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CANADA

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FOREWORD

This bulletin gives a preliminary report on Births, Deaths and Marriages for the month of December 1923 for the Registration Area of Canada comprising the provinces of Prince Edward Island, Nova Scotia, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia. In comparing the figures for December 1923 with those of the same month in the three previous years, it should be remembered that for the previous years the reports represent the final figures, while those for 1923 are provisional.

BIRTHS

Birth returns for Canada (exclusive of Quebec) numbered 11,439, being 5,932 males and 5,507 females in December 1923, as compared with 12,191 in December 1922; 13,727 in December 1921 and 12,376 in December 1920. The equivalent annual birth rate per 1,000 population for the month was 20.2 in 1923; 22.0 in 1922; 20.2 in 1921 and 23.2 in 1920.

Total births and equivalent annual birth rates per 1,000 population by provinces are given in Table 1.

TABLE 1.- BIRTHS BY PROVINCES IN DECEMBER 1923, 1922, 1921, 1920.

Provinces	Births (Stillbirths excluded)				Equivalent annual birth rate per 1,000 population			
	1923	1922	1921	1920	1923	1922	1921	1920
P.E. Island	123	169	162	159	16.5	22.5	21.5	21.0
Nova Scotia	882	924	1,072	980	19.5	20.6	24.1	22.2
New Brunswick	799	847	953	832	23.7	25.4	28.9	25.5
Ontario	5,136	5,440	5,804	5,501	20.0	21.5	23.3	22.4
Manitoba	1,236	1,297	1,549	1,324	22.6	24.4	29.9	26.0
Saskatchewan	1,503	1,636	1,957	1,630	21.7	24.5	33.3	26.1
Alberta	1,032	1,166	1,348	1,228	19.2	22.5	27.0	25.4
Br. Columbia	728	712	882	722	16.1	16.2	20.6	17.3
Totals	11,439	12,191	13,727	12,376	20.2	22.0	20.2	23.2

Of the total births (11,439) reported for the Registration Area in December, 11,204 were single births, 114 twins (228 infants) and 1 set of triplets (3 infants) and 1 set of quadruplets (4 infants). During the month 457 stillbirths were reported, making a total of 11,777 confinements, as against 11,413 in November and 12,337 in October.

The living births are distributed in the next table by sex and number of children.

TABLE 2.- LIVING BIRTHS CLASSIFIED ACCORDING TO SEX AND WHETHER SINGLE OR PLURAL, DECEMBER, 1923.

Provinces	Total	Male	Female	Single Births	Pairs Twins	Sets Tri- plets	Sets Quad- ruplets
P.E. Island	123	57	66	121	1	-	-
Nova Scotia	882	451	431	866	8	-	-
New Brunswick	799	417	382	781	7	-	1
Ontario	5,136	2,674	2,462	5,043	45	1	-
Manitoba	1,236	633	603	1,204	16	-	-
Saskatchewan	1,503	787	716	1,483	10	-	-
Alberta	1,032	525	507	1,004	14	-	-
British Columbia	728	388	340	702	13	-	-
Totals	11,439	5,932	5,507	11,204	114	1	1

(2)

Stillbirths reported in December were distributed as follows: Prince Edward Island 3; Nova Scotia 20; New Brunswick 39; Ontario 252; Manitoba 41; Saskatchewan 53; Alberta 26; British Columbia 23, a total for the eight provinces of 457.

There were also reported 15 instances of twin births in which one child was stillborn; 4 in Nova Scotia; 1 in New Brunswick; 6 in Ontario; 2 in Saskatchewan; 1 in Alberta; 1 in British Columbia. These instances are included as single births in the tables.

The number of living births reported in each of the 13 cities with a population of 30,000 and over is given in Table 3. In 9 of the cities there were fewer births reported in December 1923 than in December 1922. In only three cities, Windsor, Regina and Vancouver was the number of living births reported equal to or greater in December 1923 than in December 1920.

TABLE 3.- BIRTHS IN CITIES OF 30,000 AND OVER, DECEMBER 1923, 1922, 1921, 1920

Cities of 30,000 and over	1923	1922	1921	1920
Toronto	987	1,037	1,024	1,037
Hamilton	232	249	294	280
Ottawa	209	232	318	230
London	93	103	92	106
Windsor	132	122	118	120
Winnipeg	369	417	517	414
Regina	93	86	91	62
Calgary	141	146	171	180
Edmonton	150	149	178	169
Vancouver	215	224	273	206
Victoria	69	66	65	80
Halifax	112	139	144	131
St. John	100	102	102	112

INFANTILE MORTALITY

Table 4 gives the number of children under one year of age who died in December 1923, 22, 21 and 20, together with the infant mortality rate per 1,000 living births.

In ~~October~~ ^{December} the death rate among children under 1 year of age of 75.8 per 1,000 living births was the same as recorded for ~~October~~ ^{December} 1921. In December 1922 it was 93.8 and in 1920, 95.2 per 1,000 living births. The general average for the four years 1920-1923 for the month was 85.0 per 1,000 living births. As compared with 1922 every province except Prince Edward Island shows a marked betterment.

TABLE 4.- INFANT MORTALITY BY TOTALS FOR PROVINCES, DECEMBER 1923, 1922, 1921, 1920, TOGETHER WITH THE RATE PER 1,000 LIVING BIRTHS

Provinces	Infant Deaths				Infant death rate per 1,000 living births			
	1923	1922	1921	1920	1923	1922	1921	1920
P.E. Island	13	12	12	16	105.7	71.0	74.1	100.6
Nova Scotia	77	106	101	92	87.3	114.7	94.2	93.9
New Brunswick	71	76	73	106	88.9	89.7	76.6	127.4
Ontario	380	529	455	499	74.0	97.2	78.4	90.7
Manitoba	88	120	119	137	71.2	92.5	76.8	103.5
Saskatchewan	118	139	136	138	78.5	85.0	69.5	84.7
Alberta	76	114	81	137	73.6	97.8	60.1	111.6
British Columbia	44	47	64	53	60.4	66.0	72.2	73.4
Totals	867	1,143	1,041	1,178	75.8	93.8	75.8	95.2

Of the total number of infant deaths reported for December in the Registration Area, 88 per cent or 760 out of 867 were attributable to the 13 causes of death listed in Table 5. The mortality among male children under one year was 82 per 1,000 males born or 487 deaths to 5,932 living male births in the month, while the mortality for females under one year was 69 per 1,000 females born or 330 deaths to 5,507 living female births.

TABLE 5.- MORTALITY OF CHILDREN UNDER ONE YEAR OF AGE FOR CERTAIN PRINCIPAL CAUSES OF DEATH, AND BY SEX IN PROVINCES, DECEMBER 1923.

Causes of Death		Eight Provinces	P.E. Island	Nova Scotia	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
Premature Birth	T	211	1	10	11	104	10	25	28	22
	M	113	1	6	7	63	5	10	10	11
	F	98	-	4	4	41	5	15	18	11
Injury at Birth	T	43	-	3	1	25	6	4	4	-
	M	25	-	2	1	13	4	2	3	-
	F	18	-	1	-	12	2	2	1	-
Gastro-Intestinal Diseases	T	58	-	6	5	18	12	12	3	2
	M	37	-	5	2	9	9	9	2	1
	F	21	-	1	3	9	3	3	1	1
Congenital Debility	T	115	3	15	14	48	9	15	8	3
	M	57	2	4	5	28	4	8	4	2
	F	58	1	11	9	20	5	7	4	1
Pneumonias	T	113	1	10	10	46	16	17	11	2
	M	66	1	6	7	28	11	8	4	1
	F	47	-	4	3	18	5	9	7	1
Bronchitis	T	11	-	2	-	6	-	2	1	-
	M	9	-	2	-	4	-	2	1	-
	F	2	-	-	-	2	-	-	-	-
Congenital Malformations	T	77	2	4	3	46	6	8	2	6
	M	42	1	2	2	25	5	3	-	4
	F	35	1	2	1	21	1	5	2	2
Convulsions	T	27	1	8	1	9	-	7	1	-
	M	17	1	5	1	5	-	5	-	-
	F	10	-	3	-	4	-	2	1	-
Whooping Cough	T	32	-	4	5	13	5	3	2	-
	M	18	-	3	3	5	5	-	2	-
	F	14	-	1	2	8	-	3	-	-
Communicable Diseases	T	22	-	2	3	4	2	5	3	3
	M	15	-	2	2	1	1	4	3	2
	F	7	-	-	1	3	1	1	-	1
Syphilis	T	3	-	-	-	2	1	-	-	-
	M	3	-	-	-	2	1	-	-	-
	F	-	-	-	-	-	-	-	-	-
Meningitis	T	6	1	-	1	2	-	-	1	1
	M	6	1	-	1	2	-	-	1	1
	F	-	-	-	-	-	-	-	-	-
Other Causes in early infancy	T	42	-	1	2	23	6	6	2	2
	M	22	-	-	2	15	2	2	1	-
	F	20	-	1	-	8	4	4	1	2
All Other Causes	T	107	4	12	15	34	15	14	10	3
	M	57	1	8	5	22	8	10	3	-
	F	50	3	4	10	12	7	4	7	3
Total Both Sexes		867	13	77	71	380	88	118	76	44
" Males		487	8	45	38	222	55	63	34	22
" Females		380	5	32	33	158	33	55	42	22
Rate per 1,000 living births		75.8	105.7	87.3	88.9	74.0	71.2	78.5	73.6	60.4

T.- Total: M.- Males: F.- Females

(4)

MATERNAL MORTALITY

The statistics relative to Maternal Mortality are given in Tables 6 and 7. In Table 6 the deaths are classified according to the age of decedents and rate per 1,000 living births, while in Table 7 the Mortality is distributed according to the 1920 International List of Causes of Death.

TABLE 6.- MATERNAL MORTALITY, DECEMBER 1923, BY AGE GROUPS

Age Groups	Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
15 - 19	9	-	2	-	5	1	-	1	-
20 - 24	9	-	-	2	4	-	2	1	-
25 - 29	9	-	1	-	3	-	4	1	-
30 - 39	35	2	5	1	12	3	3	6	1
40 - 49	12	-	1	1	6	2	-	2	-
50 and over	-	-	-	-	-	-	-	-	-
Age not stated	-	-	-	-	-	-	-	-	-
Totals	72	2	9	4	30	6	9	11	1
Rate per (1923)	6.3	16.3	10.2	5.0	5.8	4.9	6.0	10.7	1.4
1,000 living (1922)	5.7	-	3.2	9.4	4.8	6.2	6.1	11.1	2.8
births (1921)	5.0	-	4.7	3.1	5.3	5.2	4.1	8.2	3.4

TABLE 7.- MATERNAL MORTALITY BY CAUSES OF DEATH, DECEMBER 1923

Causes of Death	Total	P.E. Island	Nova Scotia	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
Accidents of pregnancy	6	-	2	-	2	-	1	-	-
(a) Abortion	2	-	1	-	-	-	1	-	-
(b) Ectopic gestation	2	-	1	-	1	-	-	-	-
(c) Other accidents of pregnancy	2	-	-	-	2	-	-	-	-
Puerperal haemorrhage	11	-	3	-	4	1	1	2	-
Other accidents of childbirth	12	-	1	2	3	1	2	2	1
(a) Caesarean section	1	-	-	-	-	-	-	1	-
(b) Other surgical operations and instrumental delivery	3	-	-	-	1	-	-	1	1
(c) Others under this title	8	-	1	2	2	1	2	-	-
Puerperal sepsis	20	-	1	1	8	3	3	4	-
Phlegmasia alba dolens; puerperal embolism or sudden death in puerperium	8	-	1	-	4	-	1	2	-
Puerperal albuminuria and convulsions	12	2	1	1	5	1	1	1	-
Following childbirth (not otherwise defined)	3	-	-	-	3	-	-	-	-
Puerperal diseases of the breast	-	-	-	-	-	-	-	-	-
Totals	72	2	9	4	30	6	9	11	1

MORTALITY (All Causes)

Total deaths in an estimated population of 6,691,000 for December numbered 5,123, as against 5,840, in a population of 6,552,000 in December 1922 and 5,537 in a population of 6,414,000 in December 1921. The equivalent annual death rate for December 1923 was 9.0 per 1,000 population, as compared with 10.5 and 10.2 in December 1922 and 1921.

TABLE 8.- TOTAL DEATHS AND DEATH RATES BY PROVINCES, DECEMBER 1923, 1922, 1921, 1920

Provinces	Total Deaths				Equivalent annual death rate per 1,000 pop'n.			
	1923	1922	1921	1920	1923	1922	1921	1920
P.E. Island	73	93	101	121	9.8	12.4	13.4	16.0
Nova Scotia	582	576	516	563	12.9	12.8	11.6	12.7
New Brunswick	357	414	420	444	10.6	12.4	12.7	13.6
Ontario	2,520	2,037	2,833	2,836	9.8	12.0	11.4	11.6
Manitoba	397	438	434	466	7.3	8.2	8.4	9.2
Saskatchewan	462	461	465	449	6.7	6.9	7.2	7.2
Alberta	333	406	378	460	6.2	7.8	7.6	9.5
Br. Columbia	399	415	390	377	8.8	9.4	9.1	9.0
Totals	5,123	5,840	5,537	5,716	9.0	10.5	10.2	10.7

Of the total number (5,123) of deaths reported in the month more than one-third of them were credited to Diseases of the Heart; Cancer, Pneumonia and Tuberculosis. Cancer claimed the second place as the most fatal cause of death with an average of 87 deaths out of every 1,000 reported.

TABLE 9.- DEATHS BY CERTAIN SPECIFIED CAUSES BY PROVINCES, DECEMBER 1923

Causes of Death	Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
Diseases of the heart	643	5	70	42	333	43	46	31	73
Pneumonia	398	3	40	25	170	56	49	35	20
Cancer	442	5	44	26	225	42	40	21	39
Tuberculosis of the lungs	271	7	55	23	114	19	23	13	17
Tuberculosis, other organs	54	-	6	8	24	4	4	5	3
Diseases of Arteries	290	3	24	11	196	21	10	9	16
Diarrhoea and Enteritis	82	1	6	5	28	15	19	3	5
Congenital Malformations	87	2	5	3	51	8	10	2	6
Congenital Debility	115	3	15	14	48	9	15	8	3
Premature Birth	211	1	10	11	104	10	25	28	22
Injury at birth	43	-	3	1	25	6	4	4	-
Convulsions (under 5 years)	26	1	10	2	9	-	2	2	-
Maternal Mortality	72	2	9	4	30	6	9	11	1
Senility	223	7	72	29	88	6	7	4	10
Cerebral Haemorrhage	184	2	24	9	112	5	11	10	11
Influenza	62	1	6	3	31	-	6	8	7
Nephritis	208	3	27	19	107	14	9	11	18
Diphtheria	96	4	2	1	34	15	26	11	3
Bronchitis	54	1	9	2	26	6	4	4	2
Appendicitis	70	-	9	3	30	6	6	11	5
anaemia chlorosis	56	1	1	3	40	1	-	3	7
Paralysis	62	5	15	7	25	2	2	2	4
Diabetes mellitis	48	1	5	4	23	2	3	4	6
All other causes	1,326	15	115	102	647	101	132	93	121
Totals	5,123	73	582	357	2,520	397	462	333	399

(6)

TABLE 10.- DEATHS FROM CANCER BY SEX, DECEMBER 1923

Kinds		Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
Total		442	5	44	26	225	42	40	21	39
	M	208	3	24	9	96	24	21	11	20
	F	234	2	20	17	129	18	19	10	19
Buccal Cavity	M	22	1	2	-	9	3	3	3	1
	F	3	-	1	-	2	-	-	-	-
Stomach & Liver	M	97	1	12	6	40	10	10	5	13
	F	74	1	9	4	41	10	6	1	2
Peritoneum, intestines and rectum	M	38	1	4	1	23	3	3	-	3
	F	41	-	1	6	21	1	3	4	5
Female genital organs	M	55	1	2	4	30	3	9	1	5
Breast	F	39	-	3	2	27	1	-	2	4
Skin	M	4	-	1	-	2	-	-	-	1
	F	4	-	1	-	1	1	-	-	1
Unspecified organs	M	47	-	5	2	22	8	5	3	2
	F	18	-	3	1	7	2	1	2	2

TABLE 11.- DEATHS FROM TUBERCULOSIS BY SEX, DECEMBER 1923

Kinds		Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
Total		325	7	61	31	138	23	27	18	20
	M	146	1	29	12	64	11	11	7	11
	F	179	6	32	19	74	12	16	11	9
Respiratory System	M	124	1	25	8	54	9	11	6	10
	F	147	6	30	15	60	10	12	7	7
Meninges and central nervous system	M	5	-	1	1	3	-	-	-	-
	F	12	-	1	2	5	2	2	-	-
Intestines and peritoneum	M	5	-	-	1	2	-	-	1	1
	F	9	-	-	1	7	-	-	1	-
Vertebral column	M	1	-	-	1	-	-	-	-	-
	F	4	-	1	-	2	-	-	1	-
Joints	M	2	-	-	-	1	1	-	-	-
	F	1	-	-	-	-	-	-	1	-
Other organs	M	4	-	1	1	1	1	-	-	-
	F	3	-	-	-	-	-	2	-	1
Disseminated	M	5	-	2	-	3	-	-	-	-
	F	3	-	-	1	-	-	-	1	1

TABLE 12.- DEATHS BY CERTAIN SPECIFIED CAUSES IN CITIES OF 30,000
AND OVER, DECEMBER 1923

Causes of Death	Total	Toronto	Hamilton	Ottawa	London	Windsor	Winnipeg	Regina	Calgary	Edmonton	Vancouver	Victoria	Halifax	St. John
Diseases of the heart	199	71	12	10	7	4	21	2	8	5	29	9	10	11
Pneumonia	99	29	4	10	4	7	12	3	4	9	6	-	5	6
Cancer	137	49	11	10	7	4	15	2	6	4	15	7	4	3
Tuberculosis of the lungs	55	14	3	5	5	-	5	1	2	2	5	3	8	2
Tuberculosis, other organs	27	10	-	3	1	1	1	-	-	3	1	1	1	5
Diseases of the Arteries	88	36	4	10	13	3	11	-	2	2	3	-	2	2
Diarrhoea and Enteritis	19	7	2	3	-	-	2	1	-	1	1	1	-	1
Congenital Malformations	24	13	1	2	1	-	2	1	-	-	2	1	1	-
Congenital Debility	24	8	1	2	2	2	1	-	-	2	-	1	1	4
Premature birth	56	16	4	5	1	6	4	-	3	5	8	2	1	4
Injury at birth	13	5	2	1	1	1	2	-	-	1	-	-	-	-
Convulsions (under 5 years)	6	-	-	-	-	-	-	-	-	1	-	-	4	1
Maternal Mortality	19	6	1	2	-	2	1	2	1	2	-	-	1	1
Senility	26	8	1	4	3	-	1	-	1	-	-	3	2	3
Cerebral Haemorrhage, apoplexy	39	14	5	-	3	1	-	-	2	2	2	5	4	1
Influenza	8	4	-	-	-	2	-	-	1	-	1	-	-	-
Nephritis	73	19	8	4	6	2	7	4	2	5	9	2	4	1
Diphtheria	19	8	1	3	-	1	2	1	2	-	1	-	-	-
Bronchitis	12	5	1	2	-	-	2	-	-	1	1	-	-	-
Appendicitis	27	5	4	2	-	1	3	3	1	-	4	-	3	1
Anaemia chlorosis	20	7	-	1	2	2	1	-	-	1	3	1	1	1
Paralysis	11	5	1	-	2	1	-	-	-	-	-	1	-	1
Diabetes mellitis	18	6	1	1	-	-	-	1	2	-	5	-	-	2
All other causes	352	116	22	38	14	16	25	12	20	16	35	8	16	14
Totals	1,371	461	89	118	72	56	118	33	57	62	131	45	68	61

MARRIAGES

The equivalent annual marriage rate for December 1923 was slightly higher for the registration area as a whole than that reported for the same month in 1922 or 1921, but considerably lower than the rate reported for 1920, when it was 9.6 per 1,000 population. As compared with the same month in 1922, Prince Edward Island, Manitoba and British Columbia show a falling off.

TABLE 13.-MARRIAGES REPORTED IN DECEMBER 1923, 1922, 1921, 1920

Provinces	Number				Equivalent annual rate per 1,000 population			
	1923	1922	1921	1920	1923	1922	1921	1920
P.E. Island	39	47	24	44	5.2	6.3	3.2	5.8
Nova Scotia	260	219	253	334	5.7	4.9	5.7	7.6
New Brunswick	223	167	180	257	6.6	5.6	5.5	7.9
Ontario	1,996	1,942	1,710	2,299	7.8	7.7	6.7	9.4
Manitoba	395	414	428	597	7.2	7.8	8.3	11.7
Saskatchewan	674	627	653	628	9.7	9.4	10.1	10.1
Alberta	542	451	444	526	10.1	8.7	8.9	10.9
Br. Columbia	359	354	320	415	7.9	8.3	7.5	10.0
Totals	4,488	4,241	4,012	5,100	7.9	7.6	7.4	9.6

