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FOREWORD

This Bulletin gives a preliminary report on Births, Deaths and Marriages for the month of June 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 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 12,782, being 6,514 males and 6,268 females in June 1923, as compared with 13,798 in June 1922, 13,960 in June 1921 and 14,179 in June 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 JUNE, 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	151	192	179	192	20.9	26.5	24.6	26.2
Nova Scotia	961	1,024	1,010	1,107	22.0	23.4	23.5	21.7
New Brunswick	942	925	986	954	28.8	28.7	30.9	30.2
Ontario	5,902	6,128	6,190	6,277	23.7	25.0	25.7	26.4
Manitoba	1,294	1,457	1,551	1,430	24.5	28.3	30.9	29.1
Saskatchewan	1,544	1,871	1,738	1,906	23.1	29.0	23.5	31.5
Alberta	1,179	1,358	1,426	1,417	22.6	27.0	29.5	30.3
British Columbia	809	843	880	896	18.5	19.8	21.2	22.2
Totals	12,782	13,798	13,960	14,179	23.3	25.7	26.6	27.5

Of the total births (12,782) reported for the Registration Area in June, 12,457 were single births, 161 twins (322 infants) and 1 set of triplets (3 infants). During the month 420 stillbirths were reported, making a total of 13,039 confinements, as against 13,731 in May and 13,591 in April.

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, JUNE 1923.

Provinces	Total	Male	Female	Single Births	Pairs of Twins	Sets of Triplets
P.E. Island	151	69	82	147	2	-
Nova Scotia	961	515	446	935	13	-
New Brunswick	942	471	471	924	9	-
Ontario	5,902	3,053	2,849	5,752	75	-
Manitoba	1,294	659	635	1,264	15	-
Saskatchewan	1,544	766	778	1,501	20	1
Alberta	1,179	589	590	1,143	18	-
British Columbia	809	392	417	791	9	-
Totals	12,782	6,514	6,268	12,457	161	1

(2)

Stillbirths reported in June were distributed as follows: Prince Edward Island 4; Nova Scotia 39; New Brunswick 21; Ontario 214; Manitoba 44; Saskatchewan 47; Alberta 36; British Columbia 15, a total for the eight provinces of 420.

There were also reported 17 instances of twin births in which one child was stillborn; 1 in Prince Edward Island; 1 in Nova Scotia; 6 in Ontario; 1 in Manitoba; 3 in Saskatchewan; 2 in Alberta; 3 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 June 1923 than in June 1922. In only three cities, London, Windsor and Regina, was the number of living births reported equal to or greater in June 1923 than in June 1920.

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

Cities of 30,000 and over	1923	1922	1921	1920
Toronto	1,073	1,134	1,159	1,281
Hamilton	259	241	297	307
Ottawa	253	287	252	289
London	135	127	141	124
Windsor	127	96	128	115
Winnipeg	451	524	578	483
Regina	89	94	108	89
Calgary	151	164	160	213
Edmonton	162	188	207	205
Vancouver	250	252	276	272
Victoria	71	72	73	99
Halifax	129	132	146	148
St. John	119	96	115	124

INFANTILE MORTALITY

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

The death rate among children under one year of age for the first six months of 1923 was 99.5 per 1,000 living births. For the first three months of the year it was 114.4 per 1,000 living births and for the months of April, May and June it averaged 85.1 per 1,000 births. For June the rate for the Registration Area dropped to 69.9 per 1,000 living births, which, however, was nearly 4 per cent higher than for the same month in 1922 and more than 5½ per cent higher than in June 1921. The lowest infant death rate for June 1923 was reported for Manitoba with 47.1 per 1,000 living births, followed by British Columbia with 53.2. Ontario with 66.9 strikes the average for the Registration Area, while Prince Edward Island with 66.2 shows a slightly better ratio.

TABLE 4.- INFANT MORTALITY BY TOTALS FOR PROVINCES, JUNE 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	10	9	9	12	66.2	77.4	50.3	62.5
Nova Scotia	76	60	88	110	79.1	58.6	87.1	99.4
New Brunswick	95	80	72	74	100.8	86.5	73.0	77.6
Ontario	395	412	387	553	66.9	67.2	52.5	88.1
Manitoba	61	109	108	140	47.1	74.8	69.6	97.9
Saskatchewan	109	108	130	134	70.6	57.7	74.8	70.3
Alberta	104	104	81	119	80.2	76.6	56.8	84.0
Br. Columbia	43	48	49	34	53.2	56.9	55.7	39.2
Totals	893	930	924	1,176	69.9	57.4	66.2	82.9

Of the total number of infant deaths reported for June in the Registration Area 87.5 per cent or 781 out of 893 were attributable to the 13 causes of death listed in Table 5. The mortality among male children under one year was 78.9 per 1,000 males born, or 514 deaths to 6,514 living male births in the month, while the mortality for females under one year was 60.5 per 1,000 females born or 379 deaths to 6,268 living female births.

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

Causes of Death	Sex	Number	Provinces								British Columbia
			N.B.	P.E.I.	Nov. Scot.	New Brunswick	Ontario	Manitoba	Sask.-	Alber-	
Premature Birth	T	241	2	23	18	118	18	22	25	15	15
	M	129	1	12	9	64	8	13	13	9	9
	F	112	1	11	9	54	10	9	12	12	6
Injury at Birth	T	43	-	3	4	18	5	4	4	3	5
	M	25	-	1	3	9	3	3	3	3	3
	F	18	-	2	1	9	2	1	1	1	2
Gastro- Intestinal Diseases	T	102	1	4	8	46	8	18	14	3	3
	M	58	1	1	4	26	5	12	6	3	3
	F	44	-	3	4	20	3	6	6	-	-
Congenital Debility	T	103	3	12	16	40	7	20	7	3	2
	M	68	1	7	9	28	5	11	5	1	1
	F	40	1	5	7	12	2	9	4	1	1
Pneumonia	T	70	1	4	5	23	4	14	6	4	4
	M	41	1	4	5	15	4	6	8	1	1
	F	29	1	2	8	8	5	2	2	3	1
Bronchitis	T	12	1	1	1	6	2	2	1	1	1
	M	7	1	1	1	4	1	1	1	1	1
	F	5	1	2	1	2	1	1	1	1	1
Congenital Malformations	T	70	1	3	3	41	4	3	11	4	4
	M	42	1	2	1	24	4	1	6	3	3
	F	28	1	1	2	17	2	2	5	1	1
Convulsions	T	31	1	1	2	11	1	1	1	2	2
	M	18	1	1	6	6	1	1	1	1	1
	F	13	1	3	5	5	1	1	1	1	1
Whooping Cough	T	27	1	1	2	14	1	1	3	1	1
	M	12	1	1	3	6	1	1	1	1	1
	F	15	1	1	1	8	1	1	2	1	1
Communicable Diseases	T	20	-	-	1	10	-	2	5	5	5
	M	11	-	-	1	6	-	1	3	3	3
	F	9	-	-	1	4	-	1	2	2	2
Syphilis	T	3	-	-	1	1	-	1	1	1	1
	M	1	-	-	1	-	-	1	1	1	1
	F	2	-	-	1	1	-	1	1	1	1
Meningitis	T	11	-	-	1	1	1	1	1	1	1
	M	9	-	-	1	1	1	1	1	1	1
	F	2	-	-	1	1	1	1	1	1	1
Other Causes in early infancy	T	43	-	3	7	14	4	7	6	2	2
	M	30	-	3	5	10	3	4	4	1	1
	F	13	-	1	2	4	1	3	2	1	1
All other causes	T	112	2	8	24	48	3	10	14	3	3
	M	63	-	4	14	28	2	6	8	1	1
	F	49	2	4	10	20	1	4	6	2	2
Total Both Sexes		393	10	76	95	395	61	109	104	43	
Total Males		214	5	45	57	227	36	62	58	24	
" Females		179	5	31	38	168	25	47	46	19	
Rate per 1,000 living births		69.9	66.2	79.1	100.8	66.9	47.1	70.6	88.2	53.2	

(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, JUNE 1923, BY AGE GROUPS

Age Groups	Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
15 - 19	2	-	-	-	-	-	-	2	-
20 - 24	11	-	-	1	5	2	1	1	1
25 - 29	10	-	1	-	3	-	-	2	-
30 - 39	32	-	3	2	18	11	7	4	3
40 - 49	6	-	1	1	2	1	1	2	1
50 and over	-	-	-	-	-	-	-	-	-
Age not stated	-	-	-	-	-	-	-	-	-
Totals	70	-	4	5	32	4	9	11	5
Rate per 1,000 living births (1922)	5.5	-	4.2	5.3	5.4	3.1	5.8	9.3	6.2
(1921)	4.8	-	3.9	4.3	5.5	4.1	4.8	2.2	7.1
	4.6	-	6.9	2.0	4.8	3.9	3.5	7.0	3.4

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

Causes of Death	Total	P.E.I.	Nov. Scotia	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
Accidents of pregnancy	10	-	1	-	7	1	1	1	1
(a) Abortion	5	-	1	-	3	1	-	1	-
(b) Ectopic gestation	1	-	1	-	-	-	-	-	-
(c) Other accidents of pregnancy	4	-	1	-	4	-	-	-	-
Puerperal haemorrhage	10	-	1	-	2	1	3	2	2
Other accidents of childbirth	3	-	1	-	1	-	-	2	-
(a) Caesarean section	3	-	1	-	-	-	-	2	-
(b) Other surgical operations and instrumental delivery	-	-	-	-	-	-	-	-	-
(c) Others under this title	3	-	1	-	1	-	-	2	-
Puerperal sepsis	19	-	1	2	8	2	3	2	1
Phlegmasia alba dolens; puerperal embolism or sudden death in puerperium	10	-	1	2	5	-	1	1	-
Puerperal albuminuria and convulsions	17	-	1	1	9	-	1	3	2
Following childbirth (not otherwise defined)	1	-	-	-	-	-	-	1	-
Puerperal diseases of the breast	-	-	-	-	-	-	-	-	-
Totals	70	-	4	5	32	4	9	11	5

MORTALITY (All Causes)

Total deaths in an estimated population of 6,691,000 for June numbered 4,967, as against 5,010 in a population of 6,552,000 in June 1922 and 4,800 in a population of 6,414,000 in June 1921. The equivalent annual death rate for June 1923 was 9.0 per 1,000 population, as compared with 9.3 and 9.1 in June 1922 and 1921.

TABLE 8.- TOTAL DEATHS AND DEATH RATES BY PROVINCES, JUNE 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.	74	92	72	92	10.2	12.7	9.9	12.6
Nova Scotia	508	456	480	538	11.6	8.8	11.1	12.6
New Brunswick	371	351	365	374	11.4	10.9	11.4	11.9
Ontario	2,568	2,501	2,378	2,776	10.2	10.2	9.9	11.7
Manitoba	358	441	403	454	6.6	8.6	8.0	9.4
Saskatchewan	367	437	412	430	5.0	6.0	5.0	7.1
Alberta	342	365	387	423	6.6	7.3	8.0	9.0
British Columbia	359	367	303	337	8.2	8.6	7.5	8.4
Totals	4,967	5,010	4,800	5,434	9.0	9.3	9.1	10.5

Nearly 72 per cent of all deaths which occurred in June 1923 were due to the 23 causes listed below. Diseases of the heart accounted for 563 deaths or about 11 per cent of all deaths. Cancer was responsible for 413 deaths, Tuberculosis 427 deaths and diseases of early infancy 467 deaths. Deaths due to Pneumonia dropped to 264 or slightly more than 5 per cent of all deaths.

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

Causes of Death	Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
Diseases of the heart	563	6	58	388	327	37	21	24	52
Pneumonia	264	5	32	21	132	23	28	17	6
Cancer	413	5	46	29	213	36	21	27	36
Tuberculosis of the lungs	360	10	58	29	155	37	20	18	33
Tuberculosis, other organs	67	-	6	5	26	8	8	4	10
Diseases of the Arteries	233	-	17	10	163	8	8	9	18
Diarrhoea and Enteritis	109	1	4	6	52	11	17	15	3
Congenital Malformations	73	1	3	3	44	4	3	11	4
Congenital Debility	109	3	12	16	40	8	20	7	9
Premature birth	242	2	23	18	119	18	22	25	15
Injury at birth	43	-	3	4	18	5	4	4	2
Convulsions (under 5 years)	38	2	10	2	13	1	4	3	1
Maternal Mortality	70	-	4	5	32	4	9	11	1
Senility	207	6	54	29	92	4	10	6	3
Cerebral Haemorrhage	192	4	13	17	122	6	7	9	1
Influenza	75	-	12	4	40	3	8	13	16
Nephritis	187	3	22	12	100	11	10	13	16
Diphtheria	51	-	1	2	24	7	10	6	3
Bronchitis	36	1	0	2	13	3	4	1	2
Apendicitis	32	1	5	2	31	12	11	7	5
Anæmia chloroæcis	35	1	4	2	50	2	3	2	2
Paralysis	37	3	7	7	25	2	1	2	5
Diabetes mellitus	50	1	2	2	30	7	3	1	1
All other causes	1,393	19	104	106	702	101	135	115	111
Totals	4,967	74	508	571	2,568	358	387	342	359

(6)

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

Kinds		Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
	M									
	F									
Total		413	5	46	29	213	36	21	27	36
	M	206	2	20	11	95	20	16	13	29
	F	207	3	26	18	118	16	5	14	7
Mucal Cavity	M	16	-	2	1	9	1	-	2	1
	F	3	1	-	2	-	-	-	-	-
Stomach and liver	M	91	2	6	5	34	15	11	7	11
	F	61	-	5	4	37	5	2	5	3
Peritoneum, intestines and rectum	M	34	-	5	2	12	1	2	2	10
	F	33	1	4	5	19	1	-	1	2
Female genital organs	M	35	-	4	4	21	2	1	2	1
Breast	M	2	-	-	-	1	-	1	-	-
	F	31	-	4	1	18	5	1	2	-
Skin	M	4	-	1	-	3	-	-	-	-
	F	3	-	-	-	2	-	-	-	1
Unspecified organs	M	59	-	6	3	36	3	2	2	7
	F	41	1	9	2	21	3	1	4	-

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

Kinds		Total	P.E.I.	N.S.	N.B.	Ont.	Man.	Sask.	Alta.	B.C.
	M									
	F									
Total		427	10	64	34	181	45	28	22	43
	M	206	5	27	17	88	24	13	10	24
	F	221	5	37	17	93	21	15	12	21
Respiratory System	M	176	5	26	14	75	20	9	8	19
	F	184	5	32	15	80	17	11	10	14
Meninges and central nervous system	M	10	-	1	-	4	2	1	1	1
	F	10	-	1	1	3	1	1	1	2
Intestines and peritoneum	M	5	-	-	-	2	2	-	-	-
	F	12	-	1	-	4	2	2	-	-
Vertebral column	M	3	-	-	-	3	-	-	-	-
	F	-	-	-	-	-	-	-	-	-
Joints	M	2	-	-	-	1	-	1	-	-
	F	2	-	-	-	1	-	1	-	-
Other organs	M	9	-	-	-	2	3	1	3	-
	F	7	-	-	-	1	4	1	-	-
Disseminated	M	1	-	-	-	-	1	-	-	-
	F	6	-	3	-	-	1	-	-	-

(7)

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

Causes of Death	Total	Toronto	Hamilton	Ottawa	London	Windsor	Winnipeg	Rogers	Calgary	Edmonton	Vancouver	Victoria	Halifax	St. John
Diseases of the heart	153	50	10	10	14	5	12	2	9	4	7	6	10	6
Pneumonia	70	26	2	6	3	-	11	-	2	-	2	2	3	6
Cancer	127	43	10	11	5	2	9	2	3	5	14	6	9	0
Tuberculosis of the lungs	71	15	6	6	3	2	11	1	-	2	10	3	9	3
Tuberculosis, other organs	20	3	1	2	1	1	2	1	1	1	5	1	-	1
Diseases of the Arteries	76	37	5	5	6	3	5	-	-	2	0	1	3	1
Diarrhoea and Enteritis	35	10	-	11	-	2	3	-	2	3	1	-	3	-
Congenital Malformations	18	5	5	3	-	-	1	-	1	2	1	-	-	-
Congenital Debility	14	4	1	1	1	2	1	1	-	-	1	-	-	2
Premature birth	60	22	4	-	4	5	7	2	5	3	5	3	-	3
Injury at birth	15	3	1	1	1	-	3	1	-	1	2	-	1	2
Convulsions (under 5 years)	9	2	-	1	1	1	-	-	1	-	1	-	1	1
Maternal Mortality	14	7	2	1	1	-	1	-	-	-	1	-	1	2
Senility	26	12	1	4	3	-	1	-	-	1	-	1	-	3
Cerebral Haemorrhage, apoplexy	50	23	2	1	4	2	2	1	1	2	1	3	2	4
Influenza	11	2	-	-	2	1	1	-	-	1	1	1	-	-
Nephritis	53	17	5	4	3	2	4	1	-	5	1	4	1	6
Diphtheria	9	2	1	3	-	-	2	-	-	-	-	1	-	-
Bronchitis	30	4	-	-	-	-	-	-	-	-	-	1	-	3
Appendicitis	25	9	1	3	1	1	1	-	-	3	2	1	-	3
Anæmia chlorosis	10	3	3	1	-	1	1	-	-	-	-	1	-	-
Paralysis	15	7	2	2	1	-	-	-	-	-	-	1	-	2
Diabetes mellitus	17	6	1	-	1	1	3	2	-	-	3	-	-	-
All other causes	359	106	25	52	16	12	39	3	13	19	41	11	14	13
Totals	1,283	426	95	128	70	43	120	23	46	49	113	36	72	60

MARRIAGES

There were more marriages reported for the Registration Area in June 1923 than in June 1922, but considerably fewer than in June 1921 or 1920. The equivalent annual rate per 1,000 estimated population, 11.2, was the same in 1923 and 1922, while in 1921 it was 13.1 and in 1920 it was 14.9 per 1,000 population (estimated).

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

Provinces	Number				Equivalent annual rate per 1,000 population			
	1923	1922	1921	1920	1923	1922	1921	1920
P.E. Island	43	64	56	70	6.6	8.8	7.7	9.6
Nova Scotia	397	351	372	503	9.1	8.0	8.0	13.6
New Brunswick	341	331	465	523	10.5	10.3	14.6	16.6
Ontario	3,529	3,305	3,733	4,196	14.5	13.3	15.5	17.7
Manitoba	420	502	671	633	9.3	9.9	13.4	13.9
Saskatchewan	411	464	556	520	5.5	7.2	8.9	8.7
Alberta	355	430	520	552	6.8	8.7	10.9	11.9
British Columbia	486	459	402	566	11.0	10.3	11.6	14.0
Totals	6,121	6,002	6,875	7,700	11.2	11.2	13.1	14.9

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