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### FORWORD

This Bulletin gives a preliminary report on Births, Deaths and Marriages for the month of October 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 October 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 12,020 being 6,175 males and 5,845 females in October 1923, as compared with 13,021 in October 1922; 13,752 in October 1921 and 12,835 in October 1920. The equivalent annual birth rate per 1,000 population for the month was 21.2 in 1923; 23.5 in 1922; 25.3 in 1921 and 24.1 per 1,000 population 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 OCTOBER 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	120	189	174	189	16.1	25.2	23.1	24.6
Nova Scotia	947	987	1,103	1,061	20.2	22.0	24.3	24.1
New Brunswick	769	824	907	769	22.8	24.7	27.5	23.6
Ontario	5,352	5,702	5,909	5,587	20.8	22.5	23.7	22.8
Manitoba	1,379	1,355	1,537	1,443	25.3	25.5	29.7	28.4
Saskatchewan	1,558	1,756	1,896	1,747	22.5	26.3	29.5	28.0
Alberta	1,196	1,348	1,345	1,189	22.2	20.7	26.9	24.5
British Columbia	699	860	881	850	15.4	19.5	20.5	20.4
Totals	12,020	13,021	13,752	12,835	21.2	23.5	25.3	24.1

Of the total births (12,020) reported for the Registration Area in October 11,766 were single births, 124 twins (248 infants) and 2 sets of triplets (6 infants). During the month 445 stillbirths were reported, making a total of 12,337 confinements, as against 12,999 in September and 12,852 in August.

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  
OCTOBER 1923

Provinces	Total	Male	Female	Single Births	Pairs of Twins	Sets of Triplets
P.E. Island	120	52	68	118	1	-
Nova Scotia	947	486	461	923	12	-
New Brunswick	769	417	352	750	8	1
Ontario	5,352	2,774	2,578	5,227	61	1
Manitoba	1,379	706	673	1,359	10	-
Saskatchewan	1,558	795	763	1,534	12	-
Alberta	1,196	604	592	1,170	13	-
British Columbia	699	341	358	685	7	-
Totals	12,020	6,175	5,845	11,766	124	2

(2)

Stillbirths reported in October were distributed as follows: Prince Edward Island 2; Nova Scotia 28; New Brunswick 15; Ontario 268; Manitoba 40; Saskatchewan 39; Alberta 36; British Columbia 17, a total for the eight provinces of 445.

There were also reported 8 instances of twin births in which one child was stillborn; 6 in Ontario; 1 in Manitoba; 1 in Alberta. 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 6 of the cities there were fewer births reported in October 1923 than in October 1922. In five cities, Hamilton, London, Windsor, Edmonton and St. John was the number of living births reported equal to or greater in October 1923 than in October 1920.

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

Cities of 30,000 and over	1923	1922	1921	1920
Toronto	919	1,030	1,006	981
Hamilton	230	230	251	230
Ottawa	216	279	260	249
London	115	112	114	112
Windsor	133	101	102	105
Winnipeg	388	426	538	496
Regina	75	85	96	77
Calgary	146	130	161	164
Edmonton	179	171	166	152
Vancouver	219	272	300	234
Victoria	80	60	83	102
Halifax	110	156	148	117
St. John	105	87	92	89

#### INFANTILE MORTALITY

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

In October the death rate among infants showed a lower rate (87.6) per 1,000 living births than in the same month in 1922, 21 or 20. It is lower by 11.3 than in October 1922, by 1.3 than in 1921 and by 29.3 per 1,000 than in October 1920. The downward trend is shown for all provinces except two.

TABLE 4.- INFANT MORTALITY BY TOTALS FOR PROVINCES, OCTOBER 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.I. land	12	15	10	19	100.0	79.4	57.5	100.5
Nova Scotia	89	103	124	143	94.0	104.4	112.4	134.6
New Brunswick	87	90	115	139	113.1	109.2	126.8	180.8
Ontario	458	530	529	669	85.6	92.9	89.5	119.7
Manitoba	113	152	135	201	82.1	112.2	87.8	139.3
Saskatchewan	159	200	149	176	102.1	113.9	78.6	100.7
Alberta	100	139	120	108	83.6	103.1	80.9	90.8
British Columbia	35	59	41	45	50.1	68.6	46.5	52.9
Totals	1,053	1,288	1,223	1,500	87.6	98.9	88.9	116.9

Of the total number of infant deaths reported for October in the Registration Area 86.2 per cent or 908 out of 1,053 were attributable to the 13 causes of death listed in Table 5. The mortality among male children, under one year, was 98.5 per 1,000 males born, or 608 deaths to 6,175 living male births in the month, while the mortality for females, under one year, was 86.1 per 1,000 females born or 445 deaths to 5,845 living female births.

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

Causes of Death	Eight Provinces			P.E. Island	North Soc'ty	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
	T	M	F								
Premature Birth	213	125	80	12	9	1	122	24	26	12	6
Injury at Birth	45	24	21	1	5	4	70	10	17	5	4
Gastro-Intestinal Diseases	234	135	99	3	12	7	20	89	30	34	33
Congenital Debility	129	77	52	1	24	8	8	56	11	7	3
Pneumonia	85	47	38	1	10	5	4	34	7	4	4
Bronchitis	35	3	3	1	3	1	1	22	4	1	1
Congenital Malformations	78	41	37	1	4	2	1	45	5	11	5
Convulsions	18	15	3	1	2	2	1	20	1	6	-
Whooping Cough	36	20	16	3	2	1	7	5	3	3	2
Communicable Diseases	35	21	14	1	1	2	4	8	7	10	7
Syphilis	7	4	3	1	1	1	2	5	2	3	1
Meningitis	9	9	9	1	1	1	3	3	3	3	1
Other Causes in early infancy	16	8	8	1	2	1	1	2	2	3	2
All Other Causes	145	82	63	2	11	9	32	56	17	14	12
Total Both Sexes	1,053	603	445	12	89	56	87	453	113	159	100
" Males				5	56	59	59	250	57	97	62
" Females				7	33	23	23	203	56	62	38
Rate per 1,000 living births	87.6	100.0	94.0	113.1	85.6	82.1	85.6	82.1	102.1	83.6	50.1

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, OCTOBER 1923, BY AGE GROUPS

Age Groups	Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
15-19	4	-	1	1	3	1	1	1	1
20-24	12	-	1	-	5	2	3	2	2
25-29	15	-	3	-	5	1	2	3	1
30-39	35	-	5	1	11	7	6	2	3
40-49	7	-	1	-	4	1	-	1	1
50 and over	1	-	-	-	1	-	-	-	-
Age not stated	-	-	-	-	-	-	-	-	-
Totals	74	-	11	2	24	10	12	7	8
Rate per 1,000 living births (1923)	6.2	-	11.6	2.6	4.5	7.3	7.7	5.9	1.1
1,000 living births (1922)	5.3	5.3	8.1	6.1	4.7	4.4	5.1	5.9	5.8
births (1921)	5.2	-	3.6	6.6	4.6	3.9	6.9	7.4	5.7

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

Causes of Death	Total	P.E.I.	Nova Scotia	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
Accidents of pregnancy	17	-	2	-	6	2	4	2	2
(a) Abortion	8	-	1	-	1	1	1	1	1
(b) Ectopic gestation	5	-	1	-	2	1	1	1	1
(c) Other accidents of pregnancy	4	-	1	-	3	1	1	1	-
Puerperal haemorrhage	5	-	3	-	2	3	1	1	-
Other accidents of childbirth	5	-	1	-	1	1	1	1	1
(a) Caesarean section	1	-	1	-	1	1	1	1	1
(b) Other surgical operations and instrumental delivery	-	-	1	-	1	1	1	1	-
(c) Others under this title	4	-	1	-	1	1	1	1	-
Puerperal sepsis	21	-	3	-	8	3	4	2	1
Phlegmasia alba dolens; puerperal embolism or sudden death in puerperium	6	-	1	1	-	1	2	-	1
Puerperal albuminuria and convulsions	18	-	1	1	8	3	1	3	1
Following childbirth (not otherwise defined)	2	-	-	-	-	-	-	-	2
Puerperal diseases of the breast	-	-	-	-	-	-	-	-	-
Totals	74	-	11	2	24	10	12	7	8

MORTALITY (All Causes)

Total deaths in an estimated population of 6,691,000 for October numbered 5,214, as against 5,711 in a population of 6,552,000 in October 1922 and 5,564 in a population of 6,414,000 in October 1921. The equivalent annual death rate for October 1923 was 9.2 per 1,000 population, as compared with 10.3 and 10.2 in October 1922 and 1921.

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

Provinces	Total Deaths				Equivalent annual death rate per 1,000 population			
	1923	1922	1921	1920	1923	1922	1921	1920
P.E.I.	92	88	90	92	12.3	11.7	12.0	12.2
Nova Scotia	499	519	522	614	11.0	11.6	11.7	13.9
New Brunswick	370	432	439	470	11.0	13.0	13.3	14.4
Ontario	2,574	2,814	2,811	2,926	10.0	11.1	11.3	11.9
Manitoba	443	507	466	571	8.1	9.5	9.0	11.2
Saskatchewan	492	555	481	503	7.1	8.3	7.5	8.1
Alberta	360	434	401	392	6.7	8.4	8.0	8.1
British Columbia	384	362	354	322	8.5	8.2	8.3	7.7
Totals	5,214	5,711	5,564	5,890	9.2	10.3	10.2	11.0

Of the total number (5,214) of deaths reported in October, "Diseases of the heart" claimed 13.3 per cent, Pneumonia about 10 per cent and Cancer and Tuberculosis each better than 8 per cent of all deaths.

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

Cause of Death	Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
Diseases of the heart	587	10	51	35	350	43	28	29	41
Pneumonia	320	5	32	17	170	23	33	24	16
Cancer	445	7	40	24	240	40	25	27	42
Tuberculosis of the lungs	262	4	37	21	123	30	17	8	22
Tuberculosis, other organs	69	1	11	4	27	7	5	7	7
Diseases of the Arteries	243	1	21	5	162	14	9	7	24
Diarrhoea and Enteritis	315	5	16	24	117	36	60	44	13
Congenital Malformations	86	1	5	-	48	6	8	12	6
Congenital Debility	131	-	24	9	57	11	20	7	35
Premature birth	214	2	12	9	123	24	26	12	55
Injury at birth	45	-	5	2	16	6	6	6	4
Convulsions (under 5 yrs.)	19	1	2	1	4	1	8	-	2
Maternal Mortality	74	-	11	2	24	10	12	7	8
Senility	195	7	36	35	82	9	10	11	5
Cerebral Haemorrhage	192	6	16	22	113	9	9	6	11
Influenza	52	-	3	11	21	9	4	2	2
Nephritis	211	6	19	5	129	15	11	17	9
Diphtheria	70	1	3	4	22	13	15	8	4
Bronchitis	28	-	4	1	15	2	2	2	2
Appendicitis	83	2	4	9	28	6	13	16	5
Anaemia Chlorosis	37	-	-	2	22	4	2	2	5
Paralysis	49	1	8	2	24	4	1	3	6
Diabetes mellitus	50	3	6	-	25	4	6	3	3
All other causes	1,437	29	133	126	632	117	162	100	138
Totals	5,214	92	499	370	2,574	443	492	360	384

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

Kinds		Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask	Alta.	B.C.
	M									
	F									
Total		445	7	40	24	240	40	25	27	42
	M	203	4	14	11	102	23	17	13	19
	F	242	3	26	13	138	17	8	14	23
Buccal Cavity	M	15	-	2	1	10	-	1	-	1
	F	5	-	-	-	5	-	-	-	-
Stomach & Liver	M	91	1	8	7	40	12	7	8	9
	F	85	2	13	4	42	6	4	5	7
Peritoneum, intestines and rectum	M	30	-	2	-	15	1	4	5	3
	F	39	-	3	3	24	2	1	3	3
Female genital organs	F	46	-	5	2	26	6	1	2	4
Breast	F	34	-	5	1	21	1	1	-	5
Skin	M	11	-	-	1	8	-	1	-	1
	F	3	1	-	-	2	-	-	-	-
Unspecified organs	M	56	3	2	2	39	10	4	-	6
	F	32	-	-	3	18	2	1	4	4

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

Kinds		Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask	Alta.	B.C.
	M									
	F									
Total		331	5	48	25	150	37	22	15	29
	M	171	2	24	6	81	17	14	8	13
	F	160	3	24	19	69	20	8	7	10
Respiratory System	M	139	2	18	5	66	16	12	5	15
	F	123	2	19	16	57	14	5	3	7
Meninges and central nervous system	M	11	-	2	-	5	-	2	-	2
	F	9	-	-	-	4	-	1	3	1
Intestines and peritoneum	M	4	-	-	1	2	-	-	1	-
	F	12	1	3	1	4	2	-	1	-
Vertebral column	M	4	-	-	1	2	-	-	1	-
	F	5	-	-	1	2	2	-	1	-
Joints	M	2	-	-	1	-	-	1	-	-
	F	-	-	-	-	-	-	-	-	-
Other Organs	M	7	-	-	-	4	-	-	1	2
	F	5	-	-	1	2	-	1	-	1
Disseminated	M	4	-	-	2	-	2	-	-	-
	F	6	-	-	2	-	-	1	-	1

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

Causes of Death	Total	Toronto	Hamilton	Ottawa	Toronto	Windsor	Winnipeg	Rogers	Calgary	Edmonton	Vancouver	Victoria	Halifax	Saint John
Diseases of the heart	157	70	17	18	6	3	16	2	1	4	7	3	6	4
Pneumonia	83	32	6	6	5	3	7	3	7	4	5	7	3	2
Cancer	139	50	10	12	9	5	16	1	3	3	17	7	4	2
Tuberculosis of the lungs	70	17	4	7	10	2	10	1	-	1	7	4	6	1
Tuberculosis, other organs	25	7	-	1	3	2	-	1	-	2	3	1	4	1
Diseases of the Arteries	66	22	1	5	16	3	3	1	1	-	6	4	3	1
Diarrhoea and Enteritis	65	18	1	3	5	2	6	4	7	8	1	1	7	2
Congenital Malformations	30	13	1	3	-	2	3	2	1	1	3	-	1	-
Congenital Debility	30	8	3	2	1	-	3	2	2	1	2	-	4	1
Premature birth	56	24	4	4	1	3	2	1	2	1	4	-	1	4
Injury at birth	12	2	-	1	-	1	2	2	1	1	2	-	-	-
Convulsions (under 5 years)	2	-	-	-	-	-	1	-	-	-	1	-	-	-
Maternal Mortality	20	4	-	2	1	-	3	3	1	2	1	2	-	-
Senility	24	6	-	2	1	1	2	-	1	1	2	-	-	6
Cerebral Haemorrhage, apoplexy	40	7	6	4	1	2	3	-	1	2	-	2	3	9
Influenza	6	2	2	1	-	-	-	-	-	1	2	-	-	-
Nephritis	56	19	3	5	4	3	2	-	1	3	4	2	4	-
Diphtheria	12	5	4	-	1	1	2	-	1	2	1	-	-	-
Bronchitis	6	3	-	-	-	-	2	-	-	1	2	-	-	-
Appendicitis	26	3	2	1	3	1	3	-	1	2	6	-	1	1
Anæmia chloræsis	12	5	2	1	-	-	1	1	-	1	-	1	-	-
Paralysis	13	9	-	1	2	-	1	-	-	-	1	1	1	-
Diabetes mellitus	19	6	1	1	2	-	4	-	1	1	1	-	2	-
All Other Causes	326	110	25	21	20	8	33	11	11	17	31	13	13	13
Totals	1,296	439	92	100	89	42	129	35	46	62	97	44	70	51

MARRIAGES

The equivalent annual marriage rate per 1,000 population has been fairly level for October 1923, 1922 and 1921. There was a sharp decline in the marriage rate in Prince Edward Island of 2.9 and in Alberta of 2.2 per 1,000 population, as compared with the same month in 1922. For the Registration Area as a whole a slight betterment was observed for the month in 1923 over 1922 and 1921.

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

Provinces	Number				Equivalent annual rate per 1,000 population			
	1923	1922	1921	1920	1923	1922	1921	1920
P.E. Island	46	68	51	70	6.2	9.1	6.3	9.3
Nova Scotia	359	335	342	425	7.9	7.5	7.7	9.6
New Brunswick	325	330	281	384	9.9	10.0	8.5	11.8
Ontario	2,498	2,212	2,145	2,674	2.7	8.7	8.7	10.9
Manitoba	447	486	497	648	8.2	9.1	9.6	12.7
Saskatchewan	416	438	367	508	6.0	6.6	5.7	8.1
Alberta	267	373	405	417	5.0	7.2	8.1	8.6
British Columbia	339	319	335	380	7.5	7.2	7.3	9.1
Totals	4,707	4,561	4,423	5,506	8.3	8.2	8.1	10.3

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