







Vital Statistics Annual Report 2005





















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For more information on this report, contact:

Vital Statistics 126 Douses Road, PO Box 3000 Montague, Prince Edward Island, COA 1R0 Tel: 902 838 0880

Fax: 902 838 0883

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Introduction

The Prince Edward Island Department of Health, Vital Statistics Division is responsible for the registration and certification of vital events through the administration of the *Vital Statistics Act, Marriage Act,* and *Change of Name Act.*

The registration of vital events in Canada dates back to the 1600s, when the earliest missionaries and explorers kept records of births and deaths. These records provided the governments of France and later Britain with valuable information on the conditions and populations of their settlements in the New World.

The collection of such information, combined with census taking, has evolved and has been one of the key contributors for compiling accurate demographic information on the population and has also aided in other activities such as taxation, and monitoring disease outbreaks, causes of death and the health of the population. The administration of vital statistics programs has been a responsibility of provincial and territorial governments since the late 1800s. In 1919 the system of vital statistics was expanded to provide information for analysis at the national level for health planning and research and for population estimates. Vital statistics programs have responded to societal changes and today many commonalities exist between the programs from province to province, as jurisdictions adapt national standards in areas of data collection, legislation and document security.

Over the years certificates issued as proof of birth, death or marriage began to be viewed as the primary identity document, one that provided citizens with proof of age and citizenship. As well, government looked to birth certificates as the proof required to obtain other key forms of identification, such as the Social Insurance Number, Medicare, passports and drivers' licence. The need for a secure identity document has increased, especially since 9/11 and the escalation of identity fraud. Vital statistics programs have responded by strengthening the security within their programs by improving issuance practices and the quality of the documents issued.



Vital Event Data

The information presented in this report is summary data and is based on the legislated requirement for notification of live birth, stillbirth, death and marriage events which are reported to Vital Statistics. This information is used by government agencies, health planners, researchers and the general public. In order to maintain confidentiality, the information does not disclose personally identifiable data.

Live birth, stillbirth and death statistics in this report summarize events which occurred in the province of Prince Edward Island and includes residents and non-residents. The information does not include events that occurred outside the province to residents of the province. Marriage statistics summarize all events that occurred in the province to either residents or non-residents. Statistics Canada makes modifications for events which occur outside the province for residents of the province. The registration requirements for each type of event are outlined briefly as follows:

Live Births: The *Vital Statistics Act* prescribes the legal requirements for registering live births. Parents are responsible for filing a Statement of Live Birth within 30 days of the event. For births which occur in a hospital, nursing staff are appointed in accordance with the *Vital Statistics Act* and Regulations as division registrars. They are responsible for ensuring that the Statement of Live Birth is completed and returned to Vital Statistics. For births which occur outside a hospital, the medical practitioner or other person who assumes responsibility for the delivery of the child is responsible for providing a notice of birth within 72 hours after the birth.

Stillbirths: In the event of a stillbirth, the person responsible for registering the live birth is also responsible for completing the Registration of Stillbirth. In addition a physician or coroner is required to complete the medical certificate portion of the Registration of Stillbirth and provide it to the funeral director, who files it with Vital Statistics.



Deaths: The medical practitioner in attendance at the last illness of a deceased person or the coroner conducting the investigation into the death of a person is required to complete the Medical Certificate portion of the Registration of Death. In addition an informant provides the necessary information on the Registration of Death to the funeral director. The funeral director provides the completed Registration of Death to the division registrar to obtain a Burial Permit. The division registrar forwards the Burial Permit and the Registration of Death to Vital Statistics.

Marriages: The Marriage Act prescribes the requirements for individuals to marry, as well as the authorization of religious representatives to perform the solemnization of marriage. Vital Statistics is also responsible for recommending the appointment of issuers of Marriage Licences and to oversee their work. In 2005 the Marriage Act was amended to accommodate same sex marriage and the appointment of marriage commissioners for the purpose of performing civil marriage ceremonies.

Individuals who meet the legal requirements to marry and obtain a Marriage Licence can choose a civil ceremony performed by a judge of the Supreme Court, a designated justice of the peace, the prothonotary or the deputy prothonotary of the Supreme Court or a marriage commissioner, or a religious ceremony by a religious representative. Under the *Marriage Act*, Vital Statistics is required to license marriage commissioners for civil ceremonies and religious representatives of established religious denominations who request to perform religious marriage ceremonies.



Methodology

Sources

The sources of data for this report originate with the registration of births, deaths, stillbirths and marriages for the year 2005. These are based on information provided by parents, physicians, coroners, funeral directors, division registrars, religious representatives, representatives of the Supreme Court and Marriage Commissioners. This information is used to register vital events, to issue certificates of birth, death and marriage, for administrative purposes, to provide information for national and provincial statistics and for population estimates. Researchers and health planners also use this information for determining the population's health and health services.

The Registration of Live Birth or Stillbirth includes information on birth weight, gestation and abnormalities of the infant. The Medical Certificate of Death portion of the Registration of Death and the Registration of Stillbirth include information on the immediate cause of death or stillbirth, antecedent causes giving rise to the immediate cause, and other significant conditions contributing to the death or stillbirth. This information is provided to Health Statistics Division of Statistics Canada where it is processed by medically trained staff using the World Health Organization's International Classification of Diseases (ICD) coding scheme and returned to PEI Vital Statistics.

Since the early 1900s, the International Classification of Diseases (ICD) have been revised regularly in order to reflect advances in medical science and changes in diagnostic terminology. Coding according to the 10th revision (ICD-10) was implemented in January 2000. See Appendix A.

The population figures used to compile the rates are based on Statistics Canada population estimate for Prince Edward Island for the year 2005 (138,113).



All age groups are based on the standard five year groupings used by Statistics Canada. Age ranges are determined by the frequency of events. Cell counts with less than five individuals are not provided.

Time Periods

This report pertains to events that occurred in the calendar year for 2005. All events occurred in Prince Edward Island, involving both residents and non-residents.



Terms and Definitions

Symbols < less than

+ plus

Population Population figures used to determine rates were

based on the 2005 population estimates

produced by Statistics Canada

Births Infants born alive (excluding stillbirths)

Birth Weight The official weight of the infant usually

obtained within an hour of birth.

Low Birth Weight Live births where the

birth weight is less

than 2,500 grams

Normal Birth Weight Live births from

2,500 to 4,499 grams

High birth weight Live births where the

birth weight is 4,500

or more grams

Stillbirths Fetal deaths of at least 500 grams in weight or

at least 20 weeks gestation

Deaths Excludes stillbirths

Infant deaths Deaths under one year of age.

Neonatal deaths Deaths under 28 days (four weeks) of age

Total Births Live births and stillbirths

Gestational Period Elapsed time between conception (or last

menstrual period) and birth.

Preterm is less than 37 weeks; term is 37 to 42

weeks; postterm is 42 or more weeks.



ICD -10 Coding Codes established by the World Health

Organization International Statistical

Classification of Diseases which are applied to cause of death information submitted on a Registration of Death – 10th Revision which was put into effect by Vital Statistics on January

1, 2000

Resident For the purpose of this report, resident means

person(s) permanently residing in Prince

Edward Island.

Non-resident For the purpose of this report, non-resident

means person(s) who do not normally reside

in Prince Edward Island.

Region Represents geographic areas that were formally

known as health regions

Neonatal deaths Deaths under 28 days (four weeks) of age

Table 1 Live Births by Age of Mother and Birth Weight of Child

		Age of Mother ¹				
Birth Weight (in grams)	15-19	20-24	25-29	30-34	35+	Total
<2,500	< 5	14	20	18	< 5	
2,500-3,499	37	145	178	158	70	
3,500-4,499	37	126	194	187	84	
4,500+	< 5	7	17	12	5	
Total						1,314

¹ Cases with age of mother less than 15 years have been excluded as they represent less than 1% of total cases.

Live Births by Weight of Child

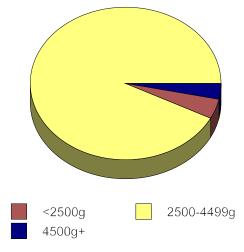


Table 2 Live Births by Birth Weight of Child

Birth Weight (in grams)	Total
<2,000	14
2,000-2,499	41
2,500-2,999	151
3,000-3,499	437
3,500-3,999	457
4,000-4,499	171
4,500+	43
Total	1,314

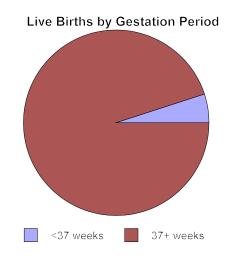
Table 3 Live Births by Gestation Period and Birth Weight of Child

	Gestation Period (Weeks)		
Birth Weight (in grams)	<37 weeks	37+ weeks	
<2,500	38	17	
2,500-2,999	18	133	
3,000-3,499	7	430	
3,500-3,999	< 5	454	
4,000+	< 5	214	
Total	66	1,248	

Table 4 Live Births by Age of Mother and County of Residence

Age of Mother ¹						
County of Residence	15-19	20-24	25-29	30-34	35+	Total ²
Prince	27	129	155	114	47	472
Queens	42	122	204	211	91	670
Kings	8	41	52	46	19	166
Total ²	77	292	411	371	157	1,308

¹ Cases with age of mother less than 15 years have been excluded as they represent less than 1% of total



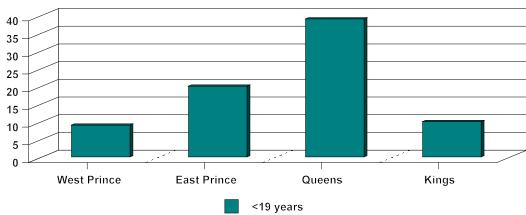
² Non-residents are not included in these figures as they represent less than 1% of total

Table 5 Live Births by Age of Mother and Region of Residence

•	Age of Mother ¹					
Region of Residence	15-19	20-24	25-29	30-34	35+	Total ²
West Prince	9	50	41	37	10	147
East Prince	20	81	119	82	39	341
Queens	39	116	198	204	86	643
Kings	10	44	53	48	22	177
Total ²	78	291	411	371	157	1,308

¹ Cases with age of mother less than 15 years have been excluded as they represent less than 1% of total.





² Non-residents are not included in these figures as they represent less than 1% of total.

Table 6 Births by Type

Live Births	1,314
Stillbirths	7
Total	1,321

Table 7 Marriages by Type

Heterosexual Marriages	882
Same Sex Marriages ¹	9
Total	891

¹Same sex marriage legislation came into effect in August 2005.

Table 8 Marriages by Age of Spouse

	, 0
Age	Total
15-19	14
20-24	284
25-29	551
30-34	334
35-39	196
40-44	137
45-49	91
50+	175
Total	1,782

Table 9 Marriages by Marital Status

	Total
Both Spouses Never Married	589
Both Spouses Divorced	105
Both Spouses Widowed	16
Never Married and Divorced	148
Never Married and Widowed	13
Divorced and Widowed	20
Total	891

Table 10 Marriages by Place of Residence

Both spouses Resident of PEI	654
Both spouses Non-Resident	210
Resident of PEI and Non- Resident	27
Total	891

Table 11 Marriages by Type of Ceremony

Civil Marriages	162
Religious Marriages	729
Total	891

Table 12 Marriages by Religious Denomination of Officiant

0 / 0	
Denomination	Total
Anglican	38
Baptist	35
Catholic	268
Eastern Orthodox	< 5
Jehovah's Witness	< 5
Jewish	< 5
Lutheran	< 5
Mennonite/Hutterite	< 5
Pentecostal	12
Presbyterian	85
Salvation Army	< 5
United Church	193
Other Christian	93
Other Non Christian	< 5
Total	729

Table 13 Deaths by Sex, Age and County of Residence

	, 0	,			Age			
	County of Residence	<25	25-44	45-59	60-74	75-84	85+	Total ¹
Female	Prince	< 5	6	11	37	38	83	
	Queens	< 5	< 5	22	49	89	131	
	Kings	< 5	< 5	6	20	23	38	
Male	Prince	< 5	10	20	47	42	30	
	Queens	< 5	10	24	77	78	63	
	Kings	< 5	< 5	8	32	32	20	
Total ¹		10	34	91	262	302	365	1,064

¹ Non-residents are not included as they represent less than 1% of total

Table 14 Deaths by Age and Region of Residence

, 0		Age					
Region	<25	25-44	45-59	60-74	75-84	85+	Total ¹
West Prince	< 5	10	7	23	25	24	
East Prince	< 5	6	26	65	60	100	
Queens	< 5	12	44	120	156	166	
Kings	< 5	6	14	54	61	75	
Total ¹	10	34	91	262	302	365	1,064

¹ Non-residents are not included as they represent less than 1% of total

Table 15 Leading Cause of Death Categories¹, by Age and Sex

			Ag	e					
		<20	20- 34	35- 49	50- 64	65- 74	75- 84	85+	Total
Female	Heart and Stroke (all circulatory diseases)	< 5	< 5	< 5	7	16	53	128	207
	Cancer (Malignant Neoplasms)	< 5	< 5	10	32	33	49	31	156
	Respiratory (all respiratory diseases)	< 5	<5	< 5	< 5	9	13	27	53
	Injury (injury, poisons, accidents, suicide)	< 5	17						
	Other Causes	< 5	< 5	< 5	7	22	32	60	128
Male	Heart and Stroke (all circulatory diseases)	< 5	<5	11	29	41	65	48	195
	Cancer (Malignant Neoplasms)	< 5	< 5	7	30	41	48	16	142
	Respiratory (all respiratory diseases)	< 5	< 5	< 5	< 5	5	11	18	37
	Injury (injury, poisons, accidents, suicide)	< 5	7	7	7	< 5	< 5	< 5	29
	Other Causes	< 5	< 5	< 5	17	25	26	27	104
lesi o	ures represent only deat	7	18	47	138	195	300	363	1,068

¹These figures represent only deaths that have an ICD-10 code.

Table 16 Cause of Death¹, by Sex and ICD-10 Chapter

ICD 10 Code		Male	Female	Total	Unadjusted Rate/ 100,000
I100-I99	Heart and Stroke (all circulatory diseases)	195	207	402	291
C00- C97	Cancer (Malignant Neoplasms)	142	156	298	216
J00-J99	Respiratory (all respiratory diseases)	37	53	90	65
S00-Y98	Injury (injury, poisons, accidents, suicide)	29	17	46	33
K00-K93	Diseases of digestive system	15	25	40	29
E00-E90	Endocrine, nutritional, metabolic diseases	25	12	37	27
G00- G99	Diseases of nervous system	11	25	36	26
F00-F99	Mental and behavioural disorders	16	17	33	24
N00- N99	Diseases of genitourinary system	18	16	34	25
R00-R99	Ill defined	5	16	21	15
	Conditions not listed above	14	17	31	22
leni C	Total ¹	507	561	1,068	773

¹These figures represent only those deaths that have an ICD 10 code

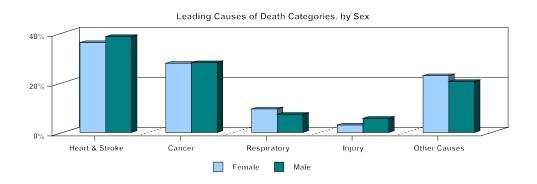


Table 17 Live Births, Marriages and Deaths by Month

Month	Live Births	Marriages	Deaths
January	96	5	96
February	97	16	100
March	141	21	100
April	104	20	79
May	121	58	71
June	100	102	82
July	121	210	88
August	113	196	82
September	114	116	96
October	88	91	101
November	90	22	88
December	129	34	93
Total	1,314	891	1,076

Table 18 Live Births and Deaths by County of Residence

County of Residence	Live Births	Deaths
Prince	473	329
Queens	668	549
Kings	165	186
Total ¹	1,306	1,064

 $^{^{\}scriptscriptstyle 1}$ Non-residents are not included in these figures as they represent less than 1% of total

Table 19 Live Births and Deaths by Region of Residence

County of Residence	Live Births	Deaths
West Prince	148	92
East Prince	341	259
Queens	641	500
Kings	176	213
Total ¹	1,306	1,064

 $^{^{\}rm 1}$ Non-residents are not included in these figures as they represent less than 1% of total

Appendix A

List of 39 Selected Causes of Death

	Cause of Death	ICD-10 CODE
1	Tuberculosis	A16-A19
2	Syphilis	A50-A53
3	Human immunodeficiency virus (HIV) disease	B20-B24
	Malignant neoplasms	C00-C97
4	Malignant neoplasm of stomach	C16
5	Malignant neoplasms of colon, rectum and anus	C18-C21
6	Malignant neoplasm of pancreas	C25
7	Malignant neoplasms of trachea, bronchus and lung	C33-C34
8	Malignant neoplasm of breast	C50
9	Malignant neoplasms of cervix uteri, corpus uteri and ovary	C53-C56
10	Malignant neoplasm of prostate	C61
11	Malignant neoplasms of urinary tract	C64-C68
12	Non-Hodgkin's lymphoma	C82-C85
13	Leukemia	C91-C95
14	Other malignant neoplasms	C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C60, C62-C63, C69-C81, C88, C90, C96 -C97
15	Diabetes mellitus	E10-E14
16	Alzheimer's disease	G30
	Major cardiovascular diseases	I00-I78
	Diseases of heart	100-109, 111, 113, 120-151
17	Hypertensive heart disease with or without renal disease	I11, I13
18	Ischemic heart diseases	I20-I25
19	Other diseases of heart	100-109, 126-151
20	Essential (primary) hypertension and hypertensive renal disease	I10, I12
21	Cerebrovascular diseases	160-169

Appendix A

List of 39 Selected Causes of Death

22	Atherosclerosis	I70
23	Other diseases of circulatory system	I71-I78
24	Influenza and pneumonia	J10-J18
25	Chronic lower respiratory diseases	J40-J47
26	Peptic ulcer	K25-K28
27	Chronic liver disease and cirrhosis	K70, K73-K74
28	Nephritis, nephrotic syndrome and nephrosis	N00-N07, N17-N19, N25-N27
29	Pregnancy, childbirth and the puerperium	O00-O99
30	Certain conditions originating in the perinatal period	P00-P96
31	Congenital malformations, deformations and chromosomal abnormalities	Q00-Q99
32	Sudden infant death syndrome	R95
33	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden	R00-R94, R96-R99
	infant death syndrome)	
34	infant death syndrome) All other diseases (Residual)	A00-A09, A20-A49, A54-B19, B25- B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15, N20- N23, N28-N98, U04.9
34	,	B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15, N20-
	All other diseases (Residual)	B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15, N20-N23, N28-N98, U04.9 V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-
35	All other diseases (Residual) Motor vehicle accidents	B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15, N20-N23, N28-N98, U04.9 V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2 V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3,V89.9, V90-X59,
35 36	All other diseases (Residual) Motor vehicle accidents All other and unspecified accidents and adverse effects	B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15, N20-N23, N28-N98, U04.9 V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2 V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3,V89.9, V90-X59, Y40-Y86, Y88

