Ottawa Suburban Roads Commission—Compensation for removal of poles and lines on south side of Richmond Road, between Island Park Driveway and Village of Westboro'	A-3142
Department of Public Works and Highways vs. Sweeney Estate—Compensation re part Lot 13, Con. I, west of Yonge Street, Township North York, County of York	A-3170

ASSESSMENT APPEALS

	Amount	Procedure File
Green, Caleb, vs. City of Ottawa (property)	\$53,075 00	A-2608
Bridgeburg, Town of, vs. International Bridge Co., and Canadian National Railways (International Bridge)	600,000 00	A-2997

BILLS (FINANCIAL)

(Under Rule 72 of the House)

Thorold, Town of Bill No. 16 of 1930	A-2662
Deseronto, Town of Bill No. 36 of 1930	A-2672
Perth, Town of Bill No. 28 of 1930	A-2707
Almonte, Town of Bill No. 40 of 1930	A-2708

BRIDGES—RELIEF FROM REBUILDING

(Section 469 (9) of "The Municipal Act" . . . Chapter 233, R.S.O. 1927)

Toronto, City of—Huntley Street Bridge, on Huntley Street, north of Bloor Street	A-2900
Plympton, Township of—Bridge over Bear Creek, at Lots 27 and 28	A-3203

DETACHMENT OF FARM LANDS FROM TOWN OR VILLAGE

(Section 21 of "The Municipal Act," Chapter 233, R.S.O. 1927)

	Procedure File
Port Perry, Village of—Detachment from of farm lands of Thomas Stewart, et al, and annexation of same to Township of Reach.....	A-2659

EXTENSION DEBENTURE ISSUE PERIOD

(Section 296 (11) and (12) of "The Municipal Act," Chapter 233, R.S.O. 1927)

Municipality	By-law No.	Purpose	Amount	Procedure File
Windsor, City of.....	3912	Local Improvement, Ornamental street lighting.....	\$19,906 75	A-2609
Windsor, City of.....	3844	Purchase of land for park purposes.	685,442 00	A-2616
Beverley, Township of..	774 (as amended)	Drainage purposes.....	7,954 83	A-2633
Owen Sound, City of...	416	Extension to Hospital.....	50,000 00	A-2658
East York, Township of	1266	Sewer construction.....	4,620 00	A-2767
Oshawa, City of.....	1810	Pavilion in "Lakeview Park".....	17,000 00	A-2781
Sandwich, Town of....	1981	Local improvement, ornamental street lighting.....	11,635 02	A-2799
London, City of.....	5181 (amended)	Purposes of London Railway Commission.....	101,000 00	A-2804a
London, City of.....	6891 (amended)	Collegiate Institute.....	17,000 00	A-2804b
London, City of.....	6890 (amended)	School site.....	14,400 00	A-2804c
London, City of.....	6291 (amended)	War Memorial Hospital.....	50,000 00	A-2804d
London, City of.....	6168 (amended)	Waterworks extensions.....	85,000 00	A-2804e
London, City of.....	6043 (amended)	Purposes of Public Utilities Commission.....	100,000 00	A-2804f
London, City of.....	8367	Collegiate Institute.....	35,000 00	A-2805a
London, City of.....	8366	Equipment for Collegiate Institute.	25,000 00	A-2805b
London, City of.....	8363	School improvements.....	12,000 00	A-2805c
London, City of.....	8361	Purposes of London Railway Commission.....	350,000 00	A-2805d
London, City of.....	8320	Provincial Highway construction..	201,803 18	A-2805e
London, City of.....	8126	Waterworks extensions.....	12,000 00	A-2805f
London, City of.....	8105	Waterworks extensions.....	48,000 00	A-2805g
London, City of.....	8016	Bridge over Thames River at Ridout Street.....	75,000 00	A-2805h
London, City of.....	8015	Addition to Home for Incurables..	75,000 00	A-2805i
London, City of.....	5436	Purposes of London Health Association.....	25,000 00	A-2805j
London, City of.....	5157	School.....	29,000 00	A-2805k
London, City of.....	5035	Sanitary trunk sewer.....	50,000 00	A-2805l
Belleville, City of.....	2818	Extension, etc., to gas works.....	185,000 00	A-2836
Napanee, Town of....	1092 (amended)	Waterworks System.....	70,000 00	A-2840b
Belleville, City of.....	2818	Extension to gas works.....	185,000 00	A-2836a
Westminster, Twp. of..	882	Drainage work.....	17,324 00	A-2998
York, County of.....	1533	Construction East York—Leaside Viaduct.....	100,000 00	A-3001
Grantham, Twp. of....	507	Water Supply System.....	12,382 50	A-3056
Oakville, Town of....	788	Local Improvement, pavement....	22,500 00	A-3079
Oakville, Town of....	787	Local Improvement, sidewalks.....	6,500 00	A-3080a
North Bay, City of....	861 (amended)	Bridge and Street construction....	36,000 00	A-3105a
Tarentorus, Twp. of....	283 (amended)	Electric Power Distribution System	16,000 00	A-3184
Midland, Town of.....	1214	Local Improvement, sewers.....	13,000 00	A-3200a

EXTENSION OF TIME TO PASS BY-LAWS

(Section 288 (5) of "The Municipal Act"—Chapter 233, R.S.O. 1927)

Municipality	By-law No.	Purpose	Amount	Procedure File
Hastings, Village of	702	Purchase of power and electric distribution plant	\$26,000 00	A-2667
Fort Frances, Town of	942	Purchase of lands for park purposes	5,000 00	A-2746
Gananoque, Town of	859	Permanent pavements	20,000 00	A-2783
Gananoque, Town of	861	Fire fighting equipment	22,000 00	A-2784
Hamilton, City of	3929	Storm sewer	412,000 00	A-2896
Hamilton, City of	3930	Police Station	160,000 00	A-2897
Hamilton, City of	3931	Fire Station	75,000 00	A-2898
Vaughan, Township of	1262	Authorizing agreement re acquisition of portion of Metropolitan Division of Toronto & York Radial Railway		A-2927
Wheatley, Township of	184	Waterworks System	44,140 00	A-3053
Port Hope, Town of	1393	Bridge over Generaska River	7,000 00	A-3118
Midland, Town of	1216	Permanent walks	15,000 00	A-3132
Huntsville, Town of	508	Erection of building for fall fairs, etc.	11,300 00	A-3149
Bradford, Village of	548	Waterworks System	40,000 00	A-3152

HIGHWAYS—NARROW

(Section 490 (2) of "The Municipal Act"—Chapter 233, R.S.O. 1927)

Municipality	By-law No.	Highway	Procedure File
York, Township of	10480	Extension of Amherst Street at width of 50 feet	A-2664
Medora & Wood, Twps. of	—	Opening of Hammill's Point Road at width of 36 feet	A-2706
York, Township of	10496	Widening of Birch Avenue at width of approximately 50 feet	A-2713
Oshawa, City of	2009	Extension of Celina Street at width of 49' 6"	A-2777a
Oshawa, City of	2010	Extension of William Street at width of 53' 9"	A-2777b
Oshawa, City of	2011	Extension of Huron Street at width of 50'	A-2777c
Oshawa, City of	2012	Extension of John Street—width varying 50' to 60'	A-2777d
Oshawa, City of	2013	Extension of Olive Avenue at width varying from 49' 6" to 55'	A-2777e
Forest Hill, Village of	443	Opening of Glenayr Road northerly to Dewbourne Avenue at width of 60'	A-2844
Peterborough, City of	—	Extension of Queen Street from Simcoe Street to C.P.R. freight sheds at width of 48' 4"	A-2895
Toronto, City of	—	Widening of St. Nicholas Street from Irwin Avenue to 126' northerly at width of 40'	A-2904
Hamilton, City of	4066	Establishment, etc., of University Avenue, from Hamilton-London Highway to King Street, at width of 41'	A-3003

HIGHWAYS—SUBURBAN

(Establishing, Closing, Etc.)

(Section 12 of "The Planning and Development Act")

(Chapter 236, R.S.O. 1927)

Forest Hill, Village of	443	Opening of Glenayr Road northerly to Dewbourne Avenue at width of 60 feet	A-2844
McKellar Townsite Co., Ltd.		Amendment to plan M-29 ("Land Titles Act"), Ottawa—Closing portion of River-view Ave., Township of Nepean	A-2926
Malden, Township of		Diversion of River Front Road from south limit of Town of Amherstburg to Beaudoin Sideroad	A-2349a

INTEREST INCREASE BY-LAWS

(Approval of, under Section 300 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	Deben- ture By-law No.	Purpose	Interest Increase By-law	Rate	Amount	Procedure File
St. Catharines, City of	3807	Street paving	3938	4½% to 5%	\$30,000 00	A-2643
St. Catharines, City of	3832	Carlton Street sewer	3939	do	10,000 00	A-2644
St. Catharines, City of	3842	Public School purposes	3940	do	110,000 00	A-2645
Haileybury, Town of	714	High and Technical School purposes	752	5% to 6%	55,000 00	A-3066
Tarentorus, Twp. of	283	Electric Power Distri- bution System	303	5% to 5½%	16,000 00	A-3185

INTEREST DECREASE BY-LAWS

(Approval of under Section 300 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	Debenture By-law No.	Purpose	Interest Decrease By-law	Rate	Amount	Procedure File
London, City of	5181	London Railway Com- mission	D-32-100	5½% to 5%	\$101,000 00	A-2803a
London, City of	6891	Collegiate Institute	D-33-101	do	17,000 00	A-2803b
London, City of	6890	School Site	D-34-102	do	14,400 00	A-2803c
London, City of	6291	War Memorial Hospital	D-35-103	6% to 5%	50,000 00	A-2803d
London, City of	6168	Waterworks Exten- sions	D-36-104	do	85,000 00	A-2803e
London, City of	6043	Public Utilities Com- mission	D-37-105	do	100,000 00	A-2803f
Napanee, Town of	1092	Waterworks System	1322	6% to 5%	70,000 00	A-2840a
Brantford, City of	2196	C.N.R. Subway at West Street	2245	5% to 4½%	75,000 00	A-3107
Brantford, City of	2177	Waterworks Exten- sions, etc.	2247	do.	540,000 00	A-3108
Toronto, City of	12746	Extensions to Electric Distribution System	12845	5% to 4½%	1,433,000 00	A-3122
Bradford, Village of	548	Waterworks System	556	5½% to 5%	40,000 00	A-3146
Bradford, Village of	548	Waterworks System	559	do	40,000 00	A-3146a

LEGISLATION (SPECIAL)

Township of York (Fire Areas)	Amalgamation of Lambton Fire Area No. 2 and Humbercrest Fire Area No. 8 (By-law 10509)—(P. 595)	A-2782
Ottawa, City of	Distribution of cost of widening, etc., of Beechwood Avenue (that part forming boundary line between City and Town of Eastview)	A-2800
Port Colborne, Village of, and Village of Humberstone	Settlement of certain differences under Agree- ment between Parties	A-2890
Essex Border Utilities Commission	Approval By-law No. 74—Addition of laundry to Metropolitan General Hospital	A-3047

LICENSE FEE

(Section 411 (9) of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

St. Catharines, City of—Approval By-law 3970—Bicycle licenses	A-3099
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LOCAL IMPROVEMENTS—OBJECTIONS AGAINST
(Section 6 of "The Local Improvement Act")

(Chapter 235, R.S.O. 1927)

Toronto, City of.....	Petition of E. N. Saunders, and others, against extension of Jarvis Street.....	A-2945
Toronto, City of.....	Petition of Annabel Sommerville, and others, against extension of Jarvis Street.....	A-2974

LOCAL IMPROVEMENTS—PETITIONS AGAINST

(Section 8 of "The Local Improvement Act")

(Chapter 235, R.S.O. 1927)

Municipality	Petitioners	Work	Procedure File
Forest Hill, Village of...	R. E. Laidlaw, et al.	Extension of Glenayr Avenue to connect with Dewbourne Ave.	A-2628
Forest Hill, Village of...	W. F. Clarkson, et al.	Extension of Glenayr Avenue to connect with Dewbourne Ave.	A-2629
Toronto, City of.....	Thos. H. Kilner.....	Construction of pavement on Keene Street between Milverton Blvd. and north City limit....	A-2630
Port Stanley, Village of...	F. B. McLaughlin, et al.	Extension of Edith Cavell Blvd.	A-2654
Smiths Falls, Town of....	W. G. Willoughby, et al.	Sewer on Queen Street between Thurber Street and Lorne Street	A-2703
Gravenhurst, Town of....	Wm. A. Bryan ⁺ on, et al.	Type of pavement on Bay, Austin, West Bay and Brock Streets..	A-2720
Amherstburg, Town of...	A. Maricle, et al.....	Pavement from Gore Street to south limit of Government Dock —thence to south limit of Town.	A-2742
Guelph, City of.....	Wm. Boles, et al.....	Pavement on King Street from Eramosa Road to Arthur Street	A-2744
Guelph, City of.....	M. Boles, et al.....	Pavement on King Street, from Arthur Street to Eramosa Road	A-2745
Guelph, City of.....	W. P. Cook, et al.....	Pavement on Mills and Strange Streets, from London Road to Clarence Street.....	A-2748
Windsor, City of.....	Acek Davis, et al.....	Widening of London Street, from Victoria Avenue to Alley west of Bruce Avenue.....	A-2760
Ottawa, City of.....	D. C. McLaren (M.D.) et al	Pavement on Laurier Avenue, west from Elgin Street to Kent Street	A-2801
Ottawa, City of.....	Annie E. Douglas, et al	Widening of Laurier Avenue, west from Bank Street to Kent Street	A-2806a
Ottawa, City of.....	J. F. Donoghue, et al.	Paving of Laurier Avenue, west from Bank Street to Kent Street	A-2806b
Ottawa, City of.....	D. M. McDougall, et al.	Pavement on east side of Bronson Avenue from Gladstone Avenue southerly to C.N.R. tracks...	A-2807
Ottawa, City of.....	Mrs. I. Graham, et al.	Pavement on Somerset Street West, from Bay Street to Bronson Avenue.....	A-2808
Ottawa, City of.....	N. D. Porter, et al....	Pavement on Dalhousie Street from George Street to St. Patrick Street.....	A-2824
Toronto, City of.....	S. K. Hisey, et al.....	Sidewalk on south side of Glenwood Avenue from Fairview Avenue to Kennedy Avenue..	A-2841
Kitchener, City of.....	Amelia Asmussen, et al.	Pavement on Albert Street, south from Courtland Avenue to Mill Street.....	A-2847
Hamilton, City of.....	Wm. Hay, et al.....	Sidewalk and curb on Cumberland Avenue, between Graham and Wexford Avenues.....	A-2848a
Hamilton, City of.....	Wm. Hay, et al.....	Roadway on Cumberland Avenue between Graham and Wexford Avenues.....	A-2848b

LOCAL IMPROVEMENTS—PETITIONS AGAINST—CONTINUED

Municipality	Petitioners	Work	Procedure File
Ottawa, City of.....	Leo Maheux, et al.....	Sidewalk south side of Putman Avenue from Springfield Road to Chapleau Avenue.....	A-2864
Ottawa, City of.....	J. H. Putman.....	Sidewalk on north side Putman Avenue from Champlain Ave. to Beechwood Avenue.....	A-2865
Toronto, City of.....	Robt. Kennedy, et al....	Concrete walk on Glendonwynne Road, west side, from north limit Lot 240, Plan M. 135 to Glenlake Avenue.....	A-2878
Toronto, City of.....	E. D. Gooderham, et al.	Pavement, etc., on Teddington Park Avenue, easterly limit of Riverview Drive to easterly limit of Teddington Park Avenue	A-2881
Toronto, City of.....	St. Clair Investments, Ltd., et al.....	Extension of Church Street.....	A-2884
North York, Township of	P. Mulholland, et al....	Watermain on Dufferin Street from north limit of Plan 1928 to 20th Avenue West.....	A-2891
Ottawa, City of.....	Erskine, Smith & Co., Ltd., et al.....	Distribution of cost of pavement on George Street between Cumberland Street and King Edward Avenue.....	A-2913
Ottawa, City of.....	Barrett Bros., et al....	Distribution of cost of pavement on Bank Street from Gladstone Avenue to point 32' north of Arlington Avenue.....	A-2918
Guelph, City of.....	Lucy Johnston, et al....	Pavement on Strange Street from Clarence Street to Clark Street	A-2924
Ottawa, City of.....	E. McMahan, et al....	Sidewalk east side of Sweetland Avenue between Somerset and Templeton Streets.....	A-2937
Hamilton, City of.....	Thos. Lees, et al.....	Pipe sewer on Main Street between Hess and Queen Streets.....	A-2940
Belleville, City of.....	Barton Asselstine, et al.	Pavement on North Front Street from Moira Street to C.N.R. Bridge.....	A-2953
Toronto, City of.....	A. M. Thompson Estate, et al.....	"Jarvis Street Extension".....	A-2978
Ottawa, City of.....	T. J. Drummond, et al.	Sidewalk on 5th Avenue, south side (Lots 13, 14, 15 and 16), proposed division of cost.....	A-2988
Hamilton, City of.....	C. A. Birge Estate, et al.	Asphalt Roadway, Mountain Blvd between James and John Streets	A-3050
Toronto, City of.....	H. C. Tinline, et al....	Asphalt pavement on Indian Road from Indian Road Crescent to Chelsea Avenue.....	A-3057
Toronto, City of.....	H. C. Tinline, et al....	Curbing north and west sides of Indian Road between Lot 9, Plan M, to Chelsea Avenue..	A-3057a
Hamilton, City of.....	Westdale Properties, Ltd.....	Asphalt roadway, University Entrance Street between Hamilton & London Highway and King Street.....	A-3058
Woodbridge, Village of...	E. L. Laur, et al.....	Water Main on portion of Clarence Street.....	A-3113
Sandwich, Town of.....	P. M. Mullen, et al....	Water Main on Euclid Avenue and McKee Road.....	A-3163

LOCAL IMPROVEMENTS—PART ONLY OF WORK

(Section 18 of "The Local Improvement Act")
(Chapter 235, R.S.O. 1927)

Municipality	Amending By-law	Original By-law	Procedure File
Windsor, City of.....	39542	3893	A-2617
Toronto, City of.....	12484	11985	A-2693
Toronto, City of.....	12485	11798	A-2694
Toronto, City of.....	12486	11921	A-2695
Toronto, City of.....	12497	12318	A-2721
East York, Township of.....	1849	1660	A-2771
Toronto, City of.....	12652	12494	A-2877
Scarborough, Township of.....	1708	1664, 1665, 1662, 1689 and 1696	A-2882 A-2882
York, Township of.....	10586	9825	A-2938
Fort William, City of.....	3158	3043	A-2980
Fort William, City of.....	3159	3018	A-2981
Swansea, Village of.....	335	153	A-3035
Toronto, City of.....	12788	12323	A-3094
Rockcliffe Park, Village of.....	93	92	A-3106
Toronto, City of.....	12863	12318	A-3162
Tweed, Village of.....	352	326	A-3168
York, Township of.....	10699	10684	A-3190

LOCAL IMPROVEMENT—DEVIATION IN COURSE OR
LOCATION OF HIGHWAY(Section 19 of "The Local Improvement Act")
(Chapter 235, R.S.O. 1927)

Toronto, City of.....	Amendment to By-law 12478—Diversion, etc., of lane between Brock and Margeuretta Streets, north of Bloor Street.....	A-2886
Toronto, City of.....	Amendment to By-law 12658—Widening of College Street, from Bay Street to a point 199 feet 10 inches east of St. George Street.....	A-2903

LOCAL IMPROVEMENTS—APPORTIONMENT OF COST

(Section 26, subsection (3), of "The Local Improvement Act")
(Chapter 235, R.S.O. 1927)

Municipality	By-law No.	Purpose	Procedure File
Sandwich, Town of.....	1989	Paving of Sandwich Street, from Rose- dale Avenue to Detroit Street.....	A-2483a
Hanover, Town of.....	444	Pavement on Durham Street.....	A-2679
Hanover, Town of.....	456	Pavement on Durham Street.....	A-2680
Owen Sound, City of....	506	Pavement on 16th Street East.....	A-2709
Brockville, Town of....	B. 1650, amended by B. 1673	Pavements on East Market Street, Church Street, Pearl Street and Garden Street.....	A-2687a
Cobourg, Town of.....	1413, amended by 1432	Pavement on College Street.....	A-2758
Cobourg, Town of.....	1414, amended by 1417 and 1432	Pavement on University Avenue.....	A-2758a
Cobourg, Town of.....	1415, amended by 1432	Pavement on Ontario Street.....	A-2758b
Cobourg, Town of.....	1416, amended by 1432	Pavement on Ball Street.....	A-2758c
Cobourg, Town of.....	1419, amended by 1432	Pavement on Chapel Street.....	A-2758d
Sandwich, Town of....	2027	Widening of pavement on Huron Church Line Road, from Mill Street to north limit of Lot 44, Plan 1139.....	A-2779

LOCAL IMPROVEMENTS—APPORTIONMENT OF COST—CONTINUED

Municipality	By-law No.	Purpose	Procedure File
Southampton, Town of...	785	Paving of Albert Street.....	A-2832
Ottawa, City of.....	6837	Pavement on Bronson Avenue, from Gladstone Avenue to Powell Avenue.....	A-2858a
Ottawa, City of.....	6855	Pavement on Bronson Avenue, from Powell Avenue to O. I. C. Driveway.....	A-2858b
Ottawa, City of.....	6838	Pavement on Pretoria Avenue from Bank Street to O. I. C. Driveway...	A-2859
Brampton, Town of.....	940	Concrete sidewalks on Beech and other Streets.....	A-2942
Wiaraton, Town of.....	268	Roadway on Frank Street and other Streets.....	A-3032
Kincardine, Town of....	979, 982, 983, 996, 997 & 998	Pavements.....	A-3046a, b, c, d, e and f
Ottawa, City of.....	6960	Asphalt pavement on Main Street, from Hawthorne Avenue to Havelock Ave.	A-3054
Kincardine, Town of....	977	Pavement on Queen and other Streets..	A-2419a
Ottawa, City of.....	6997	Resurfacing pavement on Carling Avenue from Bank Street to Percy Street....	A-3141
Oshawa, City of.....	2041	Pavement on portion of Simcoe Street..	A-3186
Midland, Town of.....	1210, 1233, 1236, 1239 & 1240	Local Improvements—Pavements.....	A-3188a

"THE NORTHERN FIRE RELIEF ACT, 1923"

(Chapter 7)

Haileybury, Town of....	Increase in tax rate to 60 mills on the Dollar for purpose of lowering indebtedness of \$75,000 to Royal Bank...	A-2729
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"THE ONTARIO RAILWAY AND MUNICIPAL BOARD ACT"

(Chapter 225, R.S.O. 1927)

Scarborough, Township of, vs. Hydro-Electric Power Commission of Toronto (Toronto Electric Commissioners) and Rayner Construction Co.—Complaint re alleged contravention of Section 50 (3) of "The Power Commission Act".....	A-3143
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PARKS—SETTING ASIDE PART OF FOR ATHLETIC PURPOSES

(Section 12 of "The Public Parks Act")

(Chapter 248, R.S.O. 1927)

Bala, Town of—Part of present Public Park for covered rink, building, etc.....	A-2604
Hamilton, Board of Park Management of City of—Approval By-law No. 12, lands described in Schedule "A" thereto, "Woodlands Park," 6.12 acres.....	A-2657
Kitchener, Board of Park Management of City of—Approval By-law No. 21—Part of "Victoria Park" for swimming pool.....	A-2837
Kitchener, Board of Park Management of City of—Approval By-law No. 22—Part of "Woodside Park".....	A-2990

REPEAL OF MONEY BY-LAWS AS TO RESIDUE NOT RAISED

(Section 301 (2) of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	Original By-law	Purpose	Debentures Authorized	New By-law	Residue not required	Procedure File
Gananoque, Town of	861	Fire alarm system	\$22,000 00	882	\$6,000 00	A-3129
Galt, City of	2786	Waterworks extensions	18,000 00	2822	4,484 00	A-3159
Tarentorus, Township of	283	Electric Power Distribution System	16,000 00	303	4,000 00	A-3183

RESTRICTED AREAS—APPROVAL OF BY-LAWS ESTABLISHING

(Section 398 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	By-law No.	Area Restricted	Procedure File
Toronto, City of.....	12447	Either side of Whitehall Road, part Summerhill Avenue, part Douglas Drive, Gregory Avenue and Highland Avenue.....	A-2603
Ottawa, City of.....	6796	Monkland Avenue to detached private dwellings.....	A-2673
Forest Hill, Village of.....	436	Lots 112, 113, 114, 115, 116 and 117, Plan 645E, Toronto, to detached and semi-detached residences.....	A-2689
Ottawa, City of.....	6821	Area bounded by Echo Drive, Clegg and Main Streets and Riverdale Avenue.....	A-2795
Toronto, City of.....	12604	"Oriole Parkway District," to detached private residence or single duplex.....	A-2809
Toronto, City of.....	12621	St. Clair Avenue West, north side, from Avenue Road to Walmer Road, south side to 357 St. Clair Avenue West, to detached residence or single duplex.....	A-2814
Burlington, Town of.....	676	Areas defined by By-law to private residential purposes.....	A-2817
Nepean, Township of.....	1105	Area and purposes defined in By-law.....	A-2845
Forest Hill, Village of.....	459	Area bounded by Burton Road, Dewbourne Avenue, Spadina Road and Bathurst Street	A-2851
Ottawa, City of.....	6839	Holland Avenue, etc.—Portion of "Elmdale" Ward.....	A-2860
Ottawa, City of.....	6840	Maple Lane, etc.—Portion of "Rideau" Ward	A-2861
Toronto, City of.....	12665	Avenue Road, from Roselawn Avenue to Briar Hill Avenue.....	A-2875
Nelson, Township of.....	896	Areas defined in By-law, to private residential property.....	A-2901
Kingston, City of.....	31 (1930)	Areas defined in By-law, to private residential property.....	A-2972
York, Township of.....	10650	"Cedarvale" district, to detached private dwellings and duplex houses.....	A-3070
Ottawa, City of.....	6988	Area bounded by Maple Lane, Lambton Road, Rideau Terrace and Butternut Terrace.....	A-2861a
Toronto, City of.....	12810	Portion of Blythwood Road	A-3092
North York, Township of...	866	Bayview Street, etc.....	A-3030a
North York, Township of...	867	Bayview Street, etc.....	A-3030b
North York, Township of...	868	20th Avenue East.....	A-3030c
North York, Township of...	869	150' east of Yonge Street, in northerly limit of City of Toronto.....	A-3030d
North York, Township of...	1096	First Concession west of Yonge Street.....	A-3030e
North York, Township of...	1097	30th Avenue West—"Armour Heights"....	A-3030f
North York, Township of...	1098	Brooke Avenue, etc.....	A-3030g
North York, Township of...	1099	150' north of Lawrence Avenue.....	A 3030h
North York, Township of...	1100	150' southerly from Lawrence Avenue, etc. ..	A-3030i
Toronto, City of.....	12892	Area bounded by Howard, Wellesley, Bleecker and Ontario Streets.....	A-3161
Toronto, City of.....	12833	Heath Street East.....	A-3114
Toronto, City of.....	12834	Rosehill and Avoca Avenues.....	A-3115

REPEAL, OR AMENDMENT, OF RESTRICTED AREAS

Approval of By-laws repealing (in part) or amending By-laws providing for
Restricted Areas
(Section 398 (2b) of "The Municipal Act")

Municipality	Amending By-law	Original By-law	Area Affected	Procedure File
Stratford, City of.....	3315	2740	Part Lot "F," Canada Company's Survey.....	A-2624
Kitchener, City of.....	2134	1823, 1834 & 1835	Addition to Division "B," Light Industrial Districts, Sec. 3, Lot 13, Reg. Plan 334.....	A-2649
London, City of.....	C-P-2-19	8702-27	Amendment of subsection "Firstly".	A-2668
Ottawa, City of.....	6797	6237	Amendment of Area No. 1 in Sec. No. 1.....	A-2674
Stratford, City of.....	3319	2740	Lot 90, Canada Company's Survey.	A-2681
Ottawa, City of.....	6804	5997	Blocks "A," "B" and "C," north side Carling Avenue, plan 71960.	A-2702
Kitchener, City of.....	2144	2126, amending 1823, 1834 and 1835	Area described in By-law (Par. No. 31).....	A-2769
Kitchener, City of.....	2145	1823, 1834 and 1835	Addition of Lot on southerly corner of Duke and College Streets.....	A-2770
Stratford, City of.....	3339	2740	Addition to Par. 41 of Schedule "A"	A-2773
Stratford, City of.....	3341	2740	Addition of Duke Street to Schedule "A".....	A-2774
East York, Township of....	1859	1243 (amended by 1347)	Addition to Clause 1 (b) of Lots 19 and 20, Plan 704, at northeast and northwest corner of Aldwych and Woodycrest Avenues.....	A-2810
Toronto, City of.....	12640	11389	No. 130 Hammersmith Avenue....	A-2854
Toronto, City of.....	12641	11474	No. 16 Rowanwood Avenue.....	A-2855
Kitchener, City of.....	2154	1823, 1834 and 1835	Addition of Business District to Sec. 1, Division "C".....	A-2857
Toronto, City of.....	12687	9651	No. 185 Cottingham Street.....	A-2889
Toronto, City of.....	12685	9495	No. 108 Heath Street West.....	A-2894
Stratford, City of.....	3346	2740	Part Lot 12, Park Lot 459, Canada Company's Survey.....	A-2915
Stratford, City of.....	3349	2740 and 3051	Addition to Par. 38 of Schedule "A," part Lot 98.....	A-2916
London, City of.....	C-P-3-141	8702-27	(See A-1578)	
Stratford, City of.....	3341	2740	Addition of Duke Street to Schedule "A".....	A-2928
Forest Hill, Village of.....	482	285	Extension of Business and Apartment House districts on portion of Spadina Road.....	A-2936
London, City of.....	C-P-4-266	9021-28	(Correcting clerical error).....	A-1984a
Toronto, City of.....	12760	4469, 6109 and 9874	Property on Bloor Street east of Walmer Road.....	A-2952
Toronto, City of.....	12763	8866	Property at 110 Bedford Road....	A-2955
Toronto, City of.....	12766	12713	North of Roselawn Avenue and west of Rosewell Avenue and its production.....	A-2958
Toronto, City of.....	12992 and 13043	12958	North of Roselawn Avenue and west of Rosewell Avenue and its production.....	A-2958a
Kitchener, City of.....	2170	1823, 1834 and 1835	Addition of portions of King Street.	A-3083
Kitchener, City of.....	2177	1823, 1834 and 1835	Bounded by West Avenue, Grand River Railway right-of-way and Wilmot Street.....	A-3084
Toronto, City of.....	12809	9683	No. 6 Crescent Road.....	A-3091

REPEAL, OR AMENDMENT OF RESTRICTED AREAS—CONTINUED

Municipality	Amending By-law	Original By-law	Area Affected	Procedure File
Toronto, City of.....	12835	11961, as amended by 12163	Nos. 40 and 42 Wells Street.....	A-3125
Kitchener, City of.....	2187	1823, 1834 and 1835	Addition of "Business" Districts to Section 1, Division "C".....	A-3194
Toronto, City of.....	12930	11309	Land between Nos. 94 and 100 Tyn- dall Avenue.....	A-3209
Toronto, City of.....	12949	9712	20 Maynard Avenue.....	A-3210

SEWAGE AND SEWAGE DISPOSAL WORKS
(Section 95 of "The Public Health Act")
(Chapter 262, R.S.O. 1927)

Gabel, Wm., and Edwin, vs. Town of Waterloo—Damage re operation of sewage disposal plant at creek flowing into Grand River at Village of Bridgeport....	A-3081
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SINKING FUNDS—APPROVAL OF BY-LAWS FOR INVESTMENT OF

(Section 317 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	Sinking Fund By-law	Debenture By-law	Purpose	Amount	Procedure File
Brockville, Town of....	B. 1666	B. 1665	Suburban Road Construction	\$9,782 50	A-2716
Galt, City of.....	2812	2787	Collegiate Institute purposes	23,000 00	A-2923
Galt, City of.....	2826	2822	Waterworks purposes..... (amended)	13,516 00	A-3191

TAX RATE

APPROVAL FURTHER DEBT, ETC., WHERE RATE TOO HIGH

(Section 306 (2) of "The Municipal Act")
(Chapter 233, R.S.O. 1927)

Municipality	By-law No.	Purpose	Amount	Procedure File
Glencoe, Village of.....	348	Waterworks System.....	\$85,000 00	A-2651
Port Colborne, Town of..	61 (1930)	Storm Sewers.....	143,000 00	A-2704
Port Colborne, Town of..	62 (1930)	Sewage System.....	207,000 00	A-2705
Burlington, Town of.....	657	High School Purposes.....	77,000 00	A-2794
York, Township of.....	—	Local Improvements—Pavements, sewers and watermains.....	191,330 00	A-2834
Port Carling, Village of..	354 (amended)	Highway Construction.....	17,500 00	A-2831a
Thorold, Town of.....	1057	Consolidation of floating indebted- ness.....	55,000 00	A-2849
Gananoque, Town of.....	859 (amended)	Permanent pavements.....	20,000 00	A-2719a
Gananoque, Town of.....	861 (amended)	Fire fighting equipment.....	22,000 00	A-2850a
York, Township of.....	10547 (etc.)	Pavements, etc.....	349,777 00	A-2907
Cochrane, Town of.....	395 (amended)	Extension to Telephone System..	19,000 00	A-2909
Scarborough, Township of	1732	Waterworks purposes, Areas 1, 2, 4, 5 and 6 (pumps).....	11,000 00	A-2995a
Scarborough, Township of	1733	Extension to Filtration Plant— Water Areas 1, 2, 4, 5 and 6.	66,000 00	A-2995b
Carleton Place, Town of..	1029	Waterworks Extensions, etc.....	27,000 00	A-2999

TAX RATE—CONTINUED

Municipality	By-law No.	Purpose	Amount	Procedure File
York, Township of.....	—	Local Improvements—Pearen Ave. Watermain, etc.....	\$41,320 50	A-3044
York, Township of.....	10646	Purchase of Weigh Scales.....	3,600 00	A-3060
Port Hope, Town of.....	1416	Sewer on Mill & Ward Sts.....	14,520 00	A-3065
York, Township of.....	—	Grading Mossom Road and Humbrecrest and Humberview Blvd.	30,000 00	A-3071
Gravenhurst, Town of....	P. 144	Waterworks purposes.....	5,000 00	A-3095
Hagersville, Village of....	369	High School purposes.....	30,000 00	A-3101
Oakville, Town of.....	817	Fire protection.....	10,000 00	A-3104
Port Hope, Town of.....	1393	Bridge over Generaska River....	7,000 00	A-3118a
Port Hope, Town of.....	1414	Fire Truck.....	8,500 00	A-3119
Dover, Township of.....	171	County, Township and General School purposes.....	90,376 06	A-3123
York, Township of.....	—	Local Improvements—Sewers, Dundas Street, etc.....	438,550 00	A-3124
Port Arthur, City of....	1967	Guarantee of Hospital Debentures	190,000 00	A-3147a
South Plantagenet, Township of.....	150	McInnis Bridge, construction of.	18,000 00	A-3160a
York, Township of.....	—	Water Mains, St. Clair Avenue, etc	22,311 00	A-3189

POLICE VILLAGES—FORMATION OF

(Sections 514 (3) and 517 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Kakabeka Falls—Formation of portions of Townships Oliver and Paipoonge into— (Petition of George Brown and others).....	A-2791
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WARDS

DIVISION OF CITIES, ETC., INTO

(Section 44 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Fort Frances, Town of—Division into 6 Wards.....	A-2879
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WATERWORKS

Etobicoke, Township of..... Approval By-law 3488—Setting aside Water Area No. 15.....	A-2670
Etobicoke, Township of..... Approval By-law 3489—Setting aside Water Area No. 16.....	A-2671
Oshawa, City of..... Approval By-law 1998 (\$24,200)—Construction of Water Main (under By-laws 1962 and 1976)....	A-2686
Essex Border Utilities Commission..... City of Windsor vs. Town of Walkerville, et al—Appeal from Report of Engineer (filed February 25th, 1930), re proposed enlarging and extending of Commission's filtration plant.....	A-2712
Etobicoke, Township of..... Approval By-law 3494—Enlarging Water Area No. 7.....	A-2727
Nepean, Township of..... Approval By-law 1096—Establishing Water Area No. 1.....	A-2751
Nepean, Township of..... Approval By-law 1097—Establishing Sewer Area "A".....	A-2752
Nepean, Township of..... Approval By-law 1098—Establishing Water Area No. 2.....	A-2753
Nepean, Township of..... Approval By-law 1099—Establishing Sewer Area "B".....	A-2754

WATERWORKS—CONTINUED

		Procedure File
Etobicoke, Township of.....	Approval By-law 3490—Enlarging Water Area No. 3.....	A-2757
Etobicoke, Township of.....	Approval By-law 3544—Enlarging Water Area No. 7.....	A-2868
Etobicoke, Township of.....	Approval By-law 3545—Enlarging Water Area No. 14.....	CA-2869a
Etobicoke, Township of.....	Approval By-law 3546—Enlarging Water Area No. 14.....	A-2869b
Etobicoke, Township of.....	Approval By-law 3549—Enlarging Water Area No. 15.....	A-2870
Etobicoke, Township of.....	Approval By-law 3547—Enlarging Water Area No. 16.....	A-2871
Scarborough, Township of.....	Approval By-law 1732 (\$11,000.00)—New pumps for Water Areas 1, 2, 4, 5 and 6.....	A-2964
Scarborough, Township of.....	Approval By-law 1733 (\$66,000.00)—Extensions in Water Areas 1, 2, 4, 5 and 6.....	A-2971
Etobicoke, Township of.....	Approval By-law 3632—Enlarging Water Area No. 13.....	A-3034
Etobicoke, Township of.....	Approval By-law 3631—Enlarging Water Area No. 7.....	A-3039
Thorold, Township of.....	Approval By-law 19 (1930) (\$27,854.00)—Site and construction of Water System in Area No. 1.....	A-3042a
Scarborough, Township of.....	Approval By-law 1751—Setting aside Water Area No. 3.....	A-3156

WEIGH SCALES AND WEIGHING OF COAL, ETC.

(Section 400 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

York, Township of—Approval	By-law 10607—To establish a Public Weighing Machine.....	A-2977
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WORKS ORDERED BY DOMINION AND ONTARIO RAILWAY BOARDS

(Section 297 (2) (f) of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Chapleau, Township of—Reconstruction of bridge over Canadian Pacific Railway tracks at Chapleau (\$17,500).....	A-3013
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PLANS OF LAND SUBDIVISIONS

Approved by the Board under "The Planning and Development Act," "The Land Titles Act" and "The Registry Act."

Owner	Description	Procedure File
Ackerman, John.....	Part Lot 16, Block 9, Plan 24B, Village of Delhi, Co. Norfolk.....	A-2627
Athoe, Wm. G.....	Resubdivision of Lots 724, etc., Reg. Plan No. 8 ("Central Park") and Lot 13, etc., Reg. Plan No. 26, all in Village of Humberstone, County Welland.....	A-2743
Bradley, Geo.....	Part L.K. 56, on Lot 8, Con. VI., Township Malachi, District Kenora.....	A-2614
Bradley, Geo.....	H.S. 999, on Lot 8, Con. VI., Township Malachi, District Kenora.....	A-2615
Brown, John.....	Part of northerly part of original Lot 12, in Front or Ninth Concession, Township Sarnia	A-2626

PLANS OF LAND SUBDIVISIONS—CONTINUED

Owner	Description	Procedure File
Campbell, Alex.....	Part Lot 4, Con. IX, Township Hamilton, County Northumberland.....	A-3137
Crystal Park Co., Ltd.....	Part Township Lot 24, Con. I from Lake Erie, Township Bertie, County Welland.....	A-3204
Dyment, Albert E.....	Part Lot 23, Con. IX, Township Fenelon, County Victoria.....	A-3171
Fulton, A. M., et al.....	Part Lot "A," Con. IV, Township Bexley, County Victoria.....	A-3153
Goodison, John, Thresher Co.....	Lots 57 to 64 (incl.) of Plan 21, and Lots F.G. and part of H. of Registered Plan 14, City of Sarnia, County Lambton.....	A-2618
Grondin, Phileas, et al.....	Part Lots 5 and 6, B.F. Concession, Township Tilbury North, County Essex.....	A-3131
Goodfellow, W. G.....	Part Broken Lot 27, Con. VIII, and part Broken Lot, Con. IX, Township Innisfil, County Simcoe.....	A-3205
Hastings, A. T., and Harold.....	Part Lot 6, Con. VII, Township Innisfil, County Simcoe ("Maple Grove Park").....	A-3100
Hancock, F. E.....	Resubdivision of part Lot 10, Con. III, Township of Pellatt, District Kenora.....	A-3195
Humphrey, W. G. F.....	Part Lot 8, Con. 11, Township Fenelon, County Victoria.....	A-3199
Ives, Georgina S., et al.....	South part Lot 11, Con. "B," Township Mersea, County Essex.....	A-2993
Knox, Jos. S.....	Part Lot 4, Con. XV, Township Sunnidale, County Simcoe.....	A-2620
King, Geo. C.....	Part Lot 16, Con. I, Township Gosfield South, County Essex.....	A-2696
Kent, Willis.....	Part Lots 33 and 34, Con. IX, Township Lindsay, County Bruce.....	A-2905
Kingsville Park Board.....	Part Lot 3, Con. I, Western Division, Township Gosfield South, and part Reg. Plan 598, all in Town of Kingsville, County Essex (Cemetery).....	A-2987
Lawrason, John Wilkie.....	Part Lot 16, Con. I, Township West Flamboro, County Wentworth, Town of Dundas.....	A-2619
Martin, H. J.....	Part Parcel No. 1799, A.W.S., Township No. 28, Range 24, District of Algoma.....	A-2666
Messier, Louis.....	Part Lot 32, Con. VI, and Lot 32, Con. VII, Township Baxter (unorganized), District Muskoka (Land Titles Act).....	A-3011
Miles, Theo.....	Part Lot 75, Block "A," Reg. Plan 99, York (north riding), Village of Sutton, Township Georgina, County York.....	A-3130
Matheson, Alex., et al.....	Mining Claim M.R. 6449, Township Cairo, District Temiskaming (Land Titles Act)...	A-3175
McGrogan, Margaret.....	Amendment to plan of part Lot 25, Con. IX, Township Flos, County Simcoe.....	A-2821
Oakes, Harry.....	Part Lot 108, Township Stamford (resub-division of), part Reg. Plan No. 45, Township Stamford, County Welland.....	A-3021
Overholt, Harry.....	Part Lot 17, Broken Front Concession, Township Charlotteville, County Norfolk.....	A-3075
Parnell, Jno. C.....	Part Broken Lot 19, Con. VI, Township Tiny, County Simcoe.....	A-2826
Preston, Geo.....	Lots 12 and 13, Con. IV, Township Whitchurch, County York.....	A-3028
Patten, Martha J.....	Block 76, Plan 376, being part Farm Lot 282, Talbot Road North, Town and County Essex.....	A-3074
Quesnelle, Henry.....	Part Lot 19, Con. 13, Township Tiny, County Simcoe.....	A-2718
Richardson, F. E., et al.....	Part Lots 91 and 92, Con. I, Township Colchester South, County Essex.....	A-2806
Racette, O.....	Part Lots 6 and 7, Con. V, Township Cane, District Temiskaming (Land Titles Act)...	A-2935
Shelswell, Geo.....	Part Lots 26 and 27, Con. VII, Township Oro, County Simcoe.....	A-2612

PLANS OF LAND SUBDIVISIONS—CONTINUED

Owner	Description	Procedure File
Smith, R. Home.....	Part Plan M. 482, Morningside Avenue to Ormskirk Avenue and part Plan 2445, extension southerly to Queen Street, both in Village of Swansea.....	A-2910
St. Catharines Securities, Ltd.....	Part Lot 11 of 40 acre Block, Reg. Plan 73A; parts Lots 11 to 16 (incl.) Wingrove Plan, Registered No. 99; Part Lot 29, Metaweb Subdivision, Reg. No. 119, City of St. Catharines.....	A-2965
Smith, Robt. Home.....	Re subdivision of Block M, Plan M-443, etc., partly in City of Toronto and partly in Village of Swansea, Township York.....	A-3110
Toronto, City of.....	Plan of Sections 25, 30, 55, 58, 61, 64, 83, 104, 84, 105, 106, 107, 111, 112, 113 and 118 of its General Plan (P. 592).....	A-2755
Turnbull, Gordon.....	Part Lot 30, Lake Road West Concession, Township Hay, County Middlesex.....	A-2820
Western Realty, Ltd.....	Part Lot 68, Con. 1, Township Whitchurch, County York.....	A-2735
Waltensperger, Alex. L., et al.....	Part Lot "A," East River Ruscomb Concession, Township Rochester, County Essex.....	A-2867
Westdale Properties, Ltd.....	Resubdivision of part Registered Plans 683 and 652, City of Hamilton, County Wentworth.....	A-2874
Winger, W. A., Ltd.....	Part Township Lot 31, Con. I, Township Wainfleet, County Welland (Registry Act).....	A-2954
Wellington, D. S.....	Lot 6 of Front Concession, Township Plympton, County Lambton.....	A-2956
Wellington, Lorne.....	Lot 4 of Front Concession, Township Plympton, County Lambton.....	A-2957
Wallace, John T.....	Part Lots 9 and 10, Reg. Plan No. 7, City of London.....	A-3068

LIST OF APPLICATIONS TO THE BOARD UNDER
"THE TELEPHONE ACT"

Alnwick Rural Telephone Co., Ltd.	Increased charges for service.....	A-2648
Ardoch Rural Telephone System....	Sale of by John Myers to Frank Lyon.....	A-3167
Brown, A. L., et al, vs. Home Telephone Co., Ltd.....	Continuance of Local Exchange service at Unionville, etc.....	A-2607
Beatty, A. C. (M.D.)—"Beatty Telephone System" vs. Fred Currelly, et al.....	Complaint as to service.....	A-2613
Brudenell & Lyndoch Municipal Telephone System.....	Approval agreement for interchange of service with Rankin Telephone Company, et al....	A-2621
Bromley Telephone Co., Ltd.....	Approval agreement for interchange of service with Rankin Telephone Company, M.L. Davis	A-2652c
Brougham & Grattan Telephone Co., Ltd.....	Approval agreement for interchange of service with Rankin Telephone Company, M.L. Davis.....	A-2652e
Bon Echo Long Distance Telephone Line.....	See "Denison, Merrill"	
Bromley, Township of.....	Approval By-law 418—Use of highways to The Pine Valley & Douglas Telephone Co., Ltd.	A-2765
Blyth Municipal Telephone System.....	Extension of, under By-laws 11 (1912), 5 (1913), 9 (1914), 8 (1915), 8 (1916), 7 (1917), 8 (1918), 5 (1920), and 6 (1921) of Village of Blyth.....	A-2787a, b, c, d, e, f, g, h, i & j.
Bagot & Blythfield, Townships of....	Approval by-law 394—Use of certain highways to Forestry Branch of Department of Lands & Forests of Ontario.....	A-2789
Bangor, Wicklow & McClure, Twps. of.....	Approval By-law 340, granting use of highways to Forestry Branch of Department of Lands & Forests of Ontario.....	A-2892

LIST OF APPLICATIONS TO THE BOARD UNDER
"THE TELEPHONE ACT"—CONTINUED

	Procedure File
Billings Mutual Telephone Co., Ltd. Approval By-law 1—Control and management of its undertaking.....	A-2960
Blyth Municipal Telephone System. Approval By-laws regulating control and management of.....	A-3006
Bell Telephone Co. of Canada, Ltd. Approval purchase by Commissioners for Telephone System of Township Waterloo of certain telephone plant and equipment....	A-3014
Bennett, E. E. (Whitestone & Deer Lake Telephone Line) vs. A. M. Robertson, et al.....	A-3026
Bell Telephone Company of Canada, Ltd.....	A-3037
Byron Telephone Co., Ltd.....	A-3072
Bell Telephone Company of Canada, Ltd.....	A-3073
Billings Mutual Telephone Co., Ltd. Increased charges.....	A-3003
Beatty, A. C. (M.D.)—"Beatty Telephone System vs. S. D. & E. L. Sleeman.....	A-3155
Burpee, Township of.....	A-3166
Bromley, Township of.....	A-3197
Currelley, Fred, et al, vs. A. C. Beatty, M.D.....	A-2613
Cormac & Eganville Telephone Co., Ltd.....	A-2621
Clarence Telephone Co., Ltd.....	A-2653
Cavan, Township of, vs. Edward Dawson, et al.....	A-2734
Conn Telephone Co., Ltd., vs. Anson Kirkness, et al.....	A-2785
Cudmore, A. E., vs. Wm. Frayne (Thames Road Telephone System). Parallelling of pole leads of Municipality of Tuckersmith for service to applicant.....	A-2797
Clergue, et al, unorganized Twps. of. Use of highways or road allowances in, by Northern Telephone Co., Ltd.....	A-2816
Chapleau, Township of.....	A-2902
Cochrane, Town of.....	A-2908
Chapleau Telephone System, Ltd....	A-2989
Cultus & Marston Telephone Co., Ltd. Approval By-law 341, Township of North Walsingham—Use of certain highways to.....	A-3139
Cultus & Marston Telephone Co., Ltd. Approval By-law, Township of Houghton, use of certain highways to.....	A-3140
Davis, Leslie.....	See "Rankin Telephone Co."
Davis, M. L.....	See "Rankin Telephone Co."
Denison, Merrill.....	A-2688
Dawson, Edward, et al., vs. Township of Cavan.....	A-2734

LIST OF APPLICATIONS TO THE BOARD UNDER
"THE TELEPHONE ACT"—CONTINUED

	Procedure File
Dysart, et al, United Townships of..	Approval of By-law No. 834—Debenture issue re extensions to Dysart Municipal Telephone System.....
Devitt, et al., unorganized Townships of.....	Use of highways to Northern Telephone Company, Ltd.....
Darling, Township of.....	Approval By-law 571—Use of certain highways to Forestry Branch of Department of Lands & Forests of Ontario.....
Douglas, John, vs. Millbrook Rural Telephone Company, Ltd.....	Terms, etc., of service.....
Evergreen Telephone Company.....	Approval of agreement for interchange of service with the Rankin Telephone Company (M. L. Davis).....
East Middlesex Telephone Co., Ltd..	Service to Thomas McVey.....
Erie Telephone Company, Ltd.....	Approval sale of plant, etc., to Southern Ontario Telephone Co., Ltd.....
Erie Telephone Company, Ltd.....	Liquidation of, authority to Southern Ontario Telephone Co., Ltd., to issue shares to for purchase of certain properties, etc.....
East Ferris, Township of.....	Approval of By-law No. 738—Establishment of telephone system under Part II of "The Telephone Act".....
Ernesttown Rural Telephone Company, Ltd., vs. Fred Sills, et al. . . .	Terms and conditions of service and parallelling of pole lead of Perry Telephone System....
East Luther Telephone Co., Ltd., vs. Municipal Corporation of Village of Grand Valley.....	Continuous service.....
Erin, Township of.....	Approval By-law 13 (1930)—Issue of debentures to liquidate portion of principal and interest due re debentures for establishment of Municipal Telephone System.....
Foster Bros. Telephone Co., Ltd....	Approval of agreement for interchange of service with The Rankin Telephone Company (M. L. Davis).....
Flake, John D.....	Approval of sale to, by Merrill Denison, of one No. 9 G.I. metallic circuit, between Kaladar and Northbrook.....
Forestry Branch of Department of Lands & Forests (Ont.).....	Approval By-law 267 of Townships of Nipissing, use of certain highways to.....
Forestry Branch of Department of Lands & Forests (Ont.).....	Approval By-law 394 of Township of Bagot and Blythfield—Use of certain highways to
Frayne, Wm.....	(Thames Road Telephone System), A. E. Cudmore vs. parallelling of pole leads of Municipality of Tuckersmith, service to A. E. Cudmore.....
Forestry Branch of Department of Lands & Forests (Ont.).....	Approval By-law 446 of Township of Harvey granting use of certain highways to.....
Forestry Branch of Department of Lands & Forests (Ont.).....	Approval By-law 340 of Township of Bangor, Wicklow and McClure, granting use of highways to.....
Forestry Branch of Department of Lands & Forests (Ont.).....	Approval By-law 571 of Township Darling—Use of certain highways to.....
Flos, Municipality of.....	Authority to purchase certain Telephone plant and equipment from Bell Telephone Company of Canada, Limited.....
Fort William, City of.....	Revision of charges for Telephone service and system of collections.....
Goderich Rural Telephone Company, Limited.....	Expenditure of \$5,000.00 of depreciation reserve fund for new construction and extensions..

LIST OF APPLICATIONS TO THE BOARD UNDER
"THE TELEPHONE ACT"—CONTINUED

	Procedure File	
Gosfield North Municipal Telephone System.....	Extension of Debenture By-law No. 703 of Township of Gosfield North.....	A-2788
Grand Valley, Village of vs. East Luther Telephone Company, Limited.....	For continuous service	A-3018
Home Telephone Company, Limited.....	A. L. Brown, et al, vs. continuance of local exchange service at Unionville.....	A-2607
Hagarty & Richards, Municipality of.....	Approval Agreement for Interchange of Service with the Rankin Telephone Company, et al.....	A-2621
Hyndford & Douglas, Telephone Co.....	Approval Agreement for interchange of service with the Rankin Telephone Company (M. L. Davis).....	A-2652
Harvey, Township of.....	Approval By-law 446—Use of certain highways to Forestry Branch of Department of Lands & Forests of Ontario.....	A-2815
Huron & Kinloss Municipal Telephone System.....	Investment of \$4,000.00 of depreciation Reserve Fund in Trustee debentures of Huron and Erie Mortgage Corporation.....	A-2930
Home Telephone Company, Limited.....	Terms, etc., of service to A. E. Ramsey, and parallelling of pole leads of Sunderland Telephone Company, Limited, etc.....	A-3016
Houghton & Bayham Telephone Company.....	Increased charges.....	A-3043
Houghton Township.....	Approval By-law—Use of certain highways to the Cultus Marston Telephone Company, Limited.....	A-3140
Ingersoll Telephone Company, Ltd.....	Expenditure of \$5,662.72 of depreciation reserve fund in new construction and additions to plant equipment.....	A-2678
Johnson, Municipality of.....	Approval Agreement for interchange of service with the Municipality of Macdonald, Meredith and Aberdeen Additional.....	A-2761
Johnson, Municipality of.....	Approval Agreement for interchange of service with the Municipality of Tarbutt & Tarbutt Additional.....	A-2762
Kaladar Northern Telephone.....	See Flake, Jno. D.	
Kirkness, Anson, et al.....	Parallelling of lines of the Mount Forest—Wellington—Grey Telephone Company, Limited by the Conn Telephone Company, Limited.....	A-2785
Laird, Municipality of.....	Authority to pass by-law for issue of debentures not exceeding \$4,500.00 to meet cost of metallic circulating lines of the Laird Municipal Telephone Company.....	A-2637
Laird Municipal Telephone System.....	Authority to pass by-law of Municipality of Laird for issue of debentures not exceeding \$4,500 to meet cost of metallic circulating lines of.....	A-2637
Lightning Telephone Company, Limited.....	Approval Agreement for interchange of service with the Rankin Telephone Company (M. L. Davis).....	A-2652f
Leeds and Frontenac Rural Telephone Company, Limited.....	Increased charges.....	A-2710
Langton Telephone Company, Limited.....	Approval Agreement for interchange of service with the South Walsingham Telephone Company, Limited.....	A-2763
Lands and Forests Department of Ontario, Forestry Branch.....	Approval By-law 267, Township of Nipissing, use of certain highways to.....	A-2764
Lands and Forests Department of Ontario, Forestry Branch.....	Approval By-law 394 of Township of Bagot and Blythfield, use of certain highways to...	A-2789
Lands and Forests Department of Ontario, Forestry Branch.....	Approval By-law 446, Township of Harvey, granting use of certain highways to.....	A-2815

LIST OF APPLICATIONS TO THE BOARD UNDER
"THE TELEPHONE ACT"—CONTINUED

	Procedure File
London Township Municipal Telephone System.....	Authority to Township of London to pass debenture By-law for purchase of central office for applicant.....
	A-2883
Lands and Forests Department of Ontario, Forestry Branch.....	Approval By-law 340 of Township of Bangor, Wicklow, McClure, granting use of highways to.....
	A-2892
Lands and Forests Department of Ontario, Forestry Branch.....	Approval By-law 571 of Township of Darling—Use of certain highways to.....
	A-3038
Lyons, Frank.....	Approval sale to, by John Myers, of Ardoch Rural Telephone System.....
	A-3167
Mississippi Telephone Company, Limited.....	Authority to expend portion of depreciation reserve upon liquidation of indebtedness re reconstruction.....
	A-2639
Moore, Township of.....	Approval By-law No. 2 (1928) debentures issued re reconstruction and replacement of certain portions of its Municipal Telephone System.
	A-2677
Macdonald, Meredith and Aberdeen Additional, Municipality of.....	Interchange of service with Municipality of Johnson.....
	A-2761
Mount Forest, Wellington and Grey Telephone Company, Limited.....	Paralleling of lines of by Conn Telephone Company, Limited, to furnish service to Anson Kirkness, et al.....
	A-2785
Maidstone, Township of.....	Approval By-law 1241—Debenture issue re certain extensions to its Municipal Telephone System.....
	A-2817
Martin, Frank, et al.....	Sale of Oldfield Telephone Line to Thomas Herbert Nicholl.....
	A-2919
Mount Albert Telephone Company, Limited.....	Investment of \$1,000.00 of depreciation reserve fund in City of Hamilton Bond.....
	A-2929
Magnetewan Municipal Telephone System.....	Increased charges.....
	A-2946
Malahide & Bayham Telephone Association, Limited.....	Increased charges.....
	A-3008
Muskoka & Parry Sound Telephone Company, Limited.....	Approval By-law 681 of Township of Stevenson—Granting use of certain highways to.....
	A-3027
Murray, Township of.....	Approval By-law 839—Use of highways to the Macdonald Telephone Company, Limited...
	A-3102
Macdonald Telephone Company, Limited.....	Approval By-law 839 of Township of Murray—Use of highways to the Macdonald Telephone Company, Limited.....
	A-3102
Millbrook Rural Telephone Company, Limited vs. John Douglas.....	Terms, etc., of service.....
	A-3151
Myers, John.....	Approval Sale to Frank Lyons of Ardoch Rural Telephone System.....
	A-3167
Millbrook Rural Telephone Company, Limited.....	Authority to issue new stock.....
	A-3169
North Algona, Municipality of.....	Approval Agreement for interchange of service with the Rankin Telephone Company, et al.
	A-2621
Nipissing, Township of.....	Approval By-law 267—Use of certain highways to Forestry Branch of Department of Lands and Forests of Ontario.....
	A-2764
Norfolk County Telephone Company, Limited.....	Approval sale of plant, etc., to the Southern Ontario Telephone Company, Limited.....
	A-2798a
Northern Telephone Company, Limited.....	Use of any highway or road allowance in unorganized Townships of Clergue, et al.....
	A-2816
Northern Telephone Company, Limited.....	Expenditure of \$35,000.00 of depreciation fund on new construction and additions.....
	A-2818

LIST OF APPLICATIONS TO THE BOARD UNDER
"THE TELEPHONE ACT"—CONTINUED

	Procedure File
Norfolk County Telephone Company, Limited.....(Liquidation of)—Authority to Southern Ontario Telephone Company, Limited, to issue shares to—for purchase of certain properties, etc.....	A-2827
Northern Telephone Company, Limited.....	A-2899
Nichols, Thomas Herbert.....	A-2917
Northern Telephone Company, Limited.....	A-3004
North Walsingham, Township of....	A-3139
Omeme Telephone Company, Limited.....	A-2642
Oldfield Rural Telephone Line.....	A-2917
Pine Valley and Douglas Telephone Company, Limited.....	A-2765
Pine Valley and Douglas Telephone Company, Limited.....	A-2766
People's Telephone Company, Limited.....	A-2887
Playfair, Township of.....	A-2899
Perry Telephone System.....	A-3017
Rankin Telephone Company (Leslie Davis).....	A-2621
Radcliffe, Municipality of.....	A-2621
Raglan, Municipality of.....	A-2621
Rankin Telephone Company (M. L. Davis).....	A-2652
Rankin Telephone Company (M. L. Davis).....	A-2652a
Rankin Telephone Company (M. L. Davis).....	A-2652b
Rankin Telephone Company (M. L. Davis).....	A-2652c
Rankin Telephone Company (M. L. Davis).....	A-2652d
Rankin Telephone Company.....	A-2652e
Rankin Telephone Company.....	A-2652f
Ramsey, A. E.....	A-3016

LIST OF APPLICATIONS TO THE BOARD UNDER
"THE TELEPHONE ACT"—CONTINUED

	Procedure File
Robertson, A. M., et al. vs. E. E. Bennett (trading as Whitestone and Deer Lake Telephone Line).....	Complaint as to service..... A-3026
Rox Telephone Company, Limited....	Approval By-law 468, Township of Ross—Use of highways to..... A-3196
Rox Telephone Company, Limited....	Approval By-law 423, Township of Bromley—Use of highways to..... A-3197
Ross, Township of.....	Approval By-law 468—Use of highways to Rox Telephone Company, Limited..... A-3196
Somerville Municipal Telephone System.....	Extension of time to pass debenture By-law for establishment of..... A-2606
Sherwood, Municipality of.....	Approval Agreement for interchange of service with the Rankin Telephone Company, et al. A-2621
Somerville, Township of.....	Approval By-law 834—Debentures to meet cost of establishing the Somerville Municipal Telephone System..... A-2640
South Monaghan, Municipality of—Edward Dawson, et al. vs. Township of Cavan.....	Extension of Telephone System of Municipality of South Monaghan into Township of Cavan. A-2734
South Walsingham Telephone Company, Limited.....	Approval Agreement for interchange of service with the Langton Telephone Company, Ltd. A-2763
Southern Ontario Telephone Company, Limited.....	Approval of sale to, of plant, etc., of the Norfolk County Telephone Company, Limited..... A-2798a
South Norfolk Telephone Company, Limited.....	Approval sale of plant, etc., to the Southern Ontario Telephone Company, Limited..... A-2798b
Southern Ontario Telephone Company, Limited.....	Approval sale to, of plant, etc., of the Erie Telephone Company, Limited..... A-2798c
Southern Ontario Telephone Company, Limited.....	Authority to issue shares to liquidator of Norfolk County Telephone Co., Ltd., Erie Telephone Co., Ltd., and South Norfolk Telephone Co., Ltd., for purchase of properties of said companies..... A-2827
South Norfolk Telephone Company, Limited (liquidation of).....	Authority to Southern Ontario Telephone Co., Ltd., to issue shares to, for purchase of certain properties, etc..... A-2827
Sunderland Telephone Company Limited.....	Paralleling of pole leads by Home Telephone Company, Limited..... A-3016
Sills, Fred, et al, vs. Ernesttown Rural Telephone Company, Limited.....	Terms and conditions of service and consent to paralleling of pole lead of Perry Telephone System..... A-3017
Stephenson, Township of.....	Approval By-law No. 681—Granting use of certain highways to the Muskoka & Parry Sound Telephone Company, Limited..... A-3027
South Elderslie Telephone Company, Limited.....	Increased charges..... A-3111
Sleeman, S. D. and E. L. vs. A. C. Beatty, M.D.....	Terms and conditions for telephone service.... A-3155
South Elderslie Telephone Company, Limited.....	Authority to issue additional shares of capital stock..... A-3208
Tyendinaga Municipal Telephone System.....	Terms, etc., to Jas. V. Walsh for use of poles.. A-2697
Tarbutt & Tarbutt Additional, Municipality of.....	Approval Agreement for interchange of service with Municipality of Johnston..... A-2762

LIST OF APPLICATIONS TO THE BOARD UNDER
"THE TELEPHONE ACT"—CONTINUED

	Procedure File
Thames Road Telephone System	A-2797
Paralleling of pole leads of system of Municipality of Tuckersmith—Service to A. E. Cudmore	
Tuckersmith Municipal Telephone System	A-2797
Paralleling of pole leads of Thames Road Telephone System Company by service to A. E. Cudmore	
Upper Admaston Telephone Company, Limited	A-2652b
Approval Agreement for interchange of service with the Rankin Telephone Company (M. L. Davis)	
Walsh, Jas. V.	A-2697
Terms, etc., for use of poles of Tyendinaga Municipal Telephone System	
Woodbridge & Vaughan Telephone Company, Limited	A-2698
Authority for expenditure of portion of depreciation reserve fund on new constructions and extensions	
Woodbridge & Vaughan Telephone Company, Limited vs. Village of Woodbridge	A-2739
Complaint re toll charges between subscribers in Village of Woodbridge and Townships of Vaughan and King	
Woodbridge, Village of vs. Woodbridge and Vaughan Telephone Company	A-2739
Complaint re toll charges between subscribers in Village of Woodbridge and subscribers in Vaughan and King	
Wilberforce, Township of	A-2766
Approval By-law 625—Use of certain highways to Pine Valley & Douglas Telephone Company, Limited	
Watt, Township of	A-2792
Approval Debenture By-law 620—Extension to Municipal Telephone System	
Welland County Telephone Company, Limited	A-2888
Authority to expend portion of reserve depreciation fund on new construction, etc.	
Waterloo, Township of (Commissioners for Telephone System of)	A-3014
Approval purchase of certain telephone plant and equipment of Bell Telephone Company of Canada, Limited	
Whitestone & Deer Lake Telephone Line	A-3026
See "Bennett, E. E."	
Watt, Municipality of (Commissioners for Telephone System of)	A-3037
Approval of purchase of certain Telephone plant in Township of Stephenson from Bell Telephone Company of Canada, Limited	

LIST OF BELL TELEPHONE AGREEMENTS APPROVED BY THE BOARD
UNDER SECTION 97 OF "THE TELEPHONE ACT"

EXCHANGE AND TOLL LINE AGREEMENTS

	Procedure File
Calabogie & Renfrew Telephone Association.....	A-2684
Chapleau Telephone System, Limited.....	A-3048
East Ferris Municipal Telephone System.....	A-2944
Fort William Municipal Telephone System.....	A-2951
Kaladar & Northern Telephone System.....	A-2833
Rankin Telephone Company.....	A-3019
Tay Municipal Telephone System.....	A-3020
Tyendinaga Municipal Telephone System.....	A-3097
West Garafraxa Telephone Co-operative Association, Limited.....	A-2623

SERVICE STATION AGREEMENTS

Beaver Creek Telephone Company, Limited.....	A-2728
Finnie, Leslie I.....	A-2600
Falconbridge Nickel Mines, Limited.....	A-2602
Goderich Municipal Telephone System (covering continuance of service via Clinton and Goderich).....	A-2921
International Nickel Company, Limited (to Froid Mine).....	A-2922
Ingersoll Telephone Company, Limited.....	A-3133
Lorne Power Company, Limited.....	A-2601
Lands and Forests (Department of), Ontario—Special Form.....	A-2717
McKillop Municipal Telephone System.....	A-2920
Ontario, Province of—Department of Lands and Forests—Special Form.....	A-2717
Oldfields Telephone Company, Limited.....	A-3049
Tuckersmith Municipal Telephone System (Connections via Seaforth, Clinton and Hensall).....	A-2919
Welland County Telephone Company, Limited.....	A-3116
Woodbridge & Vaughan Telephone Company, Limited.....	A-3117

THE ONTARIO RAILWAY AND MUNICIPAL BOARD
REPORT OF THE SUPERVISOR OF TELEPHONE SYSTEMS
FOR THE YEAR 1930

The following applications under the provisions of The Telephone Act were dealt with by the Board in 1930:

Under Section 7: For authority to issue debentures for extensions and improvements to telephone systems under Part I.....	1
Under Section 17: For authority to extend a municipal telephone system into another township.....	1
Under Section 19: For the approval of municipal by-laws providing for the establishment of telephone systems.....	3
Under Section 24: For the approval of municipal debenture by-laws to meet the cost of establishing or extending telephone systems.....	15
Under Section 25: For an extension of the period within which municipal debenture by-laws respecting telephone systems may be passed.....	1
Under Section 27: For authority to pass municipal debenture by-laws to meet the cost of reconstructing, replacing or altering telephone systems.....	2
Under Section 30: For authority to meet a portion of debenture payments each year by the issue of new debentures.....	2
Under Section 31: For the approval of the purchase of an existing telephone system by a municipality.....	3
Under Section 80: For the approval of municipal by-laws granting the right to erect poles and wires upon the highways.....	12
Under Section 84: For the right to erect poles and wires upon the highways in unorganized territory.....	2
Under Section 88: For the approval of the By-laws of a telephone company.....	4
Under Section 90: For an order requiring the reconstruction of a telephone system to ensure the provision of an efficient service.....	3
Under Section 93: For the consent to erection of poles and wires parallel with existing lines.....	4
Under Section 94: For an order preventing the duplication of pole leads upon the same highway.....	2
Under Section 95: For an order fixing the terms and conditions for furnishing service..	3
Under Section 97: For the approval of agreements providing for interchange of service	34
Under Section 102: For the approval of the sale of telephone systems.....	4
Under Section 103: For authority to increase the charges for telephone service.....	8
Under Section 110: For authority to expend a portion of the moneys set aside for depreciation upon new construction or extensions or in the purchase of securities....	10
Under Section 111: For authority to issue stocks and bonds.....	4
Total number of applications.....	118

The Board or its Supervisor of Telephone Systems during the year visited fifty-seven different points in the province in connection with the foregoing applications.

The continued policy of the Board in endeavouring to secure an amicable settlement of matters in dispute between the applicant and respondent has, with the assistance of the Board's Supervisor, proved successful in the majority of such cases.

In addition to the applications and complaints referred to a vast amount of correspondence relating to telephone matters has been dealt with by the Board's Supervisor, through the medium of which much information and assistance has been given to municipalities, companies and other persons interested, and many difficulties which might otherwise have necessitated a formal application and public hearing have been satisfactorily adjusted.

A number of points were visited by the Board's Inspector of Telephone Service during the year for the purpose of investigating complaints made by subscribers, and upon his report and recommendation the Board has been enabled to secure considerable improvement in the telephone service furnished by the systems coming under his observation.

The following changes in the ownership of telephone systems were made during the year:

- The Southern Ontario Telephone Company, Limited, purchased the undertakings of The Norfolk County Telephone Company, Limited, comprising 2054 telephones.
- The Erie Telephone Company, Limited, comprising 1,695 telephones.
- The South Norfolk Telephone Company, Limited, comprising 268 telephones.

The Chapeau Telephone System, Limited, purchased from The Bell Telephone Company of Canada the telephone system (automatic) at Chapeau, comprising 315 telephones.

Leslie Davis, trading as The Rankin Telephone Company, purchased from the Bell Telephone Company of Canada the local telephone system in Douglas, comprising 35 telephones.

Frank Lyons purchased from John Myers the Ardoch Rural Telephone System, comprising 56 telephones.

REPORT OF THE SUPERVISOR OF TELEPHONE SYSTEMS
FOR THE YEAR 1930—CONTINUED

James J. Vogan purchased from John D. Flake the Kaladar and Northern Telephone system, comprising 41 telephones.

The Municipality of Burpee (Manitoulin Island) purchased the telephone systems of the Elizabeth Bay Mutual Telephone Company (unincorporated) and the Evansville Mutual Telephone Company (unincorporated), comprising 33 telephones.

New systems were established, as follows:

By the Municipality of the Township of East Ferris, District of Nipissing, to be known as "The East Ferris Municipal Telephone System."

By the Municipality of the Township of Burpee, District of Manitoulin, to be known as "The Burpee Municipal Telephone System."

The number of telephone systems within the jurisdiction of Ontario of which the Board has record is 608, operating approximately 115,000 telephones, and representing an investment of about \$10,400,000.

There are eleven systems owned and operated by municipalities under the provisions of Part I of the Act, viz.: the cities of Fort William and Port Arthur, the towns of Cochrane, Dryden, Fort Frances, Kenora, Keewatin and Rainy River, and the townships of Alberton, Caledon and Hilliard.

One hundred and eighteen systems are now established and operating under Part II of the Act, and furnishing service in two hundred and sixty-seven towns, villages and townships.

Detailed statistics and other information relative to these systems will be found in the appendix to this report, entitled "Telephone Systems, 1931."

FRANCIS DAGGER,
Supervisor of Telephone Systems.

TARIFF OF FEES

TARIFF OF FEES PAYABLE IN CASH OR LAW STAMPS UNDER SECTIONS 61 AND 62 OF
"THE RAILWAY AND MUNICIPAL BOARD ACT"

For copy of any Document, 10 cents for each 100 words and 50 cents for each Certificate.
For copy of any map or plan, applicants are to pay draughtsmen's and engineer's fees for same and 50 cents for each Certificate.

In contentious matters, including arbitrations or references to the Board under Public General Acts of Ontario, requiring a Hearing, there shall be paid in Law Stamps the sum of \$15.00 for each day or fraction thereof over one half-day, and the sum of \$10.00 for each half-day or less occupied by or in connection with the Hearing, and \$1.00 on each original subpoena.

In all other arbitrations or references requiring a Hearing there shall be paid in Law Stamps the sum of \$50.00 for each day or fraction thereof over one half-day, and the sum of \$25.00 for each half-day or less occupied by or in connection with the Hearing, and \$1.00 on each original subpoena.

IN CASES IN WHICH THERE IS NO OPPOSING PARTY

ON ORDER under Section 304 of "The Municipal Act," validating a By-law and Debentures, the following sums shall be paid in Law Stamps:

(These fees shall be payable on each group of four By-laws (grouped by serial numbers) consolidated under "The Local Improvement Act.")

Where the issue of Debentures amounts to \$10,000 or less	\$15 00
Over \$10,000 and up to \$15,000	20 00
" 15,000 " 20,000	25 00
" 20,000 " 25,000	30 00
" 25,000 " 30,000	35 00
" 30,000 " 40,000	40 00
" 40,000 " 50,000	45 00
" 50,000 " 60,000	50 00
" 60,000 " 70,000	55 00
" 70,000 " 80,000	60 00
" 80,000 " 90,000	65 00
" 90,000 " 100,000	70 00
" 100,000 " 110,000	75 00
" 110,000 " 120,000	80 00
" 120,000 " 130,000	85 00
" 130,000 " 140,000	90 00
" 140,000 " 150,000	95 00
" 150,000 " 160,000	100 00
" 160,000 " 170,000	105 00
" 170,000 " 180,000	110 00
" 180,000 " 190,000	115 00
" 190,000 " 200,000	120 00
" 200,000, such sum as the Board may order or direct.	

The following sums shall be paid in Law Stamps on the following Orders and Certificates:

Approval of By-law for work ordered by Dominion or Ontario Railway Board—Section 297 (2) (f) of "The Municipal Act"	\$10 00
Approval of By-law for extension of Waterworks or Electric Light or Gasworks, etc.—Section 399 (2) of "The Municipal Act"	10 00
Approval of a plan under "The Railway Act"	5 00
Approval of Railway Fenders	5 00
Extension of time to pass a By-law—Section 288 (5) of "The Municipal Act"	5 00
Extension of Debenture Issue period—Section 296 (11) and (12) of "The Municipal Act"	5 00
Approval of Bridge Construction By-law—Section 297 (2) (e) of "The Municipal Act"	5 00
Approval of By-law changing the rate of interest on debentures—Section 300 of "The Municipal Act"	5 00
Repeal of By-law as to amount not required—Section 301 (2) of "The Municipal Act"	5 00
Approval of further debt and levies where tax rate too high—Section 306 (2) of "The Municipal Act"	5 00
Approval of Sinking Fund Investment By-law—Section 317 of "The Municipal Act"	5 00
Approval of Municipal Fuel By-law—Section 397 (38) of "The Municipal Act"	5 00
Approval of laying out of highway less than 66 feet in width—Section 490 of "The Municipal Act"	5 00
Approval of By-law abandoning part of local improvement work—Section 18 of "The Local Improvement Act"	5 00
Approval of plan of land subdivision	5 00
Approval of Railway Company's Public By-laws and Rules	2 00
Approval of Railway Company's Tolls and Tariffs	2 00
Approval of Railway Company's Examiner of Motormen	1 00

On Orders not included in the above list, such sums as the Board may order or direct.

TARIFF OF FEES—CONTINUED

TARIFF OF FEES PAYABLE IN LAW STAMPS IN PROCEEDINGS UNDER "THE TELEPHONE ACT"

ON ORDER:

Authorizing the passing of a By-law extending the period for repayment of debentures to cover the cost of telephone system established pursuant to Section 19, beyond 10 years; under Section 26.....	\$10 00
Authorizing the extension of a telephone system established pursuant to Section 19, into unorganized townships; under Section 18.....	5 00
Approving a Municipal By-law providing for the establishment or extension of telephone system; under Section 19.....	5 00
Extending the period within which debenture By-law to cover cost of establishing a telephone system pursuant to Section 19 may be passed; under Section 25.....	5 00
Authorizing a Municipal Council to pass a By-law for reconstruction, etc.; under Section 27.....	5 00
Authorizing a Municipal Council to pass a By-law for the issue of debentures for furnishing service to persons not being assessed land owners; under Section 28.....	5 00
Authorizing the passing of a By-law providing for the issue of new debentures to provide for the payment of a portion of the principal of the original debentures falling due in any year; under Section 30.....	5 00
Approving the purchase of telephone systems; under Sections 31 and 102.....	5 00
Approving Connecting Agreement with The Bell Telephone Company of Canada, Ltd.; under Section 97.....	5 00
Authorizing a Company to expend a portion of its Depreciation Reserve in new construction, etc.; under Section 110.....	5 00
Authorizing a Company to issue additional stock or bonds; under Section 111.....	5 00
Authorizing the removal of signatures from a petition praying for the establishment of a telephone system pursuant to Section 19; under Section 12.....	2 00
Granting the use of highways in unorganized townships; under Section 84.....	2 00
Approving the By-laws of a telephone company; under Section 88.....	2 00
Approving Connecting Agreement between telephone systems within the jurisdiction of Ontario; under Section 97.....	2 00
Approving regulations to prevent the misuse of system by subscribers; under Section 112.....	2 00
Approving Municipal By-law granting the use of highways; under Section 80.....	1 00
On any Order not included in the above list, such sums as the Board may order or direct.	

In contentious matters requiring a Hearing, \$15.00 for each day or fraction thereof over one half-day, and \$10.00 for each half-day or less occupied in connection with the Hearing, and \$1.00 on each original subpoena.

Where inquiry is made by the Board's expert, \$10.00 for each day or fraction thereof over one-half day, and \$5.00 for each half-day or less occupied in connection with such inquiry.

For copy of any Document, 10 cents for each 100 words, and 50 cents for each Certificate.

THE FOLLOWING GIVES A BRIEF SUMMARY OF THE EXTENSIONS AND IMPROVEMENTS MADE TO THE RAILWAYS UNDER PROVINCIAL JURISDICTION DURING THE YEAR 1930

BUFFALO & FORT ERIE FERRY AND RAILWAY COMPANY

It is reported by this company that during the year December 31st, 1929, to December 31st, 1930, that they did not make any extensions to track.

It is also reported that they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc., during that period.

CORNWALL STREET RAILWAY, LIGHT & POWER COMPANY, LIMITED

This company reports that during the year ending December 31st, 1930, that they did not make any extensions to track.

The total expenditure made during the same period on track improvements, overhead structure, rolling stock, buildings, machinery and on other improvements not enumerated was \$11,658.53.

FORT WILLIAM ELECTRIC RAILWAY

During the year beginning December 31st, 1929, to December 31st, 1930, there were no extensions made to tracks by this company.

The total expenditure made on track improvements, overhead structure, rolling stock, buildings, machinery and on any other improvements not enumerated, made the same year was \$16,245.47.

GUELPH RADIAL RAILWAY

It is reported that this company did not make any extension to tracks during the year December 31st, 1929, to December 31st, 1930.

They also report that expenditure made on track improvements, overhead structure, rolling stock, buildings, machinery, and on other improvements not enumerated, was \$26,081.08 during the same year.

THE HAMILTON STREET RAILWAY

There were no track extensions made by this company during the year December 31st, 1929, to December 31st, 1930.

They also report that there was no expenditure made on track improvements, overhead structure, rolling stock, buildings, machinery or on any other improvements during the same period.

HAMILTON, GRIMSBY AND BEAMSVILLE RAILWAY COMPANY, LIMITED

From December 31st, 1929, to December 31st, 1930, there were no track extensions made by the company.

No expenditure was made on track improvements, overhead structure, rolling stock, buildings, machinery or any other improvements during the same year.

NIAGARA FALLS PARK AND RIVER DIVISION OF INTERNATIONAL RAILWAY COMPANY

This company reports that there has been no track extensions made during the year of December 31st, 1929, to December 31st, 1930.

This company also reports that there was no expenditure made in this year on track improvements, overhead structure, rolling stock, buildings, machinery or on any other improvements.

INTERNATIONAL TRANSIT COMPANY

It is reported by this company that there were no track extensions made during the year of December 31st, 1929, to December 31st, 1930.

It is also reported by this company that there has been no expenditure made on track improvements, overhead structure, rolling stock, buildings, machinery or any other improvements during the year of December 31st, 1929, to December 31st, 1930.

KITCHENER AND WATERLOO AND BRIDGEPORT RAILWAY

During the year of December 31st, 1929, to December 31st, 1930, there were no track extensions made.

It is reported that the expenditure made on track improvements, overhead structure, rolling stock, buildings, machinery and on other improvements, the total of which is \$1,246.83.

LONDON STREET RAILWAY

There were no track extensions made by this company during the year of December 31st, 1929, to December 31st, 1930.

This company reports that there was no expenditure on track improvements, overhead structure, rolling stock, buildings, machinery. There were buses purchased to the value of \$92,746.83.

THE MIDLAND SIMCOE RAILWAY COMPANY

This company has not made any new track extensions during the year December 31st, 1929, to December 31st, 1930.

There was no expenditure made on track improvements, overhead structure, rolling stock, buildings, machinery or on any other improvements during that year.

MOUNT MCKAY AND KAKABEKA FALLS RAILWAY COMPANY

During the year of December 31st, 1929, to December 31st, 1930, there were no track extensions made.

This company also reports that there was no expenditure made on track improvements, overhead structure, rolling stock, buildings, machinery, or on any other improvements during this period.

NIAGARA PENINSULAR RAILWAY COMPANY

It is reported by this company that there were no track extensions made during the year of December 31st, 1929, to December 31st, 1930.

This company reports that they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc.

NORTH YONGE RAILWAY

Reported—See last item.

PORT ARTHUR CIVIC RAILWAY

During the year December 31st, 1929, to December 31st, 1930, this company did not make any extension to track.

During the same period it is reported that there was no expenditure made on track improvements, overhead structure, rolling stock, buildings, machinery, etc.

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY

This company reports that during the year ending December 31st, 1930, no extensions were made to track.

They report a total expenditure during the same period on track improvements, overhead structure, rolling stock, buildings, machinery, etc.

SARNIA STREET RAILWAY COMPANY, LIMITED

It is reported that during the year December 31st, 1929, to December 31st, 1930, this company did not make any track extensions.

They report, however, a total expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc., of \$7,671.20.

SUDBURY—COPPER CLIFF ELECTRIC RAILWAY

Not Reported.

TEMISKAMING AND NORTHERN ONTARIO RAILWAY

During the year December 31st, 1929, to December 31st, 1930, it is reported by this company that they extended the tracks of the above railway at a cost of \$2,207,440.87.

They also report a total expenditure on track improvement, overhead structure, rolling stock, buildings, machinery, etc., of \$327,010.05.

THURLOW RAILWAY COMPANY

It is reported that during the year ending December 31st, 1930, this company did not make any extensions to track.

They also report that there was no expenditure made on track improvement, overhead structure, rolling stock, buildings, machinery, etc., during the same period.

THE TILLSON SPUR LINE RAILWAY

This company reports that they did not make any track extensions during the year December 31st, 1929, to December 31st, 1930.

They also report that there was no expenditure on track improvement, overhead structure, rolling stock, buildings, machinery, etc., during that year.

TORONTO RADIAL RAILWAYS

Operation of this railway abandoned March 15th, 1930, and assets transferred to City of Toronto for liquidation, with exception of 11.801 single track miles between north limits of City of Toronto on Yonge Street to Village of Richmond Hill sold to North Yonge Railways.

TOWNSHIP OF YORK AND WESTON RAILWAYS

It is reported by the Toronto Transportation Commission now operating the above railways that they did not make any extension to track during the year December 31st, 1929, to December 31st, 1930.

It is also reported by this company that there was no expenditure made on track improvement, overhead structure, rolling stock, buildings and machinery, during this period.

NORTH YONGE RAILWAYS

The Toronto Transportation Commission, who now operate the above railway report that they did not make any extension to tracks during the year ending December 31st, 1930.

They also report that during the same year they did not make any expenditure on track improvement, overhead structure, rolling stock, buildings, machinery, etc.

WENTWORTH INCLINE RAILWAYS

No Report.

ELECTRIC, STEAM AND INCLINE RAILWAYS UNDER PROVINCIAL JURISDICTION, YEAR ENDING 31st DECEMBER, 1930

No.	Name of Railway	Length of road first main track	Length of road second main track	Total main track	Length of sidings and turnouts	Total computed as single track	Length under construction	No. Power Houses		Remarks
								Steam	Water	
*1	Buffalo and Fort Erie Ferry & Railway Company.....	miles 2.71	miles	miles 2.71	miles .89	miles 3.60	miles			
2	Cornwall St. Railway, Light and Power Company, Ltd....	4.50	.....	4.50	2.	6.50	.....	1		Power purchased from St. Lawrence Power Co.
3	Fort William Electric Ry.....	4.935	19.695	24.630	.866	25.496	.....			Power purchased from Hydro-Electric Power Commission, Fort William.
†4	Guelph Radial.....	7.49	.....	7.49	1.56	9.05	.....			Power purchased from Light and Heat Commissioners, Guelph.
5	Hamilton Street.....	18.	16.3	34.3	.....	34.3	.....			Power purchased from Hamilton Cataract Power, Light & Traction Co., Ltd.
6	Hamilton and Dundas.....	5.85	.20	6.05	1.60	7.65	.....			Not in operation at present.
7	Hamilton, Grimsby & Beamsville Electric.....	22.6	.....	22.6	3.6	26.2	.....			Power purchased from Hamilton Cataract Power, Light & Traction Co., Ltd.
*8	Hamilton & Barton (Incline).	.12	.12	.24	.....	.24	.....	1		At head of Incline.
*9	Huntsville and Lake of Bays..	1.45	.....	1.45	.31	1.76	.....		
.10	Hydro-Electric Radials (Essex Division) S.W. & A. Ry.....	43.933	12.542	56.475	3.841	60.316	.....			Power purchased from Hydro-Electric Power Commission of Ontario.
11	International Rly. (Niagara Falls Park & River Division)	11.649	10.973	22.622	1.314	23.936	.....	1		Power purchased from the Great Lakes Power Co., Ltd.
12	International Transit.....	3.80	1.17	4.97	.09	5.06	.....			Power purchased from Hydro-Electric Power Commission of Ontario.
13	Kitchener-Waterloo Street Ry.	6.55	2.86	9.41	.84	10.35	.....		
*14	Lake Huron and Northern Ontario Railway.....	16.	.....	16.	1.	17.	.....			Not in operation at present.

15	London Street Railway.....	20.26	7.41	20.26	.98	28.65			Power purchased from the Public Utilities Commission, London.
*16	Midland Simcoe Railway Co..	1.		1.	4.	5.			Leased to and operated by City of Fort William.
17	Mount McKay and Kakabeka Falls.....	5.		5.	1.50	6.50			
*18	Niagara Peninsular.....	3.325		3.325	2.115	5.440			
20	North Yonge Railway.....	10.342		10.342	1.459	11.801			
21	Port Arthur Municipal Ry....	13.43	6.10	19.53	1.04	20.57			Power purchased from Hydro-Electric Power Commission of Ontario.
22	Sarnia Street Ry. Co., Ltd....	4.50	4.50	9.	.25	9.25			One Hydro-Electric Power House, Power purchased from Hydro-Electric Power System of Sarnia.
23	Sudbury-Copper Cliff Suburban Electric.....	7.9		7.9	.03	8.2	1		Power purchased from Wahnapitae Power Company.
*24	Temiskaming & Northern Ontario Railway.....	442.3	1.70	444.	138.04	582.04	90.	1	At North Bay. Power purchased from Hydro-Electric Power Commission of Ontario, Northern Ontario Power Co., Ltd., and Public Utilities Commission, Town of Cochrane.
*25	Thurlow Railway.....	2.671		2.671	4.666	7.337			Operated by C.N.R.
26	Tillson Spur Line Railway Co.	1.010			.051	1.061			
27	Toronto Transportation Commission.....	119.455	102.092	221.547	32.181	253.728			Power purchased from the Toronto Hydro-Electric System.
*28	Toronto Radial Railways.....								Power purchased from Hydro-Electric Power Commission of Ontario (abandoned).
†29	Township of York and Weston Railways.....	8.063	6.002	14.065	.148	14.213			Power purchased from the Toronto Transportation Commission.

*Steam railways.

†Operation abandoned March 15th, 1930.

‡Operated by The Toronto Transportation Commission, the Toronto and York Radial Railways having been taken over on January 12th, 1927.

ELECTRIC, STEAM AND INCLINE RAILWAYS UNDER PROVINCIAL JURISDICTION, YEAR ENDING 31st DECEMBER, 1930

No.	Name of Railway	Length of road first main track miles .14	Length of road second main track miles .14	Total main track miles .28	Length of sidings and turnouts miles	Total computed as single track miles .28	Length under construction miles	No. Power Houses		Remarks
								Steam	Water	
§ 30	Wentworth Incline Ry., Ltd.									Power purchased from Hamilton Hydro-Electric System. One electric power house, Mountain Top, Hamilton.
	Total.....	788.983	191.804	957.367	205.371	1,185.528	90.	2	3	

§Formerly Hamilton Mountain Park Company, Ltd.

TABULATED SUMMARY OF ACCIDENT REPORTS RECEIVED IN 1930

Passengers	Employees		Travellers on Highways		Travellers at Crossings		Trespassers		Total	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Killed										
Injured										
6	1	15	15	178	.....	.....	.....	.....	22	899

TORONTO, 1930

Summary by months of all accidents on lines of the Toronto Transportation Commission from January 1st to December 31st, 1930

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Collisions with cars.....	Nil	4	2	2	1	2	2	1	1	1	1	1	18
Collisions with autos.....	432	438	382	302	360	261	360	285	310	285	395	435	4,245
Collisions with motorcycles and bicycles.....	3	2	6	6	8	14	3	1	14	3	5	2	67
Collisions with wagons.....	14	10	2	5	16	1	3	4	3	6	4	4	72
Boarding cars.....	17	20	16	11	13	5	7	3	13	4	12	17	138
Alighting from cars.....	11	14	15	13	12	17	20	14	13	11	13	15	168
Falling within cars.....	77	77	44	42	23	16	32	15	24	30	26	56	462
Derailment of cars.....	1	1	Nil	Nil	Nil	Nil	1	Nil	Nil	Nil	Nil	Nil	3
Miscellaneous.....	49	78	53	43	47	38	55	27	45	33	54	44	566
Total, all accidents.....	604	644	520	424	480	354	483	350	432	373	510	574	5,739
Personal injuries, all degrees:													
To passengers.....	93	103	65	52	48	41	64	34	51	41	55	81	728
To others.....	8	26	22	22	8	11	8	4	9	12	9	5	144
Total.....	101	129	87	74	56	52	72	38	60	53	64	86	872
Fatal accidents:													
To passengers.....	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
To others.....	1	Nil	1	2	1	Nil	2	1	2	Nil	2	2	14
Total.....	1	Nil	1	2	1	Nil	2	1	2	Nil	2	2	14

NOTE:—Fatal accidents in year 1930 was 14, as compared with 24 in 1929, or 10 less in 1930.
Personal injuries in year 1930 was 872, as compared with 1,063 in 1929, or 191 less in 1930.

HAMILTON, 1930

Accidents on Hamilton Street Railway, and Hamilton, Grimsby and Beamsville Electric
Railway Lines

From January 1st to December 31st, 1930

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Collisions with cars.....	Nil	Nil	Nil	Nil	Nil	1	Nil	Nil	Nil	1	Nil	Nil	2
Collisions with autos.....	42	39	40	55	76	18	55	47	30	30	27	31	490
Collisions with motorcycles and bicycles.....	Nil	Nil	Nil	Nil	1	Nil	1	Nil	Nil	1	Nil	1	4
Collisions with wagons.....	2	Nil	1	Nil	1	Nil	1	Nil	Nil	1	1	Nil	7
Boarding cars.....	Nil	Nil	Nil	Nil	1	Nil	Nil	Nil	Nil	1	Nil	Nil	2
Alighting from cars.....	Nil	2	1	1	Nil	Nil	Nil	Nil	Nil	3	1	Nil	8
Derailment of cars.....	Nil	Nil	Nil	Nil	1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1
Miscellaneous.....	1	1	1	2	1	Nil	3	Nil	Nil	1	2	1	13
Total, all accidents....	45	42	43	58	81	19	60	47	30	38	31	33	527
Personal injuries, all degrees:													
To passengers.....	Nil	3	2	2	3	1	2	Nil	2	4	1	1	21
To others.....	1	Nil	Nil	Nil	1	Nil	2	Nil	1	Nil	2	1	8
Total.....	1	3	2	2	4	1	4	Nil	3	4	3	2	29
Fatal accidents:													
To passengers.....	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
To others.....	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total.....	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

NOTE:—Fatal accidents in year 1930 was nil, compared with 2 in year 1929, or less 2 in 1930.
Personal injuries in year 1930 was 29, compared with 38 in year 1929, or 9 less in 1930.

LONDON, 1930

Accidents on London Street Railway
From January 1st to December 31st, 1930

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Collisions with cars.....	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Collisions with autos.....	38	55	34	25	56	19	54	36	28	34	64	43	486
Collisions with motorcycles and bicycles.....	1	Nil	Nil	Nil	1	Nil	Nil	2	Nil	2	Nil	2	8
Collisions with wagons.....	1	1	Nil	Nil	1	Nil	1	1	Nil	Nil	1	2	8
Boarding cars.....	1	1	Nil	1	1	2	1	2	Nil	1	2	1	13
Alighting from cars.....	5	2	3	2	5	2	Nil	2	Nil	2	4	7	34
Derailment of cars.....	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Miscellaneous.....	3	1	2	1	5	2	5	3	2	2	5	4	35
Total, all accidents....	49	60	39	29	69	25	61	46	30	41	76	59	584
Personal injuries, all degrees:													
To passengers.....	6	1	1	3	6	1	3	4	Nil	4	6	5	40
To others.....	1	1	2	Nil	2	2	5	3	3	4	3	4	30
Total.....	7	2	3	3	8	3	8	7	3	8	9	9	70
Fatal accidents:													
To passengers.....	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
To others.....	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total.....	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

NOTE:—Fatal accidents in year 1930 was nil, compared with 2 in year 1929, or 2 less in 1930.
Personal injuries in year 1930 was 70, as compared with 44 in year 1929, or 26 more in 1930.

INDEX TO RAILWAY LEGISLATION

The following index has been made with the object of continuing in chronological order all the legislation passed by the Dominion and Provincial Governments since 1867, affecting railways situated wholly or partially within the Province of Ontario.

"List No. 2" was commenced on page 272 of our Ninth Annual Report (1914), and is continued in the following list up to and inclusive of 1930.

	Chap.	Year
ALGOMA CENTRAL AND HUDSON BAY RAILWAY COMPANY:		
Dominion Statute.....	78	1927
Dominion Statute.....	51	1930
Act respecting.		
BRANTFORD MUNICIPAL RAILWAY SYSTEM:		
Ontario Statute.....	112	1920
Act respecting City of Brantford.		
Ontario Statute.....	83	1925
Act respecting City of Brantford.		
BELLEVILLE-PRINCE EDWARD BRIDGE COMPANY:		
Dominion Statute.....	95	1899
Act to incorporate.		
Dominion Statute.....	85	1908
Act respecting.		
Dominion Statute.....	60	1918
Act respecting.		
BERLIN AND WATERLOO STREET RAILWAY:		
Ontario Statute.....	58	1907
Act respecting Town of Berlin.		
BRUCE MINES AND ALGOMA RAILWAY COMPANY:		
Ontario Statute.....	25	1919
Act respecting.		
See Lake Huron and Northern Ontario Railway Company.		
BRUNNER MOND CANADA, LIMITED:		
(Incorporated by Letters Patent under R.S.C. 1906, Chap. 79).		
Ontario Statute.....	116	1919
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BUFFALO AND FORT ERIE FERRY AND RAILWAY COMPANY:		
Ontario Statute.....	101	1916
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BUFFALO AND FORT ERIE PUBLIC BRIDGE COMPANY:		
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CAMPBELLFORD, LAKE ONTARIO AND WESTERN RAILWAY COMPANY—		
Ontario Statute.....	93	1917
See Act respecting Town of Trenton.		
CANADA SOUTHERN RAILWAY COMPANY:		
Dominion Statute.....	77	1924
Act respecting.		
Note leased to Michigan Central Railway.		
Ontario Statute.....	96	1930
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CANADIAN NATIONAL RAILWAY COMPANY:		
Dominion Statute.....	13	1919
See Canadian Northern Railways.		
Dominion Statute.....	6	1923
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Dominion Statute.....	7	1923
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Dominion Statute.....	37	1923
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Ontario Statute.....	75	1923
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	Chap.	Year
<i>CANADIAN NATIONAL RAILWAY COMPANY—Continued</i>		
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Ontario Statute	95	1923
See Act respecting City of Toronto.		
Dominion Statute	39	1920
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Dominion Statute	28	1925
See Act respecting Toronto Terminals Railway Company.		
Ontario Statute	99	1925
See Act respecting Owen Sound.		
<i>CANADIAN NATIONAL RAILWAYS:</i>		
Dominion Statute	14	1927
See Act respecting construction of a line between Pilkington and Niagara Junction in the Province.		
Ontario Statute	138	1927
See Act respecting East York—Leaside Viaduct.		
Ontario Statute	126	1927
See schedule A, paragraph (4).		
See City of Sarnia Act respecting.		
Dominion Statute	13	1924
An Act to amend.		
Ontario Statute	82	1930
See an Act respecting City of Hamilton.		
Ontario Statute	84	1930
See Act respecting City of Kingston.		
See paragraph 5, schedule "A."		
Ontario Statute	86	1930
See Act respecting City of London.		
Dominion Statute	8	1930
Act respecting, see (A) in schedule.		
Dominion Statute	46	1930
See Act respecting Toronto Terminals.		
Ontario Statute	106	1930
See Act respecting City of Toronto.		
Ontario Statute	107	1930
See Schedules.		
Ontario Statute	109	1930
See Act respecting Township of York.		
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Dominion Statute	11	1928
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Dominion Statute	10	1929
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Dominion Statute	11	1929
Act respecting.		
Dominion Statute	12	1929
Act respecting.		
Dominion Statute	21	1929
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Dominion Statute	22	1929
Act respecting.		
Dominion Statute	33	1929
Act respecting.		
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Ontario Statute	119	1924
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Ontario Statute	108	1924
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<i>CANADIAN NORTHERN RAILWAY COMPANY:</i>		
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Ontario Statute	85	1917
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	Chap.	Year
<i>CANADIAN NORTHERN RAILWAY COMPANY—Continued</i>		
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<i>CANADIAN NORTHERN ONTARIO RAILWAY COMPANY:</i>		
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Ontario Statute.....	93	1917
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<i>CANADIAN NORTHERN ONTARIO RAILWAY COMPANY:</i>		
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<i>CANADIAN NIAGARA BRIDGE COMPANY:</i>		
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Dominion Statute.....	76	1923
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Dominion Statute.....	56	1921
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Ontario Statute.....	80	1923
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Ontario Statute.....	123	1924
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Ontario Statute.....	138	1927
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Ontario Statute.....	109	1930
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<i>CANADIAN TERMINAL SYSTEM, LIMITED, AND THE CITY OF FORT WILLIAM:</i>		
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<i>CANADIAN TRANSIT COMPANY:</i>		
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Dominion Statute.....	56	1922
Act respecting.		
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	Chap.	Year
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DETROIT RIVER CANADIAN BRIDGE COMPANY:		
Dominion Statute.	58	1928
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DETROIT RIVER TUNNEL COMPANY:		
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Ontario Statute.	126	1929
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DETROIT AND WINDSOR SUBWAY COMPANY:		
Dominion Statute.	83	1927
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DULUTH AND ONTARIO RAILWAY COMPANY:		
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ENGLISH VALLEY AND HUDSON BAY RAILWAY COMPANY:		
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ESSEX TERMINAL RAILWAY COMPANY:		
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Dominion Statute.	60	1925
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FORT WILLIAM MUNICIPAL RAILWAY:		
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Ontario Statute.	119	1921
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GEORGIAN BAY AND SEABOARD RAILWAY COMPANY:		
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GRAND RIVER RAILWAY COMPANY:		
Dominion Statute.....	85	1919
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GRAND TRUNK RAILWAY:		
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Dominion Statute.....	9	1921
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GRAND TRUNK RAILWAY SYSTEM:		
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Dominion Statute.....	13	1920
(Note.—See names of all companies controlled by the System).		
GRAND TRUNK PACIFIC RAILWAY SYSTEM:		
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GRAND VALLEY RAILWAY:		
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GUELPH RADIAL RAILWAY COMPANY:		
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Ontario Statute.....	105	1921
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Ontario Statute.....	40	1923
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HALIBURTON, WHITNEY AND MATTAWA RAILWAY COMPANY:		
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INTERNATIONAL TRANSIT COMPANY:		
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KENORA AND ENGLISH RIVER RAILWAY COMPANY:		
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LAKE ERIE AND DETROIT RIVER RAILWAY:		
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LAKE HURON AND NORTHERN ONTARIO RAILWAY COMPANY:		
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LONDON STREET RAILWAY COMPANY:		
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Act respecting City of London (See Sec. 6).		
Ontario Statute	27	1917
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Ontario Statute	141	1924
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LONDON AND LAKE ERIE RAILWAY AND TRANSPORTATION COMPANY:		
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LONDON AND PORT STANLEY RAILWAY COMPANY:		
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Dominion Statute	60	1888
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Dominion Statute	38	1897
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Ontario Statute	75	1917
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Ontario Statute	65	1918
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Dominion Statute	89	1919
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Ontario Statute	95	1925
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Ontario Statute	106	1929
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Ontario Statute	86	1930
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LONDON AND SOUTHEASTERN RAILWAY COMPANY:		
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	Chap.	Year
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MICHIGAN CENTRAL RAILWAY COMPANY:		
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MOUNT MCKAY AND KAKABEKA FALLS RAILWAY COMPANY:		
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Ontario Statute.....	142	1922
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Ontario Statute.....	111	1926
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Ontario Statute.....	115	1928
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NIAGARA RIVER BRIDGE COMPANY:		
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NIAGARA ST. CATHARINES AND TORONTO RAILWAY COMPANY:		
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NIPISSING CENTRAL RAILWAY COMPANY:		
Dominion Statute.....	56	1918
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Dominion Statute.....	80	1923
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Ontario Statute.....	22	1925
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Ontario Statute.....	132	1921
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	Chap.	Year
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ONTARIO WEST SHORE RAILWAY COMPANY:		
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OSHAWA RAILWAY COMPANY:		
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Ontario Statute.	113	1924
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OTTAWA, CITY OF, OTTAWA ELECTRIC RAILWAY COMPANY:		
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OTTAWA ELECTRIC RAILWAY COMPANY:		
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Dominion Statute.	84	1924
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Dominion Statute.	63	1925
Act respecting.		
Dominion Statute.	58	1930
Act respecting.		
Ontario Statute.	119	1927
See Act respecting City of Ottawa.		
OTTAWA AND NEW YORK RAILWAY COMPANY:		
Ontario Statute.	116	1920
Respecting railway and Township of Cornwall.		
OTTAWA, NORTHERN AND WESTERN RAILWAY COMPANY:		
Dominion Statute.	91	1919
Act respecting.		
Dominion Statute.	69	1921
Act respecting.		
Dominion Statute.	81	1923
Act respecting.		
OTTAWA STREET INCLINE RAILWAY COMPANY:		
Ontario Statute.	143	1922
Act to incorporate.		
PARRY SOUND AND NORTHERN ONTARIO RAILWAY COMPANY:		
Ontario Statute.	124	1925
Act to incorporate.		
PERE-MARQUETTE RAILWAY COMPANY:		
Ontario Statute.	107	1930
See Schedules.		
Ontario Statutes.	76	1930
See Act respecting Essex Border Utilities.		
PETERBOROUGH RADIAL RAILWAY COMPANY:		
Ontario Statute.	83	1917
See Act City of Peterborough.		
PORCUPINE RAN BELT ELECTRIC RAILWAY COMPANY:		
Ontario Statute.	154	1920
An Act respecting Extension of Time.		
PORT ARTHUR MUNICIPAL RAILWAY:		
Ontario Statute.	27	1917
See Section 71, Statute Law Amendment Act.		
Ontario Statute.	119	1921
See Act Port Arthur and Fort William.		

	Chap.	Year
SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY COMPANY:		
Ontario Statute.....	144	1922
Act respecting.		
Ontario Statute.....	114	1925
See Walkerville Paving (\$7,337.82).		
Ontario Statute.....	117	1925
See Windsor Paving (\$45,231.40).		
Ontario Statute.....	95	1930
See Act Town of Sandwich.		
See Schedules to Act.		
Ontario Statutes.....	17	1930
Act respecting.		
SARNIA STREET RAILWAY COMPANY:		
Ontario Statute.....	92	1926
Act respecting City of Sarnia (Section 2).		
ST. CLAIR TRANSIT COMPANY:		
Dominion Statute.....	64	1928
Act to incorporate.		
Dominion Statute.....	64	1930
Act respecting.		
Dominion Statute.....	59	1930
Act respecting.		
SAULT STE. MARIE ELECTRIC LIGHT AND TRANSIT COMPANY:		
Ontario Statute.....	71	1901
(Name changed to the International Transit Co.)		
See Act respecting Sault Ste. Marie.		
SCHOMBERG AND AURORA RAILWAY COMPANY:		
Ontario Statute.....	24	1921
See Act to purchase by H.E.P.C.		
SIMCOE RAILWAY AND POWER COMPANY:		
Ontario Statute.....	20	1917
See Schedule "B" Power Commission Act.		
SUDBURY-COPPER CLIFF SUBURBAN ELECTRIC RAILWAY:		
Ontario Statute.....	94	1916
See Act Town of Sudbury.		
Ontario Statute.....	119	1919
Act respecting.		
TEMISKAMING AND NORTHERN ONTARIO RAILWAY:		
Ontario Statute.....	25	1919
Section 5, Salary Increase.		
Ontario Statute.....	17	1920
Act to provide for an extension.		
Ontario Statute.....	22	1925
Act to amend.		
Ontario Statute.....	16	1927
Act respecting.		
See Section 27 and others, re Nipissing Railway.		
THOUSAND ISLANDS RAILWAY COMPANY:		
Dominion Statute.....	72	1921
Act respecting.		
TIMBER PRODUCTS RAILWAY:		
Ontario Statute.....	111	1930
See C.P. and C.N.R. connections.		
TORONTO, CITY OF:		
Ontario Statute.....	144	1920
Act respecting, to establish a Transportation Commission.		
TORONTO, HAMILTON AND BUFFALO RAILWAY:		
Dominion Statute.....	50	1916
Act respecting.		
Dominion Statute.....	58	1917
Act respecting.		
Dominion Statute.....	57	1918
Note.—Hamilton and Dundas Railway Agreement.		

	Chap.	Year
TORONTO, NIAGARA AND WESTERN RAILWAY COMPANY:		
Dominion Statute.....	51	1916
Act respecting.....		
Dominion Statute.....	58	1918
Act respecting.....		
TORONTO RAILWAY COMPANY:		
Ontario Statute.....	92	1917
See Act respecting Toronto 200 cars.		
See Schedule "G."		
TORONTO RADIAL RAILWAYS ACT:		
Ontario Statute.....	113	1926
Transfer of the Hydro-Electric Radial Railways to the City of Toronto.		
(See Dominion Statute, Section 2, Chap. 81, 1900).		
Ontario Statute.....	23	1929
(See Law Amendment Act, Section 20).		
TORONTO RADIAL RAILWAYS:		
Ontario Statute.....	58	1927
Act respecting.....		
TORONTO SUBURBAN RAILWAY COMPANY:		
Ontario Statute.....	92	1917
Act respecting City of Toronto.		
Ontario Statute.....	94	1918
See Act respecting City of Toronto.		
Ontario Statute.....	110	1919
Section 3 and Schedule "D" (1) Act re Toronto.		
Ontario Statute.....	35	1922
An Act to purchase T.S.R. by H.E.P.C.O. on behalf of the City of Toronto.		
Ontario Statute.....	95	1923
See Act respecting City of Toronto.		
Ontario Statute.....	115	1925
See Act respecting Town of Weston.		
Ontario Statute.....	121	1925
See Act respecting Township of York.		
TORONTO TERMINALS RAILWAY COMPANY:		
Dominion Statute.....	70	1924
Act respecting.....		
Dominion Statute.....	28	1925
Act respecting.....		
Dominion Statute.....	29	1925
Act respecting.....		
Dominion Statute.....	70	1924
See date of form, 1st December, 1924.		
(Vol. 58, page 1615).		
(See last page of Prefix Statute, 1925).		
Dominion Statute.....	51	1928
Act respecting.....		
Dominion Statute.....	73	1929
Act respecting.....		
TORONTO TRANSPORTATION COMMISSION:		
Ontario Statute.....	144	1920
See Act respecting City of Toronto.		
Ontario Statute.....	133	1922
Act respecting.....		
Ontario Statute.....	139	1922
See Act respecting Township of York.		
Ontario Statute.....	115	1925
See Act of Town of Weston.		
Ontario Statute.....	121	1925
See Act respecting Township of York.		
Ontario Statute.....	99	1926
(Beck Memorial Fund, \$10,000).		
See Act respecting City of Toronto.		

	Chap.	Year
TORONTO TRANSPORTATION COMMISSION—Continued		
Ontario Statute.....	105	1926
See Act Town of Weston, Township of York and T.T.C.		
Ontario Statute.....	113	1926
An Act authorizing certain transfers of the Hydro-Electric Radial Railways.		
Ontario Statute.....	134	1927
See Act respecting City of Toronto.		
Ontario Statute.....	124	1929
See Act respecting City of Toronto.		
TORONTO AND NORTHWESTERN RAILWAY COMPANY:		
(Formerly Huron and Ontario Railway).		
Dominion Statute.....	135	1913
TORONTO AND YORK RADIAL RAILWAY COMPANY:		
Ontario Statute.....	126	1912
See Act respecting City of Toronto.		
Ontario Statute.....	92	1917
See Act respecting City of Toronto.		
Ontario Statute.....	23	1921
See Act respecting the purchase by the City of Toronto of the Assets of certain companies.		
Ontario Statute.....	24	1921
See Act authorizing purchase and operation of certain radials by H.E.P.C. of Ontario by City.		
Ontario Statute.....	90	1930
(Metropolitan Division).		
See Act respecting Township of North York.		
TOWNSHIP OF YORK RAILWAYS:		
Ontario Statute.....	139	1922
See Act respecting.		
WATERLOO-WELLINGTON RAILWAY COMPANY:		
Ontario Statute.....	115	1919
(Formerly Berlin and Northern Railway).		
Ontario Statute.....	145	1922
(Re railway fares).		
Note.—Purchase by the City of Kitchener.		
WELLAND AND PORT COLBORNE RAILWAY COMPANY:		
Ontario Statute.....	112	1926
An Act to incorporate.		
WINDSOR, ESSEX AND LAKE SHORE RAPID RAILWAY COMPANY:		
Ontario Statute.....	99	1928
An Act to authorize the purchase and operation.		
Ontario Statute.....	56	1929
Act respecting.		

FORMS

FORM THAT MAY BE USED IN CONNECTION WITH THE EXAMINATION OF MOTORMEN

Name of City or Town
..... 193

NAME OF RAILWAY

This is to certify that, acting under The Railway Act, 1927, R.S.O., Chapter 224, Section 265, I have fully examined the.....who is.....years of age and.....feet.....inches high, weighs.....lbs., complexion....., as to his fitness as a motorman, that the said.....is of steady habits, and is in physical ability, intelligence and general knowledge of, and experience in, this work qualified to act as motorman on any electric motor car of said Company.

I have been duly appointed an examiner under the said Act, my appointment being dated
Name.....
Examiner.

FORM TO BE USED BY COMPANIES IN REPORTING ACCIDENTS

ACCIDENTS: Regulations under and in pursuance of Sections 275 and 276 of "The Railway Act, 1927." R.S.O., Chapter 224.

ACCIDENTS.—Every company upon the happening of an accident shall give to the Ontario Railway and Municipal Board notice thereof in writing by delivering the same at the office of the Board in the City of Toronto or by mailing it, postage prepaid, in a registered letter addressed to the Board.

Such notice shall contain a statement signed by a duly authorized officer of such company, setting forth the information and particulars hereinafter mentioned.

Such statement shall be divided into paragraphs, each of which shall include and refer to one (or one group) only of the numbered particulars hereinafter mentioned, and the paragraph referring to each respective numbered particular shall bear the number corresponding to the number hereinafter given for each such particular.

The numbers of paragraphs and the particulars to which each shall refer as aforesaid are as follows:

1. Name or names of company or companies concerned in accident.
2. Numbers of train, engine, car or motor.
3. Date and time of accident.
4. Nature of accident.
5. Exact location.
6. Name in full, address and legal addition of each person injured or killed.
7. Age.
8. Married or single.
9. Passenger, employee or other.
10. If employee, length and nature of service with dates and periods of different occupations (if more than one).
11. If employee, character, experience, skill and fitness with respect to occupation at time of accident.
12. How engaged at time of accident, and how long on duty.
13. Cause of accident, how same occurred, with full particulars and details, and diagram if required.
14. Persons in charge, with full names, addresses and the particulars referred to in paragraphs 10, 11 and 12.
15. Result to person and particulars of injury.
16. Result to property, including amount of damage.
17. Names and addresses of all persons present at, or eye-witnesses of, the accident.
18. What investigation (if any), and result of same.
19. Verdict (if any).

The Board reserves the right to require such further and other details, particulars, maps, plans, profiles, documents, models and information, or illustration of any kind as to the nature of the accident and a full understanding thereof may suggest or require.

In pursuance of Sections 275 and 276 of said Act, the Board declares that all such information so given in pursuance of this regulation shall be privileged.

Signature of Officer.

N.B.—Give name of officer who fills out this report.

REGULATIONS

REGULATION AS TO HEIGHT OF CAR STEPS

Under and in pursuance of a certain order of the Board bearing date the 2nd day of June, A.D. 1909, The Ontario Railway and Municipal Board made the following regulations:

The steps on all cars hereafter constructed and used by The Toronto Railway Company and all other street and electric railways under the jurisdiction of this Board shall have steps conforming to the following regulations:

On closed single truck cars the height of the first step above the ground shall not be less than twelve nor more than fifteen inches.

On closed double truck cars the height of the first step above the ground shall not be less than fourteen nor more than sixteen inches.

On open single truck cars the height of the first step above the ground shall be not less than twelve nor more than fifteen inches, and the distance between the first and second steps and the second step and the floor of the car shall measure twelve inches and nine inches respectively.

On open double truck cars, the height of the first step above the ground shall be not less than fourteen nor more than sixteen inches, and the distance between the first and second steps and the second step and the floor of the car shall measure twelve inches and fourteen inches respectively.

REGULATION RE DRINKING WATER ON PASSENGER CARS

Every Electric Railway Company in Ontario, subject to the jurisdiction of the Board, shall provide in each passenger car which runs 20 miles or more, a suitable receptacle for water with paper cups attached upon or near such receptacle, and shall keep such receptacle, while the car is in use, constantly supplied with cool drinking water for the use of passengers and the conductor and motorman in charge of such car.

This regulation shall not apply to street railways in towns or cities.

(Sgd.) C. R. McKEOWN,
Chairman.

(Sgd.) A. B. INGRAM,
Vice-Chairman.

(Sgd.) J. A. ELLIS,
Commissioner.

Dated at Toronto, this 10th day of April, A.D. 1929.

SINCE ORGANIZING THE ONTARIO SAFETY LEAGUE IN 1913 BY THE ONTARIO RAILWAY AND MUNICIPAL BOARD, IT HAS PROVIDED SPACE IN ITS ANNUAL REPORTS WITH THE OBJECT OF CONTRIBUTING TOWARDS THE PUBLICITY OF THE SPLENDID WORK WHICH IS BEING DONE BY THE OFFICERS OF THE SAFETY LEAGUE.

SYNOPSIS OF SEVENTEENTH ANNUAL REPORT (1930)
ONTARIO SAFETY LEAGUE

ANNUAL LUNCHEON MEETING, HAMILTON, FEBRUARY 27, 1931

Mr. Chairman, Our Guest Speaker, Ladies and Gentlemen:

This matter of Safety all over the continent is a very serious subject. Particularly does it concern us here in Ontario where there were 1838 lives lost last year through preventable accidents.

To burden you with statistics would do no good. Mr. Lloyd George says: "Statistics are vain things, but with a little imagination you can get a good deal in them."

To the Safety Engineer they show where his best efforts should be directed and help to determine the results of his work.

Suppose those 1838 people had been killed all at once through some big disaster—what a hue and cry it would raise. The daily press would come out with big headings. The ocean cables would be requisitioned, the telegraph lines would be called into service, and the radio would spread the news of the calamity, with the result that for a time at least we would be "safety minded." For the whole year then let us all try to be "safety minded." Every man, woman and child in this glorious Province of Ontario should steadily think and act to prevent these killings and numerous lesser accidents, all of which are preventable. It is up to us—we are the ones who suffer the consequences.

To save time, will you oblige me by turning to page 21 of the Annual Report which you have before you.

Nineteen-thirty completed our seventeenth year of active safety work. At first (during 1914) confined practically to the City of Toronto, the Gospel of Safety was soon spread over the entire Province. This was made possible by the Provincial Government, and other ardent advocates of Accident Prevention whose names are listed in the report. To all of these we tender hearty thanks. In addition, we wish to thank our Safety friends in other parts of Canada, in England and in the United States.

Our Executive Committee gave generously of their time and energy during the year. We are convinced from experience that School Safety work is one of the most important features of our Annual Accident Prevention campaign.

Our weekly School Bulletin Service was subscribed for in some 45 places in Ontario. Five thousand Safety Bulletins were distributed weekly in the Province.

You should know about our Special Campaign of Lectures illustrated with moving pictures and lantern slides. During 1930 our Field Secretary spoke to 172,000 children in 424 schools, located in 127 different cities, towns and villages throughout the Province. It necessitated travelling some 10,000 miles by automobile. This special school work was started in 1926. During that year, in comparison with 1925, 23 less children of school age were killed; in 1927, 13 less; in 1928, 3 less; in 1929, 19 less. The moving picture, "Goofs" which follows is part of our programme now being put on in the schools.

Major S. W. Hobart, the very efficient general manager of the Canadian Auto Manufacturers and Exporters Association, made this special school work possible last year by overhauling the automobile given us the year before. Up to the end of 1930, this car had travelled some 43,000 miles.

The School Safety Patrols have proved effective in piloting children through traffic.

The School Children's Prize Essay Competition was held in April and May. Six hundred dollars in prizes were distributed—three hundred of which were contributed by The Ontario Motor League. Four thousand five hundred and forty-four essays were submitted. The first prize in Class A was won by Eileen Birchall, of the Centre Street School, Oshawa. The first prize in Class B was won by Miss Betty Couch of Adelaide Hoodless School, Hamilton.

A \$400.00 Prize Drawing Contest relative to Accident and Fire Prevention was put on in October for which there were three thousand drawings submitted.

At Woodstock a "Safety Week" was held May 12th to 17th and was a great success.

Through the courtesy of the schools, some 200,000 "Letters to Parents" were sent out this year by The Ontario Safety League.

Our Industrial Accident Prevention Campaign was very much appreciated by members in some 84 places.

In all, over a million pieces of Safety literature were distributed during the year.

As part of the Safety work done by Provincial Electric Railways our Bulletins were faithfully posted, and some 5,000 Safety Calendars were distributed to their employees. Railway Safety work was done in Ontario by the Safety Committee of the Canadian Electric Railway

Association. A memorandum of their campaign is in the Annual Report of the Canadian National Safety League.

A Campers' Bulletin, dealing with accident fatalities, the aquatic hazard, fires and property damage, was posted throughout Ontario.

About 13,000 of our Safety Calendars for 1930 were distributed in Ontario.

Your General Manager attended the Annual Convention of the Industrial Accident Prevention Associations at which 1,310 delegates were registered from 80 towns and cities. The programme was well balanced and included Mr. Denton Massey, of Toronto, who spoke on "Industry's Unpardonable Sin."

It was a great pleasure to your General Manager to have had the opportunity during the year of attending a number of meetings of the Public Safety Committee of the Hamilton Chamber of Commerce. As you know, the Hamilton Chamber of Commerce are our hosts to-day. Their Public Safety Committee is made up of some 25 of their representative members. As a Committee they are doing splendid work. Of course, residents of a district can be more familiar with local hazardous conditions, than outsiders, and are in the best position to know the remedies.

The Ontario Safety League is "without share capital." It is supported by grants, membership fees and voluntary contributions. The statement therefore that the work of the League is dependent upon monies received, necessarily carries with it our hearty thanks to contributors.

One of the best features of our Highway Safety Campaign was a card of instructions to Ontario Motor Vehicle Owners. This card, through the courtesy of the Provincial Highways Department, was packed and delivered with each pair of markers. This insured our Safety message reaching each motor vehicle owner once a year. A reproduction of the card is on page 31 of the Report.

The Safe Drivers' Club (of some 600 members) functioned successfully in 1930 and their example made for a reduction in traffic accidents.

An unusual event last year was the teaching of bicycle safety by Mr. St. Onge, an expert rider of wide experience. His programme was closed by riding competitions for which the prizes were furnished by the Canada Cycle and Motor Company. These events were generously featured by the Toronto Telegram and sponsored by the Ontario Safety League.

Your General Manager attended at Woodstock during their "Safety Week." Through the efforts of Alderman W. J. McCaffrey, Chairman of the Woodstock Traffic Committee, and under the auspices of the City Council, a very successful "Safety Week" was held. The League supplied the Woodstock Committee with bulletins and posters for display, and through the courtesy of the Poster Advertising Service of Canada, large Safety posters were displayed on billboards in Woodstock. Through the courtesy of the Capitol Theatre, Safety pictures were shown and a talk given on Accident Prevention and the Safe Riding of the Bicycle by Mr. St. Onge.

Mr. Justice Kelley, of the Supreme Court of Ontario, when addressing the Grand Jury at an Assize over which he presided some months ago, said: "My remarks on this subject are due to a long succession of trials before me resulting from negligent driving of motor vehicles. In some instances, the acts were in the class of downright criminal negligence; in others the negligence was of a less serious character, but negligence nevertheless. In almost every trial court over which I preside there are one or more of such negligence actions in which the opportunity is afforded of learning of and studying a great variety of types of drivers. My observation in Court and on the highways has led me to conclude that the great majority of drivers are careful and that the reckless minority are those who have a selfish and vulgar disregard for the rights of others. Of all criminally reckless drivers the very worst are those who "cut out" and "cut in" on the highways. Accounts given by witnesses in Court of the conduct of those are at times appalling, as no doubt you know. I have long since come to the conclusion that punishment by fines is only in a small degree a deterrent against further infractions of the law. Another unfortunate feature is that motor vehicle "accidents" are now so common that many appear to believe that accidents are something that must be expected, and consequently that the punishment meted out to persons found guilty should be lenient.

"It may be that the new traffic laws which come into force on September 1st will provide a remedy against what the travelling public has been suffering; they should, in any event, drive from the highways a considerable number of irresponsible drivers who are a menace to the public, including not only those who drive recklessly but also those who use cars, mostly old ones, whose defective or inefficient mechanism is a constant danger especially on highways which are overcrowded with traffic.

"It is most desirable that the co-operation of as many as possible should be enlisted in an effort to put down reckless driving and to make the reckless driver an undesirable person in the community."

The Highway Safety Committee formed by the Honourable Mr. Henry in 1927, conducted another interesting educational and advertising campaign in 1930, aimed at securing a reduction in highway accidents and fatalities.

Through the courtesy of Mr. Charles Shearer, Studio Director, a Safety message from us was broadcast every week from Station CFRB.

Now briefly, as to results, our accident records show for Ontario, in 1930, in comparison with 1929, 12 less fatalities from all accident causes, and 52 less motor vehicle fatalities.

Hamilton—7 less from all accident causes and 8 less motor vehicle fatalities.

Toronto—70 less from all accident causes and 26 less motor vehicle fatalities.

There were 12 less children, of school age, killed by preventable accidents (in Toronto) during 1930 than in 1929.

To overstep a little into 1931, we have a most remarkable record. During January of this year, there was not a single child killed by the motor vehicle hazard in Ontario.

In closing, it would be hard to pay a sufficiently high tribute to our staff. They are hand picked, thoroughly organized and give their whole lives to the work.

After 17 years devoted exclusively to Safety work, I am convinced that accidents are a species of crime and like crime the greatest deterrents are law enforcement and education.

Thank you for your interest and attention.

WENTWORTH INCLINE RAILWAY, LIMITED
BALANCE SHEET AS AT DECEMBER 31st, 1930

ASSETS

CURRENT.....		\$178,875 74	
Cash on Hand.....	\$280 62		
Balance in Bank.....	2,520 41		
Conductors' Loan Accounts.....	50 00		
Accounts Receivable.....	204 94		
Bonds and Stocks at cost.....	175,819 77		
	<u>\$178,875 74</u>		
INVESTED.....			\$65,901 02
Plant and Equipment, Roadbed, etc.....	114,409 22		
Buildings.....	9,500 00		
Land.....	29,078 25		
	<u>152,987 47</u>		
Less Reserve for Depreciation.....	87,086 45		
	<u>\$65,901 02</u>		
	LIABILITIES		
CURRENT.....			\$3,136 50
Accounts Payable.....	376 00		
Tickets Outstanding.....	2,460 50		
Insurance—Reserve.....	300 00		
	<u>3,136 50</u>		
SHAREHOLDERS.....			\$241,640 26
Capital Stock.....	\$27,800 00		
Special Reserve.....	45,134 79		
Profit and Loss Account.....	168,705 47		
	<u>\$241,640 26</u>		
		<u>\$244,776 76</u>	<u>\$244,776 76</u>

WENTWORTH INCLINE RAILWAY, LIMITED

PROFIT AND LOSS ACCOUNT—YEAR ENDED DECEMBER 31st, 1930

EARNINGS:			
Ticket Sales—Passengers, Freight, etc.....		\$38,986 46	
Interest and Dividends.....		4,790 37	
Bulmers' Restaurant—Dividend re Rent Claim.....		11 25	
EXPENSES:		\$36,647 52	
Fuel, Power and Light.....	1,686 39		
General Expense, Taxes, Directors' Fees and Salary.....	3,497 18		
Insurance.....	1,494 20		
Insurance Claims.....	180 00		
Oil and Waste.....	147 80		
Repairs.....	4,940 29		
Wages.....	18,743 70		
Depreciation.....	5,957 96		
	<u>36,647 52</u>		
NET PROFIT FOR PERIOD.....		<u>\$7,140 56</u>	
		<u>\$43,788 08</u>	<u>\$43,788 08</u>

PROFIT AND LOSS SUMMARY

Balance—January 1st, 1930.....		\$164,106 55	
Net Profit for Year 1930.....		7,140 56	
Income Tax for Year 1929.....	873 64		
Dividend Paid in 1930.....	1,668 00		
Balance—Per Balance Sheet.....	168,705 47		
		<u>\$171,247 11</u>	<u>\$171,247 11</u>

TABULATION OF COMPARISON WITH PREVIOUS YEARS AS TO CAR MILES RUN, PASSENGERS CARRIED
FOR YEAR ENDING DECEMBER 31ST, 1930

Name of Railway	Length of Track		Car Miles Run		Passengers Carried		Accidents				Net Earnings	
	In-crease	De-crease	In-crease	De-crease	In-crease	De-crease	Killed		Injured		Increase	Decrease
							In-crease	De-crease	In-crease	De-crease		
Buffalo & Fort Erie Ferry & Railroad Co.											\$	\$ c.
Cornwall Street Railway	50			2,763		15,573					*11,523	18
Fort William Electric Railway				6,814		301,766			7			762
Guelph Radial Railway	1,544		5,798			138,766	5					†25,200
Hamilton Street Railway			111,932			1,888,444			4			74
Hamilton & Dundas Railway	Not operating											52,105
Hamilton-Grimshy Railway				5,237		325,113			1			90
Hamilton & Barton Incline Railway	Statement on file with the board.											32,564
Huntsville & Lake of Bays Railway						736						14
Hydro-Electric Railways (Essex Division)						3,424,163			38			86
International Railways (Niagara Falls Park & River Div.				16,859		104,323			1			00
International Transit				1,084		126,764			2			61
Kingston, Portsmouth & Cataract	Not operating											98
Kitchener-Waterloo Street Railway			4,000			358,906			3			98
London Street Railway	6.37		277,609			260,193	1		28			13
Mount McKay & Kakabeka Falls Railway	††		††									96
Niagara Peninsular Railway	††		††									98
Port Arthur Civic Railway				10,770		153,734			2			63
Sarnia Street Railway						132,078						68
Sudbury-Copper Cliff Suburban Railway			44,631			321,709			1			47
Tillson Spur Line	All rolling stock owned and operated by Canadian National Railway.											92
Thurlow Railway			††									22
Toronto Transportation Commission			006	3,442,585		3,142,337			14			22
Toronto Trans. Com.—Toronto & York Radial			.721	1,046		241,057			7			22
Tor. Trans. Com.—Twp. York Ry.	Operation abandoned March 15th, 1930											22
Wentworth Incline Railway	See Statement.											22

††Car miles not reported. *Decrease in deficit on year's operations. †Increase on deficit in year's operations.

TABULATION OF OPERATING COSTS FOR YEAR ENDING DECEMBER 31st, 1930

Name of Railway	General Expenses		Maintenance of Roadbed and Buildings		Maintenance of Equipment		Motive Power		Wages		Damage to Persons and Property		Miscellaneous		Total		Operating Cost per Car Mile Run	
	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.
Buffalo & Ft. Erie Ferry & Railroad Co.	7,102	04	375	00	964	18	1,107	44	26,874	74	205	63	523	80	9,548	66	20,472	††
Cornwall Street Railway	11,877	76	7,641	63	12,740	79	4,227	62	69,373	05	511	85	3,800	44	64,302	27	18,945	
Fort William Electric Railway	15,337	33	20,508	16	23,975	85	25,658	16	8,834	69	23,173	06	2,385	26	159,164	84	24,398	
Guelph Radial Railway	14,437	19	9,667	42	21,574	16	166,857	30	408,557	83	50,352	19	139,506	38	80,071	78	38,395	
Hamilton Street Railway	61,374	18	96,610	23	263,997	40	17,514	60	26,789	01	2,161	22	28,784	80	1,187,255	51	49,234	
Hamilton & Dundas Railway	1,748	15	18,647	35	2,432	78	900	87	312,661	45	88	44	559	60	2,523	49	28,445	
Hamilton, Grimsby & Beamsville Ry.	218	53	373	98	470	51	111,071	30	47,494	14	10,858	11	7,182	98	923,834	10	59,918	
Hamilton & Barton Incline Ry.	156,681	73	61,220	90	156,134	87	7,920	00	14,399	87	5,410	44	3,490	56	44,437	68	17,756	
Huntsville & Lake of Bays Ry.	47,292	01	22,963	77	11,189	63	15,195	65	47,494	14	10,858	11	7,182	98	162,176	29	59,918	
Hydro-Electric Ry. (Essex Div.)	8,727	78	2,329	13	5,650	46	7,920	00	14,399	87	5,410	44	3,490	56	44,437	68	17,756	
International Railways (Niagara Falls Pk. & River Div.)	24,687	73	6,711	28	5,187	87	12,298	92	44,241	23	12,958	67	194,211	09	85,636	59	24,049	
International Transit Co.	Not operating.		54,277	37	52,117	16	42,501	00	132,660	23	12,958	67	194,211	09	513,413	26	20,233	
Kingston, Portsmouth & Cataraqui Ry.	13,706	73	6,711	28	5,187	87	12,298	92	44,241	23	12,958	67	194,211	09	85,636	59	24,049	
Kitchener-Waterloo Ry.	24,687	73	54,277	37	52,117	16	42,501	00	132,660	23	12,958	67	194,211	09	513,413	26	20,233	
London Street Ry.	Line operated by City of Fort William.																	
Mount McKay & Kakabeka Falls Ry.	5,508	23	2,448	79	2,448	79	3,508	55	3,508	55	2,090	00	2,090	00	13,555	57	††	
Niagara Peninsula Ry.	15,325	85	19,472	69	25,016	26	19,909	92	44,496	28	21,360	78	21,360	78	145,671	78	19,905	
Port Arthur Civic Ry.	20,784	39	1,525	71	10,760	44	7,886	69	14,928	67	2,866	12	2,866	12	58,752	02	28,562	
Sarnia Street Ry.	14,091	97	29,405	85	10,786	92	15,442	48	25,755	33	5,636	38	5,636	38	101,178	87	48,149	
Sudbury-Copper Cliff Suburban Ry.	All rolling stock owned and operated by Canadian National Railways.																	
Tillson Spur Line	10,377	66	9,498	40	9,498	40	640	19	9,814	05	4,347	00	4,347	00	34,677	30	††	
Thurlow Railway	631,059	01	653,915	82	829,799	27	1,351,743	36	3,879,094	69	152,119	18	1,520,737	04	9,018,468	37	28,320	
Toronto Transportation Commission	6,058	84	7,470	75	5,324	61	13,980	49	27,352	02	995	94	7,956	70	69,139	55	27,306	
T.T.C.—Toronto & York Radial*	19,988	61	9,891	09	23,902	42	46,237	82	46,237	82	114,253	24	114,253	24	214,273	18	.....
T.T.C.—Twp. of York Railway	See Statement.																	
Wentworth Incline Railway	See Statement.																	

*Operation abandoned March 15th, 1930. ††—Not reported.

TABULATION OF CAR MILES RUN, PASSENGERS CARRIED, ACCIDENTS, ETC.
FOR YEAR ENDING DECEMBER 31ST, 1930

Name of Railway	Length of track and sidings owned, miles	Length of switches and sidings, miles	Passenger car miles run	Passengers carried	Passengers carried per mile track owned	Accidents		Number of men employed	Passenger Cars			Other			Service Cars			Miscellaneous		Cost of railway construction equipment, land and buildings per mile of track owned
						Killed	Injured		Enclosed	Open	Trailers	Coal dump	Platform	Cattle and box	Tool	Snow sweepers	Snow plows	Loading cranes	Locomotives		Ferry boats
Buffalo and Fort Erie	Not reported		317,961	1,255,762	313.940			35	16											58,991 74
Cornwall Street Railway	4.50		840,123	2,814,248	333.128			57	18	15										48,200 61
Fort William Electric Railway	18.916		3,092,193	22,657,543	1198.223			43	8											52,233 73
Guelph Radial	6.412		199,208	344,313	344.313			61	88											139,329 70
Hamilton Street Railway	34.3							42	8	2										159,808 19
Hamilton, Grimsby & Beamsville Railway	22.6	3.6																		
Hamilton & Dundas Railway	Not operating																			
Hamilton & Barton Incline	Not operating																			
Huntsville & Lake of Bays	1.438	.312	with the Board	8,179				5	1	3										17,332 11
Hydro-Electric Railways (Essex Division)	56.475	5.268	3,247,721	13,399,281	237.26			335	64											87,549 98
International Railway (Niagara Falls Pk. & River Div.)	22.622	1.314	274,016	731,139	30.546			31	15	22										127,304 55
International Transit	4.97	.09	250,228	1,264,819	376.463			18	7											49,811 30
Kingston, Portsmouth and Cataragui Railway	Not operating																			51,992 70
Kitchener-Waterloo, etc.	9.41		356,096	2,965,146	315.106			33	32	9										34,061 90
London Street Railway	26.65	2.00	2,537,408	11,191,326	402.11															10,211 56
Mount McKay & Kakabeka Falls Railway	5.00	6.50	††	††	††															29,834 03
Niagara Peninsula Railway	3.325	2.115	731,238	3,043,062	155.814			7												28,894 60
Port Arthur Civic Railway	19.53	1.04	205,694	678,896	329.64			27												40,390 08
Sarnia Street Railway	8.25	1.																		12,241 24
Sudbury-Copper Cliff Suburban Electric Railway	7.9		210,071	1,260,429	159.548			18	12											195,537 00
Thurlow Railway	2.671	4.666						20												39,420 05
Tillson Spur Line	1.81	.951	All rolling stock owned	203,680,501	220,843			12	1,706	4,417										97,274 47
Toronto Transportation Commission	220.483	32.181	31,844,111	203,680,501	733.85			417	729	258										
T.T.C.—Toronto & York Radial	11.091	11.091	104,140	288,265	276.58			5	20											
T.T.C.—Township of York	14.65	1.148	784,705	6,129,617	418.64			(a)												
Wentworth Incline Railway	See Statement							(b)												

††—Not reported. *Operation abandoned March 15th, 1930. (a)—..... (b)—.....

TABULATION OF CHARGES OTHER THAN OPERATING COSTS FOR YEAR ENDING DECEMBER 31st, 1930

Name of Railway	Interest on Funded Debt		Interest and Discount on Funded Debt		Taxes		Transfer to Special Accounts		All Charges other than Operating Costs		Total Expenditure including Operating Costs		Total Expenditure excluding Operating Costs		Total Revenue from all sources		Per Car Mile Run		Net Deficit from Year's Operations		Net Surplus from Year's Operations					
	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.		
Ruffalo & Fort Erie Ferry & Railroad Co.							2,014	42			2,014	42					5,278	59			6,284	49				
Cornwall Street Ry.	9,100	00			2,129	83	15,000	00			26,511	56	a11,563	08			103,945	30	a24	092			32	691		
Fort William Electric Ry.	59,580	00			33,426	72	93,006	72			a18,744	84	a19,580	00			181,324	28	a26	036			28	724		
Geolph Radial Ry.	27,064	09			408	79	38,325	43			a107,544	66	a27,472	88			84,063	12	a32	627			25	503		
Hamilton Street Ry.					83,338	53	83,338	53			1,170,594	03	83,338	53			1,497,164	26	37	856			48	417		
Hamilton & Dundas Ry.																										
Hamilton, Grimsby & Beamsville Ry.					4,524	02			841	27	5,365	29	a102,602	13			86,330	92	a51	504			43	337		
Hamilton & Barton Incline Ry.																										
Huntsville & Lake of Bays Ry.							83	39			83	39	2,606	88			3,914	91								
Hydro Electric Ry. (Essex Div.)					5,591	82	294,118	51			a1,205,053	36	9,338	24	36		1,027,471	98	a37	107			31	615		
International Ry. (Niagara Falls Park & River Div.)	30,000	00			18,765	49	96,939	02			a229,171	83	44,810	06			197,352	49	a83	635			71	985		
International Transit. Kingston, Portsmouth and Cataract Ry.					3,631	17	28,740	98			a53,851	39	a9,413	71			a95,205	24	21	521			38	047		
Kitchener-Waterloo Ry.																										
London Street Railway.																										
Mount McKay & Kakabeka Falls Ry.																										
Niagara Peninsula Ry.																										
Port Arthur Civic Ry.																										
Sarnia Street Ry.																										
Stoney-Copper Cliff Suburban Ry.																										
Tillson Street Ry.																										
Thorow Ry.																										
Township Transportation Commission																										
T.T.C.—Toronto & York																										
T.T.C.—Township of York Ry.																										
Wentworth Incline Ry.																										

††Not reported.

*Includes \$10,208.94 motor coach rental and expenses.

†Includes \$8,738.03 motor coach revenue, etc.

aDoes not include transfer to Special Account.

bOperation abandoned March 15th, 1930.

cIncludes \$82,304.96 revenue from Ferry operation.

TABULATION OF ASSETS AND LIABILITIES AS OF DECEMBER 31st, 1930

Name of Railway	Authorized Capital Stock		ASSETS				LIABILITIES				Surplus		
	\$	c.	Cost of Rail- way Equip- ment, Land and Buildings	Cash and other Assets		Deficit		Capital Stock out- standing	Funded Debt	Current Liabilities		Accrued Liabilities	
				\$	c.	\$	c.			\$			c.	$	c.
Buffalo & Fort Erie Ferry & Railroad Co.	100,000	00	2,398	22,158	110,972	100,000	35,529	100,000	1,300,000	00	65,798	18,801	
Cornwall Street Railway	200,000	00	412,942	9,010	19,180	200,000	8,253	200,000	00	00	8,253	00	
Port William Electric Railway	1,229,000	00	1,228,910	711,497	5,112	1,229,000	19,180	1,229,000	00	00	707,889	20	
Guelph Radial Railway			444,300	46,498	5,112	444,300	46,498	3,205,000	395,815	45	7,804	21	
Hamilton Street Railway			4,778,908	60,801		4,778,908	60,801	235,000	00	00	825,393	99	
Hamilton & Dundas Railway			418,697	49,451	16,932	418,697	49,451	235,000	00	00	41,446	14	
Hamilton, Grimsby & Beauport Railway			31,531	11,653	43,777	27,800	11,653	27,800	00	00	2,021	18	
Hamilton & Barton Incline Railway			5,405,598	420,063		5,405,598	420,063	27,800	00	00	354,837	51	
Hamilton & Lake of Bays Railway			644,161	21,706		644,161	21,706	150,000	00	00	79,583	62	
International Ry. Co. (Niagara Falls Pk. & River Div.)			512,767	55,714	15,482	637,480	75,727	637,480	218,176	87	348,462	90	
International T. & C. (Niagara Falls Pk. & River Div.)			1,480,501	75,727	154,121	1,480,501	75,727	386,300	475,000	00	347,542	00	
International T. & C. (Niagara Falls Pk. & River Div.)			211,402	58,531		211,402	58,531	50,000	00	00	37,854	77	
Kitchener, Waterloo, St. Catharines & Hamilton Railway			55,550	76,652		55,550	76,652	574,083	00	00	47,869	95	
London Street Railway			613,685	505,027		613,685	505,027	90,000	89,200	00	457,157	89	
Mount McKay & Kakabeka Falls Railway			267,217	3,240	20,300	267,217	3,240	473,100	75,000	00	66,816	18	
Niagara Peninsula Railway			359,660	4,480		359,660	4,480	173,100	00	00	65,360	43	
Port Arthur Civic Railway			All rolling stock owned					National Railways					
Sarnia Street Railway			89,814		21,537	89,814		25,000	00	00	86,351	16	
Sudbury-Copper Cliff Suburban Railway			49,613,212	6,942,358		49,613,212	6,942,358	35,881,899	67	724,319	19,306	617	
Tilson Spur Line			2,380,647	385,571	53,481	2,380,647	385,571	2,418,863	73	11,544	341,810	71	
Thurlow Railway			1,382,569	219,737		1,382,569	219,737	1,219,925	06	79,318	356,244	62	
Toronto Transportation Commission													
T.T.C.—Toronto & York Radial													
T.T.C.—Township of York Railway													
Wentworth Incline Railway													

*Company in liquidation—Salvage value of equipment, etc.

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RETURN FROM THE RECORDS

OF THE

BY-ELECTIONS

TO THE

LEGISLATIVE ASSEMBLY

IN THE ELECTORAL DISTRICTS OF

ALGOMA, BRANTFORD, SOUTH LANARK, NIPISSING,
PEEL, SOUTH PERTH, NORTH RENFREW,
SOUTH WATERLOO and SOUTH YORK

Held on the Eighteenth and Twenty-Ninth days
of October, 1930

SHOWING

- (1) The number of Votes Polled for each Candidate in each Electoral District in which there was a contest;
- (2) The majority whereby each successful Candidate was returned;
- (3) The total number of Votes Polled;
- (4) The number of Votes remaining Unpolled;
- (5) The number of Names on the Polling Lists;
- (6) The number of Ballot Papers sent out to each Polling Place;
- (7) The Used Ballot Papers;
- (8) The Unused Ballot Papers;
- (9) The Rejected Ballot Papers;
- (10) The Cancelled Ballot Papers;
- (11) The Declined Ballot Papers; and
- (12) The Ballot Papers taken from Polling Places;
- (13) The number of printed Ballots not distributed to D.R.O's.
- (14) The number of ballot papers printed.

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1931

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Constituency	Seat Vacated by the	Date
1. Algoma	Acceptance of Office of Minister of Health..	September 16th, 1930
2. Brantford.....	Acceptance of Office of Minister of Public Welfare.....	September 16th, 1930
3. South Lanark.....	Death of Member.....	August 3rd, 1930
4. Nipissing.....	Resignation of Member	June 30th, 1930
5. Peel.....	Acceptance of Office of Minister of Agriculture.....	September 16th, 1930
6. South Perth.....	Death of Member.....	July 19th, 1930
7. North Renfrew.....	Acceptance of Office of Provincial Treasurer	September 16th, 1930
8. South Waterloo.....	Resignation of Member.....	July 12th, 1930
9. South York.....	Acceptance of Office of Provincial Secretary	September 16th, 1930

LIST OF RETURNING OFFICERS AT BY-ELECTIONS, 1930

Constituency	Returning Officer	Post Office
1. Algoma	R. Poynter Scott.....	Blind River
2. Brantford.....	Reginald Welsh.....	Brantford
3. South Lanark.....	Hugh S. Hunter.....	Smith's Falls
4. Nipissing.....	William Martin.....	North Bay
5. Peel.....	William J. Holmes.....	Orangeville, R.R. 6
6. South Perth.....	Hume F. Moses.....	Mitchell
7. North Renfrew.....	Alexander Morris.....	Pembroke
8. South Waterloo.....	Fred Debus.....	New Hamburg
9. South York.....	A. H. Keith Russel.....	Toronto

STATEMENT OF VOTES POLLED: Number of Polling Booths and Number of Names on Voters Lists at the By-Elections held on the 18th and 29th days of October, 1930.

Constituency	No. of Polling Booths	No. of Votes Polled	No. of Names on Voters Lists
1. Algoma.....	Acclamation	.....	.....
2. Brantford.....	Acclamation	.....	.....
3. South Lanark.....	57	4,226	10,277
4. Nipissing.....	77	8,876	14,480
5. Peel.....	Acclamation	.....	.....
6. South Perth.....	53	7,864	11,148
7. North Renfrew.....	Acclamation	.....	.....
8. Waterloo.....	68	11,424	24,571
9. South York.....	Acclamation	.....	.....

SUMMARY OF VOTES CAST AT THE BY-ELECTIONS HELD ON THE 18TH AND 29TH DAYS OF OCTOBER, 1930

Showing the number of votes polled for each candidate and the majority accorded to the one elected in each Constituency in which there was a contest.

Constituency	Candidates	Votes Polled	Remarks
1. Algoma.....	John Morrow Robb.....	Acclamation	
2. Brantford.....	William George Martin.....	Acclamation	
3. South Lanark.....	Egerton Ryerson Stedman..... Wm. George Ferguson..... Richesson Running..... Majority for Stedman.....	2,464 1,207 535 <hr/> 1,257	
4. Nipissing.....	Charles R. Harrison..... Joseph H. Marceau..... Majority for Harrison.....	5,984 2,892 <hr/> 3,092	
5. Peel.....	Thomas Laird Kennedy.....	Acclamation	
6. South Perth.....	Charles Edward Richardson.... George Samuel Keith..... Majority for Richardson....	4,050 3,814 <hr/> 236	
7. North Renfrew.....	Edward A. Dunlop.....	Acclamation	
8. South Waterloo.....	Norman O. Hipel..... Marcus M. Donald..... Majority for Hipel.....	5,797 5,627 <hr/> 170	
9. South York.....	Leopold Macaulay.....	Acclamation	

C. F. BULMER,
Clerk of the Crown in Chancery.

RETURN from the Records of the BY-ELECTIONS to the Legislative Assembly in 1930.

Electoral District	Number of Polling Places	Names of Candidates and Number of Votes Polled for each	Voters at each Polling Place			Ballot Papers sent out and how disposed of in each Polling Place											
			Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.					
South Lanark.	Bathurst.....No. 1	Ferguson	80	119	199	200	80	120									
	"....." 2	Stedman	96	119	215	200	96	103	1								
	"....." 3	Running	77	150	220	225	77	155									
	"....." 4		81	81	158	150	77	73									
	"....." 5		83	192	275	275	83	192									
	North Elmsley....." 1		39	110	149	150	39	111									
	"....." 2		45	99	144	150	45	105									
	"....." 3		68	99	167	175	68	107									
	Drummond....." 1		69	98	167	150	69	81									
	"....." 2		48	60	78	138	60	65									
	"....." 3		57	66	90	156	66	66									
	"....." 4		41	46	96	142	46	84									
	"....." 3		25	31	131	162	31	79									
	"....." 4		73	85	64	149	31	119									
	Montague....." 1		33	38	126	164	38	137									
"....." 2		0	22	151	173	22	153										
"....." 3		4	67	134	201	67	108										
"....." 4		6	47	87	194	47	128										
"....." 5		14	61	122	183	61	114										
"....." 5		29	84	90	174	84	66										
Perth....." 1		34	25	25	103	25	66										
"....." 2		9	88	287	275	103	172										
"....." 3		7	86	289	275	101	174										
"....." 4		9	57	107	164	57	93										
"....." 4		2	104	122	226	104	121										
"....." 5		12	122	152	274	122	128										

H. S. HUNTER,
Returning Officer.

RETURN from the Records of the By-Elections to the Legislative Assembly in 1930.—Continued.

Electoral District	Number of Polling Places	Names of Candidates and Number of Votes Polled for each	Voters at each Polling Place			Ballot Papers sent out and how disposed of in each Polling Place											
			Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.					
South Lanark— <i>Con</i>	Perth	Ferguson 10	77	Running 9	98	108	306	275	98	177	2						
	"	Steadman 10	82	7	99	89	188	175	99	76							
	"	3	105	9	118	114	232	225	118	107	1						
	"	8	83	6	101	123	224	225	101	124							
	"	12	97	7	112	192	304	225	112	113	1						
	"	7	23	12	69	92	161	150	69	81							
	Smith's Falls.	34	21	5	59	75	134	100	59	41							
	"	33	17	3	52	104	156	125	52	73							
	"	32	15	7	67	85	175	150	67	108	1						
	"	44	27	10	99	77	176	150	99	51							
	"	61	47	13	112	98	210	175	112	63							
	"	4	44	2	64	92	156	125	64	61	2						
	"	44	16	6	55	82	136	125	55	70	1						
	"	34	14	6	55	82	136	125	55	70	1						
"	38	17	3	59	93	152	125	59	66	1							
"	41	15	1	57	97	154	125	57	68								
"	82	29	14	126	150	276	225	126	99	1							
"	64	22	12	98	91	189	150	98	52								
"	25	19	6	52	111	163	150	52	98								
"	8 A	20	11	77	91	168	150	77	73	1							
"	9	45	20	111	168	150	100	62	38								
"	44	11	7	62	62	124	100	62	38								
"	49	40	14	103	178	281	250	103	147								
"	10	36	11	43	91	151	125	57	68								
"	11	18	19	43	122	165	125	43	68								
"	11 A	18	19	43	122	165	125	43	68								
"	12	29	19	56	89	145	125	56	69								
"	12 A	30	14	53	101	154	125	53	72								

"	"	13	48	37	12	98	112	210	183	98	85	1
"	"	"	22	14	46	82	63	145	125	82	43	.....
"	"	"	26	16	38	80	76	156	125	80	45	.....
"	"	Advance	66	94	21	181	.....	200	200	181	17	2
Burgess, North	No.	1	3	40	7	50	106	156	150	50	100	.....
"	"	1 A	1	44	5	50	107	157	150	50	100	.....
"	"	2	1	15	0	16	20	36	50	16	34	.....
Totals	.....	1,207	2,464	535	4,226	6,083	10,277	8,533	3,820	4,711	20	.....
Majority for Stedman	.....		1,257									2

Total number of printed ballots not distributed to D.R.O.'s: 225. Total number of ballot papers printed: 9,808.

		C. R. Harrison	J. H. Marceau									
Nipissing	North Bay	No.	1 A	102	54	156	187	343	200	156	42	.....
"	"	"	1 B	114	42	156	131	287	200	156	44	.....
"	"	"	2 A	106	54	160	135	295	200	160	40	.....
"	"	"	2 B	113	43	156	118	274	200	156	44	.....
"	"	"	3 A	126	86	212	82	294	250	212	36	1
"	"	"	3 B	144	75	219	192	411	250	219	30	1
"	"	"	4 A	122	50	172	135	307	200	172	28	.....
"	"	"	4 B	95	60	155	152	307	200	155	45	.....
"	"	"	5 A	75	55	130	122	252	200	130	70	.....
"	"	"	5 B	63	36	99	214	313	200	99	99	2
"	"	"	6 A	102	96	192	165	357	200	192	8	.....
"	"	"	6 B	105	83	188	157	345	200	188	12	.....
"	"	"	7 A	141	57	198	179	377	250	198	51	1
"	"	"	7 B	123	37	160	131	291	200	160	40	.....
"	"	"	8 A	130	44	174	195	369	200	174	26	.....
"	"	"	8 B	124	54	178	153	331	200	178	22	.....
"	"	"	9 A	112	83	195	141	336	300	195	104	1
"	"	"	9 B	109	52	161	128	289	300	161	138	1
"	"	"	10 A	186	84	270	197	467	300	270	30	.....
"	"	"	10 B	149	60	209	195	404	300	209	87	2
"	"	"	11 A	170	94	264	171	435	300	264	31	.....
"	"	"	11 B	119	61	180	155	335	275	180	94	1
"	"	"	12 A	84	83	167	150	317	200	167	29	3
"	"	"	12 B	98	37	135	113	248	200	135	62	3
"	"	"	13 A	115	78	193	132	325	300	193	101	6
"	"	"	13 B	110	61	171	106	277	300	171	127	1
"	"	"	14	131	42	173	89	262	200	173	26	1
"	"	"	15	96	31	127	84	211	200	127	73	.....
Mattawa Town	.....										

W. MARTIN, Returning Officer

Cameron	"	41	52	17	69	42	111	125	69	56	.....
Boulter	"	42	5	4	9	9	18	25	9	1	.....
Paxton	"	43	10	4	14	32	46	50	14	36	.....
Peck	"	44	33	15	48	30	78	100	48	52	.....
Canisby	"	45	20	0	20	5	25	50	20	30	.....
Airy	"	46	136	63	199	99	298	300	199	100	.....
Sabine	"	47	57	2	59	32	91	100	59	41	.....
Murchison	"	48	144	19	163	137	300	300	163	137	.....
Phelps	"	49	50	3	53	36	89	100	53	47	.....
"	W. Part..	50	17	0	17	7	24	50	17	32	.....
"	E. Part..	51	7	3	10	12	22	25	10	15	.....
Merrick	"	51	9	1	10	12	22	25	10	15	.....
Stewart	"	52	8	3	11	5	16	25	11	14	.....
Hammill	"	53	8	4	28	15	43	50	28	22	.....
Gooderham	"	54	24	2	14	2	16	25	14	11	.....
Poitras	"	55	12	2	23	3	26	50	23	27	.....
Wyse	"	56	20	3	6	7	13	25	6	19	.....
Pentland	"	57	4	2	70	68	144	175	70	99	.....
Boyd	"	58	62	14	35	25	60	75	35	40	.....
Lister	"	59	32	7	8	44	52	75	8	67	.....
Preston	"	60	1	7	25	13	38	50	25	25	.....
Barron	"	61	19	6	154	.....	154	200	154	46	.....
Advance Poll,	North Bay..	62	126	28	8	.....	8	25	8	17	.....
"	Mattawa..	63	8	0	8	.....	8	25	8	17	.....
"	Madawaska.	64	7	1	8	.....	8	25	8	17	.....
Totals.....			5,984	2,892	8,876	5,604	14,480	12,325	8,876	3,383	.....
Majority for Harrison.....				3,092						47	.....
										14	.....
										4	.....

Total number of printed ballots not distributed to D.R.O's: 2,380. Total number of ballot papers printed, 15,000.

Perth, South.....	St. Marys.....	No.	1	Charles E. Richardson	161	350	324	188	188	.....
"	"	"	2	120	162	162	162	188	111	.....
"	"	"	3	113	189	92	281	300	111	.....
"	"	"	4	74	155	75	230	250	154	.....
"	"	"	5 A	74	137	48	185	200	134	.....
"	"	"	5 B	72	120	36	156	175	119	.....
"	"	"	6	101	146	31	177	200	146	.....
"	"	"	7	118	165	34	199	225	164	.....
"	"	"	8	115	182	45	227	250	182	.....
"	"	"	9 A	134	190	41	231	250	190	.....
"	"	"	9 B	68	98	35	133	150	98	.....
"	"	"	40	95	135	48	183	200	135	.....

George S. Keith

Charles E. Richardson

RETURN from the Records of the BY-ELECTIONS to the Legislative Assembly in 1930.—Continued.

Electoral District	Number of Polling Places	Names of Candidates and Number of Votes Polled for each	Votes at each Polling Place				Ballot Papers sent out and how disposed of in each Polling Place										
			Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.					
Perth South— <i>Con.</i> HUME F. MOSSÉS, Returning Officer	St. Marys.....	No. 10	George S. Keith 40	Charles E. Richardson 100	44	140	44	184	200	140	60						
	" " " " " " " "	" 11	47	116	70	163	70	233	250	163	87						
	Mitchell, South.....	" 1	50	90	141	141	141	206	225	140	84	1					
	" " " " " " " "	" 2	44	102	147	147	147	200	225	146	78	1					
	" " " " " " " "	West Ward.....		68	132	200	200	268	300	200	200	100					
	" " " " " " " "	North.....	No. 1	114	127	242	83	325	350	241	108	1					
	" " " " " " " "	North.....	" 2	63	107	170	64	234	275	170	104	1					
	Blanshard.....	" 1	68	54	122	50	172	200	172	200	116	84					
	" " " " " " " "	" 2	45	71	116	54	170	200	170	200	116	84					
	" " " " " " " "	" 3	58	87	145	67	212	250	212	250	145	105					
	" " " " " " " "	" 4	126	191	191	58	249	275	191	275	191	84					
	" " " " " " " "	" 5	91	61	153	69	222	250	222	250	152	97	1				
	" " " " " " " "	" 6	46	115	161	55	216	250	216	250	161	89					
	Downie.....	" 1	104	84	188	66	254	275	188	275	188	87					
	" " " " " " " "	" 2	148	30	178	61	239	275	178	275	178	97					
	" " " " " " " "	" 3	150	50	200	72	272	300	272	300	200	100					
	" " " " " " " "	" 4	108	64	173	45	218	250	172	250	172	77	1				
	" " " " " " " "	" 5	55	92	149	69	218	250	147	250	147	101	2				
	" " " " " " " "	" 6	95	65	161	70	231	250	160	250	160	89	1				
	Fullarton.....	" 1	96	21	117	57	174	199	117	199	117	82					
" " " " " " " "	" 2	38	60	98	26	124	150	98	150	98	52						
" " " " " " " "	" 3	81	39	121	43	164	200	120	200	120	79	1					
" " " " " " " "	" 4	37	97	134	51	185	225	134	225	134	91						
" " " " " " " "	" 5	77	44	121	47	168	200	121	200	121	79						
" " " " " " " "	" 6	57	50	107	57	164	200	107	200	107	93						

"	7	39	61	100	23	123	150	100	49	1	.....
Hibbert.....	1 A	89	49	138	41	179	200	138	62	.....	.....
"	1 B	62	47	110	47	157	175	109	65	1	.....
"	"	105	64	169	70	239	275	169	106	.....	.....
"	3	133	62	195	86	281	300	195	105	.....	.....
"	4	72	41	113	136	249	276	113	160	3	.....
Logan.....	1	51	89	140	71	211	250	140	110	.....	.....
"	2	92	95	188	61	249	275	187	87	1	.....
"	3	95	89	186	70	256	275	184	89	2	.....
"	4	101	132	233	44	277	300	233	67	.....	.....
"	5	66	74	140	29	169	200	140	60	.....	.....
"	6	53	25	78	26	104	125	78	47	.....	.....
"	7	53	77	130	61	191	225	130	95	.....	.....
South Easthope.....	1	108	47	157	161	318	350	155	193	2	.....
"	2	73	19	185	92	93	225	92	133	.....	.....
"	3	69	33	103	49	152	175	102	72	1	.....
"	4	60	39	99	81	180	225	99	126	.....	.....
Totals.....		3,814	4,050	7,888	3,260	11,148	12,575	7,864	4,682	24	1	4
Majority for Richardson.....			236									

Total number of printed ballots not distributed to D.R.O.'s: 1,425. Total number of ballot papers printed: 14,000.

Waterloo, South....	M. M. Donald	N. O. Hipel	Wilnot..... No.
"	27	95	1
"	30	153	2
"	65	91	3
"	45	72	4
"	49	88	4
"	28	130	5
"	79	86	6
"	117	58	6
Galt.....	109	50	1
"	83	45	2
"	100	110	2
"	95	100	3
"	71	53	4
"	85	45	5
"	88	45	6
"	73	52	6
"	71	86	7
"	71	85	7
Totals.....	1,566	1,566	380

RETURN from the Records of the BY-ELECTIONS to the Legislative Assembly in 1930.—Continued.

Electoral District	Number of Polling Places	Names of Candidates and Number of Votes Polled for each		Voters at each Polling Place			Ballot Papers sent out and how disposed of in each Polling Place						
		M. M. Donald	N. O. Hipel	Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
Waterloo, South— Con.	Galt	104	125	229	265	494	450	229	220				
	"	105	86	191	249	440	400	191	209		1		
	"	60	44	104	290	394	375	104	271				
	"	62	34	96	306	402	375	96	279				
	"	108	71	179	210	389	400	179	221				
	"	74	83	157	250	407	400	157	243				
	"	85	48	133	228	361	350	133	216	1			
	"	98	56	154	274	428	350	154	195	1			
	"	111	87	198	301	499	450	198	252				
	"	98	65	163	260	423	450	163	287				
	"	68	51	119	193	312	325	119	205	1			
	"	72	44	116	195	311	325	116	208				
	"	78	69	69	147	230	377	350	147	203			
	"	67	72	139	243	382	350	139	210				
	"	66	53	119	275	394	350	119	231				
	"	53	53	106	248	354	350	106	243	1			
Advance Poll.		6	3	9	0	0	100	9	91				
Ayr	A to K	65	115	180	148	328	300	180	120				
"	L to Z	51	88	139	126	265	250	139	111				
Hespelear	"	126	105	231	183	414	400	231	169				
"	"	168	58	226	206	432	226	224	432				
"	"	104	65	169	181	350	375	169	205	1			
"	"	170	67	237	187	424	425	237	178	10			
"	"	89	30	119	85	204	200	119	81				
New Hamburg	A to K	69	110	179	130	309	350	179	171				

FRED DEBUS,
Returning Officer.

RETURN FROM THE RECORDS
OF THE
BY-ELECTIONS

TO THE
LEGISLATIVE ASSEMBLY
IN THE ELECTORAL DISTRICTS OF

DUNDAS, held on the 29th day of August, 1931.

GRENVILLE, held on the 31st day of January and the 11th day of February, 1931.

WEST HAMILTON, held on the 31st day of January and the 11th day of February, 1931.

NORFOLK, held on the 27th day of June and the 8th day of July, 1931.

SOUTH WELLINGTON, held on the 7th and 18th days of November, 1931.

SHOWING

- (1) The number of Votes Polled for each Candidate in each Electoral District in which there was a contest;
- (2) The majority whereby each successful Candidate was returned;
- (3) The total number of Votes Polled;
- (4) The number of Votes remaining Unpolled;
- (5) The number of Names on the Polling Lists;
- (6) The number of Ballot Papers sent out to each Polling Place;
- (7) The Used Ballot Papers;
- (8) The Unused Ballot Papers;
- (9) The Rejected Ballot Papers;
- (10) The Cancelled Ballot Papers;
- (11) The Declined Ballot Papers; and
- (12) The Ballot Papers taken from Polling Places;
- (13) The number of printed Ballots not distributed to D.R.O's.
- (14) The number of ballot papers printed.

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 25, 1932



ONTARIO

TORONTO

Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty

1932

TO THE HONOURABLE

The Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Return of the By-Elections as held in the year 1931.

Respectfully submitted,

WILLIAM H. PRICE,
Attorney-General.

Department of the Attorney-General,
February 1st, 1932.

Office of the Clerk of the Crown in Chancery,
February 1st, 1932.

THE HONOURABLE W. H. PRICE,
Attorney-General.

SIR:

I have the honour to submit to you the Return of the By-Elections as held in the year 1931.

Respectfully submitted,

C. F. BULMER,
Clerk of the Crown in Chancery.

Constituency	Seat Vacated by the	Date
1. Dundas	Acceptance of Office of Secretary and Registrar	July 31st, 1931
2. Grenville	Resignation of Member	December 15th, 1930
3. Hamilton West	Death of Member	November 15th, 1930
4. Norfolk	Death of Member	May 13th, 1931
5. Wellington South	Death of Member	September 19th, 1931

LIST OF RETURNING OFFICERS AT BY-ELECTIONS, 1931

Constituency	Name	Post Office
1. Dundas	Oscar Becksted	Elma
2. Grenville	Wm. S. Johnston	Prescott
3. Hamilton West	William Stull	Hamilton
4. Norfolk	C. F. W. Atkinson	Port Rowan
5. Wellington South	Harry Mahoney	Guelph

STATEMENT OF VOTES POLLED: Number of Polling Booths and Number of Names on Voters' Lists

Constituency	No. of Polling Booths	No. of Votes Polled	No. of Names Voters' Lists
1. Dundas	Acclamation	.....	.....
2. Grenville	51	8,047	11,195
3. Hamilton West	90	11,093	18,770
4. Norfolk	76	11,268	17,601
5. Wellington South	94	14,293	21,004

SUMMARY OF VOTES CAST AT THE BY-ELECTIONS HELD IN THE YEAR 1931

Showing the number of votes polled for each candidate and the majority accorded to the one elected in each constituency in which there was a contest

Constituency	Candidates	Votes Polled	Remarks
1. Dundas	George Holmes Challies	Acclamation	
2. Grenville	James A. Sanderson	4,761	
	Percy Ray Barnard	3,286	
	Majority for Sanderson	1,475	
3. West Hamilton	Argue Martin	5,768	
	Elmore Philpott	5,325	
	Majority for Martin	443	
4. Norfolk	Arthur Campbell Burt	5,513	
	Eric William Cross	5,455	
	Alexander Charles Stewart	300	
	Majority for Burt	58	
5. South Wellington	Paul Munro	7,292	
	William P. Gamble	7,001	
	Majority for Munro	291	

RETURN FROM THE RECORDS OF THE BY-ELECTIONS TO THE LEGISLATIVE ASSEMBLY IN 1931

Electoral District	Numbers of Polling Places	Names of Candidates and Number of Votes Polled for Each		Voters at each Polling Place			Ballot Papers sent out and how disposed of in each Polling Place									
		P. R. Barnard	J. A. Sanderson	Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.			
Grenville.....	Augusta Township.....	No. 1	87	52	139	92	231	140	85	.....	.....	.....	.....	.....	.....	.....
	"	"	94	35	129	88	217	129	96	.....	.....	.....	.....	.....	.....	.....
	"	"	74	59	133	78	211	135	90	.....	.....	.....	.....	.....	.....	.....
	"	"	51	60	111	73	184	200	111	89	.....	.....	.....	.....	.....	.....
	"	"	21	103	124	88	212	225	124	101	.....	.....	.....	.....	.....	.....
	"	"	84	97	181	113	294	300	184	116	.....	.....	.....	.....	.....	.....
	"	"	74	64	138	90	228	225	139	86	.....	.....	.....	.....	.....	.....
	"	"	52	63	115	45	160	175	117	58	.....	.....	.....	.....	.....	.....
	"	"	37	103	140	102	242	250	142	108	.....	.....	.....	.....	.....	.....
	"	"	9	65	74	32	106	125	75	50	.....	.....	.....	.....	.....	.....
Edwardsburg Township	No. 1	108	127	235	77	312	325	237	88	.....	.....	.....	.....	.....	.....	.....
	"	"	66	69	135	57	192	200	137	63	.....	.....	.....	.....	.....	.....
	"	"	69	93	162	64	226	250	163	87	.....	.....	.....	.....	.....	.....
	"	"	211	119	330	35	365	375	333	42	.....	.....	.....	.....	.....	.....
	"	"	93	67	160	38	198	200	161	39	.....	.....	.....	.....	.....	.....
	"	"	78	59	137	44	181	200	139	61	.....	.....	.....	.....	.....	.....
	"	"	76	83	159	54	213	225	159	66	.....	.....	.....	.....	.....	.....
	"	"	38	73	111	28	139	150	111	39	.....	.....	.....	.....	.....	.....
	"	"	38	50	88	26	114	125	88	37	.....	.....	.....	.....	.....	.....
South Gower Township	No. 1	69	129	198	42	240	250	199	51	.....	.....	.....	.....	.....	.....	.....
	"	"	83	77	160	55	215	225	160	65	.....	.....	.....	.....	.....	.....
Oxford Township	No. 1	39	98	137	70	207	225	138	87	.....	.....	.....	.....	.....	.....	.....
	"	"	38	67	105	64	169	175	105	70	.....	.....	.....	.....	.....	.....
	"	"	68	137	205	140	345	350	208	142	.....	.....	.....	.....	.....	.....
	"	"	20	140	160	86	246	250	160	90	.....	.....	.....	.....	.....	.....
	"	"	13	106	119	26	145	150	119	31	.....	.....	.....	.....	.....	.....

W. S. JOHNSTON,
Returning Officer

Totals	3,286	4,761	8,047	3,148	11,195	11,775	8,107	3,668	39	13	8
Majority for Sanderson		1,475									

Total number of printed ballots not distributed to D.R.O.'s: 3,000. Total number of ballot papers printed: 14,800.

West Hamilton	Ward 2	Ward 3	Philpott	Martin	83	93	176	200	83	116	1
No. 33-36	" 2	" 1	27	56	83	93	176	200	83	116	1
" 34-35	" 2	" 2	89	143	232	210	442	500	232	267	1
" 37	" 2	" 3	36	75	111	129	240	200	111	87	2
" 38	" 2	" 4	71	41	112	134	246	200	112	86	2
" 39	" 2	" 5	56	51	107	173	280	200	107	88	3
" 40	" 2	" 6	29	99	128	80	208	200	128	72	2
" 41	" 2	" 7	25	108	133	115	248	200	133	65	2
No. 1	Ward 3	" 8	83	80	163	109	272	300	163	132	5
" 2	" 3	" 9	75	70	145	105	250	300	145	155	1
" 3	" 3	" 10	49	80	129	119	248	200	129	70	1
" 4	" 3	" 11	61	99	160	42	202	200	160	29	2
" 5	" 3	" 12	62	79	141	235	376	200	141	59	1
" 6	" 3	" 13	68	95	163	87	250	250	163	86	1
" 7	" 3	" 14	48	70	118	132	250	200	118	80	2
" 8	" 3	" 15	66	101	167	83	250	200	167	29	4
" 9	" 3	" 16	33	80	113	79	192	150	113	35	1
" 10	" 3	" 17	36	136	172	58	230	200	172	26	2
" 11	" 3	" 18	30	28	58	102	160	150	58	91	1
" 11A	" 3	" 19	58	72	130	111	241	200	130	66	4
" 12	" 3	" 20	59	72	131	111	242	250	131	117	1
" 13	" 3	" 21	63	77	140	36	176	200	140	58	1
" 14	" 3	" 22	63	69	132	93	225	150	132	18	1
" 15	" 3	" 23	77	70	147	121	268	250	147	103	1
" 16	" 3	" 24	84	78	162	113	275	200	162	36	2
" 17	" 3	" 25	34	71	105	85	190	150	105	40	4
" 18	" 3	" 26	59	36	95	105	200	150	95	52	2
" 19	" 3	" 27	46	58	104	80	184	150	104	44	2
" 20	" 3	" 28	50	43	93	57	150	150	93	56	1
" 21	" 3	" 29	66	66	145	87	232	200	145	51	1
" 22	" 3	" 30	113	106	219	83	302	300	219	74	5
" 23	" 3	" 31	64	50	114	106	220	150	114	33	1
" 24	" 3	" 32	41	52	93	47	140	150	93	56	1
" 25	" 3	" 33	107	66	173	87	260	300	173	125	2
" 26	" 3	" 34	70	80	150	110	260	200	150	50	1
" 27	" 3	" 35	53	60	113	43	156	150	113	33	4
" 28	" 3	" 36	49	44	93	85	178	150	93	56	1

WILLIAM STULL,
Returning Officer

Electoral District	Numbers of Polling Places	Names of Candidates and Number of Votes Polled for Each		Voters at each Polling Place		Ballot Papers sent out and how disposed of in each Polling Place							
		Argue Martin	Elmore Philpott	Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
West Hamilton— Con.	Ward 3	No. 29	36	110	27	137	150	110	31	9			
	"	" 30	40	83	89	172	100	83	15	1			
	"	" 31	46	92	84	176	150	92	58				
	"	" 32	29	64	64	104	100	64	34				
	"	" 33	59	38	97	73	170	150	97	4			
	"	" 34	48	45	93	83	176	150	93	55	2		
	"	" 36	83	60	143	138	281	250	143	105	2		
	"	" 37	80	65	145	105	250	200	145	52	3		
	"	" 38	58	101	159	100	259	200	159	41			
	"	" 39	58	47	145	192	250	200	145	104	1		
	"	" 41	62	78	140	65	205	200	140	57	3		
	"	" 43	64	42	106	76	182	150	106	42	2		
	"	" 44	83	94	177	83	260	200	177	22	1		
	"	" 45	89	97	186	64	250	300	186	108	6		
	Ward 4	No. 1	59	58	117	95	212	150	117	29	4		
	"	" 2	67	60	127	73	200	150	127	21		2	
	"	" 3	63	60	123	77	200	150	123	27			
	"	" 4	25	33	58	66	124	100	58	41	1		
	"	" 5	67	66	133	107	240	150	133	16	1		
	"	" 6	48	42	90	64	154	90	55	5			
	"	" 7	47	56	103	65	168	150	103	45	2		
	"	" 8	27	33	60	40	100	100	60	37	3		
"	" 9	43	66	109	51	160	150	109	40	1			
"	" 10	56	51	107	53	160	150	107	42	1			
"	" 11	59	75	134	106	240	250	134	114	2			
"	" 12	68	70	138	98	236	250	138	112				

" 4	56	37	93	97	190	150	93	57	1	1
" 4	71	54	125	59	184	150	125	24	1	1
" 4	68	47	115	75	190	150	115	34	1	1
" 4	54	35	89	79	168	150	89	60	1	1
" 4	48	47	95	105	200	150	95	51	4	4
" 4	59	39	98	62	150	150	98	52	4	4
" 4	36	62	98	52	160	150	98	48	4	4
" 4	37	90	127	55	182	150	127	22	1	1
" 4	51	87	138	86	224	200	138	61	1	1
" 4	87	110	197	89	286	200	197	3	1	1
" 4	47	55	102	51	153	150	102	48	3	3
" 4	63	96	159	97	256	250	159	88	3	3
" 4	68	92	160	74	234	200	160	38	1	1
" 4	48	71	119	60	179	150	119	31	1	1
Ward 5	29	29	58	75	133	100	58	35	5	2
" No. 1	26	37	63	65	128	100	63	34	2	2
" " 2 and 4	26	46	72	72	144	150	72	75	3	3
" 3	50	44	94	82	176	150	94	55	1	1
" 5	44	51	95	87	182	150	95	54	1	1
" 6	29	48	77	42	119	150	77	73	1	1
" 7	103	62	165	95	260	300	165	133	2	2
" 8	53	86	139	79	168	150	139	8	3	3
" 9	79	45	124	78	202	150	124	22	3	3
" 10	72	89	161	83	244	250	161	86	1	2
" 11	85	56	141	65	206	200	141	51	6	2
" 12	72	72	144	108	252	250	144	102	4	4
" 13	76	55	131	34	165	150	131	17	2	2
" 14	55	46	101	107	208	150	101	43	4	2
" 15	55	46	101	107	208	150	101	43	4	2
Totals	5,768	5,325	11,093	7,677	18,770	16,700	11,093	5,398	165	35
Majority for Martin	443									

Total number of printed ballots not distributed to D.R.O.'s: 3,250. Total number of ballot paper printed: 20,000.

Note.—Division No. 40—two rejects allowed (good ballots).

Simcoe Town.....A to L, No. 23	93	93	1	187	87	274	325	189	136	2	.....
".....M to Z, " 23	63	56	1	120	89	209	275	121	154	1	.....
".....A to L, " 24	113	91	1	205	151	356	400	208	192	3	.....
".....M to Z, " 24	71	56	.....	127	78	205	225	128	97	1	.....
".....A to L, " 25	70	85	1	156	104	260	325	157	168	.....	1
".....M to Z, " 25	77	64	1	142	142	284	325	143	182	.....	1
".....A to L, " 26	108	97	.....	205	116	321	375	205	170	.....	.....
".....M to Z, " 26	73	70	.....	143	101	244	325	145	180	1	.....
".....A to L, No. 27	208	115	.....	323	121	444	550	331	219	8	.....
".....M to Z, " 27	81	79	4	164	71	235	300	165	135	1	.....
".....A to L, No. 28	59	86	.....	145	78	223	275	147	128	2	.....
".....M to Z, " 28	106	63	1	170	92	262	325	171	154	1	.....
".....A to L, " 29	67	57	3	127	71	198	250	129	121	2	.....
".....M to Z, " 29	81	123	.....	204	86	290	375	204	171	.....	.....
Townsend Twp.....No. 30	18	116	.....	134	181	315	375	136	239	.....	1
".....A to L, " 31	33	70	1	104	123	227	275	104	171	.....	.....
".....M to Z, " 31	36	109	2	147	146	293	350	139	201	.....	2
".....A to L, " 33	31	120	1	152	62	214	250	152	98	.....	.....
".....M to Z, " 33	57	121	2	180	72	252	325	181	144	1	.....
".....A to L, " 34	62	143	7	212	142	354	450	212	238	.....	.....
".....M to Z, " 34	39	98	3	140	122	262	325	141	184	.....	1
".....A to L, " 36	27	132	.....	159	44	203	250	162	88	3	.....
".....M to Z, " 36	54	30	3	87	41	128	175	88	87	1	.....
N. Walsingham Twp.....No. 39	89	43	1	133	15	148	200	136	64	.....	.....
".....A to L, " 40	95	45	.....	140	48	188	250	142	108	2	.....
".....M to Z, " 40	90	30	1	121	45	166	225	122	103	.....	1
".....A to L, " 42	92	67	.....	159	61	220	275	161	114	.....	2
".....M to Z, " 42	44	71	10	125	43	168	225	125	100	.....	.....
S. Walsingham Twp.....No. 44	57	61	11	129	58	187	250	130	120	.....	1
".....A to L, " 45	110	47	7	164	77	241	325	166	159	2	.....
".....M to Z, " 45	44	32	4	80	32	112	150	80	70	.....	.....
".....A to L, " 46	113	36	2	151	42	193	275	151	124	.....	.....
".....M to Z, " 46	22	35	2	59	92	151	200	59	141	.....	.....
Waterford Vil.....A to L, No. 49	38	45	.....	83	87	170	225	84	141	1	.....
".....M to Z, " 49	33	93	.....	126	104	230	275	127	148	1	.....
".....A to L, " 50	17	94	4	115	114	229	275	115	160	.....	.....
".....M to Z, " 50	60	95	2	157	58	215	275	157	118	.....	.....
Windham Twp.....No. 51	57	60	2	119	121	240	300	121	119	2	.....
".....A to L, " 52	80	65	1	146	113	259	325	147	178	1	.....
".....M to Z, " 52	70	89	3	162	82	244	325	162	163	.....	.....
".....A to L, " 54	78	58	2	138	76	214	250	138	112	.....	.....
".....M to Z, " 54	53	120	1	174	44	218	275	176	99	2	.....
".....A to L, " 55	87	97	4	188	96	284	350	190	160	2	.....
".....M to Z, " 55	41	98	1	140	35	175	250	142	108	2	.....
Woodhouse Twp.....No. 57 A	90	98	11	199	179	378	475	201	274	2	.....

HARRY MAHONEY, Returning Officer

"	"	"	76	60	136	73	209	225	136	87	2	..
"	"	"	110	112	222	141	363	375	222	150	3	..
"	"	"	40	83	177	54	177	200	123	77	..	..
St. George's Ward.	No.	5 A	85	56	141	105	246	275	141	130	4	..
"	"	5 B	34	24	58	44	102	125	58	67	..	..
"	"	6 A	59	49	108	69	177	200	108	92	..	..
"	"	6 B	28	27	55	21	76	100	55	45	..	..
"	"	7 A	116	113	229	84	313	325	229	94	2	..
"	"	7 B	67	27	94	36	130	150	56	56	..	..
"	"	8 A	104	58	162	64	226	250	162	86	1	..
"	"	8 B	102	71	173	40	213	225	173	51	..	..
"	"	8 C	85	62	147	61	208	225	147	77	1	..
St. John's Ward.	No.	9 A	75	40	115	66	181	200	115	85	..	..
"	"	9 B	80	60	140	91	231	250	140	110	..	..
"	"	9 C	73	56	129	71	200	225	129	96	..	..
"	"	10	92	86	178	120	298	325	178	146	1	..
"	"	11 A	74	63	137	96	233	250	137	111	2	..
"	"	11 B	79	86	165	84	249	275	165	107	3	..
"	"	11 C	88	61	149	91	226	250	149	100	1	..
St. David's Ward	No.	12 A	100	103	203	77	294	325	203	120	2	..
"	"	12 B	81	98	179	79	258	275	179	95	1	..
"	"	12 C	86	71	157	93	250	275	157	118	..	..
"	"	13 A	149	107	256	153	409	425	256	167	2	..
"	"	13 B	87	56	143	60	203	225	143	81	..	..
"	"	14 A	74	54	128	64	192	225	128	97	..	..
"	"	14 B	77	79	156	65	221	250	156	93	1	..
"	"	14 C	70	72	142	77	219	250	142	101	1	..
St. Andrew's Ward.	No.	15 A	90	55	145	69	214	225	145	80	..	..
"	"	15 B	103	64	167	71	238	250	167	82	1	..
"	"	15 C	95	75	170	68	238	250	170	79	1	..
"	"	16 A	71	75	146	87	233	250	146	103	1	..
"	"	16 B	68	80	148	78	226	250	148	102	..	..
"	"	16 C	37	55	92	79	171	200	92	107	1	..
"	"	17 A	116	63	179	81	260	275	179	95	1	..
"	"	17 B	77	93	170	93	263	275	170	104	1	..
"	"	17 C	99	57	156	82	238	250	156	94	..	..
"	"	18 A	140	95	235	91	326	350	235	112	3	..
"	"	18 B	33	31	64	47	111	125	64	61	..	..
St. James' Ward.	No.	19 A	91	57	148	82	230	250	148	101	1	..
"	"	19 B	54	43	97	87	184	200	97	103	..	..
"	"	19 C	73	63	136	72	208	225	136	89	..	..
"	"	20 A	78	38	116	66	182	200	116	84	..	..
"	"	20 B	66	54	120	69	189	200	120	80	1	..
"	"	20 C	54	79	133	97	230	250	133	116	1	..
"	"	21 A	122	94	216	110	326	350	216	134	..	..

RETURN FROM THE RECORDS OF THE BY-ELECTIONS TO THE LEGISLATIVE ASSEMBLY IN 1931—Continued

Electoral District	Numbers of Polling Places	Names of Candidates and Number of Votes Polled for Each	Voters at each Polling Place			Ballot Papers sent out and how disposed of in each Polling Place					
			Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
South Wellington—Con.	St. James Ward.....	No. 21 B	121	39	160	175	121	54	2	1	.....
	"	" 22	207	75	282	300	207	90	2	.....	.....
	Advance Poll.....	No. 1 A	22	.....	.....	100	22	78	.....	.....	.....
	Elora Village.....	" 1 B	177	57	234	275	177	98	.....	.....	.....
	"	" 2 A	65	30	95	125	65	58	.....	.....	.....
	"	" 2 B	202	62	264	300	202	97	1	.....	.....
	Fergus Village.....	No. 1 A	225	127	352	375	225	150	.....	.....	.....
	"	" 1 B	129	47	176	200	129	71	.....	.....	.....
	"	" 2 A	189	132	321	350	189	160	1	.....	.....
	"	" 2 B	72	60	132	175	72	103	.....	.....	.....
	"	" 3 A	127	200	480	500	280	218	2	.....	.....
	"	" 3 B	41	77	170	200	93	107	.....	.....	.....
	Guelph Township.....	No. 1	193	116	309	325	193	131	1	.....	.....
"	" 2 A	59	190	257	275	190	84	.....	.....	.....
"	" 2 B	33	65	26	91	65	59	1	.....	.....
"	" 3	111	171	28	199	225	171	54	.....	.....
"	" 4	95	199	36	235	199	50	1	.....	.....
"	" 5 A	96	121	.....	120	121	29	.....	.....	.....
"	" 5 B	109	40	150	175	149	25	1	.....	.....
"	" 5 C	92	124	4	128	150	124	25	.....	.....
Nichol	No. 1	47	163	68	231	250	163	87	.....	.....
"	" 2	48	112	95	207	225	112	111	1	.....
"	" 3	80	200	94	294	325	200	124	1	.....
"	" 4	38	94	106	200	225	94	131	.....	.....
Eramosa Township.....	No. 1 A	138	299	49	348	299	76	.....	.....	.....

"	"	59	68	127	29	156	175	127	24	.....
"	"	91	112	203	36	239	250	203	47	.....
"	"	55	128	183	43	226	250	183	63	4
"	"	42	100	142	57	199	225	142	83	.....
"	"	41	102	143	68	211	225	143	82	.....
Puslinch Township	"	50	90	140	87	227	250	140	108	.....
"	"	35	124	159	92	251	275	159	116	.....
"	"	68	122	190	84	274	300	190	107	2
"	"	27	97	124	43	167	200	124	74	2
"	"	46	68	114	28	142	175	114	61	.....
"	"	39	57	96	80	176	200	96	102	2
"	"	15	98	113	29	142	175	113	61	1
Pitkington Township	No. 1	39	115	154	69	223	250	154	93	1
"	"	20	82	102	98	200	225	102	123	.....
"	"	35	144	179	65	244	275	179	96	.....
Totals	.....	7,001	7,292	14,293	6,734	21,004	23,250	14,293	8,834	66
Majority for Munro	.....		291							11
	.....									13

Total number of printed ballots not distributed to D.R.O.'s: 1,750.

Total number of ballot paper printed: 25,000.

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Sessional papers.
Vol.63, pt.4 (1931)

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