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FOREWORD

This bulletin gives a preliminary report on Births, Deaths and Marriages for the month of August 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 August 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 12,985, being 6,643 males and 6,342 females in August 1923, as compared with 14,233 in August 1922, 14,384 in August 1921 and 13,977 in August 1920. The equivalent annual birth rate per 1,000 population for the month was 22.9 in 1923, 25.7 in 1922, 26.5 in 1921 and 26.2 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 AUGUST 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	146	194	193	184	19.5	25.9	25.6	24.3
Nova Scotia	983	1,169	1,128	1,123	21.7	26.1	25.4	25.4
New Brunswick	869	953	922	806	25.8	28.7	30.3	24.7
Ontario	5,943	6,385	6,330	6,151	23.1	24.9	25.4	25.1
Manitoba	1,427	1,530	1,576	1,518	26.1	28.9	30.4	29.9
Saskatchewan	1,671	1,853	1,874	1,928	24.2	27.8	29.1	30.9
Alberta	1,107	1,397	1,340	1,367	20.6	26.9	26.8	25.3
British Columbia	839	819	944	900	18.5	18.6	22.1	21.6
Totals	12,985	14,233	14,384	13,977	22.9	25.7	26.5	26.2

Of the total births (12,985) reported for the Registration Area in August, 12,719 were single births and 133 twins (266 infants). During the month 427 stillbirths were reported, making a total of 12,852 confinements, as against 13,162 in July and 13,039 in June.

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, AUGUST 1923

Provinces	Total	Male	Female	Single Births	Pairs of Twins	Sets of Triplets
P.E. Island	146	74	72	146	-	-
Nova Scotia	983	477	506	961	11	-
New Brunswick	869	423	446	851	9	-
Ontario	5,943	3,048	2,895	5,827	58	-
Manitoba	1,427	721	706	1,393	17	-
Saskatchewan	1,671	857	814	1,645	13	-
Alberta	1,107	588	519	1,095	6	-
British Columbia	839	455	384	801	19	-
Totals	12,985	6,643	6,342	12,719	133	-

Stillbirths reported in August were distributed as follows: Prince Edward Island 0, Nova Scotia 33, New Brunswick 30, Ontario 232, Manitoba 43, Saskatchewan 42, Alberta 22, British Columbia 25, a total for the eight provinces of 427.

There were also reported 7 instances of twin births in which one child was stillborn; 6 in Ontario and 1 in Manitoba. 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 August 1923 than in August 1922. In 4 cities, Ottawa, Windsor, Regina and St. John, the number of living births reported was greater in August 1923 than in August 1920.

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

Cities of 30,000 and over	1923	1922	1921	1920
Toronto	1,083	1,124	1,109	1,108
Hamilton	250	273	291	271
Ottawa	282	294	274	261
London	107	127	111	126
Windsor	135	113	115	97
Winnipeg	444	510	537	514
Regina	79	77	100	76
Calgary	118	158	163	198
Edmonton	160	194	170	185
Vancouver	273	240	273	280
Victoria	68	72	83	93
Halifax	126	150	153	171
St. John	128	104	99	108

INFANTILE MORTALITY

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

The death rate among children under 1 year of age for August was 75.3 per 1,000 living births, as compared with 82.2 per thousand in the same month a year ago and 100.7 in August 1921. The lowest death rate for the month (52.4) was in British Columbia, which, with Ontario, Manitoba and Saskatchewan, was below the general average for the Registration Area. The highest infant mortality rate (99.4) was in Alberta, followed by Prince Edward Island with 82.2 and Nova Scotia with 80.3 per thousand living births.

TABLE 4.-INFANT MORTALITY BY TOTALS FOR PROVINCES, AUGUST 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	12	12	22	12	82.2	61.9	114.0	65.2
Nova Scotia	79	94	125	214	80.3	80.4	110.8	190.6
New Brunswick	67	113	146	243	77.1	118.0	146.1	301.5
Ontario	447	456	690	665	75.2	72.3	109.0	108.1
Manitoba	101	165	140	160	70.8	107.4	88.8	105.4
Saskatchewan	118	148	146	174	70.6	79.9	77.9	90.2
Alberta	110	131	136	129	99.4	93.8	101.5	94.4
British Columbia	44	51	44	45	52.4	62.3	46.6	50.0
Totals	978	1,170	1,449	1,642	75.3	82.2	100.7	117.5

Of the total number of infant deaths reported for August in the Registration Area, 89.5 per cent or 875 out of 978 were attributable to the 13 causes of death listed in Table 5. The mortality among male children under one year was 85.8 per 1,000 males born, or 570 deaths to 6,643 living male births in the month, while the mortality for females, under one year, was 64.3 per 1,000 females born or 408 deaths to 6,342 living female births.

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

Causes of Death		Eight Provinces	P.E. Island	Nova Scotia	New Brunswick	Ontario	Manitoba	Sask- atchewan	Alberta	British Columbia
Premature Birth	T	223	1	14	6	109	28	31	22	12
	M	141	1	10	4	69	16	14	19	8
	F	82	-	4	2	40	12	17	3	4
Injury at Birth	T	34	-	-	1	16	3	7	4	3
	M	18	-	-	-	9	2	5	1	1
	F	16	-	-	1	7	1	2	3	2
Gastro-Intestinal Diseases	T	245	1	20	20	118	22	28	30	6
	M	145	-	12	13	79	13	13	12	4
	F	99	1	8	7	39	9	15	18	2
Congenital Debility	T	121	5	12	11	56	11	12	11	3
	M	70	4	9	6	34	4	6	6	1
	F	51	1	3	5	22	7	6	5	2
Pneumonia	T	33	1	1	1	18	6	4	-	2
	M	24	-	1	1	12	5	3	-	2
	F	9	1	-	-	6	1	1	-	-
Bronchitis	T	6	-	-	-	4	1	1	-	-
	M	2	-	-	-	1	1	-	-	-
	F	4	-	-	-	3	-	1	-	-
Congenital Malformations	T	75	-	5	-	39	9	7	11	4
	M	37	-	1	-	18	4	5	6	3
	F	38	-	4	-	21	5	2	5	1
Convulsions	T	30	2	6	2	9	4	3	3	1
	M	15	1	3	-	3	2	3	2	1
	F	15	1	3	2	6	2	-	1	-
Whooping Cough	T	39	1	10	1	12	3	4	4	4
	M	22	1	4	1	7	2	3	2	2
	F	17	-	6	-	5	1	1	2	2
Communicable Diseases	T	28	-	2	5	7	2	7	5	-
	M	16	-	1	4	5	1	4	1	-
	F	12	-	1	1	2	1	3	4	-
Syphilis	T	2	-	1	-	1	-	-	-	-
	M	1	-	-	-	1	-	-	-	-
	F	1	-	1	-	-	-	-	-	-
Meningitis	T	9	-	2	1	4	-	1	1	-
	M	5	-	1	1	2	-	1	-	-
	F	4	-	1	-	2	-	-	1	-
Other Causes in early infancy	T	30	-	-	4	17	2	1	4	2
	M	16	-	-	3	9	-	1	2	1
	F	14	-	-	1	8	2	-	2	1
All Other Causes	T	103	1	6	15	37	10	12	15	7
	M	57	-	5	8	22	6	8	8	2
	F	46	1	1	9	15	4	4	7	5
Total Both Sexes		978	12	79	67	447	101	118	110	44
" Males		570	7	47	39	271	56	66	59	25
" Females		408	5	32	28	176	45	52	51	19
Rate per 1,000 living births		75.3	82.2	80.3	77.1	75.2	70.8	70.6	99.4	52.4

(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, AUGUST 1923, BY AGE GROUPS

Age Groups	Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
15 - 19	1	-	1	-	-	-	-	-	-
20 - 24	10	-	1	-	6	-	1	1	1
25 - 29	9	-	1	-	4	-	3	-	1
30 - 39	21	-	1	3	7	2	1	3	4
40 - 49	8	-	-	-	4	-	2	2	-
50 and over	-	-	-	-	-	-	-	-	-
Age not stated	-	-	-	-	-	-	-	-	-
Totals	49	-	4	3	21	2	7	6	6
Rate per (1923)	3.8	-	4.1	3.5	3.5	1.4	4.2	5.4	7.2
1,000 living (1922)	5.1	-	6.8	5.2	4.1	5.2	5.4	8.6	3.7
births (1921)	4.4	5.2	6.2	4.0	4.6	2.5	2.7	6.0	5.3

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

Causes of Death	Total	P.E. Island	Nova Scotia	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
Accidents of pregnancy	9	-	1	-	5	-	2	-	1
(a) Abortion	2	-	-	-	1	-	-	-	1
(b) Ectopic gestation	2	-	-	-	1	-	1	-	-
(c) Other accidents of pregnancy	5	-	1	-	3	-	1	-	-
Puerperal haemorrhage	3	-	-	-	-	1	-	1	1
Other accidents of childbirth	3	-	-	-	2	-	-	1	-
(a) Caesarean section	-	-	-	-	-	-	-	-	-
(b) Other surgical operations and instrumental delivery	-	-	-	-	-	-	-	-	-
(c) Others under this title	3	-	-	-	2	-	-	1	-
Puerperal sepsis	17	-	2	2	4	1	3	3	2
Phlegmasia alba dolens; puerperal embolism or sudden death in puerperium	4	-	-	-	4	-	-	-	-
Puerperal albuminuria and convulsions	13	-	1	1	6	-	2	1	2
Following childbirth (not otherwise defined)	-	-	-	-	-	-	-	-	-
Puerperal diseases of the breast	-	-	-	-	-	-	-	-	-
Totals	49	-	4	3	21	2	7	6	6

MORTALITY (All Causes)

Total deaths in an estimated population of 6,691,000 for August numbered 4,799, as against 5,081 in a population of 6,552,000 in August 1922 and 5,486 in a population of 6,414,000 in August 1921. The equivalent annual death rate for August 1923 was 8.5 per 1,000 population, as compared with 9.2 and 10.1 in August 1922 and 1921.

TABLE 8.- TOTAL DEATHS AND DEATH RATES BY PROVINCES, AUGUST 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. Island	73	77	76	78	9.8	10.3	10.1	10.3
Nova Scotia	472	453	504	613	10.4	10.2	11.3	13.9
New Brunswick	318	384	460	541	9.4	11.5	14.0	16.6
Ontario	2,439	2,423	2,838	2,769	9.5	9.6	11.4	11.3
Manitoba	383	475	459	467	7.1	8.9	8.9	9.2
Saskatchewan	402	460	427	438	5.8	6.9	6.6	7.0
Alberta	361	412	409	389	6.7	7.9	8.2	8.0
British Columbia	346	387	313	321	7.6	8.8	7.3	7.7
Totals	4,799	5,081	5,486	5,616	8.5	9.2	10.1	10.5

More than 71 per cent of all deaths in August were due to the 23 causes of death listed below. This proportion prevails for nearly every month of the year. Diseases of the heart accounts for 518 deaths, Cancer for 465, Tuberculosis for 350 deaths. Deaths from Pneumonia were only 158; Diarrhoea and Enteritis, 320.

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

Causes of Death	Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
Diseases of the heart	518	14	46	32	303	34	31	17	41
Pneumonia	158	3	14	8	80	15	19	9	10
Cancer	465	7	52	12	268	38	23	24	41
Tuberculosis of the lungs	280	4	44	29	128	19	16	17	23
Tuberculosis, other organs	70	-	4	7	26	11	8	7	7
Diseases of the Arteries	209	1	19	8	137	15	9	8	12
Diarrhoea and Enteritis	320	1	24	27	161	25	39	30	13
Congenital Malformations	80	-	6	-	42	9	7	12	4
Congenital Debility	122	5	13	11	56	11	12	11	3
Premature birth	223	1	14	6	109	28	31	22	12
Injury at birth	34	-	-	1	16	3	7	4	3
Convulsions (under 5 years)	36	2	6	4	11	5	4	3	1
Maternal Mortality	49	-	4	3	21	2	7	6	6
Senility	171	6	39	21	78	9	10	5	3
Cerebral Haemorrhage	194	3	20	10	116	12	11	12	10
Influenza	32	-	4	2	14	1	4	5	2
Nephritis	177	5	21	9	95	14	9	10	14
Diphtheria	63	1	2	5	17	10	20	8	-
Bronchitis	25	-	-	2	16	2	3	1	1
Appendicitis	60	-	4	5	32	2	6	9	2
Anaemia Chlorosis	53	1	1	4	39	4	2	-	2
Paralysis	38	4	8	8	14	1	-	2	1
Diabetes mellitis	54	-	5	1	26	7	2	5	8
All other causes	1,368	15	122	103	634	111	122	134	127
Totals	4,799	73	472	318	2,439	383	402	361	346

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

Kinds		Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
Total		465	7	52	12	268	38	23	24	41
	M	221	4	30	5	121	14	13	14	21
	F	244	3	22	7	147	24	11	10	20
Buccal Cavity	M	18	-	6	-	10	-	1	-	1
	F	3	-	-	-	2	-	-	-	1
Stomach & Liver	M	101	2	8	3	53	11	5	8	11
	F	75	1	9	3	36	9	5	2	10
Peritoneum, intestines and rectum	M	35	-	6	-	21	3	1	1	3
	F	35	-	1	2	25	2	2	2	2
Female genital organs	F	56	2	7	1	30	5	3	3	5
Breast	F	38	-	1	-	31	4	1	1	-
Skin	M	10	2	1	-	6	-	-	-	1
	F	4	-	1	-	2	-	-	-	1
Unspecified organs	M	57	-	9	2	31	-	5	5	5
	F	32	-	3	1	21	4	-	2	1

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

Kinds		Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
Total		350	4	48	36	154	30	24	24	30
	M	166	2	18	8	83	13	11	12	19
	F	184	2	30	28	71	17	13	12	11
Respiratory System	M	125	2	16	7	64	7	6	9	14
	F	155	2	28	22	64	12	10	8	9
Meninges and central nervous system	M	14	-	2	-	9	1	-	-	2
	F	10	-	1	2	1	3	2	-	1
Intestines and peritoneum	M	5	-	-	-	1	1	2	1	-
	F	12	-	1	2	4	2	1	1	1
Vertebral column	M	4	-	-	-	4	-	-	-	-
Joints	M	-	-	-	-	-	-	-	-	-
	F	1	-	-	-	-	-	1	-	-
Other Organs	M	9	-	-	1	3	1	1	1	2
	F	2	-	-	-	1	-	-	1	-
Disseminated	M	8	-	-	-	2	3	1	1	1
	F	5	-	-	2	1	-	-	2	-

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

Causes of Death	Total	Toronto	Hamilton	Ottawa	London	Windsor	Winnipeg	Regina	Calgary	Edmonton	Vancouver	Victoria	Halifax	St. John
Diseases of the heart	127	53	6	11	2	5	11	3	5	2	10	3	7	9
Pneumonia	38	11	3	3	2	1	7	1	1	2	4	-	2	-
Cancer	152	59	10	10	8	-	16	1	2	9	16	9	8	4
Tuberculosis of the lungs	61	14	3	7	5	-	5	3	-	3	8	3	8	2
Tuberculosis, other organs	23	7	-	-	-	1	9	1	1	-	2	2	-	-
Diseases of the Arteries	69	25	3	7	5	3	7	-	1	-	6	2	8	2
Diarrhoea and Enteritis	104	19	6	26	1	4	8	6	11	3	3	1	14	2
Congenital Malformations	23	8	2	-	-	3	5	1	3	2	3	-	1	-
Congenital Debility	26	4	3	4	-	2	3	1	-	5	-	-	1	3
Premature birth	62	16	6	11	2	2	6	4	2	4	4	3	2	-
Injury at birth	12	4	1	2	-	-	2	-	1	1	1	-	-	-
Convulsions (under 5 years)	5	2	-	-	1	-	1	-	-	-	-	-	1	-
Maternal Mortality	15	6	-	1	-	-	-	2	-	1	2	2	-	1
Senility	19	7	-	-	-	1	3	1	-	-	-	1	5	1
Cerebral Haemorrhage, apoplexy	51	21	5	4	2	2	1	-	3	5	1	-	4	3
Influenza	8	3	-	-	2	-	-	1	-	-	2	-	-	-
Nephritis	52	15	5	1	4	2	7	2	4	-	8	1	2	1
Diphtheria	12	3	1	-	-	1	4	-	1	-	-	-	1	1
Bronchitis	3	2	-	-	1	-	-	-	-	-	-	-	-	-
Appendicitis	17	2	3	2	3	1	1	1	3	1	-	-	-	-
Anaemia chlorosis	12	5	-	4	1	-	1	-	-	-	1	-	-	-
Paralysis	6	6	-	-	-	-	-	-	-	-	-	-	-	-
Diabetes mellitis	17	6	3	1	-	-	3	-	-	2	2	-	-	-
All Other Causes	342	94	24	30	25	20	32	9	10	22	37	7	17	15
Totals	1,261	392	84	124	65	48	132	37	48	62	110	34	31	44

MARRIAGES

A greater number of marriages were reported in August 1923 than in the same month in either 1922 or 21 but considerably below that of August 1921. The sharp decline in marriages in 1922 is reflective in the smaller birth rate shown for every month in 1923.

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

Provinces	Number				Equivalent annual rate per 1,000 population			
	1923	1922	1921	1920	1923	1922	1921	1920
P.E. Island	42	57	52	66	5.6	7.6	6.9	8.7
Nova Scotia	273	263	297	320	6.0	5.9	6.7	7.2
New Brunswick	293	239	262	297	3.7	7.2	8.0	9.1
Ontario	2,105	1,964	2,063	2,231	8.2	7.8	8.3	9.1
Manitoba	345	346	356	428	5.8	6.5	6.9	8.4
Saskatchewan	353	333	313	385	4.5	5.0	5.0	6.2
Alberta	301	307	360	441	4.8	5.9	7.2	9.2
British Columbia	393	364	258	422	8.7	8.3	8.3	10.1
Totals	4,075	3,873	4,066	4,591	7.2	7.0	7.5	8.6

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